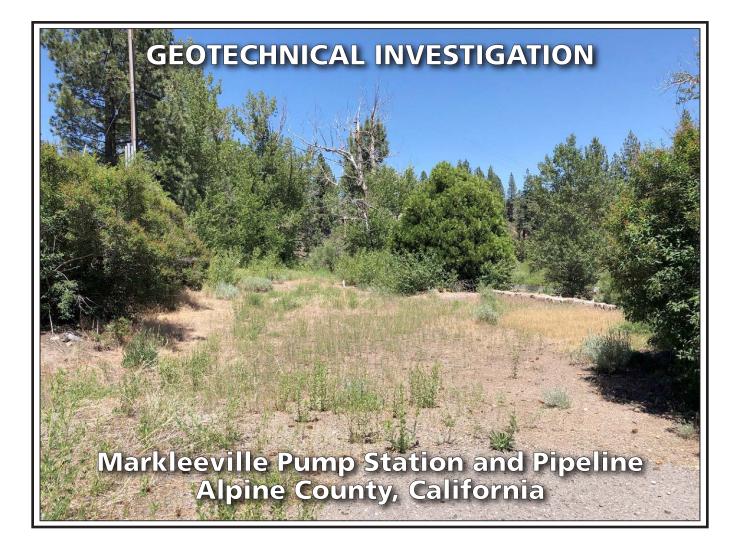
APPENDIX A GEOTECHNICAL REPORT



PREPARED FOR:

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JANUARY 2021

GEOCON PROJECT NO. S1965-05-01



GEOTECHNICAL ENVIRONMENTAL MATERIALS



Project No. S1965-05-01 January 12, 2021

VIA ELECTRONIC EMAIL

Gabriel Rodell, PE Bennett Engineering Services 1082 Sunrise Avenue, Suite 100 Roseville, California 95661

Subject: GEOTECHNICAL INVESTIGATION MARKLEEVILLE SEWER PUMP STATION AND PIPELINE MARKLEEVILLE, ALPINE COUNTY, CALIFORNIA

Mr. Rodell:

In accordance with your authorization of our proposal (Geocon Proposal No. LS-20-93, dated April 7, 2020), we have prepared this geotechnical investigation report for Markleeville Sewer Pump Station and Pipeline project located in Alpine County, California. The project consists of constructing a new pump station and installing a new pipeline in the Town of Markleeville.

The accompanying report presents our findings, conclusions, and recommendations regarding the geotechnical aspects of designing and constructing the project as presently proposed. In our opinion, the project is feasible from a geotechnical viewpoint provided our recommendations are incorporated into the design and construction of the project.

Please contact us if you have any questions concerning the contents of this report or if we may be of further service.

Respectfully Submitted,

GEOCON CONSULTANTS, INC.

Victor M Guardado, EIT Senior Staff Engineer

Jeremy J. Zorne, PE, GE Senior Engineer



TABLE OF CONTENTS

GEO	TECHNICAL INVESTIGATION	Page
1.0	PURPOSE AND SCOPE	1
2.0	SITE AND PROJECT DESCRIPTION	2
3.0	SOIL AND GEOLOGIC CONDITIONS. 3.1 Regional and Local Geology	2 3 3
4.0	GROUNDWATER	4
5.0	 SEISMICITY AND GEOLOGIC HAZARDS	
6.0	 CONCLUSIONS AND RECOMMENDATIONS	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array} & \end{array} & \begin{array}{c} \end{array} & \begin{array}{c} \end{array} & \begin{array}{c} \end{array} & \end{array} & \begin{array}{c} \end{array} & \end{array} & \end{array} & \begin{array}{c} \end{array} & \end{array} & \begin{array}{c} \end{array} & \end{array} &$
7.0	FURTHER GEOTECHNICAL SERVICES 7.1 Plan and Specification Review 7.2 Testing and Observation Services	17 17
8.0	LIMITATIONS AND UNIFORMITY OF CONDITIONS	
9.0	REFERENCES	
	JRES Figure 1, Vicinity Map Figure 2, Site Plan Figure 3, Geologic Map Figure 4, Cross Section A-A' Figure 5, Typical Trench Plug Detail ENDIX A	

FIELD INVESTIGATION Figure A1, Key to Logs Figures A2 through A4, Logs of Exploratory Borings B1 through B3 Previous Log of Test Borings (Caltrans, 2018 and 2019)

TABLE OF CONTENTS (Continued)

APPENDIX B

LABORATORY TESTING PROGRAM Table B1, Summary of Corrosion Parameters Figure B1, Summary of Laboratory Results Figures B2 and B3, Grain Size Distribution Figures B4 and B5, Direct Shear Strength Tests Figures B6 and B7, Compaction Test Reports

APPENDIX C

TUNNELMAN'S GROUND CLASSIFICATION OF SOILS

GEOTECHNICAL INVESTIGATION

1.0 PURPOSE AND SCOPE

This report presents the results of our geotechnical investigation for the proposed sewer pump station and pipeline installation for the Town of Markleeville in Alpine County, California. The exact location of the pump station has not been determined but will likely be located on the north/east side of State Route 89 (SR-89) and north/west of the Markleeville Creek. The approximate location of the project is depicted on the Vicinity Map, Figure 1.

The purpose of our geotechnical investigation was to evaluate subsurface soil and geologic conditions encountered at the project site and provide conclusions and recommendations relative to the geotechnical aspects of designing and constructing the project as presently proposed.

To aid in preparing this report, we reviewed the following foundation report previously prepared by the State of California – Department of Transportation (Caltrans): *Foundation Report for Markleeville Creek Bridge (Replace)*, prepared by Caltrans, Office of Geotechnical Design-North, Geotechnical Services-MS5, Division of Engineering Services (File No. 10-Alp-89-PM 14.69), dated March 4, 2020. We have referenced selected subsurface information from this study in preparing this report.

We performed the following scope of services:

- Performed a limited geologic and geotechnical literature review to aid in determining the geologic and geotechnical conditions present at the site. A list of referenced material is included in Section 9.0 of this report.
- Discussed the preliminary project design and details with the Client (Bennett Engineering) to evaluate exploration locations.
- Reviewed the referenced foundation report prepared by Caltrans.
- Notified subscribing utility companies via Underground Service Alert at least two working days (as required by law) prior to performing exploratory borings at the site.
- Prepared an application and obtained an encroachment permit from Alpine County.
- Provided traffic control measures for our borings within the County right-of-way in accordance with the Alpine County encroachment permit.
- Advanced 3 exploratory borings (B1 through B3) with a truck-mounted drill rig equipped with hollow-stem augers. Borings were advanced to refusal depths ranging from approximately 7 feet on the south end of the project to 14 feet on the northern portion of the project.
- Upon completion, the exploratory borings were backfilled with the soil cuttings.
- Logged the exploratory borings in accordance with the Unified Soil Classification System (USCS).
- Obtained relatively undisturbed and disturbed soil samples from the exploratory borings.
- Performed laboratory tests to evaluate pertinent geotechnical parameters.
- Prepared this report summarizing our findings, conclusions, and recommendations regarding the geotechnical aspects of designing and constructing improvements as presently proposed.

Approximate locations of our exploratory borings are shown on the Site Plan, Figure 2. Details of our field exploration program including exploratory boring logs are presented in Appendix A. Details of our laboratory testing program and test results are summarized in Appendix B. Appendix C presents the *Tunnelman's Ground Classification of Soils* chart.

2.0 SITE AND PROJECT DESCRIPTION

The project consists of constructing a new sewer pump station and installing a new pipeline in the Town on Markleeville. The new pump station will likely be located on the north side of SR-89 west of Markleeville Creek and south of Millberry Creek – the exact location has yet to be determined. In addition, a new pipeline will be installed beginning from the pump station and extend southwest, cross under SR-89 and Markleeville Creek, and terminate near Laramie Street on the southern portion of the project. The pipeline will likely be installed using conventional cut-and-cover construction techniques; however, some locations may require trenchless installation methods (such as horizontal directional drilling), particularly at the creek and SR-89 crossings. Planned excavation depths for the pipeline were not available for our review as of the date of this report. The current site configuration and approximate locations and alignment of the proposed improvements is shown on the Site Plan, Figure 2.

3.0 SOIL AND GEOLOGIC CONDITIONS

We identified soil conditions by observing and sampling exploratory borings, performing geologic reconnaissance, and reviewing the referenced geologic literature (Section 9.0). Soil conditions at the site generally consist of undocumented fill and/or alluvial soil overlying volcanic bedrock. Soil descriptions provided below include the USCS symbol where applicable.

3.1 Regional and Local Geology

The site is located near the eastern boundary of the Sierra Nevada Geomorphic Province with the Basin and Range Geomorphic Province to the east. The Sierra Nevada Province is a northwest trending mountain range over 400 miles long, ranging from 40 to 100 miles wide. Elevations in the province range from a low of approximately 400 feet to 14,496 feet above mean sea level (MSL) at Mt. Whitney, the highest point in the conterminous United States.

Rocks encountered in the Sierra Nevada are generally divided into two broad groupings: the older Subjacent Series (400 million to 150 million years), consisting of ocean-derived metasedimentary and metavolcanic bedrock and granitic plutonic bedrock, and the younger Superjacent Series (55 million years to present), which consists of sedimentary and volcanic materials that have been deposited on the older bedrock. Uplift along normal faults of the Sierra Nevada frontal fault zone on the eastern side of the range began in mid-Miocene and has resulted in a steep rugged face. Lake Tahoe, to the north of the project site, is within a down faulted block. The closest granitic rocks are mapped approximately 2¹/₂ miles west of the project site (United States Geological Survey [USGS], 1984).

Based on the *Geologic Map of the Markleeville 15-minute Quadrangle, Alpine County, California* (USGS, 1984), the project site is underlain by Holocene flood plain alluvium (map symbol, Qfp) and Pleistocene-age glacial outwash gravel deposits (map symbol, Qog). The project site is also in the vicinity of Auto-brecciated andesite flows of Markleeville (map symbol, Taa) and Relief Peak Formation (map symbol, Trp). Figure 3 is a portion of the geologic map that includes the project site. Figure 4 is a geologic cross-section along the project alignment.

3.2 Fill

We encountered approximately 9 feet of undocumented fill in Boring B2. The fill generally consists of medium dense silty sand with gravel (SM) and silty gravel with sand (GM).

3.3 Alluvium (Qfp)

We encountered alluvium in Borings B1 and B3 starting from the ground surface to depths ranging from approximately 7 to 9 feet, respectively. The alluvial soils generally consist of loose to medium dense poorly graded sand with gravel (SP), poorly graded sand with silt and gravel (SP-SM), silty sand (SM), and silty sand with gravel (SM). In general, the alluvial soils are predominantly granular (sands and gravels) interbedded in a silty matrix.

3.4 Miocene Relief Peak Formation (Trp)

The Miocene Relief Peak Formation consists of varied andesitic and basaltic volcanic deposits including volcanic breccia, lava flows, breccias, and lahars (volcanic mud flows). Below the fill in Boring B2, we encountered completely weathered volcanic breccia, which generally excavates as medium dense silty gravel (GM) with fine to coarse angular gravel with cobbles.

Below the alluvium in Boring B1 and B3 and below the weathered volcanic breccia in Boring B2, we encountered refusal in completely to moderately weathered andesite at depths ranging from approximately 7 to 14 feet. This volcanic formation consists of hard, intensely to moderately fractured, fine-grained crystalline rock. Weathering generally decreases with depth and we anticipate difficult excavation conditions in this volcanic formation.

Soil and rock conditions described in the previous paragraphs are generalized. The exploratory boring logs included in Appendix A detail soil type, color, moisture, consistency, and USCS classification of the soils encountered at specific locations and elevations. A generalized geologic cross-section of the project site and alignment is presented as Figure 4.

4.0 GROUNDWATER

We encountered groundwater in our borings (B1 through B3) at depths ranging from approximately 5¹/₂ to 9 feet during our investigation performed on July 9, 2020.

Review of Caltrans' Log of Test Borings (LOTBs) for previously performed borings in May 2018 and August 2019, indicates groundwater was encountered at depths ranging from approximately 6 to 14¹/₂ feet near the east and west abutments of the Markleeville Creek Bridge.

We expect groundwater/seepage is strongly influenced by the nearby creeks (Markleeville Creek and Millberry Creek) and may develop at variable depths generally at the contacts between surficial soils (alluvium and fill, where present) and formational materials (bedrock), especially during winter and spring. Seepage can also occur within formational material based on the degree of weathering, fracturing, jointing, and bedding. It should be noted that fluctuations in the level of groundwater may occur due to variations in precipitation, temperature, and other factors. Depth to groundwater can also vary significantly due to localized pumping, irrigation practices, and seasonal fluctuations. Therefore, it is possible that groundwater may be higher or lower than the levels observed during this investigation.

5.0 SEISMICITY AND GEOLOGIC HAZARDS

5.1 Regional Active Faults

Based on our research, analyses, and observations, the site is not located on any known "active" earthquake fault trace. In addition, the site is not contained within an Alquist-Priolo Earthquake Fault Zone. Therefore, we consider the potential for ground rupture due to onsite active faulting to be low. In order to determine the distance of known active faults within 30 miles of the site, we used the *2013 Caltrans Fault Database* KML overlay file for Google Earth. Principal references used within the *2013 Caltrans Fault Database* are the Jennings and Bryant Fault Activity Map of California (2010) and The Working Group on California Earthquake Predictions (WGCEP), Uniform California Earthquake Rupture Forecast Version 3. Results are summarized in Table 5.1.

REGIONAL ACTIVE FAULTS					
Fault Name	Approximate Distance from Site (miles)	Maximum Moment Magnitude, M _w			
Carson Range (Genoa)	1.8	7.2			
Slinkard Valley	10.7	6.8			
East Carson Valley Fault Zone	10.8	6.6			
Antelope Valley	11.6	7.0			
West Tahoe	20.2	7.0			
Smith Valley Fault System (Central)	21.1	7.4			
West Walker River Fault Zone	25.2	6.4			
Carson City	25.9	6.5			
Smith Valley Fault System (South)	26.4	7.4			

TABLE 5.1 REGIONAL ACTIVE FAULTS

5.2 Ground Shaking

We used the United States Geological Survey (USGS) *Unified Hazard Tool* (https://earthquake.usgs.gov/hazards/interactive/) to determine the deaggregated seismic source parameters including controlling magnitude and fault distance. The USGS estimated modal magnitude is 7.1 and the estimated Peak Ground Acceleration (PGA) for the Maximum Considered Earthquake (MCE) with a 2,475-year return period is 0.85g.

While listing PGA is useful for comparison of potential effects of fault activity in a region, other considerations are important in seismic design, including frequency and duration of motion and soil conditions underlying the site. The site could be subjected to ground shaking in the event of an earthquake along the faults mentioned above or other area faults.

5.3 Liquefaction

Liquefaction is a phenomenon in which saturated cohesionless soils are subject to a temporary loss of shear strength due to pore pressure buildup under the cyclic shear stresses associated with intense earthquakes. Primary factors that trigger liquefaction are: moderate to strong ground shaking (seismic source), relatively clean, loose granular soils (primarily poorly graded sands and silty sands), and saturated soil conditions (shallow groundwater). Due to the increasing overburden pressure with depth, liquefaction of granular soils is generally limited to the upper 50 feet of a soil profile.

Site soils are predominately medium dense silty sands and stiff silt overlying shallow volcanic bedrock. Based on subsurface conditions encountered in our borings, we expect the potential for liquefaction to be low. However, should liquefaction occur locally within the shallow alluvium, we expect any liquefaction-induced settlement would not adversely impact the proposed pump station and pipeline and we do not recommend any special design measures or mitigation with respect to liquefaction.

5.4 Expansive Soil

Based on conditions observed in our borings and given the predominately granular nature of the alluvium, soil likely possesses low plasticity and corresponding low expansion potential when subjected to moisture variations. Mitigation and special design measures are not necessary for this project.

5.5 Soil Corrosion Potential

Selected soil bulk samples were analyzed for soil corrosion parameters (minimum resistivity, pH, chloride, and sulfate content). Results are presented in Appendix B.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 General

- 6.1.1 No soil or geologic conditions were encountered during our investigation that would preclude construction of the proposed project as planned, provided the recommendations contained in this report are incorporated into the design and construction of the project.
- 6.1.2 The primary geotechnical constraints identified in our investigation are (1) the presence of undocumented fill on the order of 9 feet thick in Boring B2, which is a potential location for the proposed sewer pump station and (2) the presence of relatively shallow volcanic bedrock at depths as shallow as approximately 7 feet. Since we do not know the placement and compaction history of the fill, remedial grading in form of removal and replacement as engineered fill may be required, depending on the depth of the pump station wet well. Specific recommendations are provided in this report. Additionally, the presence of shallow bedrock may impact project excavations and trenchless construction.
- 6.1.3 Conclusions and recommendations presented herein are based on our review of the referenced literature, analysis of data obtained from our field exploration program, laboratory testing program, and our understanding of proposed improvements at this time.
- 6.1.4 We should review the project plans as they develop further, provide engineering consultation as needed during final design, and perform geotechnical observation and testing services during construction.

6.2 Code-Based Seismic Design Parameters (2019 CBC)

- 6.2.1 We understand that seismic design of the pump station will be performed in accordance with the provisions of the 2019 *California Building Code* (2019 CBC), the seismic provisions of which are based on the American Society of Civil Engineers (ASCE)/Structural Engineering Institute (SEI) publication: *ASCE/SEI 7-16, Minimum Design Loads and Associated Criteria for Buildings and Other Structures* (ASCE/SEI, 2017). We used the *Structural Engineers Association of California* (SEAOC) and *Office of Statewide Health Planning and Development* (OSHPD) web application *Seismic Design Maps* (https://seismicmaps.org/) to evaluate site-specific seismic design parameters in accordance with ASCE 7-16. For seismic design purposes, sites are classified as Site Class "A" through "F" as follows:
 - Site Class A Hard Rock;
 - Site Class B Rock;
 - Site Class C Very Dense Soil and Soft Rock;
 - Site Class D Stiff Soil;

- Site Class E Soft Clay Soil; and
- Site Class F Soils Requiring Site Response Analysis.

Based on the subsurface conditions at the site, the site may be classified as Site Class "C" per Table 20.3-1 of ASCE/SEI 7-16. For the purposes of evaluating code-based seismic parameters for design, we assumed a seismic Risk Category III (per the CBC) for the project. Results are summarized in Table 6.2.1.

Parameter	Value	ASCE 7-16 Reference
MCE _R Ground Motion Spectral Response Acceleration – Class B (short), S _S	1.826g	Figure 22-1
MCE _R Ground Motion Spectral Response Acceleration – Class B (1 sec), S ₁	0.623g	Figure 22-2
Site Coefficient, FA	1.2	Table 11.4-1
Site Coefficient, Fv	1.4	Table 11.4-2
Site Class Modified MCE _R Spectral Response Acceleration (short), S _{MS}	2.191g	Eq. 11.4-1
Site Class Modified MCE _R Spectral Response Acceleration (1 sec), S _{M1}	0.872g	Eq. 11.4-2
5% Damped Design Spectral Response Acceleration (short), S _{DS}	1.461g	Eq. 11.4-3
5% Damped Design Spectral Response Acceleration (1 sec), S _{D1}	0.581	Eq. 11.4-4

TABLE 6.2.1 ASCE 7-16 SEISMIC DESIGN PARAMETERS SITE CLASS "C" – VERY DENSE SOIL AND SOFT ROCK

6.2.2 Table 6.2.2 presents additional seismic design parameters for projects with Seismic Design Categories of D through F in accordance with ASCE 7-16 for the mapped maximum considered geometric mean (MCE_G).

 TABLE 6.2.2

 ASCE 7-16 SITE ACCELERATION DESIGN PARAMETERS

Parameter	Value	ASCE 7-16 Reference
Mapped MCE _G Peak Ground Acceleration, PGA	0.797g	Figure 22-7
Site Coefficient, F _{PGA}	1.2	Table 11.8-1
Site Class Modified MCE _G Peak Ground Acceleration, PGA _M	0.956g	Section 11.8.3 (Eq. 11.8-1)

6.2.3 Conformance to the criteria presented in Tables 6.2.1 and 6.2.2 for seismic design does not constitute any kind of guarantee or assurance that significant structural damage or ground failure will not occur if a maximum level earthquake occurs. The primary goal of seismic design is to protect life and not to avoid structural damage, as such design may be economically prohibitive.

6.3 Excavation Characteristics / Rippability

6.3.1 Excavation characteristics will vary at the site depending on location and excavation depths.Table 6.3.1 summarizes anticipated excavation characteristics in each geologic material identified at the site.

Geologic Unit ¹	Excavation Characteristics
Fill / Alluvium (Qf / Qfp)	Existing fill and alluvium generally consists of a mixture of silt, sand, gravel, and cobbles. We anticipate standard to moderate excavation effort with conventional, heavy-duty grading equipment. The presence of oversize rock (greater than 6 inches in maximum dimension) will increase excavation difficulty. Significant sloughing and caving during excavation should be expected.
Miocene Relief Peak Formation (Trp)	Underlying the fill and alluvium, we encountered drilling refusal in Miocene- age volcanic bedrock. Degree of weathering ranges from completely to moderately weathered and generally decreases with depth. Moderate to heavy ripping will likely be required in this formation. In our investigation, bedrock was as shallow as 7 feet below the ground surface in Boring B1 but could be shallower at different locations. Use of a dozer-mounted impact ripper may be required for deeper excavations. We expect this formation to break down to cobble- and small boulder-sized fragments (12 to 24 inches) when excavated; however, zones of less weathered rock are likely common and are more resistant to breaking down. Therefore, it is possible that large boulder-sized fragments (24 inches and larger) may be generated.

TABLE 6.3.1 ANTICIPATED EXCAVATION CHARACTERISTICS

- 6.3.2 Because of predominant granular nature of the fill and alluvial soils at the project site, sidewall caving and sloughing is likely during excavations. These conditions may require flattening/sloping back trench sidewalls, or enhanced shoring to maintain a stable trench. General temporary excavation sloping and shoring recommendations are provided herein.
- 6.3.3 Shallow groundwater/seepage is likely within the fill and alluvium, especially in close proximity to the creeks. Groundwater control/dewatering will likely be required for portions of the project. If grading and earthwork occurs during or after the wet season (typically winter and spring), during snowmelt periods, or in periods of precipitation, in-place and excavated soil will likely be wet. Earthwork operations in these conditions will likely be

difficult with low productivity. Often, a period of at least one month of warm and dry weather is necessary to allow the site to dry sufficiently so that heavy grading equipment can operate effectively. Conversely, during dry summer and fall months, dry soils may require additional grading effort (discing, mixing, or other means) to attain proper moisture conditioning.

6.4 Materials for Fill

- 6.4.1 Excavated soils generated from cut operations at the site are suitable for use as fill in structural areas (pump station building pad), provided they do not contain deleterious matter, organic material, or rock/cementations larger than 6 inches in maximum dimension. Excavated soil may require screening to remove rock larger than 6 inches.
- 6.4.2 Import material for use as fill should be primarily granular (similar to site soils) with an Expansion Index less than 20, a Plasticity Index less than 15, and be free of organic material, construction debris, and not contain rock or cementations larger than 6 inches in greatest dimension. Import soil should contain a sufficient amount of fines (generally 15% or more) to reduce caving potential when excavated.
- 6.4.3 Environmental characteristics and corrosion potential of import soil materials should also be considered. Proposed import materials should be sampled, tested, and approved by Geocon prior to its transportation to the site.

6.5 Building Pad Grading

- 6.5.1 All earthwork operations should be observed, and all fills tested for recommended compaction and moisture content by a representative of Geocon.
- 6.5.2 References to relative compaction and optimum moisture content in this report are based on the latest American Society for Testing and Materials (ASTM) D1557 Test Procedure. Structural building pad areas should be considered as areas extending a minimum of 5 feet horizontally beyond the outside dimensions of buildings, including footings and overhangs carrying structural loads.
- 6.5.3 Prior to commencing grading, a pre-construction conference with representatives of the client, grading contractor, and Geocon should be held at the site. Site preparation, soil handling, and/or the grading plans should be discussed at the pre-construction conference.
- 6.5.4 Site preparation should begin with removal of existing vegetation, underground utilities/structures in conflict with the proposed improvements, and debris. Existing underground utilities and overlying trench backfill, if encountered, should be completely removed to expose undisturbed soil. Excavations or depressions resulting from site clearing operations, or other existing excavations or depressions, should be restored with engineered fill in accordance with the recommendations of this report.

- 6.5.5 At the time of our investigation, site vegetation primarily consisted of trees, grasses, and shrubs/bushes. If encountered, tree roots larger than 1 inch in diameter should be completely removed. Smaller roots may be left in-place as conditions warrant, as determined by a representative of Geocon. Surface vegetation consisting of grasses and other similar vegetation should be removed within the pump station building and equipment areas by stripping to a sufficient depth to remove organic-rich topsoil. Stripping depths will likely range from approximately 1 to 2 inches. The actual stripping depth should be determined based on site conditions prior to grading. Material generated during stripping is not suitable for use within 5 feet of the pump station building pad but may be placed in landscaped or non-structural areas or exported from the site.
- 6.5.6 If the pump station will be located near Boring B2 location, the existing undocumented fill within structural pad area as defined in Section 6.5.2 may require removal. If the pump station wet well invert elevation is shallower than 9 feet (estimated depth of fill), the fill should be removed to at least 2 feet below the proposed wet well invert elevation. If the wet well invert elevation is deeper than 9 feet, additional removal will not be required. The excavated soil may be reused as general fill, provided it meets the requirements of Section 6.4 of this report. If the pump station will be located near Boring B3 location, over-excavation of the native alluvial soil within the structural pad area is not necessary.
- 6.5.7 After site preparation and over-excavation, the bottom of cut areas, areas left at-grade, and areas to receive fill should be scarified at least 12 inches, uniformly moisture-conditioned at optimum moisture content, and compacted to at least 90% relative compaction. Scarification and re-compaction operations should be performed in the presence of our representative to evaluate performance of the subgrade under compaction equipment loading and to identify any areas that may require additional removals.
- 6.5.8 Engineered fill should be compacted in horizontal lifts not exceeding 8 inches (loose thickness) and brought to final design elevations. Each lift should be moisture-conditioned at or slightly above optimum moisture content and compacted to at least 90% relative compaction.
- 6.5.9 The top 12 inches of building pads and final flatwork subgrade, whether completed at-grade, by excavation or by filling should be uniformly moisture-conditioned at or above optimum moisture content and compacted to at least 90% relative compaction.

6.6 Foundations

6.6.1 Provided the pump station pad is graded in accordance with the recommendations of this report, the proposed pump station building may be supported on conventional shallow foundations bearing on engineered fill or undisturbed native soil.

- 6.6.2 Foundations may consist of continuous perimeter strip footings or spread footings. Perimeter strip footings should be continuous around the entire perimeter of the structure without breaks or discontinuities. Strip footings should be at least 12 inches wide and spread footings should be at least 18 inches square. All footings should be embedded at least 18 inches below lowest adjacent pad grade.
- 6.6.3 Underground utilities running parallel to footings should not be constructed in the zone of influence of footings. The zone of influence may be taken to be the area beneath the footing and within a 1:1 plane extending out and down from the bottom of the footing.
- 6.6.4 Continuous footings should be reinforced with at least four No. 4 reinforcement bars two each placed near the top and bottom of the footing to allow footings to span isolated soil irregularities. The reinforcement recommended above is for soil characteristics only and is not intended to replace reinforcement required for structural considerations. The project structural engineer should evaluate the need for additional reinforcement.
- 6.6.5 Foundations proportioned as recommended above may be designed for an allowable soil bearing capacity of 2,500 pounds per square foot (psf) for combined dead plus live loads. This value may be increased by one-third to evaluate all loads, including wind or seismic forces.
- 6.6.6 The allowable passive pressure used to resist lateral movement of the footings may be assumed to be equal to a fluid weighing 350 pounds per cubic foot (pcf). The allowable coefficient of friction to resist sliding is 0.35 for concrete against soil. Combined passive resistance and friction may be utilized for design, provided that the frictional resistance is reduced by 50%.
- 6.6.7 Foundations designed in accordance with the recommendations above should experience total settlement of less than one inch and differential settlement of ½ inch or less over a distance of 50 feet. The majority of settlement will be immediate and occur as the building is constructed.
- 6.6.8 A Geocon representative should observe foundation excavations prior to placing reinforcing steel or concrete to observe that the exposed soil conditions are consistent with those anticipated. If unanticipated soil conditions are encountered, foundation modifications may be required.

6.7 Temporary Excavations

6.7.1 Excavations intended for worker entry must conform to the local governing agency standards. Temporary excavations must meet Cal/OSHA requirements as appropriate. Excavation sloping, benching, the use of trench shields, and the placement of spoils should conform to applicable Cal/OSHA standards. The contractor should have a Cal/OSHA-approved "competent person" onsite during excavation to evaluate excavation conditions, evaluate the appropriate Cal/OSHA soil type, and to make appropriate recommendations

where necessary. It is the contractor's responsibility to provide sufficient and safe excavation support as well as protecting nearby utilities, structures, and other improvements which may be damaged by earth movements.

- 6.7.2 Excavations should be performed carefully to avoid damaging existing underground utilities and adjacent structures. Adjacent improvements should be monitored by the contractor so that excavation methods and support systems can be modified in a timely manner, if surface deflections are observed.
- 6.7.3 Some project excavations may be adjacent to other existing utilities. The condition of existing utility backfill is not known and there is a potential for existing backfill (particularly granular backfill) adjacent to excavations which can cause excavation sidewall instability and sloughing. The contractor should be aware of the potential for sloughing (and possibly caving/undermining of adjacent ground surface or improvements) and have equipment readily available to flatten slopes or install shoring if necessary.
- 6.7.4 Where portable safety shields (trench boxes) are used to protect workers, trench side walls are not directly supported. Thus, the use of a shield should be limited to open areas to minimize the potential of effects on adjacent improvements or ground surface settlement behind the shield. Trench shields should be sized to minimize clearance between the shield and trench side walls. Unsupported trenches should be backfilled immediately after removing the shield.
- 6.7.5 Shoring should be used in areas where temporary slopes must be steeper than those required by Cal/OSHA or where the presence of adjacent improvements prohibits sloping. Design of shoring systems is the responsibility of the contractor. Shoring systems should be inspected daily during construction by qualified contractor personnel. If excessive movement or slippage is noted, the bracing system should be strengthened before personnel are allowed to enter the excavation.

6.8 Dewatering Considerations

- 6.8.1 Groundwater was encountered in each of our borings during our investigation on July 9, 2020. Depth to groundwater in our borings ranged from approximately 5½ to 9 feet. Given the granular nature of fill and alluvium at the site, we expect the fill/alluvium to be highly permeable and transmissive to groundwater flow.
- 6.8.2 Based on our observations, significant groundwater/seepage will likely be present within trench excavation depths along the project alignment and dewatering will likely be required. Typical dewatering systems consist of periodically spaced wells augmented with sump pumps within excavations.

- 6.8.3 We expect that groundwater/seepage will primarily occur within the fill/alluvium. It is also possible the groundwater/seepage intrusion may come through fractures in the bedrock. We anticipate that several, closely spaced well points will be necessary to effectively dewater excavations.
- 6.8.4 Alternatively, along some portions of the trench excavation, it may be possible to effectively control groundwater by sloping excavation bottoms to periodically-spaced sumps with high capacity pumps. In this case, a 1- to 2-foot-thick layer of freely draining gravel or crushed rock on the excavation bottom would enable groundwater to flow toward the sump as well as provide a working pad.
- 6.8.5 Dewatering systems should be designed and operated by a qualified dewatering contractor with local experience and reviewed by Geocon.

6.9 Trench Bottom / Bearing Conditions / Foundation for Pipeline

- 6.9.1 Based on conditions encountered in our borings, soil exposed at the base of the proposed pipeline are generally suitable for support of the pipe. If the pipeline depth will extend into the underlying bedrock, trench bottoms may be rough due to irregular rock fracturing patterns and gravel/crushed rock infilling may be necessary to level the trench bottom.
- 6.9.2 Groundwater/seepage could create unstable trench excavation bottoms in alluvial soil. Generally, some form of trench subgrade stabilization (special foundation treatment) will be necessary if wet and unstable soils are exposed. Typical mitigation alternatives include overexcavation and replacement with a crushed gravel mat wrapped in geosynthetic filter fabric to provide a stable bottom for support of the pipe. Trench filter fabric should conform to the standards of the local governing agency.
- 6.9.3 Geocon should be contacted to provide additional recommendations if unsuitable material extends to depths in excess of 3 feet below the pipeline invert. In extreme cases, pier or pile support, or other structural support, may be necessary.
- 6.9.4 The weight of pipe, contents, and compacted backfill above the pipe will not result in a significant increase in load over present overburden. Provided any unstable trench bottoms are mitigated or if the pipeline is supported on bedrock, pipeline settlement should be negligible. Pipeline buoyancy in trenches allowed to become filled with groundwater should be considered.

6.10 Pipe Loading Design Criteria

- 6.10.1 Trench loading is typically computed using Marston's Formula in accordance with ASCE *Manual of Engineering Practice No. 60/WPCF Manual of Practice No. FD-5.* Trench loading will depend on depth of cover, total unit weight of compacted backfill, and surface loading, and installation conditions. We recommend using the following geotechnical values in trench loading calculations:
 - Average backfill total unit weight = 130 pounds per cubic foot
 - Settlement Ratio (r_{sd}) factor = 0.7
 - $k\mu'$ factor = 0.11

Traffic loading, load factors, and other parameters should be determined by the design engineer.

6.11 Pipe Bedding and Trench Backfill

- 6.11.1 Per Section 10.19-3 of the *Alpine County Development Standards*, bedding and backfill materials shall conform to the Caltrans Standard Specifications Section 19-3 *Structure Excavation and Backfill*, as applicable. Per Section 10.19-5.1 of the *Alpine County Development Standards* bedding material shall be placed a minimum of six (6) inches below the pipeline.
- 6.11.2 Per Section 10.19-5.2 of the *Alpine County Development Standards*, excavated soil generated from project excavations may be used for trench backfill at the discretion of the County Director in unimproved areas.
- 6.11.3 Trench backfill should be mechanically compacted. Flooding or jetting is not recommended. In general, backfill should be placed in lifts of 8 inches or less in loose thickness and moisture-conditioned at or above optimum moisture content. Each lift should be compacted to at least 90% relative compaction based on ASTM D1557 test method. Within paved areas, the top 24 inches of backfill, 95% relative compaction is required (*Alpine County Development Standards*, Section 10.19-5.2).

6.12 Trench Plugs

6.12.1 Assuming a granular composition of pipeline bedding and trench backfill material, this may provide a preferential path for groundwater flow. Where the pipeline is constructed in sloping ground, trench plugs should be constructed at periodic intervals to reduce flow of groundwater through granular trench bedding and backfill material. Trench plugs should consist of lean concrete, or controlled density fill. Trench plugs must be at least 12-inches-thick and be keyed at least 12 inches into trench bottom and walls. A typical trench plug detail is presented as Figure 5. Trench plugs should be constructed at the interval shown in Table 6.12.1.

Trench Slope (%)	Maximum Spacing (ft)
< 5	1,000
5 - 15	500
15 - 25	300
25 - 35	200
35 - 100	100
> 100	50

TABLE 6.12.1 MAXIMUM SPACING FOR TRENCH PLUGS

6.13 Trenchless Construction Considerations

- 6.13.1 We understand that bore-and-jack or horizontal directional drilling (HDD) trenchless methods are being considered at the Markleeville Creek and SR-89 crossings. The decision on which type of trenchless technology method and equipment to be used on this project should be the responsibility of the contractor specializing in trenchless construction based on their means and methods and experience with similar projects and soil/rock/groundwater conditions.
- 6.13.2 Planned excavation depths for the pipeline are unknown as of the date of this report, however; we note the potential for groundwater intrusion, unstable pit sidewalls (flowing sands), difficult excavation conditions due to the presence cobbles, boulders, and shallow bedrock, and mixed face conditions. Mixed face conditions are excavations that are partially in rock and partially in soil and often presents difficulties for trenchless construction. Contractors should be aware of these potential conditions and how they can impact trenchless construction.
- 6.13.3 If groundwater is encountered, the conditions at the bottom of the entry/exit pits will likely be wet and unstable and may require stabilization. The method of stabilizing pit bottoms should be evaluated and chosen by the contractor. Typical treatments include placing crushed-rock underlain by a geotextile filter fabric that meets the standard requirements of the local governing agency.
- 6.13.4 Tunneling terminology is often used for evaluating subsurface conditions for trenchless construction projects. The *Tunnelman's Ground Classification of Soils* was first proposed by Terzaghi in 1950 and later modified by Heuer in 1974. A copy of the *Tunnelman's Ground Classification of Soils* is presented in Appendix C. According to this terminology, and based on our borings, alluvial soils along the project alignment are likely classified mostly as "Flowing" where soils are mostly silt, sand, and gravel observed below the water table and without enough clay content to provide significant cohesion. The contractor should consider these conditions when developing their pipeline installation program.

- 6.13.5 Granular alluvial soils anticipated to be encountered during trenchless operations are classified as generally being loose to medium dense poorly graded sand with gravel (SP), poorly graded sand with silt and gravel (SP-SM), silty sand (SM), silty sand with gravel (SM), silty gravel (GM), and silty gravel with sand (GM). Fines contents in the granular soils range from approximately 6% to 40%.
- 6.13.6 We estimate that allowable horizontal bearing pressures for jacking will be on the order of 2,000 psf. Allowable wall pressures for jacking can be re-evaluated when more details regarding the access pit excavation support design are available and provided to Geocon for review.
- 6.13.7 All bore-and-jack operations should conform to the Alpine County construction specifications as appropriate.

7.0 FURTHER GEOTECHNICAL SERVICES

7.1 Plan and Specification Review

We should review the improvement plans and specifications prior to final design submittal to assess whether our recommendations have been properly implemented and evaluate if additional analysis and/or recommendations are required.

7.2 Testing and Observation Services

The recommendations provided in this report are based on the assumption that we will continue as Geotechnical Engineer of Record throughout the construction phase. It is important to maintain continuity of geotechnical interpretation and confirm that field conditions encountered during construction are similar to those anticipated during design. Testing and observation services by the Geotechnical Engineer of Record are necessary to verify that construction has been performed in accordance with this report, approved plans, and specifications. If we are not retained for these services, we cannot assume any responsibility for other's interpretation of our recommendations or the future performance of the project.

8.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

The recommendations of this report pertain only to the site investigated and are based upon the assumption that the soil conditions do not deviate from those disclosed in the investigation. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that anticipated herein, we should be notified so that supplemental recommendations can be given.

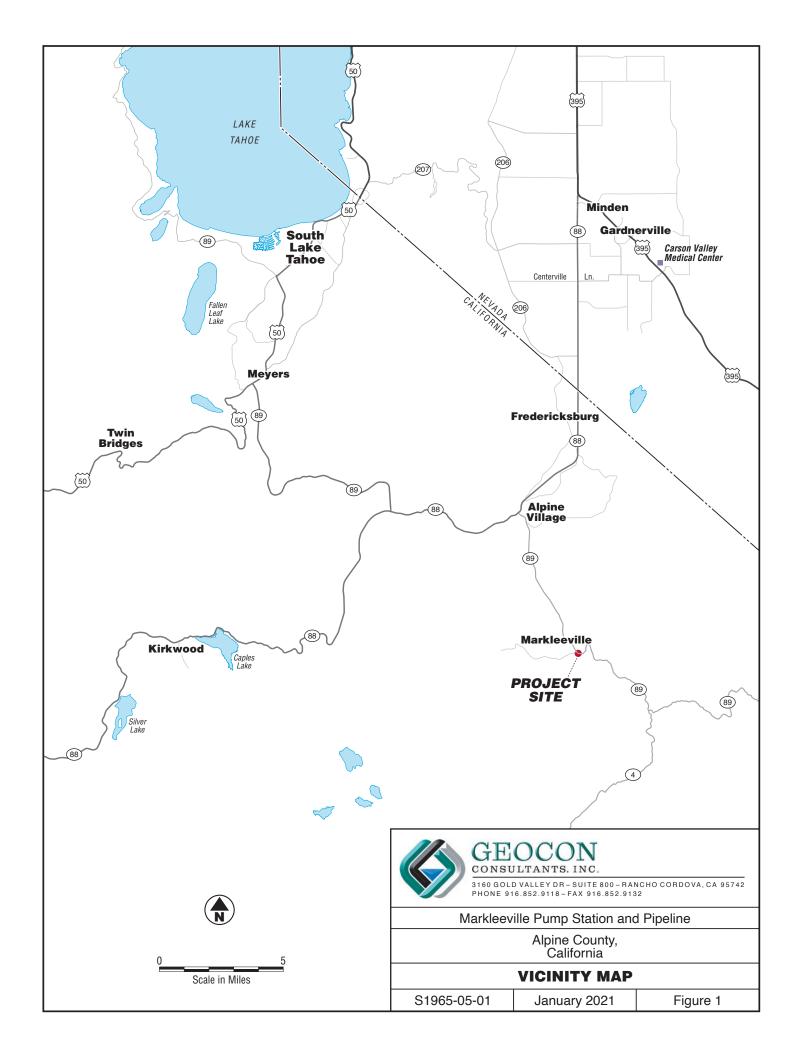
This report is issued with the understanding that it is the responsibility of the owner or their representative to ensure that the information and recommendations contained herein are brought to the attention of the design team for the project and incorporated into the plans and specifications and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

The recommendations contained in this report are preliminary until verified during construction by representatives of our firm. Changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. Additionally, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated partially or wholly by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.

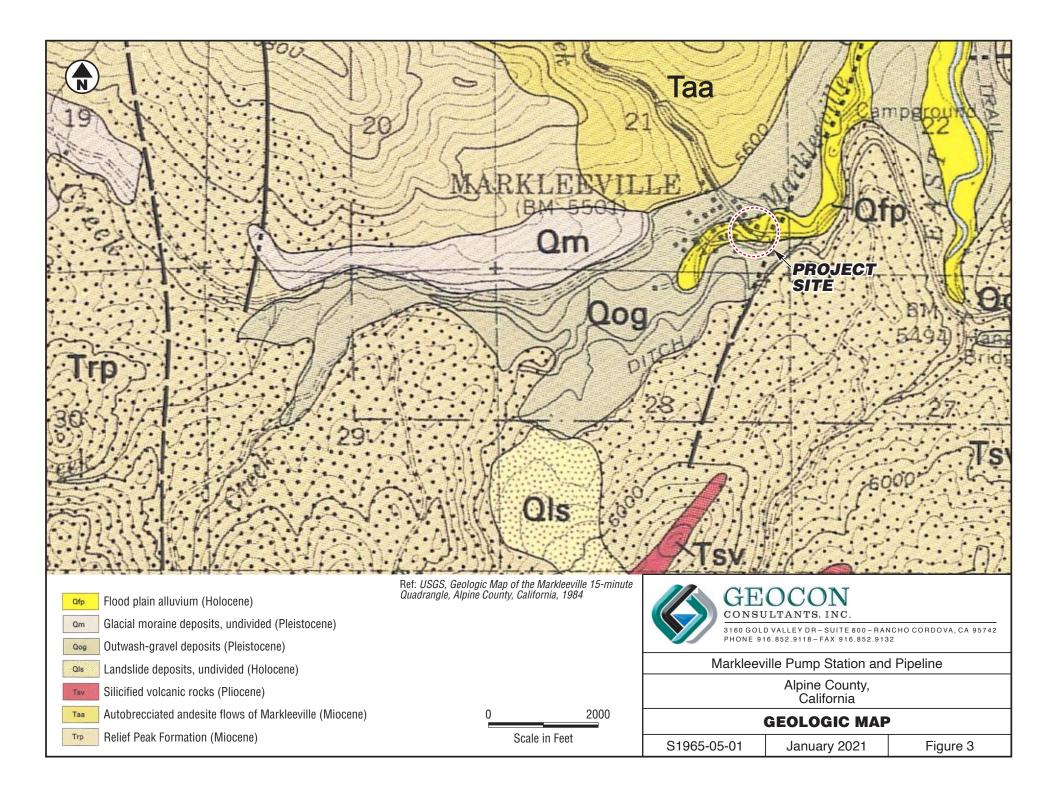
Our professional services were performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices used in the site area at this time. No warranty is provided, express or implied.

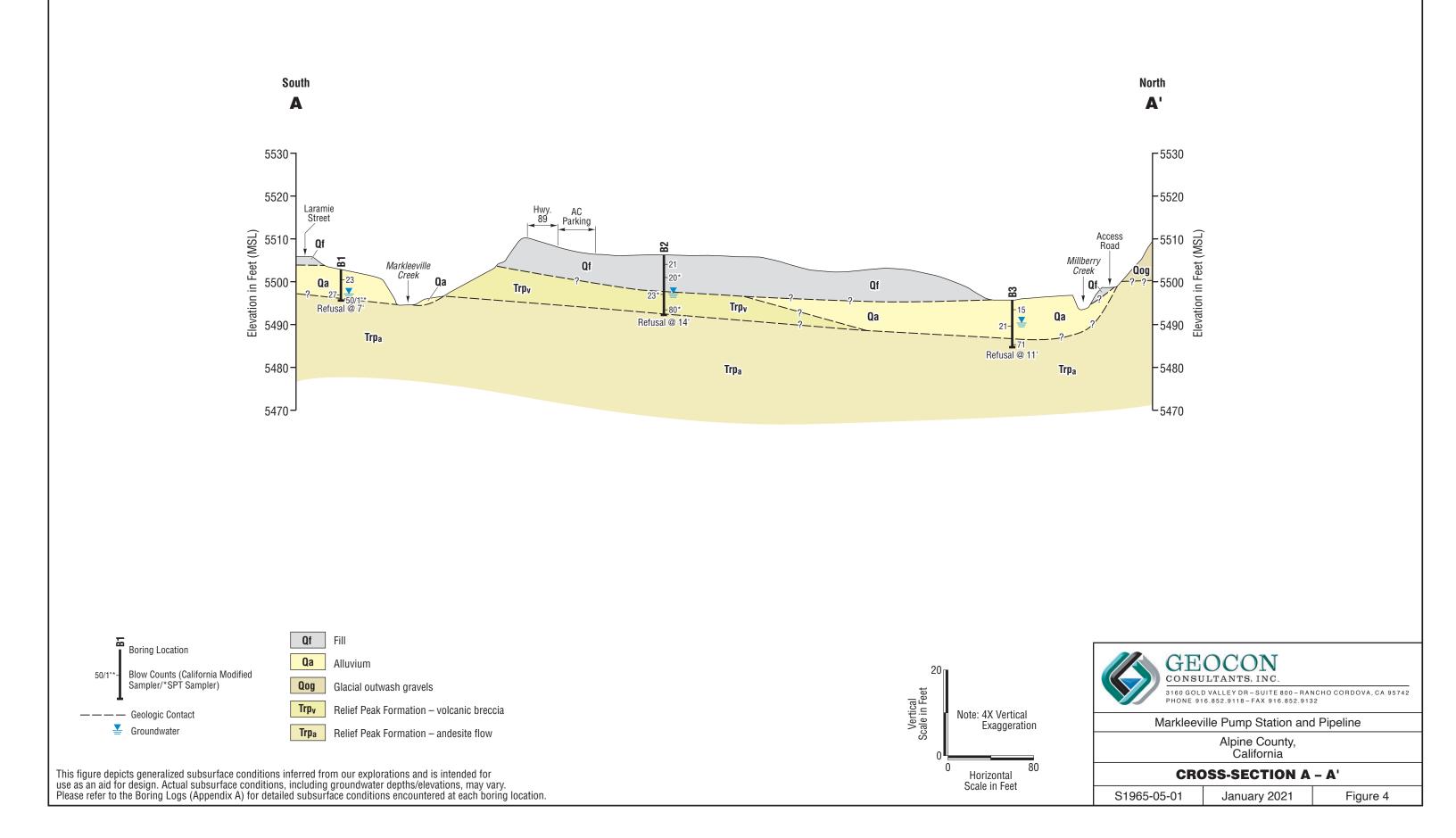
9.0 REFERENCES

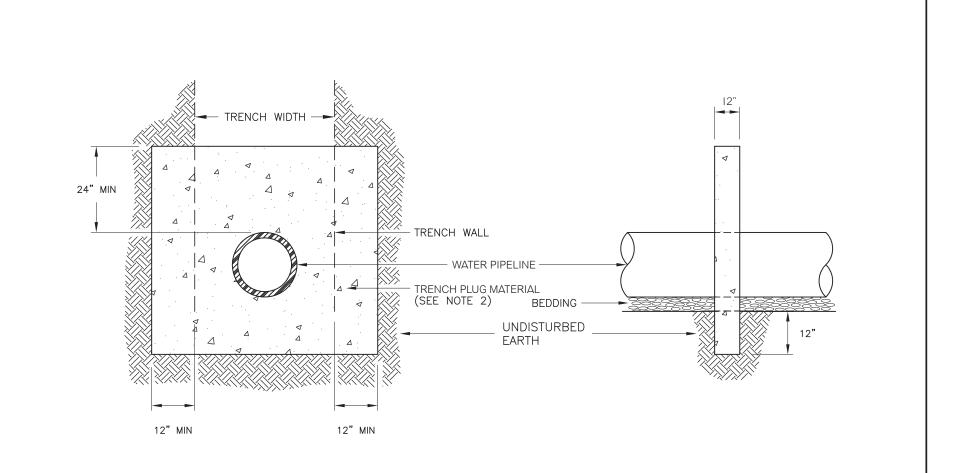
- 1. Alpine County, Alpine County Development Standards, October 7, 2014.
- 2. American Society of Civil Engineers (ASCE) Manual of Engineering Practice No. 60/WPCF Manual of Practice No. FD-5.
- 3. ASCE, ASCE/SEI 7-16, Minimum Design Loads and Associated Criteria for Buildings and Other Structures, 2017.
- 4. Armin, R.A., John, D.A., and Moore, W.J., 1984, *Geologic Map of the Markleeville 15-minute quadrangle, Alpine County, California,* map scale 1:62,500.
- 5. California Building Standards Commission, 2019 California Building Code, based on 2018 International Building Code, International Code Council.
- 6. Cal/OSHA, Pocket Guide to the Construction Industry, November 2015.
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- 10. Heuer, R.E., Important Ground Parameters in Soft Ground Tunneling, Subsurface Exploration for Underground Excavation and Heavy Construction, New England College, Henniker, New Hampshire, American Society of Civil Engineers, New York, 1974.
- 11. Jennings, C.W. (compiler), *Fault Activity Map of California and Adjacent Areas*, California Division of Mines and Geology, 1994.
- 12. Structural Engineers Association of California and Office of Statewide Health Planning and Development, *Seismic Design Maps*, accessed August 26, 2020.
- 13. United States Geological Survey (USGS), 2008 Unified Hazard Tool https://earthquake.usgs.gov/hazards/interactive/.
- 14. Unpublished reports, aerial photographs, and maps on file with Geocon.





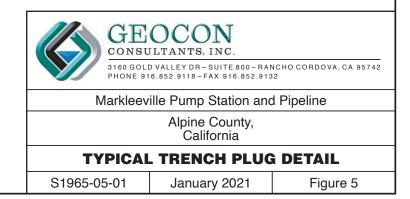






NOTES:

- 1. TOP OF PLUG TO EXTEND INTO INTERMEDIATE BACKFILL 12" MINIMUM OF TOP OF GROUND WATER HGL, WHICHEVER IS LESS.
- 2. TRENCH PLUG MATERIAL MAY CONSIST OF LOW- PERMEABILITY LEAN CONCRETE, OR LOW-PERMEABILITY CONTROLLED DENSITY FILL (CDF).







APPENDIX A

FIELD INVESTIGATION

Our geotechnical and geologic field exploration program was performed on July 9, 2020 and consisted of drilling three (3) exploratory borings (B1 through B3) to characterize soil and rock conditions at the site. The approximate locations of the borings are shown on the Site Plan, Figure 2.

Exploratory borings were performed using a truck-mounted CME-55 HT drill rig equipped with 7-inch outside diameter (OD) hollow-stem augers. Sampling was accomplished using a 140-pound, rotating cathead hammer with a 30-inch drop. Samples were obtained with a 3.0-inch OD, split-spoon (California Modified) sampler and 2.0-inch OD Standard Penetration Test (SPT) sampler. The number of blows required to drive the samplers the last 12 inches (or portion thereof) of the 18-inch sampling interval were recorded on the boring logs.

Subsurface conditions encountered in the borings were visually examined, classified and logged in general accordance with the American Society for Testing and Materials (ASTM) Practice for Description and Identification of Soils (Visual-Manual Procedure D2488-90). This system uses the Unified Soil Classification System (USCS) for soil designations. The logs depict soil and geologic conditions encountered and depths at which samples were obtained. The logs also include our interpretation of the conditions between sampling intervals. Therefore, the logs contain both observed and interpreted data. We determined the lines designating the interface between soil materials on the logs using visual observations, excavation characteristics and other factors. The transition between materials may be abrupt or gradual. Where applicable, the field logs were revised based on subsequent laboratory testing. A Key to Logs is presented as Figure A1 and logs of Borings B1 through B3 are presented as Figures A2 through A4.

UNIFIED	SOIL	CLASSIFICATION
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MAJOR DIVISIONS					TYPICAL NAMES		
	GRAVELS MORE THAN HALF COARSE FRACTION IS	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES		
			GP	0.000	POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES		
solls Arser E	LARGER THAN NO.4 SIEVE SIZE	GRAVELS WITH OVER	GM	2 0 1 0 2 0 1 0 0 0 1 0	SILTY GRAVELS, SILTY GRAVELS WITH SAND		
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE		12% FINES	GC	19'0) 0119 1911	CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND		
RSE-GR THAN HA HAN NO.		CLEAN SANDS WITH	sw		WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES		
COAI MORE T	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO.4 SIEVE SIZE	LITTLE OR NO FINES	SP		POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES		
		SANDS WITH OVER 12% FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL		
			SC	1	CLAYEY SANDS WITH OR WITHOUT GRAVEL		
	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS		
iner Ner			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS		
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE			OL		ORGANIC SILTS OR CLAYS OF LOW PLASTICITY		
E CRA		МН	<u>}</u> }}	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS			
MOR	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		СН		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS		
			ОН		ORGANIC CLAYS OR CLAYS OF MEDIUM TO HIGH PLASTICITY		
	HIGHLY OR	GANIC SOILS	PT	77 77 77 77 77 77 77 77	PEAT AND OTHER HIGHLY ORGANIC SOILS		

BORING/TRENCH LOG LEGEND

- No Recovery	PENETRATION RESISTANCE						
	SAND AND GRAVEL			SILT AND CLAY			
Shelby Tube Sample	RELATIVE DENSITY	BLOWS PER FOOT (SPT)*	BLOWS PER FOOT (MOD-CAL)*	CONSISTENCY	BLOWS PER FOOT (SPT)*	BLOWS PER FOOT (MOD-CAL)*	COMPRESSIVE STRENGTH (tsf)
- Bulk Sample	VERY LOOSE	0 - 4	0-6	VERY SOFT	0 - 2	0-3	0 - 0.25
× .	LOOSE	5 - 10	7 - 16	SOFT	3 - 4	4 - 6	0.25 - 0.50
_ SPT Sample	MEDIUM DENSE	11 - 30	17 - 48	MEDIUM STIFF	5 - 8	7 - 13	0.50 - 1.0
— Modified California Sample	DENSE	31 - 50	49 - 79	STIFF	9 - 15	14 - 24	1.0 - 2.0
Groundwater Level	VERY DENSE	OVER 50	OVER 79	VERY STIFF	16 - 30	25 - 48	2.0 - 4.0
 (At Completion) 				HARD	OVER 30	OVER 48	OVER 4.0
∑-Groundwater Level (Seepage)				IER FALLING 30 AN 18-INCH DR	IVE		

MOISTURE DESCRIPTIONS

FIELD TEST	APPROX. DEGREE OF SATURATION, S (%)	DESCRIPTION
NO INDICATION OF MOISTURE; DRY TO THE TOUCH	S<25	DRY
SLIGHT INDICATION OF MOISTURE	25 <u><</u> S<50	DAMP
INDICATION OF MOISTURE; NO VISIBLE WATER	50 <u><</u> S<75	MOIST
MINOR VISIBLE FREE WATER	75 <u><</u> S<100	WET
VISIBLE FREE WATER	100	SATURATED

QUANTITY DESCRIPTIONS

APPROX. ESTIMATED PERCENT	DESCRIPTION
<5%	TRACE
5 - 10%	FEW
11 - 25%	LITTLE
26 - 50%	SOME
>50%	MOSTLY

GRAVEL/COBBLE/BOULDER DESCRIPTIONS

CRITERIA	DESCRIPTION
PASS THROUGH A 3-INCH SIEVE AND BE RETAINED ON A NO. 4 SIEVE (#4 TO 3")	GRAVEL
PASS A 12-INCH SQUARE OPENING AND BE RETAINED ON A 3-INCH SIEVE (3"-12")	COBBLE
WILL NOT PASS A 12-INCH SQUARE OPENING (>12")	BOULDER

LABORATORY TEST KEY

- CP COMPACTION CURVE (ASTM D1557)
- CR CORROSION ANALYSIS (CTM 422, 643, 417)
- DS DIRECT SHEAR (ASTM D3080)
- EI EXPANSION INDEX (ASTM D4829)
- GSA GRAIN SIZE ANALYSIS (ASTM D422)
- MC MOISTURE CONTENT (ASTM D2216)
- PI PLASTICITY INDEX (ASTM D4318)
- R R-VALUE (CTM 301)
- SE SAND EQUIVALENT (CTM 217)
- TXCU CONSOLIDATED UNDRAINED TRIAXIAL (ASTM 04767) TXUU UNCONSOLIDATED UNDRAINED TRIAXIAL (ASTM 02850)

 - UC UNCONFINED COMPRESSIVE STRENGTH (ASTM D2166)

BEDDING SPACING DESCRIPTIONS

THICKNESS/SPACING	DESCRIPTOR
GREATER THAN 10 FEET	MASSIVE
3 TO 10 FEET	VERY THICKLY BEDDED
1 TO 3 FEET	THICKLY BEDDED
3 🕅 INCH TO 1 FOOT	MODERATELY BEDDED
1 ¼-I NCH TO 3 %-I NCH	THINLY BEDDED
%-INCH TO 1 ¼-INCH	VERY THINLY BEDDED
LESS THAN %-I NCH	LAMINATED

STRUCTURE DESCRIPTIONS

CRITERIA	DESCRIPTION
ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH LAYERS AT LEAST X-INCH THICK	STRATIFIED
ALTERNATING LAYERS OF VARYING MATERIAL OR COLOR WITH LAYERS LESS THAN $ angle$ -INCH THICK	LAMINATED
BREAKS ALONG DEFINITE PLANES OF FRACTURE WITH LITTLE RESISTANCE TO FRACTURING	FISSURED
FRACTURE PLANES APPEAR POLISHED OR GLOSSY, SOMETIMES STRIATED	SLICKENSIDED
COHESIVE SOIL THAT CAN BE BROKEN DOWN INTO SMALLER ANGULAR LUMPS WHICH RESIST FURTHER BREAKDOWN	BLOCKY
INCLUSION OF SMALL POCKETS OF DIFFERENT SOIL, SUCH AS SMALL LENSES OF SAND SCATTERED THROUGH A MASS OF CLAY	LENSED
SAME COLOR AND MATERIAL THROUGHOUT	HOMOGENOUS

CEMENTATION/INDURATION DESCRIPTIONS

FIELD TEST	DESCRIPTION
CRUMBLES OR BREAKS WITH HANDLING OR LITTLE FINGER PRESSURE	WEAKLY CEMENTED/INDURATED
CRUMBLES OR BREAKS WITH CONSIDERABLE FINGER PRESSURE	MODERATELY CEMENTED/INDURATED
WILL NOT CRUMBLE OR BREAK WITH FINGER PRESSURE	STRONGLY CEMENTED/INDURATED

IGNEOUS/METAMORPHIC ROCK STRENGTH DESCRIPTIONS

FIELD TEST	DESCRIPTION
MATERIAL CRUMBLES WITH BARE HAND	WEAK
MATERIAL CRUMBLES UNDER BLOWS FROM GEOLOGY HAMMER	MODERATELY WEAK
ho-INCH INDENTATIONS WITH SHARP END FROM GEOLOGY HAMMER	MODERATELY STRONG
HAND-HELD SPECIMEN CAN BE BROKEN WITH ONE BLOW FROM GEOLOGY HAMMER	STRONG
HAND-HELD SPECIMEN CAN BE BROKEN WITH COUPLE BLOWS FROM GEOLOGY HAMMER	VERY STRONG
HAND-HELD SPECIMEN CAN BE BROKEN WITH MANY BLOWS FROM GEOLOGY HAMMER	EXTREMELY STRONG

IGNEOUS/METAMORPHIC ROCK WEATHERING DESCRIPTIONS

DEGREE OF DECOMPOSITION	FIELD RECOGNITION	ENGINEERING PROPERTIES
SOIL	DISCOLORED, CHANGED TO SOIL, FABRIC DESTROYED	EASY TO DIG
COMPLETELY WEATHERED	DISCOLORED, CHANGED TO SOIL, FABRIC MAINLY PRESERVED	EXCAVATED BY HAND OR RIPPING (Saprolite)
HIGHLY WEATHERED	DISCOLORED, HIGHLY FRACTURED, FABRIC ALTERED AROUND FRACTURES	EXCAVATED BY HAND OR RIPPING, WITH SLIGHT DIFFICULTY
MODERATELY WEATHERED	DISCOLORED, FRACTURES, INTACT ROCK-NOTICEABLY WEAKER THAN FRESH ROCK	EXCAVATED WITH DIFFICULTY WITHOUT EXPLOSIVES
SLIGHTLY WEATHERED	MAY BE DISCOLORED, SOME FRACTURES, INTACT ROCK-NOT NOTICEABLY WEAKER THAN FRESH ROCK	REQUIRES EXPLOSIVES FOR EXCAVATION, WITH PERMEABLE JOINTS AND FRACTURES
FRESH	NO DISCOLORATION, OR LOSS OF STRENGTH	REQUIRES EXPLOSIVES

IGNEOUS/METAMORPHIC ROCK JOINT/FRACTURE DESCRIPTIONS

FIELD TEST	DESCRIPTION
NO OBSERVED FRACTURES	UNFRACTURED/UNJOINTED
MAJORITY OF JOINTS/FRACTURES SPACED AT 1 TO 3 FOOT INTERVALS	SLIGHTLY FRACTURED/JOINTED
MAJORITY OF JOINTS/FRACTURES SPACED AT 4-INCH TO 1 FOOT INTERVALS	MODERATELY FRACTURED/JOINTED
MAJORITY OF JOINTS/FRACTURES SPACED AT 1-INCH TO 4-INCH INTERVALS WITH SCATTERED FRAGMENTED INTERVALS	INTENSELY FRACTURED/JOINTED
MAJORITY OF JOINTS/FRACTURES SPACED AT LESS THAN 1-INCH INTERVALS; MOSTLY RECOVERED AS CHIPS AND FRAGMENTS	VERY INTENSELY FRACTURED/JOINTED



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3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742 PHONE 916.852.9118 - FAX 916.852.9132

KEY TO LOGS

Figure A1

PROJECT NO. **\$1965-05-01**

PROJECT NAME Markleeville Pump Station and Pipeline

1	PTH N EET	SAMPLE INTERVAL & RECOVERY	ГІТНОГОĞY	GROUNDWATER	SOIL CLASS (USCS)	BORING B1 ELEV. (MSL.)	PENETRATION RESISTANCE (BLOWS/FT.)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)	ADDITIONAL TESTS
						MATERIAL DESCRIPTION				
_	0 -	B1-Bulk	0		SP	ALLUVIUM Loose, dry, grayish brown, Poorly graded SAND with gravel, fine to coarse sand, fine to coarse gravel, round to sub-round gravel, few cobble to 10"				
	2 - 3 - 4 -	B1-1.5 B1-2.0		-	<u>SM</u> -	Medium dense, dry, dark brown, Silty SAND, trace fine roots, micaceous, fine to medium sand, trace coarse sand, trace fine gravel	- 23 -	107.4	10.5	
	5 -	B1-5.5 B1-6.0 NR		 	<u>s</u> M-	Medium dense, wet, brown, Silty SAND with gravel, fine to medium sand, fine to coarse gravel	27	119.4	16.7 11.7	
	7 –					- hardrocky drifting, auger grinding REFUSAL AT 7 FEET GROUNDWATER ENCOUNTERED AT 6 FEET BACKFILLED WITH SOIL CUTTINGS	50/1			

Figure A2, Log of Boring, page 1 of 1

IN PROGRESS \$1965-05-01 MARKLEEVILLE PUMP STATION.GPJ 08/27/20



NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S1	965-05-01
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PROJECT NAME Markleeville Pump Station and Pipeline

DEPTH IN FEET	SAMPLE INTERVAL & RECOVERY	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	BORING B2 ELEV. (MSL.)	PENETRATION . RESISTANCE (BLOWS/FT.)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)	ADDITIONAL TESTS
0					MATERIAL DESCRIPTION				
- 0 -			-	SM	FILL Medium dense, dry to damp, dark brown, Silty SAND with gravel, fine gravel	_			
	B2-1.5	[.'							
- 2 -	B2-2.0		-			21	117.3	10.5	
- 3 -		p.							
- 4 -	-		-	- <u>G</u> M	Medium dense, damp, multicolored: brown, pink, white, Silty GRAVEL with Sand, fine to coarse gravel, angular gravel	_			
- 5 -	B2-5.0		-			- 20		7.4	
- 6 -		 0 0	r		- rocky/hard drilling, rig chatter to 9'	_			
- 7 -									
- 9 -									
- 10 -	B2-9.0			GM	VOLCANIC BRECCIA Completely Weathered volcanic rock, excavates as: Medium dense, wet, Silty GRAVEL, fine to coarse gravel,	23			
					angular gravel and cobble				
- 11 -									
- 12 -						-			
- 13 -	B2-13.0				ANDESITE Hard, dark gray, fine crystalline rock fragments in sampler, angular	80			
17					REFUSAL AT 14 FEET GROUNDWATER ENCOUNTERED AT 9 FEET BACKFILLED WITH SOIL CUTTINGS				

Figure A3, Log of Boring, page 1 of 1

IN PROGRESS \$1965-05-01 MARKLEEVILLE PUMP STATION.GPJ 08/27/20

		SAMPLING UNSUCCESSFUL	STANDARD PENETRATION TEST	DRIVE SAMPLE (UNDISTURBED)
GEOCON	SAMPLE SYMBOLS	🕅 DISTURBED OR BAG SAMPLE	CHUNK SAMPLE	✓ WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

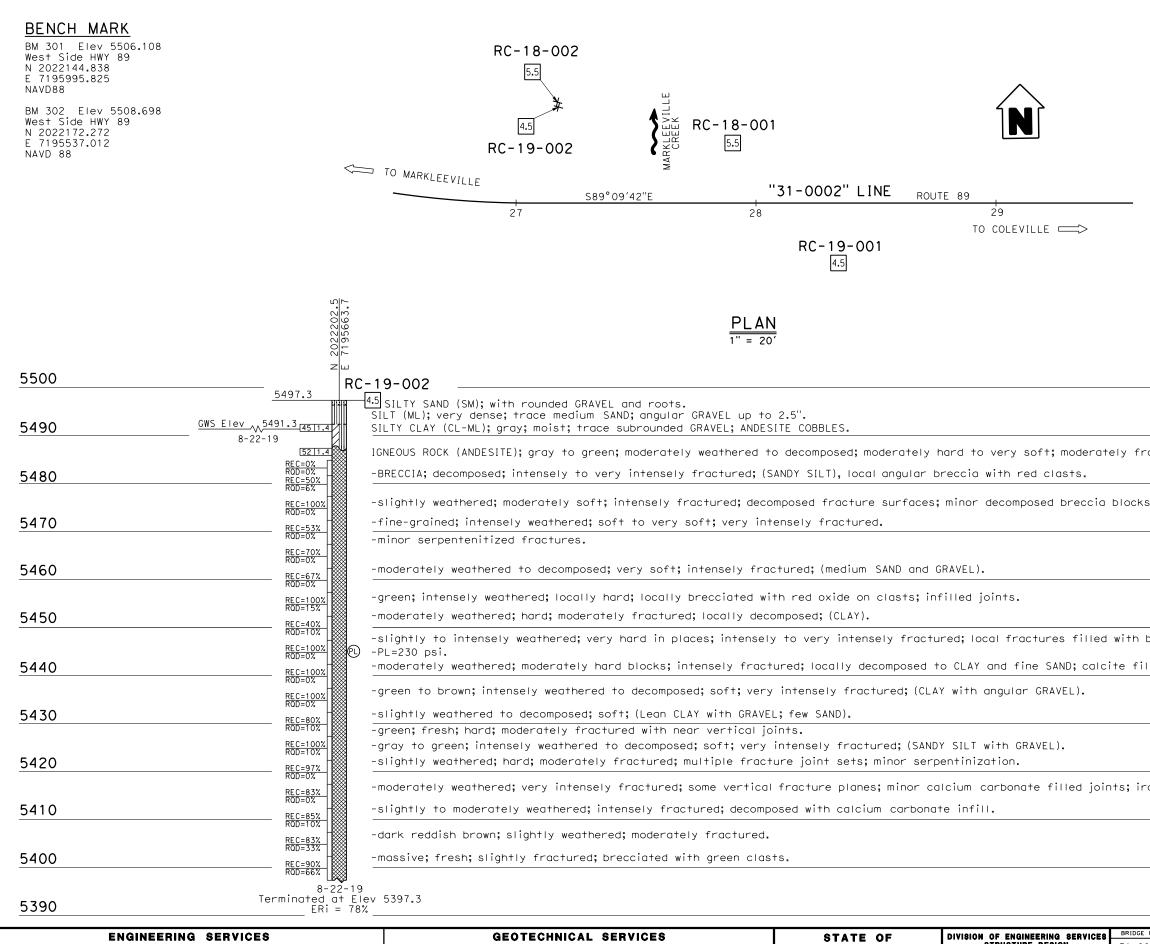
PROJEC	T NO. S	1965-0	5-01	1	PROJECT NAME Markleeville Pump	Station	and P	ipeline	2
DEPTH IN FEET	SAMPLE INTERVAL & RECOVERY	LITHOLOGY	GROUNDWATER	SOIL CLASS (USCS)	BORING B3 ELEV. (MSL.) DATE COMPLETED _7/9/2020 ENG./GEO. J. Pfeiffer DRILLER V&W Drilling, Inc. EQUIPMENT Truck-mounted CME55 HT w/ 7" HSA	PENETRATION . RESISTANCE (BLOWS/FT.)	DRY DENSITY (P.C.F.)	MOISTURE CONTENT (%)	ADDITIONAL TESTS
					MATERIAL DESCRIPTION				
- 0 -	B3-Bulk		-	SM	ALLUVIUM Medium dense, dry, grayish brown, Silty SAND with gravel, fine to coarse gravel, round gravel	_			
- 2 -	B3-2.0			- <u>s</u> M	Medium dense, damp, dark brown, reddish brown and gray, Silty SAND, trace fine gravel, micaceous	- 15	103.4	20.8	
- 3 -				SP-SM	Medium dense, moist, gray, Poorly graded SAND with Silt and Gravel, fine to coarse gravel, sub-round to round gravel				
- 4 -			-						
- 6 -	B3-5.5 B3-6.0		Y		- wet	21	117.3	17.9	
- 7 -			-			_			
- 9 -	-		-		ANDESITE				
- 10 -	B3-10.0				Completely to Highly Weathered volcanic rock, greenish gray	_			
11	B3-10.5				- moderately weathered, hard	71			
- 11 -					REFUSAL AT 11 FEET GROUNDWATER ENCOUNTERED AT 5.5 FEET BACKFILLED WITH SOIL CUTTINGS				

Figure A4, Log of Boring, page 1 of 1

IN PROGRESS \$1965-05-01 MARKLEEVILLE PUMP STATION.GPJ 08/27/20



NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.



FUNCTIONAL SUPERVISOR:	DRAWN BY: M. Taha	FIELD INVESTIGATION BY:	CALIF	ORNIA	DESIGN BRANCH 11	31-(POST
NAME: R. Mahallati	CHECKED BY: A. Barrie	NAME: W. Little	DEPARTMENT OF	TRANSPORTATION		14.
OGS CIVIL LOG OF TEST BORINGS SHEET (ENGLISH) (REVISION 6/28/2018)		TTED => 4/16/2020 TIME PLOTTED => 9:54:20 AMORIGINAL SCALE IN INCHES FOR \31-0028-s-lotb01.dgn USERNAME => "s133973" REDUCED PLANS	0 1	2 3	UNIT: 3650 PROJECT NUMBER & PHASE: 10130000091	CC

	DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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PROFESSIONAL GEOLOGIST PROFESSIONAL GEOLOGIST PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.						

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2018 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

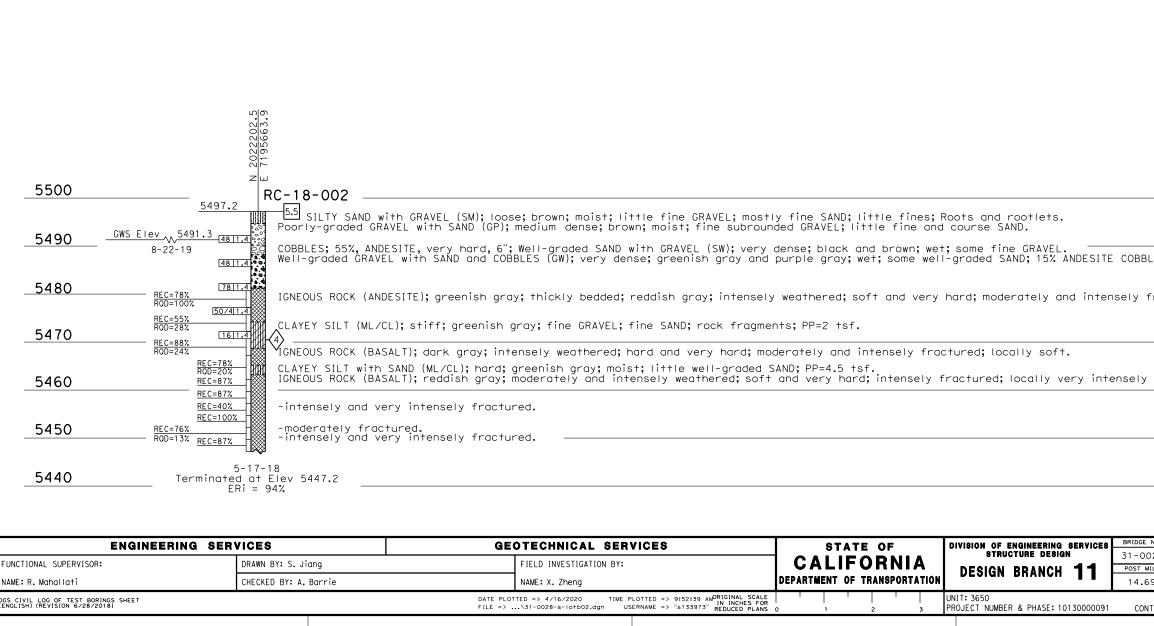
BOREHOLE LOCATION TABLE

HOLE ID	"B" LINE			
HOLE ID	Station	Offset	Rt/Lt	
RC-18-001	27+90.30	25.0′	L+	
RC-18-002	27+17.73	42.0′	L+	
RC-19-001	28+34.32	25.0′	R†	
RC-19-002	27+17.68	40.0'	L+	

5500

		5490		
ractured; (SANDY	SILT).			
		5480		
S.				
		5470		
		5460		
		5450		
blue to green o	xides.			
lled fissures.		5440		
		5430		
		5420		
ron oxide stainir	ng.			
		5410		
		5400		
PROFILE Horiz: Not to Scale				
	Horiz: Not to Scale Vert: 1" = 10'	5390		
020	EVILLE CREEK B	RIDGE (REPLACE)		
^{MILE} LOG	OF TEST BOR	INGS 1 OF 4		
NTRACT No.: 10-0X7504	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 10:14-19 3-09-20 12-13-19 1 7 2 0		

FOR PLAN VIEW, SEE "LOG OF TEST BORINGS 1 OF 4"



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2018 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

		-					1 '	20
NTRACT	No.: 10-0X7504	DISREC	GARD PRINTS BEAR ER REVISION DATES	ING	REVISION	DATES	sнеет 18	оғ 20
MILE 69	LOG	OF	TEST	BOR	INGS	2 (OF 4	ŀ
028	MARKLE	EVIL	LE CRE	EK B	RIDGE	(RE	PLAC	(E)
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			PROF Horiz: Not		le			
						ł	5440	
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frac	tured. —						<u> </u>	
,		20014		0.10 10		1	5480	
BLES.	hard, 4"; BR	ECCIA	VOLCANICA	STIC RO	CK.		<u>5490</u>	
						1	5400	
							5500	
						l	5500	

FOR PLAN VIEW, SEE "LOG OF TEST BORINGS 1 OF 4" N 2022216.3 E 7195753.5 5510 RC-18-001 5505.5 5.5 SILTY SAND (SM); loose; dark brown; moist; fine SAND; little fines; rootlets. Poorly-graded SAND with GRAVEL (SP); medium dense; brown; moist; some fine and coarse GRAVEL; fine and medium SAND. Well-graded GRAVEL with SAND (GW); dark brown; moist; some well-graded SAND. COBBLES; 100%, GRANITE, very hard. The second 5500 GWS Elev 5499.6 57 1.4 8-22-19 Well-graded SAND with GRAVEL (SW); dense; pale red; moist; some fine and coarse GRAVEL; ANDESITE volcaniclastic ROCK; decomposed. 22 1.4 Well-graded GRAVEL with SILT and SAND (GW-GM); dense; yellowish brown, purple gray, and greenish gray; moist; subangular GRAVEL; some we <u> 5490</u> REF 1.4 COBBLES; 50%, BASALT and ANDESITE, hard, 5"; well-graded GRAVEL with SAND (GW); very dense; greenish gray and purple gray; moist; some w -soft; moderately and intensely weathered; indurable. REF 1.4 5480 -moderately hard and soft; intensely fractured. REF 1.4 -hard; moderately weathered; intensely fractured. <u>5</u>470 -oft; intensely weathered; indurable; very intensly fractured. $\langle 4 \rangle$ Well-graded GRAVEL with SAND (GW); very dense; some well-graded SAND; soft; locally decomposed. IGNEOUS ROCK (ANDESITE); fresh; very hard; slightly fractured. REC=93% -moderately weathered; moderately hard; intensely fractured. 5460 REC=80% -hard; moderately fractured; locally intensely fractured; fracture near vertical and 45 degrees. REC=80% -(SILTY SAND with GRAVEL (SM)); very dense; greenish gray; moist; little fine GRAVEL; fine to course SAND; little fines; very soft; decom REC=83% 5450 5-16-18 Terminated at Elev 5450.5 ERi = 94% DIVISION OF ENGINEERING SERVICES Structure design BRIDGE ENGINEERING SERVICES GEOTECHNICAL SERVICES STATE OF 31-0 CALIFORNIA FIELD INVESTIGATION BY: FUNCTIONAL SUPERVISOR: DRAWN BY: S. Jiang POST N DESIGN BRANCH **11** DEPARTMENT OF TRANSPORTATION NAME: R. Mahallati CHECKED BY: A. Barrie NAME: X. Zheng 14.6 TIME PLOTTED => 9:55:09 AMORIGINAL SCALE USERNAME => "s133973" REDUCED PLANS

DATE PLOTTED => 4/16/2020 FILE => ...\31-0028-s-10+b03.dgn

OGS CIVIL LOG OF TEST BORINGS SHEET ENGLISH) (REVISION 6/28/2018)

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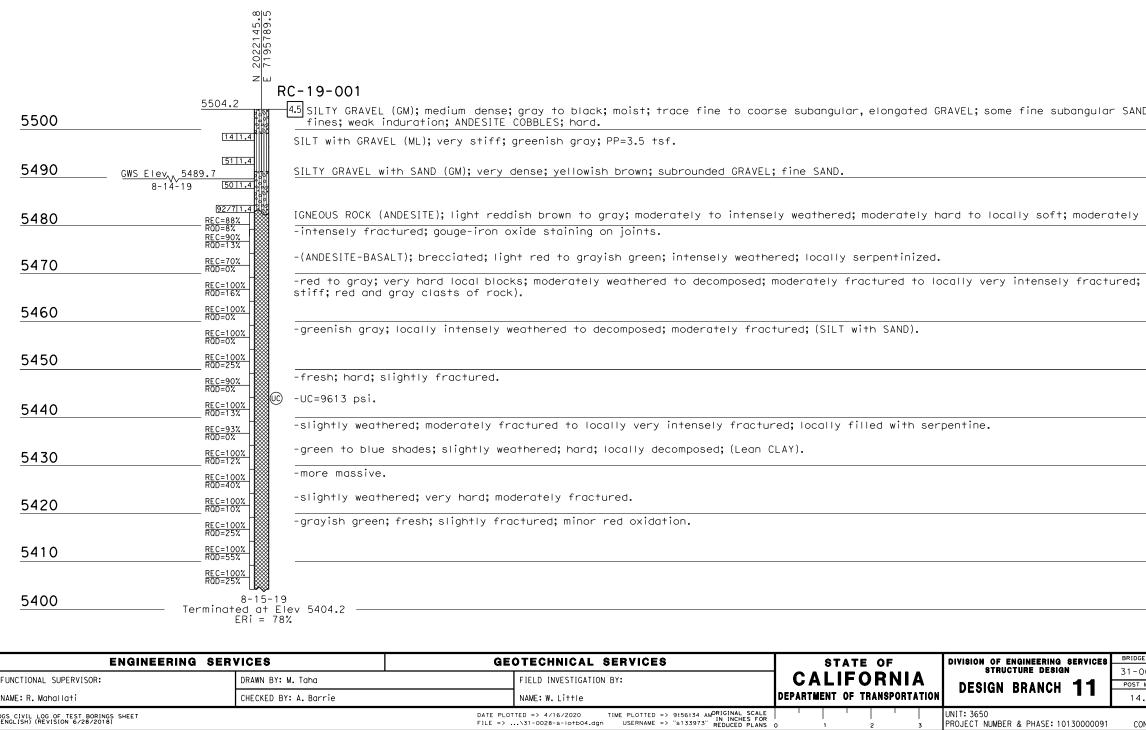
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Ĕdition). See 2018 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

		5510
		5500
e well-graded SAND; ne well-graded SAND.	few fines; fragments.	5490
		5480
		5470
		5460
composed.		5450
	PROFILE Horiz: Not to Sca Vert: 1" = 10'	
1-0028 MARKLEE	EVILLE CREEK B	RIDGE (REPLACE)
14.69 LOG	OF TEST BOR	RINGS 3 OF 4
CONTRACT No.: 10-0X7504	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES SHEET OF 12-12-19 3-09-20 19 20

UNIT: 3650

PROJECT NUMBER & PHASE: 10130000091

FOR PLAN VIEW, SEE "LOG OF TEST BORINGS 1 OF 4"



I	DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition). See 2018 Standard Plans A10F and A10G for Soil Legend, and A10H for Rock Legend.

ID; low plasticity	,				
,					5500
					5490
fractured.					5480
					5470
(lean CLAY with	GRAVEL;				
					5460
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					_
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MARKLE		CREE			PLACE)
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ONTRACT No.: 10-0X7504	DISREGARD PR EARLIER REVIS	INTS BEARING		VISION DATES -5-19 12-10-19	SHEET OF 20 20



APPENDIX B

LABORATORY TESTING PROGRAM

Laboratory tests were performed in accordance with generally accepted test methods of the American Society for Testing and Materials (ASTM) or other suggested procedures. Selected soil samples were tested for their in-place dry density and moisture content, grain size distribution, corrosion potential, shear strength, and moisture-density relationship. The results of the laboratory tests are presented on the following pages.

TABLE B1 SOIL CORROSION PARAMETER TEST RESULTS (CALIFORNIA TEST METHODS 643, 417 AND 422 ASTM TEST METHODS D1498M AND 9031M)

Sample No.	Sample Depth (feet)	рН	Minimum Resistivity (ohm-cm)	Chloride (ppm)	Sulfate (ppm)
B3-Bulk	0-4	6.2	2,120	7.6	44.5

Notes: ppm = parts per million ND = below detection limits of 0.05

Caltrans considers a site corrosive to foundation elements if one or more of the following conditions exist for the representative soil samples at the site:

- The pH is equal to or less than 5.5.
- The resistivity is equal to or less than 1,100 ohm-cm.
- Chloride concentration is equal to or greater than 500 parts per million (ppm).
- Sulfate concentration is equal to or greater than 1,500 ppm.

According to the 2019 California Building Code Section 1904.1 which refers to the durability requirements of American Concrete Institute (ACI) 318 (Chapter 4), Type II cement may be used where soluble sulfate levels in soil are below 2,000 ppm.

				1		1		Sheet 1 of 1
Sample ID	Depth (feet)	Liquid Limit	Plastic Limit	Plasticity Index	Expansion Index	%<#200 Sieve	Water Content (%)	Dry Density (pcf)
B1-2	2					37.6	10.5	107.4
B1-6	6					21.8	16.7	119.4
B1-6.5	6.5						11.7	
B2-2	2					22.6	10.5	117.3
B2-5	5					15.4	7.4	
B3-2	2						20.8	103.4
B3-2.5	2.5					38.8		
B3-6	6					5.9	17.9	117.3



Summary of Laboratory Results Project: Markleeville Pump Station and Pipeline

Location: Markleeville, CA Number: S1965-05-01 Figure: B1

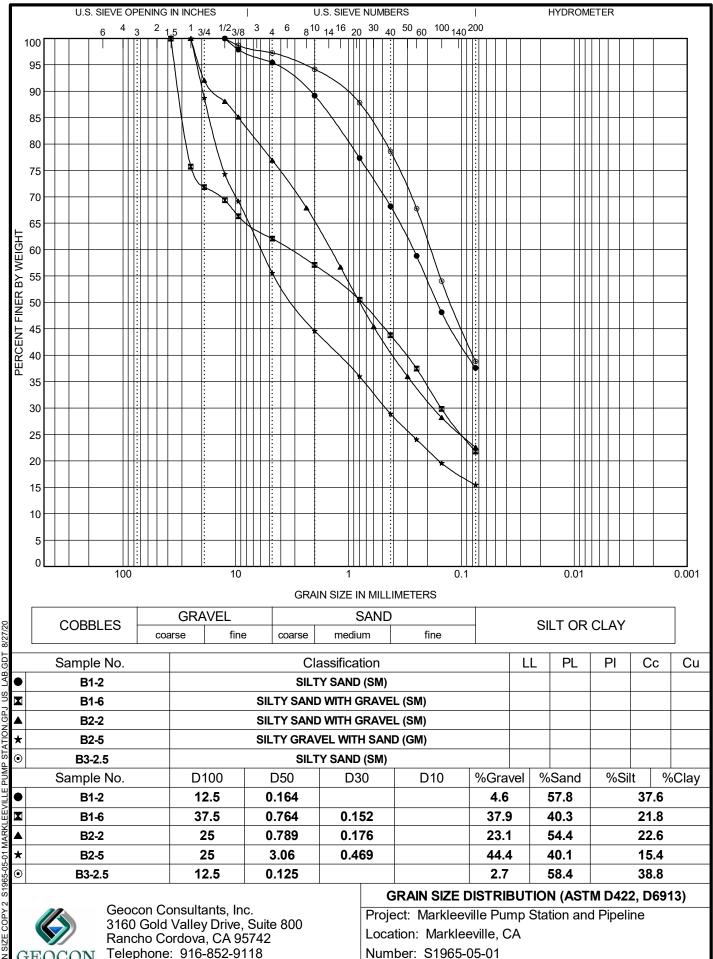


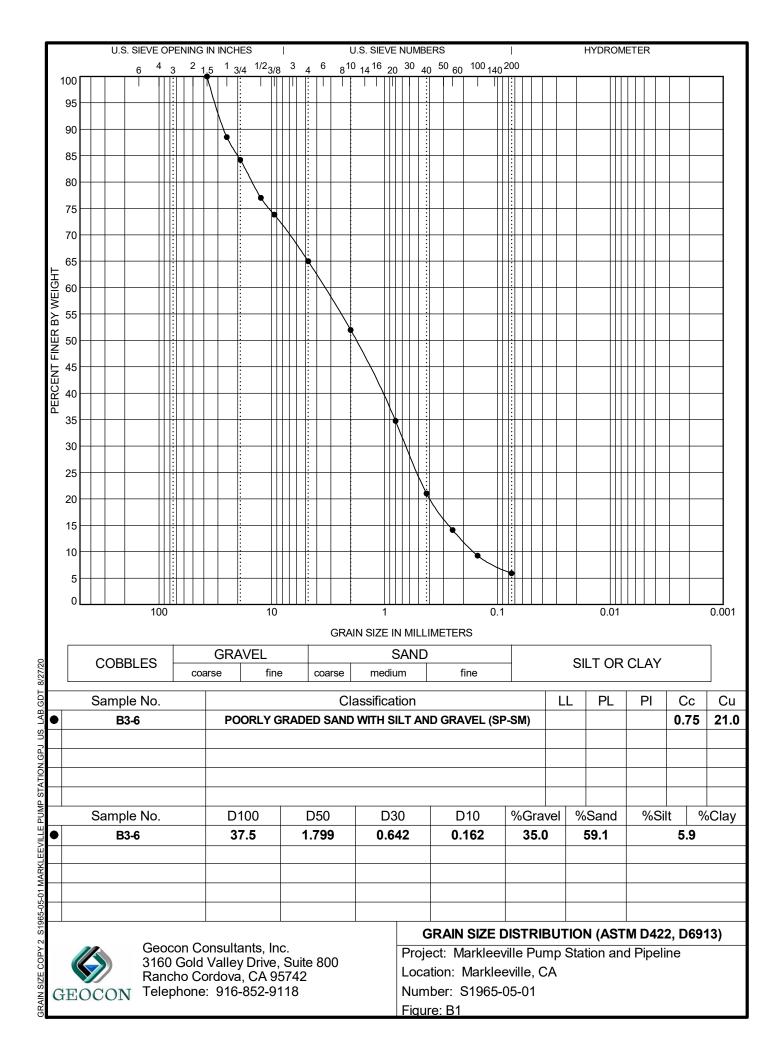
Figure: B1

US LAB.GDT STATION GP.I FEVILE PLIMP ARKI S1965-05-01

GRAIN

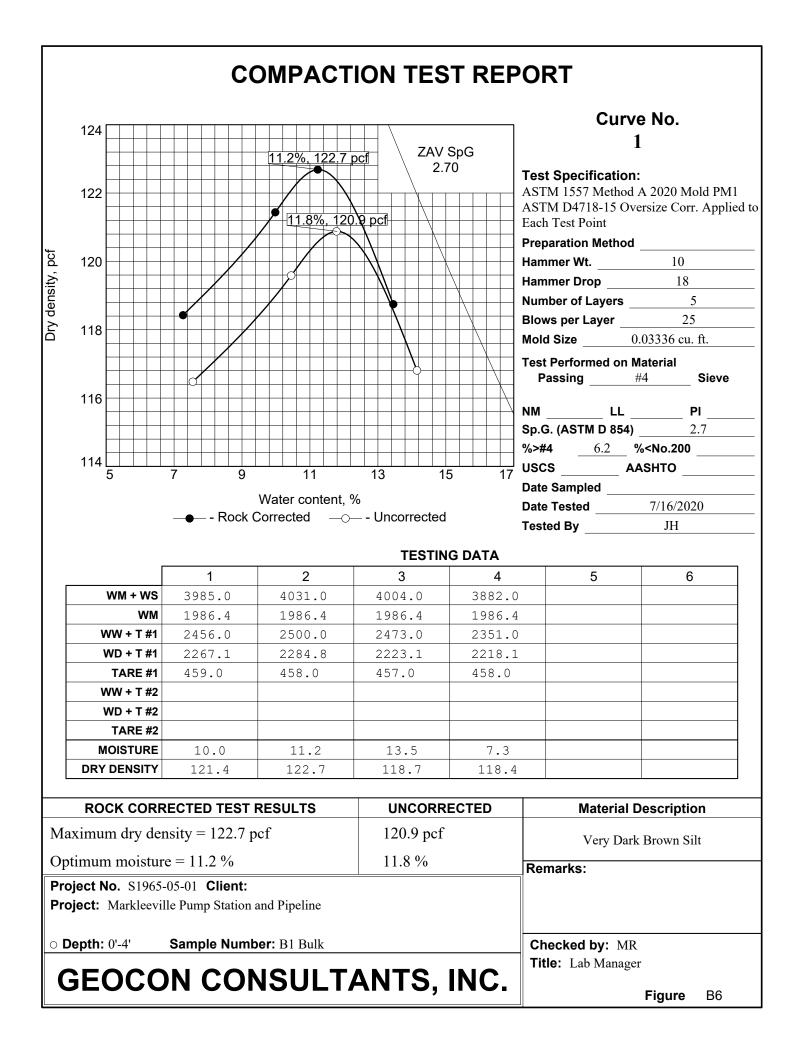
GEOCON

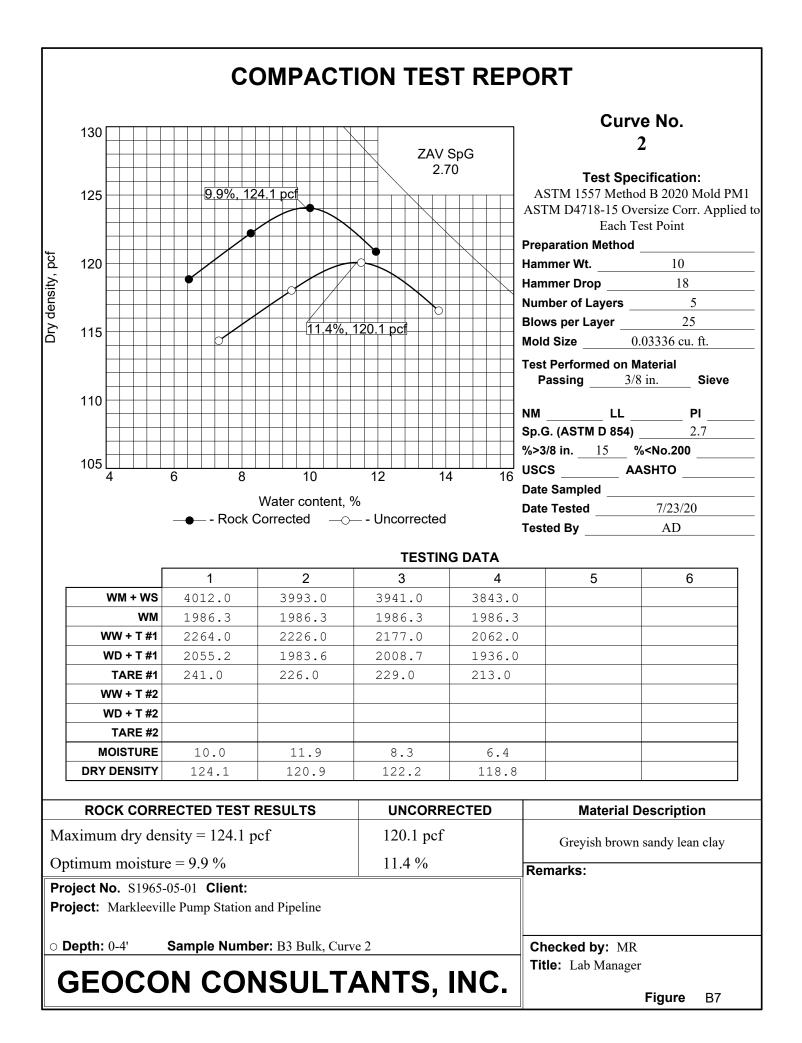
Telephone: 916-852-9118



SHEAR STRENGTH	STF	RESS-STRAIN	
3.0 2.5 2.0 2.0 1.5 1.5 1.0 0.5 0.0	180 160 140 140 140 140 140 140 140 14		
Normal Stress (ksf)		Shear Strain, %	
Sample Description			
Boring Number	B1		
Sample Depth (feet)	5.50		
Material Description	Dark Brown S	ilty SAND with	n Gravel
Initial Conditions at Start of Test			
Sample ID (psf)	338	890	2030
Height (inch)	1.00	1.00	1.00
Diameter (inch)	2.375	2.375	2.375
Moisture Content (%)	25.4	26.0	26.5
Wet Density (pcf)	128.8	126.3	126.6
Dry Density (pcf)	102.7	100.2	100.1
Estimated Specific Gravity	2.65	2.65	2.65
Saturation (%)	110.0	105.8	107.8
Shear Test Conditions			
Strain Rate (%/min)	0.211	0.211	0.211
Major Principle Stress at Failure (psf)	700	1035	1558
Strain at Failure (%)	5.05	10.11	10.53
Test Results			
φ, degrees 26.6			
c, psf 555			
Geocon Consultants, Inc. 3160 Gold Valley Drive, Suite 800 Rancho Cordova, California 95742 GEOCON Telephone: (916) 852-9118	Direct Shear Streng Project: Markleeville P Location: Markleeville, (Number: S1965-05-01	ump Station a	

	0.77		
SHEAR STRENGTH		RESS-STRAIN	
3.0 2.5 2.0 1.5 1.5 1.0 0.5	250 200 setuing Ring 150 50 50		
		6 8	10 12
	.0 0 2 4	Shear Strain, %	10 12
Normal Stress (ksf)			
Sample Description			
Boring Number	B2		
Sample Depth (feet)	2.00		
Material Description	Dark Grayish	brown Silty S	AND w/ Grave
Initial Conditions at Start of Test			
Sample ID (psf)	338	890	2030
Height (inch)	1.00	1.00	1.00
	2.375	2.375	2.375
Diameter (inch)			
Moisture Content (%)	9.9	10.6	10.9
Moisture Content (%) Wet Density (pcf)	9.9 132.1	10.6 126.6	10.9 130.1
Moisture Content (%) Wet Density (pcf) Dry Density (pcf)	9.9 132.1 120.2	10.6 126.6 114.5	10.9 130.1 117.3
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity	9.9 132.1 120.2 2.65	10.6 126.6 114.5 2.65	10.9 130.1 117.3 2.65
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity Saturation (%)	9.9 132.1 120.2	10.6 126.6 114.5	10.9 130.1 117.3
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity Saturation (%) Shear Test Conditions	9.9 132.1 120.2 2.65 70.1	10.6 126.6 114.5 2.65 63.0	10.9 130.1 117.3 2.65 70.5
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity Saturation (%) Shear Test Conditions Strain Rate (%/min)	9.9 132.1 120.2 2.65 70.1 0.421	10.6 126.6 114.5 2.65 63.0 0.421	10.9 130.1 117.3 2.65 70.5 0.421
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity Saturation (%) Shear Test Conditions Strain Rate (%/min) Major Principle Stress at Failure (psf)	9.9 132.1 120.2 2.65 70.1 0.421 1026	10.6 126.6 114.5 2.65 63.0 0.421 1016	10.9 130.1 117.3 2.65 70.5 0.421 2041
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity Saturation (%) Shear Test Conditions Strain Rate (%/min) Major Principle Stress at Failure (psf) Strain at Failure (%)	9.9 132.1 120.2 2.65 70.1 0.421	10.6 126.6 114.5 2.65 63.0 0.421	10.9 130.1 117.3 2.65 70.5 0.421
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Moisture Content (%)Wet Density (pcf)Dry Density (pcf)Estimated Specific GravitySaturation (%)Shear Test ConditionsStrain Rate (%/min)Major Principle Stress at Failure (psf)Strain at Failure (%)Test Results\$\overline{0}\$, degrees 32.8\$\cdot psf 660	9.9 132.1 120.2 2.65 70.1 0.421 1026 2.53	10.6 126.6 114.5 2.65 63.0 0.421 1016 9.68	10.9 130.1 117.3 2.65 70.5 0.421 2041 5.89
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity Saturation (%) Shear Test Conditions Strain Rate (%/min) Major Principle Stress at Failure (psf) Strain at Failure (%) Test Results \$\overline{4}\$, degrees 32.8 c, psf 660 Geocon Consultants, Inc.	9.9 132.1 120.2 2.65 70.1 0.421 1026 2.53 Direct Shear Streng	10.6 126.6 114.5 2.65 63.0 0.421 1016 9.68	10.9 130.1 117.3 2.65 70.5 0.421 2041 5.89
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Moisture Content (%)Wet Density (pcf)Dry Density (pcf)Estimated Specific GravitySaturation (%)Shear Test ConditionsStrain Rate (%/min)Major Principle Stress at Failure (psf)Strain at Failure (%)Test Results\$\overline{0}\$, degrees 32.8\$\cdot c, psf 660Geocon Consultants, Inc.3160 Gold Valley Drive, Suite 800Rancho Cordova, California 95742	9.9 132.1 120.2 2.65 70.1 0.421 1026 2.53 Direct Shear Streng Project: Markleeville P Location: Markleeville, (10.6 126.6 114.5 2.65 63.0 0.421 1016 9.68	10.9 130.1 117.3 2.65 70.5 0.421 2041 5.89
Moisture Content (%) Wet Density (pcf) Dry Density (pcf) Estimated Specific Gravity Saturation (%) Shear Test Conditions Strain Rate (%/min) Major Principle Stress at Failure (psf) Strain at Failure (%) Test Results \$\overline{4}\$, degrees 32.8 c, psf 660 Geocon Consultants, Inc. 3160 Gold Valley Drive, Suite 800	9.9 132.1 120.2 2.65 70.1 0.421 1026 2.53 Direct Shear Streng Project: Markleeville P	10.6 126.6 114.5 2.65 63.0 0.421 1016 9.68	10.9 130.1 117.3 2.65 70.5 0.421 2041 5.89







APPENDIX C

Tunnelman's Ground Classification of Soils

(Terzaghi, 1950, Modified by Heuer, 1974)

Classi	fication	Behavior	Typical Soil Names	Site Soil Types
Firm		Heading can be advanced without initial support, and final lining can be constructed before ground starts to move.	Loess above water table; hard clay, marl, cement sand and gravel when not highly stressed.	Firm soils were observed in some of our borings
Raveling	Slow raveling	Chunks or flakes of material begin to drop out of the arch or walls sometime after the ground has been exposed, due to loosening or to overstress and "brittle" fracture (ground separates or breaks along distinct surfaces, opposed to squeezing ground). In fast	Residual soils or sand with small amounts of binder may be fast raveling below the water table, slow raveling above. Stiff fissured clays may be slow or fast raveling depending upon degree of overstress.	Slow raveling soils were observed in our borings. Groundwater was not encountered in our borings
	Fast raveling	raveling ground, the process starts within a few minutes; otherwise, the ground is slow raveling.		
Squ	eezing	Ground squeezes or extrudes plastically into tunnel, without visible fracturing or loss of continuity, and without perceptible increase in water content. Ductile, plastic yield and flow due to overstress.	Ground with low frictional strength. Rate of squeeze depends on degree of overstress. Occurs at shallow to medium depth in clay of very soft to medium consistency. Stiff to hard clay under high cover may move in combination of raveling at excavation surface and squeezing at depth behind surface.	Squeezing soils were not observed in our borings.
Running	Cohesive, running	Granular materials without cohesion are unstable at a slope greater than their angle of repose $(\pm 30^{\circ}-35^{\circ})$. When exposed at steeper slopes they	Clean, dry granular materials. Apparent cohesion in moist sand, or weak cementation in any granular soil, may allow the	Cohesive running soils were not observed in our borings.
Running	Running	run like granulated sugar or dune sand until the slope flattens to the angle of repose.	material to stand for a brief period of raveling before it breaks down and runs. Such behavior is cohesive-running.	Potentially running soils were observed in some of our borings
Flowing		A mixture of soil and water flows into the tunnel like a viscous fluid. The material can enter the tunnel from the invert as well as from the face, crown, and walls, and can flow for great distances, completely filling the tunnel in some cases.	Below water table in silt, sand or gravel without enough clay content to give significant cohesion and plasticity. May also occur in sensitive clay when such material is disturbed.	Flowing soils were not encountered in our borings. Groundwater was not encountered in our borings.
Sw	elling	Ground absorbs water, increases in volume, and expands slowly into the tunnel.	Highly pre-consolidated clay with plasticity index in excess of about 30, generally containing significant percentages of montmorillonite.	Potentially swelling soils not observed in our borings



GEOTECHNICAL 🔳 ENVIRONMENTAL 🔳 MATERIALS 🖣

Project No. S1965-05-01 June 3, 2021

Gabriel Rodell, PE Bennett Engineering Services 1082 Sunrise Avenue, Suite 100 Roseville, California 95661

Subject: GEOTECHNICAL REPORT ADDENDUM MARKLEEVILLE SEWER PUMP STATION AND PIPELINE MARKLEEVILLE, ALPINE COUNTY, CALIFORNIA

Reference: Geotechnical Investigation, Markleeville Sewer Pump Station and Pipeline, Markleeville, Alpine County, California (Geocon Project No. S1965-05-01), January 12, 2021.

Mr. Rodell:

As requested, we have prepared this geotechnical report addendum for the Markleeville Sewer Pump Station and Pipeline project located in Alpine County, California.

We prepared this addendum to provide geotechnical recommendations for fill slope construction for the pump station building pad. We understand that the fill slope embankment will abut the existing fill embankment of the adjacent State Route 89 (SR-89). The information contained in this addendum is intended to supplement the information contained in Section 6.5 in the referenced geotechnical report with respect building pad grading. The remaining discussion, recommendations, and limitations from our original report remain valid.

Permanent cut and fill slopes should be constructed no steeper than 2H:1V (horizontal to vertical). To mitigate potential erosion, slopes should be vegetated as soon as possible, and surface drainage should be directed away from the tops of slopes.

To increase stability and provide a stable foundation for the engineered fill slope, we recommend that a keyway be cut into the bottom of excavation at the toe of the engineered fill slope. In general, the keyway should be at least 20 feet wide and extend at least 3 feet into competent, undisturbed soil or weathered bedrock. The actual depth of the keyway should be evaluated during construction by a Geocon representative. Keyway backslopes should be no flatter than 1H:1V. The engineered fill should be benched into the adjacent embankment material (SR-89) as the fill is placed. Benches should roughly parallel the slope contours and extend at least 3 feet into the existing embankment. Keyway and benching construction criteria may need revision during construction based on actual conditions encountered in the field.

Our services were performed in accordance with engineering principles generally accepted at this time and location. We make no warranty, express or implied.

Please contact us if you have any questions concerning the contents of this Addendum.

Respectfully Submitted,

GEOCON CONSULTANTS, INC.

Victor M. Guardado, EIT Senior Staff Engineer



Jeremy, J. Zorne, PE, GE Senior Engineer

APPENDIX B ENVIRONMENTAL DOCUMENTS

Markleeville Sewer Pump Station Relocation and Improvements Project

Addendum to the Markleeville Creek Floodplain Restoration Project, Alpine County Initial Study/Mitigated Negative Declaration

State Clearinghouse No. 2015032034

Lead Agency:

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Prepared by:

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March 8, 2021

TABLE OF CONTENTS

Sect	Section					
LIST	OF ABBR					
1	PROJ	PROJECT INFORMATION				
2	INTRO	2-1				
	2.1	Purpose of this Addendum				
	2.2	Clean Water State Revolving Fund				
	2.3	Anticipated Permits and Approvals				
	2.4	Organization of the Addendum				
3	PROJ	ECT DESCRIPTION	3-1			
	3.1	Location				
	3.2	Project Site				
	3.3	Project Background				
	3.4	Project Objectives				
	3.5	Project Elements				
4	COVERAGE UNDER THE 2015 IS/MND					
	4.1	Aesthetics				
	4.2	Agricultural and Forestry Resources				
	4.3	Air Quality				
	4.4	Biological Resources				
	4.5	Archaeological, Historical, and Tribal Cultural Resources				
	4.6	Energy				
	4.7	Geology, Soils, and Seismicity	4-31			
	4.8	Greenhouse Gas Emissions and Climate Change				
	4.9	Hazards and Hazardous Materials	4-34			
	4.10	Hydrology and Water Quality				
	4.11	Land Use and Planning				
	4.12	Mineral Resources				
	4.13	Noise				
	4.14	Population and Housing				
	4.15	Public Services	4-44			
	4.16	Recreation	4-45			
	4.17	Transportation and Traffic	4-46			
	4.18	Utilities and Service Systems				
	4.19	Wildfire	4-50			
5	MITIC	GATION MEASURES	5-1			
	5.1	Air Quality	5-1			
	5.2	Biological Resources				
	5.3	Archaeological, Historical, and Tribal Cultural Resources				
	5.4	Hydrology and Water Quality				
6	REFE	RENCES	6-1			
	6.1	Introduction				
	6.2	Agricultural and Forestry Resources				

6.3	Air Quality	6-1
6.4	Biological Resources	
6.5	Archaeological, Historical, and Tribal Cultural Resources	
6.6	Energy	6-2
6.7	Geology, Soils, and Seismicity	6-2
6.8	Hazards and Hazardous Materials	6-2
6.9	Hydrology and Water Quality	6-3
6.10	Mineral Resources	6-3
6.11	Wildfire	6-3
6.12	Mitigation Measures	6-3

Appendices

A Biological Research Data Re	esults
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B Energy Calculation Data

Figures

Figure 3-1	Project Location	3-2
Figure 3-2	Project Area	3-3
Figure 3-3	Sewer System Modifications	3-5

Tables

Table 2-1	Anticipated Permits and Approvals	2-3
Table 4-1	Special-Status Plant Species Known to Occur in the Vicinity of the Project Site and Potential for Occurrence in the Project Site	.4-10
Table 4-2	Typical Blooming Period for Special-Status Plants that May Occur within the Project Site ¹	.4-13
Table 4-3	Special-Status Wildlife Species Known to Occur in the Vicinity of the Project Site and Potential for Occurrence in the Project Site	4-14

LIST OF ABBREVIATIONS

APE	area of potential effects
APN	Assessor's Parcel Numbers
AWG	Alpine Watershed Group
bgs	below ground surface
CAAQS	California ambient air quality standards
Cal EPA	California Environmental Protection Agency
CalEEMod	California Emissions Estimator Model
CDF	California Department of Forestry
CEQA	California Environmental Quality Act
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CRHR	California Register of Historical Resources
EAP	Energy Action Plan
EPA	U.S. Environmental Protection Agency
GBUAPCD	Great Basin Unified Air Pollution Control District
GBVAB	Great Basin Valleys Air Basin
GHG	greenhouse gas
IS	Initial Study
IS/MND	Initial Study/Mitigated Negative Declaration
MND	Mitigated Negative Declaration
MPUD	Markleeville Public Utility District
NAAQS	national ambient air quality standards
NHPA	National Historic Preservation Act
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
PM ₁₀	respirable particulate matter with an aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	fine particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in diameter
PRC	Public Resources Code
ROW	right-of-way
RWQCB	Regional Water Quality Control Board
SR	State Route
SRF	State Revolving Fund
SWPPP	stormwater pollution prevention plan

SWRCB	State Water Resources Control Board
USACE	U.S. Army Corps of Engineers
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

1	PROJECT INFORMATION
Project title:	Markleeville Sewer Pump Station Relocation and Improvements Project
Project location:	Project is located in Alpine County, California in the town of Markleeville on the north side of State Route (SR) 89. The site is included on the Markleeville U.S. Geological Survey (USGS) Quadrangle map, NE ¼ of the SE ¼ of Section 21, T10N, R20E MDBM
Lead agency's name and address:	Markleeville Public Utility District PO Box 222 Markleeville, CA 96120
Contact person:	Dave Harden, PE, District Engineer, 916-771-6144
Project sponsor's name and address:	Same as Lead Agency, above.
Location of administrative record:	Same as Lead Agency, above.

Previously Adopted Initial Study and Mitigated Negative Declaration:

This addendum documents that none of the conditions described in Section 15162 of the State California Environmental Quality Act (CEQA) Guidelines calling for preparation of a subsequent negative declaration have occurred and the project will not have any significant effects that were not previously discussed in the Markleeville Creek Floodplain Restoration Project Alpine County, California Initial Study/Mitigated Negative Declaration (IS/MND) (February 2014). A Notice of Determination documenting adoption of an MND and approval of the project was filed on June 29, 2015 (State Clearinghouse No. 2015032034) (referred to as "2015 IS/MND" throughout this addendum). The Markleeville Creek Floodplain Restoration Project includes sewer system modifications, as well as channel and floodplain restoration and improved public access facilities. Alpine County's 2015 IS/MND is available for review online at: <u>https://www.alpinecountyca.gov/407/Current-Projects.</u> This page intentionally left blank.

2 INTRODUCTION

2.1 PURPOSE OF THIS ADDENDUM

Alpine County, in coordination with the Markleeville Public Utility District (MPUD) and the Alpine Watershed Group (AWG), approved the *Markleeville Creek Floodplain Restoration Project* in 2015, which is a priority floodplain restoration project for the Upper Carson River Watershed (2015 Project). The goal of the 2015 Project is to restore the natural form and function of Markleeville Creek at the site of the former U.S. Forest Service (USFS) Markleeville Guard Station. The 2015 Project has three major elements: sewer system modifications, floodplain restoration, and public access improvements, all of which are important in achieving the project objectives. The sequence of these elements is vital to ensure that the floodplain restoration can utilize the entire footprint of disturbed ground. Thus, the sewer system modifications must occur first, followed concurrently by public access facilities and floodplain restoration. The approved 2015 Project will remove the floodwalls and artificial fill material, re-vegetate all disturbed areas, and will provide community benefits including sewer infrastructure modifications and public access for recreation such as walking paths, interpretive signage, picnicking and parking. Alpine County, as lead agency under CEQA, prepared an Initial Study (IS) for the project in 2014, adopted a Mitigated Negative Declaration (MND), and filed a Notice of Determination in 2015 (State Clearinghouse No. 2015032034) (referred to as "2015 IS/MND" throughout this addendum).

Since 2015, the Markleeville Creek Floodplain Restoration Project has been split into two separate and distinct projects, with separate funding sources:

- Markleeville Sewer Pump Station Relocation and Improvements Project, led by MPUD, to be funded by Clean Water State Revolving Fund (SRF) financing; and
- *Markleeville Creek Floodplain Restoration Project*, which includes the floodplain restoration and the public access facilities, led by AWG.

The *Markleeville Sewer Pump Station Relocation and Improvements Project* ("Sewer Improvement Project" or "project") is the focus of this addendum. As stated above, the sewer system improvements need to be completed first to allow for the subsequent floodplain restoration and public access improvements. MPUD is responsible for the sewer system modifications, which consistent with the 2015 Project evaluated in the 2015 IS/MND, includes the demolition and removal or abandonment of on-site sewer facilities in the floodplain and construction of replacement facilities including an access road, sewer manholes, sewer piping, and a pump station that is accessible to maintenance vehicles at all times regardless of weather conditions. The current project site plan for the sewer system improvements has simply been refined based on detailed engineering of the sewer facilities and avoidance of potential environmental impacts. The Sewer Improvement Project has independent utility, extending the lifespan of MPUD facilities, improving reliability and accessibility, and protecting water quality by moving sewer facilities out of the floodplain.

The purpose of this addendum is to describe MPUD's current design for the *Markleeville Sewer Pump Station Relocation and Improvements Project*, which has been revised to avoid trenching across Markleeville Creek and to avoid work near the Markleeville Courthouse, and to update the CEQA document, which is over five years old, to address current CEQA Guidelines. The evaluation in this addendum addresses whether changes to the project, changes to the project site or vicinity, or new information are so substantial that they would require major revisions to the previous CEQA document. As documented in this addendum, no subsequent CEQA document is necessary for the project.

2.1.1 State CEQA Guidelines Regarding an Addendum

If, after certification of an EIR or adoption of a MND, minor technical changes or additions are necessary or none of the conditions described in CEQA Guidelines Section 15162 calling for the preparation of a subsequent EIR or MND have occurred, an addendum to the EIR or MND may be prepared.

Public Resources Code (PRC) Section 21166 and Sections 15162 through 15163 of the State CEQA Guidelines describe the conditions under which subsequent document would be prepared. In summary, when an EIR has been certified or a MND adopted for a project, no subsequent document shall be prepared for that project unless the lead agency determines, on the basis of substantial evidence in light of the whole record, one or more of the following:

- substantial changes are proposed in the project that will require major revisions of the previous EIR or MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- substantial changes occur with respect to the circumstances under which the project is undertaken that will require major revisions of the previous EIR or MND due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR or MND was certified as complete was adopted, shows any of the following:
 - the project will have one or more significant effects not discussed in the previous EIR or MND;
 - significant effects previously examined will be substantially more severe than shown in the previous EIR or MND;
 - mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
 - mitigation measures or alternatives that are considerably different from those analyzed in the previous EIR or MND would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Section 15164 of the CEQA Guidelines provides that a lead agency may prepare an addendum to a previously certified EIR or adopted MND if some changes or additions are necessary, but none of the conditions described above for Section 15162 calling for preparation of a subsequent document have occurred. CEQA allows lead agencies to restrict review of modifications to a previously approved project to the incremental effects associated with the proposed modifications, compared against the anticipated effects of the previously approved project at build-out.

As described in Chapter 3, "Project Description," and Chapter 4, "Coverage Under the 2015 IS/MND," none of the conditions described above from Section 15162 calling for preparation of a subsequent document have occurred. Therefore, the differences between the approved 2015 Project, as evaluated in Alpine County's 2015 IS/MND, and the Sewer Improvement Project now being considered by MPUD constitute changes consistent with CEQA Guidelines Section 15164 that may be addressed in an addendum to the 2015 IS/MND.

2.2 CLEAN WATER STATE REVOLVING FUND

The Clean Water SRF program offers low cost financing for a wide variety of water quality projects. In California, administration of the SRF program has been delegated by the United States Environmental Protection Agency (EPA) to the State Water Resources Control Board (SWRCB). In turn, the SWRCB requires all projects being considered under the SRF program to comply with CEQA and certain federal environmental protection laws and regulations (federal cross-cutter regulations), including the Federal Endangered Species Act (Section 7), the National Historic Preservation Act (Section 106), Environmental Justice (Executive Order 12898), and the General Conformity Rule for

the Clean Air Act, among others. Collectively, the SWRCB refers to these requirements as "CEQA-Plus." This addendum will support MPUD's SRF Financial Assistance Application Environmental Package (as revised 12/2019) and compliance with SWRCB CEQA-Plus requirements, per the Clean Water State Revolving Fund Program State Environmental Review Process (SWRCB 2017). In addition, the SRF Financial Assistance Application Environmental Package requires that the project's CEQA document is less than five years old at the time a financing agreement is executed for the project. Because the Alpine County MND was adopted in 2015, although it evaluated the Sewer Improvement Project now being considered, it would be over five years old at the time of funding. Therefore, the evaluation of current site conditions, regulations, and project elements in this addendum will also serve to update the 2015 IS/MND, ensuring the CEQA review for the Markleeville Sewer Pump Station Relocation and Improvements Project is less than five years old.

2.3 ANTICIPATED PERMITS AND APPROVALS

Table 2.1 lists the anticipated agency reviews, permits, and approvals that would be necessary to implement the project.

Agency	Regulation	Permit/Action
Markleeville Public Utility District	California Environmental Quality Act, Section 15000 et seq. MPUD Ordinances	Addendum to the Alpine County 2015 MND Inspection Agreement
California Department of Transportation		ROW Encroachment Permit
State Water Resources Control Board	State Revolving Fund Environmental Compliance Federal Cross-Cutter Regulations	SRF Environmental Form
California Regional Water Quality Control Board (Lahontan Water Board)	Clean Water Act, Section 401	NPDES Construction
California State Office of Historic Preservation	National Historic Preservation Act, Section 106	Compliance with Section 106
Great Basin Unified Air Pollution Control District		Construction Permit
Private Landowner - MPUD Easement Holder		Possible modification to easement
California Department of Fish and Wildlife	California Fish and Game Code	Streambed Alteration Agreement for impacts on fish and wildlife resources due to riparian habitat removal
US Army Corps of Engineers	Section 404 of Clean Water Act	Section 404 permit for fill of federally protected wetlands
Lahontan Regional Water Quality Control Board	Section 401 of Clean Water Act	Section 401 Water Quality Certification for fill or waters of the state (including wetlands)

Table 2-1 Anticipated Permits and Approvals

2.4 ORGANIZATION OF THE ADDENDUM

This addendum uses a modified checklist format to document that the site-specific activities for the Markleeville Sewer Pump Station Relocation and Improvements Project are adequately addressed by the 2015 IS/MND pursuant to Section 15164(b) of the State CEQA Guidelines, which states that "an addendum to an adopted negative declaration may be prepared if only minor technical changes or additions are necessary or none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred." The checklist is set up to document that none of the conditions described in CEQA Guidelines Section 15162 calling for the preparation of a subsequent MND have occurred and an addendum to the 2015 IS/MND may be prepared (per CEQA Guidelines Section 15164).

The organization of project-specific environmental analysis in this addendum follows the organization of Alpine County's 2015 IS/MND (specifically the IS/MND Volume I, dated February 2014); however, it avoids excessive repetition of information and issues that were disclosed in the 2015 IS/MND and that require no further analysis. Instead, this addendum evaluates the more detailed project-level information specific to the Markleeville Sewer Pump Station Relocation and Improvements Project to document that the project activities are covered by the Alpine County 2015 IS/MND and that no subsequent MND is required.

This addendum is organized into the following chapters:

Chapter 1 – Project Information: provides a summary of information about the Sewer Improvement Project, including project location, lead agency, and contact information.

Chapter 2 – Introduction: summarizes the purpose of the addendum, the 2015 IS/MND, and this document's organization.

Chapter 3 – Project Description: includes a description of all elements of the Markleeville Sewer Pump Station Relocation and Improvements Project, focusing on those elements that differ from the 2015 Project.

Chapter 4 – Coverage under the 2015 IS/MND: describes the consistency of the Sewer Improvement Project with the 2015 IS/MND and includes an environmental checklist for each resource topic. This section of the addendum analyzes the potential effects on the existing physical environment from implementation of the proposed modifications, as compared to the approved 2015 Project. This analysis has been prepared to determine whether any of the conditions described above that would require preparation of a subsequent or supplemental MND would occur as a result of the project modification.

Chapter 5 – Applicable 2015 IS/MND Mitigation Measures: lists adopted mitigation measures from the 2015 IS/MND that are applicable to, and would be required for, the Sewer Improvement Project.

Chapter 6 - References: lists references used in the preparation of this document.

3 PROJECT DESCRIPTION

3.1 LOCATION

The Markleeville Sewer Pump Station Relocation and Improvements Project site is located in the town of Markleeville, Alpine County, California (Figure 3-1). Markleeville is approximately 8 miles southwest of the Nevada border and 20 miles south of Lake Tahoe. The project site is located on the north side of State Route (SR) 89, and found on the Markleeville USGS Quadrangle map, NE ¼ of the SE ¼ of Section 21, T10N, R20E MDBM.

The project site is located immediately east of the Alpine County Administration Center along Markleeville Creek near its confluence with Millberry Creek. Land uses to the west are commercial and public institutional in downtown Markleeville, while those to the south are residential. Land uses to the north and east are a mix of rural agricultural, public institutional (the wastewater treatment plant), and open space/recreation.

3.2 PROJECT SITE

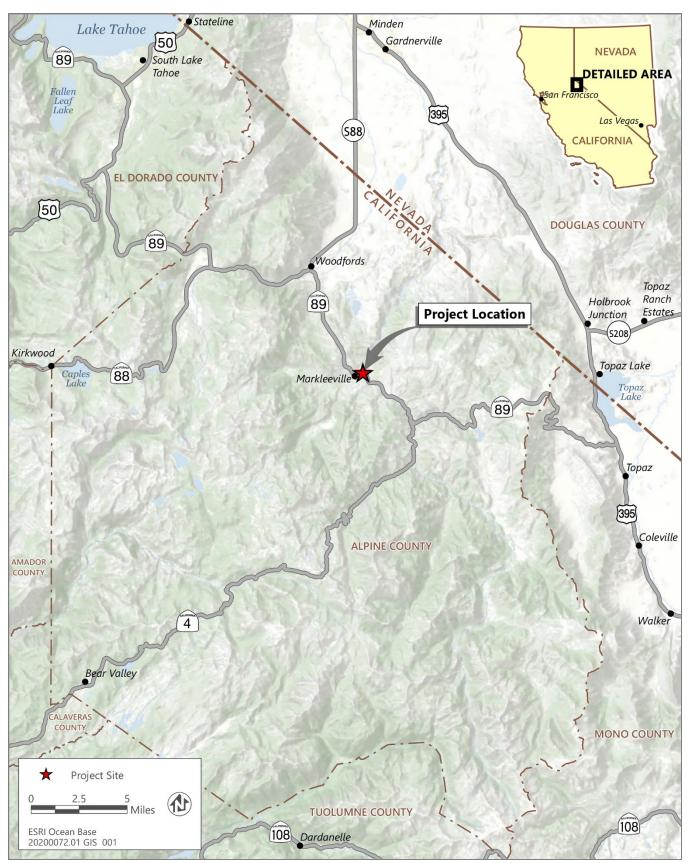
The project site covers approximately 4.5 acres (see Figure 3-2), that formerly housed the USFS Markleeville Guard Station. The site includes Markleeville Creek and immediate adjacent areas downstream of the SR 89 bridge and Millberry Creek downstream of the MPUD access road to its confluence with Markleeville Creek. The parcels within the project boundary are primarily owned by the County (Assessor's Parcel Numbers [APNs] 002-280-002-0, 002-280-003-0, 002-280-005-0, 002-280-006-0, and include a portion of a private parcel along the MPUD access road (002-260-002-0). The MPUD holds access easements along all pipelines and a blanket access easement that includes the access road. The southern portion of the project site is at and may include portions of the Caltrans right-of-way (ROW) along SR 89.

3.3 PROJECT BACKGROUND

The project site is prone to seasonal flooding and has been highly altered since the 1930s to reduce flooding risk and allow for development on the site. Alterations have included rock floodwalls installed to isolate the floodplain and clearing and grading of the area. Despite these alterations, the site remains subject to significant and repeated flooding during major storm events, having been inundated at least five times from 1937 to 2005. Following a flood in 1997, additional rock gabion slope stabilization measures were completed along the left bank of Markleeville Creek to protect the road, sewer force main, and the USFS campground waterline. However, while the site is protected during 2- and 5-year events, it remains vulnerable to inundation during 10-year or greater events. During flooding conditions, the MPUD access road provides limited access to large vehicles. Some sewage infrastructure is completely inaccessible during flooding events, including several of the existing sewer manholes and the MPUD sewer pump station. Equipment failure or other maintenance issues that could not be resolved during an impassable flood could result in creek contamination.

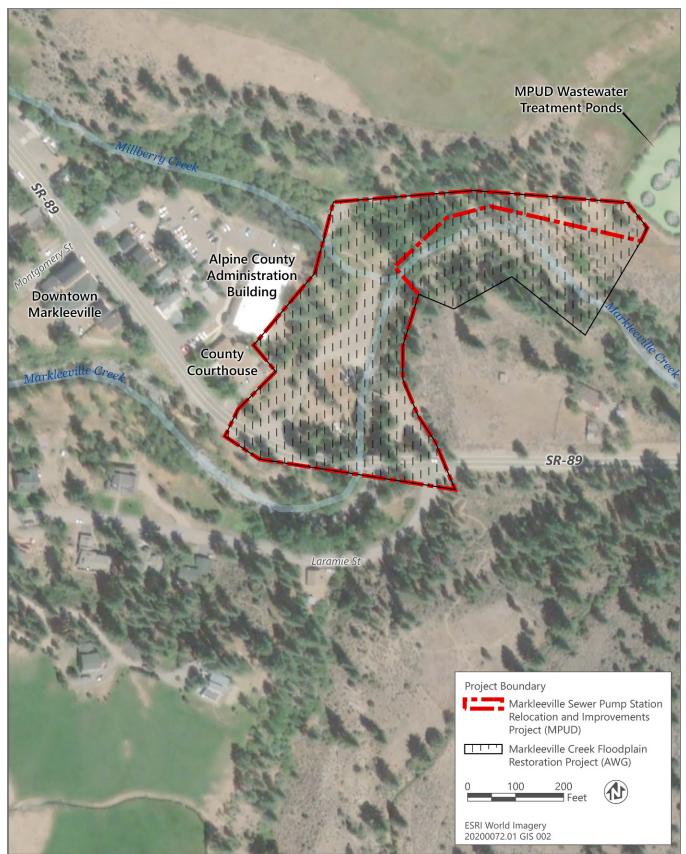
The sewer infrastructure modifications are needed to extend the lifespan of MPUD sewer facilities; improve reliability; provide safer year-round accessibility; and reduce the probability of water quality risks posed by continued exposure of the aging pipes, manholes, and pump station to flooding. Changes to the sewer system infrastructure on the project site are a necessary prerequisite for implementation of the remainder of the previously-approved 2015 project: AWG's Markleeville Creek Floodplain Restoration Project, which includes the floodplain restoration and the public access facilities.

Project Description



Source: adapted by Ascent Environmental in 2020

Figure 3-1 Project Location



Source: Data received from Bennett Engineering in 2020

Figure 3-2 Project Area

3.4 PROJECT OBJECTIVES

Consistent with the project objectives stated in the 2015 IS/MND, the objectives of the Markleeville Sewer Pump Station Relocation and Improvements Project are to:

- ► relocate key sewer system infrastructure out of the floodplain;
- reduce the potential for sewer system overflows;
- replace aging pipes, manholes and pump stations to extend their lifespan;
- reduce the threat of water quality impairments from flooding, leaks or spills; and
- ► provide safe access to sewer system infrastructure during all weather conditions.

3.5 PROJECT ELEMENTS

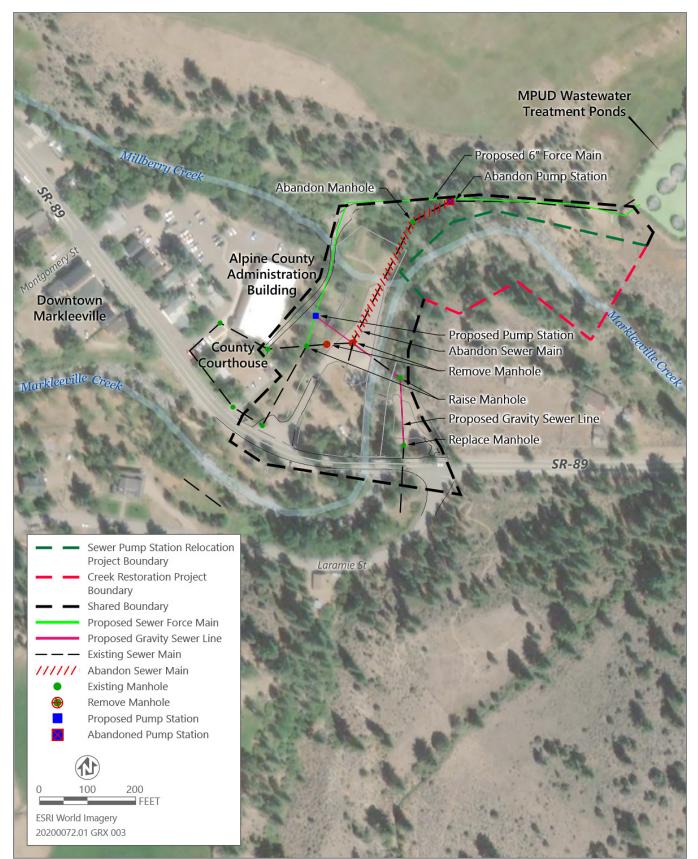
Consistent with the MPUD sewer system modifications evaluated in the 2015 IS/MND, the project includes replacement and relocation of sewer pipelines; construction of a new pump station along the new pipeline alignment; and modification of the access road location, profile, and drainage facilities. All new surface sewer facilities would be constructed 1 to 2 feet above the projected 100-year flood level to prevent future inundation. Figure 3-3 shows the current site plan of the proposed sewer system modifications, which is consistent with the plan evaluated in the 2015 IS/MND, but refined based additional engineering, avoidance of a historic wall near the Markleeville Courthouse, and avoidance of trenching across Markleeville Creek.

3.5.1 Replacement and Relocation of Sewer infrastructure

The project would involve the abandonment, removal, and replacement of various sewer pipelines and manholes. Abandonment of selected infrastructure would be consistent with federal and state regulations. With the exception of the 8-inch concrete-encased steel gravity pipe that crosses Markleeville Creek, which would remain in use, no infrastructure located within 2 feet of the finished grade would be abandoned in place. Selected infrastructure would be removed and properly disposed offsite, including any special disposal measures for asbestos-lined concrete pipes. Based on the site history, it is possible that some remnant infrastructure or materials could be present within the site. Any remnant infrastructure or materials would be inspected, removed, and disposed of safely.

The specific abandonment, removal, and replacement of sewer infrastructure includes the following elements.

- Decommission, abandon, and remove the existing sewer pump station, including the removal of all equipment and backfilling the pump station and screening manhole per industry standards.
- Abandon in place approximately 380 feet of existing 8-inch gravity sewer pipe that connects to the existing sewer pump station to the west of Markleeville Creek. The abandonment would be done by cutting the pipe ends, filling the pipe with concrete, and capping both ends of the pipe. The pipe is at a depth of approximately 7.5 feet below ground surface (bgs).
- ► Remove and replace two manholes west of Markleeville Creek.
- Remove approximately 150 feet of gravity sewer pipe and replace with new 8-inch PVC gravity sewer pipe west of Markleeville Creek at a depth of 5 to 15 feet below finished grade.
- Remove approximately 160 feet of gravity sewer pipe and replace with new 8-inch PVC gravity sewer pipe east of Markleeville Creek at a depth of 5 to 10 feet below finished grade.
- ► Replace one standard sewer manhole and one sewer drop manhole east of Markleeville Creek.



Source: Image produced in 2014 by Cardno Entrix; line work provided by BEN|EN in 2020

Figure 3-3 Sewer System Modifications

- Remove approximately 390 feet of existing force main along the MPUD access road and install approximately 865 feet of new force main pipe using open trench methods. The new force main from the pump station to the wastewater treatment facility would be upsized from 6-inch pipe to 8-inch pipe to account for additional head loss and future development.
- ► The single manhole located within the 100-year floodplain (east of Markleeville Creek) would be raised a minimum of 12 inches above the 100-year floodplain elevation and fitted with a watertight lid.

3.5.2 New Pump Station

Construction of the new pump station would occur along the MPUD access road and new force main alignment. The new pump station would:

- ► Be located outside the 100-year floodplain boundary and at a finished elevation above the maximum projected 100-year flood level. The wet well structure would have a depth of approximately 30 feet below grade.
- Be located in an area that provides the necessary hydraulic grade for conveyance from gravity sewers to the pump station.
- Meet Hydraulic Design Institute specifications with pumping capacity greater than or equal to that of the existing pump station to account for additional head loss and planned future development. Pump station design would include provisions for maintaining the storage time-to-overflow in the event of a pump station failure or malfunction. Currently, time-to-overflow is a minimum of six hours during peak flow conditions, which is provided by a combination of wet well volume and lower collection piping and manholes. To maintain this time buffer, the new pump station wet well diameter or depth would be increased for storage. This improvement would provide additional safeguards and reliability for sewer function and maintain the response time necessary to procure emergency equipment and contractors in the event of a major failure or blockage.
- Provide sufficient space for MPUD operations staff and/or emergency vehicles to access and maintain the system during all weather conditions. The new pump station may have down-cast security lighting and security fencing.
- Back up generator may be installed at the new pump station location (budget permitting).

As stated above, the existing pump station would be decommissioned, abandoned, and removed, including the removal of all equipment and backfilling the pump station and screening manhole per industry standards. This would occur after the new pump station and force main are installed and operational.

3.5.3 Access Road Modifications

The MPUD access road modifications would focus on improving year-round accessibility during all weather conditions. The road modifications would:

- Relocate the MPUD access road entry point to be co-located with the proposed parking lot at the southwest corner of the site to allow for a lower gradient profile and to eliminate the need for maintenance vehicles to travel between the neighboring Alpine County courthouse and administration buildings.
- Modify the road profile and cross section to reduce the maximum road profile slope and to create a more uniform standard cross section that is approximately 12 feet wide with two percent crown and minimum cover of three feet over the new sewer.

3.5.4 Construction

Construction is anticipated to begin in summer of 2022 or 2023 depending on funding and occur over the span of approximately 20 weeks. Initial site preparation would consist of vegetation removal and clearing around work areas. Construction crews would consist of approximately ten personnel (i.e., 3 to 6 construction personnel, 1 construction

supervisor, 2 electrical/mechanical personnel, and 1 inspector) at peak construction. Construction personnel would access the site via SR 89. No closure of SR 89 nor other local streets would be required. Construction equipment, materials, and vehicle staging would occur on the project site.

Construction activities would be limited to 8:00 a.m. to 6:00 p.m. Monday through Friday and 9:00 a.m. to 3:00 p.m. on weekends to comply with the Alpine County Code construction noise exemption and minimize disruption to the community.

Construction equipment would include:

- One (1) excavator for the entire duration of the project;
- One (1) large bore drill rig for one week during construction of the new pump station;
- Twenty (20) dump truck trips for select backfill material and off-haul/disposal of materials;
- One (1) watering truck; and
- ► Four (4) materials-delivery trucks.

All construction equipment would be properly maintained and fitted with operational noise control devices, per manufacturer specifications. Equipment idling would be prohibited when equipment is not in use.

Construction would be performed in conformance with an approved stormwater pollution prevention plan (SWPPP), which shall include but not be limited to a description of best management practices to be implemented, dewatering and diversion requirements, site-specific erosion control devices.

While construction would be scheduled during a low flow time of year to minimize the potential for saturated soils and shallow groundwater, it is possible that subsurface flow would be intercepted. This would require implementation of an approved dewatering plan including proper pre-treatment of any pumped water prior to discharge.

The project would include temporary re-vegetation measures to ensure that any ground disturbance would be stabilized during the interim period before the separate floodplain restoration project begins. If floodplain restoration is not planned to occur within two growing seasons, the project would implement permanent re-vegetation in all areas where direct ground disturbance occurred.

3.5.5 Sewer System Monitoring and Maintenance

The MPUD would perform routine and any emergency inspections and repairs of the sewer system infrastructure, consistent with their current operating procedures and governing regulations. The project would not require additional staff.

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4 COVERAGE UNDER THE 2015 IS/MND

The MPUD has determined that, in accordance with PRC Section 21166 and Section 15164 of the State CEQA Guidelines, minor technical changes or additions to Alpine County's 2014 IS/MND and adopted 2015 MND (2015 IS/MND) are necessary to address the refined site plan for the *Markleeville Sewer Pump Station Relocation and Improvements Project*, which was approved as part of the *Markleeville Creek Floodplain Restoration Project*. An addendum to an adopted MND is prepared when changes to a project are required, and the changes:

- ▶ will not result in any new significant environmental effects, and/or
- will not substantially increase the severity of previously identified effects.

The environmental analysis evaluates whether, for each environmental resource topic (e.g., land use, traffic, air quality), there are any changes in the project or the circumstances under which it would be undertaken that would result in new or substantially more severe environmental impacts than considered in the 2015 IS/MND. The column headings in the environmental checklist are defined as follows:

- Impact Examined in the 2015 MND?: "Yes" is stated where the potential impacts of the project were examined in the 2015 IS/MND. This document summarizes and cross references the relevant analysis in the 2015 IS/MND.
- Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?: This question is answered with a "yes" or "no," as substantiated by the discussion provided below the table. If the response is "yes," additional CEQA analysis is required.
- ► <u>Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?</u>: This question is answered with a "yes" or "no," as substantiated by the discussion provided below the table. If the response is "yes," additional CEQA analysis is required.
- Do Mitigation Measures in the 2015 IS/MND Address and Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?: This question is answered with a "yes," "no," or "N/A," as substantiated by the discussion provided below the table. The answer N/A indicates there was no potential impact under the 2015 IS/MND and the project does not change the impact conclusion as adopted in 2015. The 2015 IS/MND mitigation measures are summarized and cross referenced, as necessary. To ensure proper implementation of the 2015 IS/MND mitigation measures, clarification and prescriptive directions have been provided herein. The mitigation measures applicable to the project are also summarized in Chapter 5 of this addendum.

The "Discussion" section in each resource topic provides substantiation of each impact conclusion. The bold impact conclusions for each checklist question are consistent with the conclusions of the 2015 IS/MND.

4.1 AESTHETICS

Section 3.1 of the 2015 IS/MND evaluates the impacts of the project on aesthetics.

4.1.1 Environmental Checklist and Discussion

	sthetics buld the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Have a substantial adverse effect on a scenic vista?	Yes	No	No	N/A
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	Yes	No	No	N/A
c)	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	Yes	No	No	N/A
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	Yes	No	No	N/A

- a) No Impact. The project site is located in downtown Markleeville, adjacent to commercial and institutional buildings, SR 89, and Markleeville and Miller Creeks. The project site has been previously disturbed and does not provide views of a scenic vista. Project construction would temporarily alter the visual character of the project site; however, the infrastructure would primarily be underground and the aboveground pump station would be similar to current conditions and located near the Alpine County Administration building to the west. Therefore, the project would not adversely affect the visual character of the site and the project would have no impact on a scenic vista. Therefore, the project would not result in a new or substantially more severe impact on a scenic vista, and no mitigation would be required.
- b) Less than Significant. As discussed in the 2015 IS/MND, SR 89 located within Alpine County is a designated state scenic highway. The project would temporarily disrupt views from SR 89 in Markleeville due to construction equipment and site disturbance. However, the project would result in underground sewer infrastructure and the above-ground pump station would be similar to current conditions and located near the Alpine County Administration building to the west. Thus, the project elements would not alter the views of divers on SR 89, nor would the project degrade or damage existing scenic resources along SR 89. The project would not result in a new or substantially more severe impact, this impact would remain less than significant, and no mitigation would be required.
- c) Less than Significant. Consisting with the 2015 IS/MND, although the project would temporary disrupt the existing visual character of the project site due to construction equipment and site disturbance, the project would not permanently degrade the visual character of the project site. The project would result in undergrounded sewer infrastructure and the new pump station would be similar to current conditions and located near the Alpine County

Administration building to the west. Therefore, the project would not result in a new or substantially more severe impact, this impact would remain less than significant, and no mitigation would be required.

d) No Impact. As discussed in the 2015 IS/MND, there would be no impact with respect to light or glare. Construction activities would occur during daylight hours and would not require nighttime lighting. Construction equipment is unlikely to have reflective surfaces and would not be a substantial source of glare in the area. The new pipelines would be underground, and consistent with current conditions of the sewer pump station, the new pump station building would not be constructed with glare-inducing materials. The new facilities would have limited exterior security lighting, which would be shielded and downcast to prevent light pollution on surrounding residences and the night sky. The project would not result in a new or substantially more severe impact and no mitigation would be required.

4.2 AGRICULTURAL AND FORESTRY RESOURCES

Section 3.2 of the 2015 IS/MND evaluates the impacts of the project on agricultural and forestry resources.

4.2.1 Environmental Checklist and Discussion

	ricultural & Forestry Resources	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
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?	Yes	No	No	N/A
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?	Yes	No	No	N/A
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	Yes	No	No	N/A
d)	Result in the loss of forest or agricultural land or conversion of forest land to non-forest use?	Yes	No	No	N/A
e)	Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	Yes	No	No	N/A

- a) No Impact. Alpine County is not included in the area mapped pursuant to the California Department of Conservation's Farmland Mapping and Monitoring Program (DOC 2016). As such, no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance is designated along the project alignment or within the project area. In addition, the project site is an existing disturbed site in Markleeville that is not in agricultural use. Consistent with the 2015 IS/MND, the project would not 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 Department of Conservation, to non-agricultural use. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- b) **No Impact.** Consistent with the 2015 IS/MND, the project would not conflict with existing zoning for agricultural use or a Williamson Act contract and there is no land under Williamson Act contract within the project site. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.

- c,d) **No Impact.** Consistent with the 2015 IS/MND, the project would not occur on designated forest land and would not convert forest land to a non-forest land use. Consistent with the 2015 IS/MND, the project would not conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned for Timberland Production(as defined by Government Code section 51104(g)). Additionally, as discussed above under criteria a) and b), the project site is not located on agricultural land and would not result in the conversion of agricultural land to a non-agricultural land use. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- e) **No Impact.** Consistent with the 2015 IS/MND, because the project involves relocating and improving existing sewer infrastructure and facilities on the project site, the project would not involve any changes that could result in conversion of farmland to non-agricultural use or conversion of forest land to non-forest use. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.

4.3 AIR QUALITY

Section 3.3 of the 2015 IS/MND evaluates the impacts of the project on air quality.

4.3.1 Environmental Checklist and Discussion

	Quality ould the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Conflict with or obstruct implementation of the applicable air quality plan?	Yes	No	No	N/A
b)	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	Yes	No	No	Yes
c)	Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	Yes	No	No	N/A
d)	Expose sensitive receptors to substantial pollutant concentrations?	Yes	No	No	N/A
e)	Create objectionable odors affecting a substantial number of people?	Yes	No	No	N/A

The Project is located in Alpine County, which is in the northernmost section of the Great Basin Valleys Air Basin (GBVAB). The Great Basin Unified Air Pollution Control District (GBUAPCD) is the regional agency responsible for air quality planning within the GBVAB, which includes ensuring that the GBVAB is in compliance or moving towards compliance with the national ambient air quality standards (NAAQS) and California ambient air quality standards (CAAQS). The U.S. Environmental Protection Agency established NAAQS for six criteria air pollutants, which are known to be harmful to human health and the environment: carbon monoxide, lead, nitrogen dioxide, ozone, particulate matter (which is categorized into respirable particulate matter with an aerodynamic diameter less than or equal to 10 microns [PM₁₀] and fine particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in diameter [PM_{2.5}]), nitrogen dioxide, and sulfur dioxide. The State of California has established the CAAQS for these six pollutants, as well as for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. Alpine County's designation with respect to the CAAQS and NAAQS has not changed since adoption of the 2015 MND. Alpine County is currently designated as nonattainment with respect to the CAAQS for PM₁₀. The prominent sources of PM₁₀ in Alpine County are controlled burns and wildfires. The region is designated as in attainment unclassifiable with respect to the NAAQS for all other pollutants (CARB 2019).

GBUAPCD has not established significance criteria for the evaluation of air quality impacts under CEQA. However, GBUAPCD implements rules and regulations within their jurisdiction, including Rule 401, which regulates fugitive dust emissions generated by construction activities.

The 2015 IS/MND determined that operational emissions associated would be indirect and associated with the replacement of the pump station, which would have all new electrically powered equipment tied into the local utilities power supply. After project construction is completed, operational emissions from the project would be similar, if not

less than, existing conditions. Therefore, the analysis below, consistent with the analysis in the 2015 IS/MND, focuses on emissions generated by project-related construction activity.

- a) No Impact. No new air quality plans have been developed or implemented since adoption of the 2015 MND. As discussed in the 2015 IS/MND, GBUAPCD has developed four distinct air quality plans that are being implemented in specific locations within the GBVAB. None of these plans apply to locations in Alpine County, where the project is located. For this reason, the 2015 IS/MND concluded that there would be no impact regarding compliance with applicable air quality plans. The project would not result in a new or substantially more severe impact, and no mitigation would be required.
- b) Less than Significant with Mitigation. As discussed above and in the 2015 IS/MND, Alpine County is designated as nonattainment with respect to the CAAQS for PM₁₀. The 2015 IS/MND determined that project construction would generate short-term, intermittent PM₁₀ emissions, which could result in a potentially significant impact.

Mitigation Measure AQ-1 (per page 3-30 of the 2015 IS/MND)

Implementation of the air quality protection measures described in Section 2.5.17, "Air Quality Protection," of the 2015 IS/MND are required to ensure that the project does not violate any standard or contribute substantially to an existing or projected air quality violation. Air quality protection during project construction would be required to ensure particulate matter (i.e., fugitive dust) emissions would be limited. The following fugitive dust control measures, as outlined in the GBUAPCD's Rule 401, shall be implemented during construction. MPUD shall take reasonable precautions to prevent visible particulate matter from being airborne, under normal wind conditions, beyond the property from which the emission originates. Reasonable precautions include, but are not limited to:

- Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
- Application of asphalt, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can give rise to airborne dusts;
- Installation and use of hoods, fans, and fabric filters, to enclose and vent the handling of dusty materials.
 Adequate contaminant methods shall be employed during such handling operations;
- ► Use of water, chemicals, chuting, venting, or other precautions to prevent particulate matter from becoming airborne in handling dusty materials to open stockpiles and mobile equipment; and
- Maintenance of roadways in a clean condition.

With implementation of the required GBUAPCD's Rule 401 air quality protection measures, the project would result in less than significant short-term, intermittent PM_{10} emissions. Therefore, the project would not violate any standard or contribute substantially to an existing or projected air quality violation, would not result in a new or substantially more severe impact with implementation of the mitigation required in the 2015 IS/MND, and no additional mitigation is required.

- c) No Impact. As discussed under criterion b), project construction would generate short-term, intermittent emissions of PM₁₀, which is currently designated nonattainment in Alpine County with respect to the CAAQS. However, implementation of the required air quality protection measures (per Section 2.5.17, "Air Quality Protection," of the 2015 IS/MND) during construction would minimize particulate matter and fugitive dust emissions, and construction emissions would be short-term and intermittent. For these same reasons, the 2015 IS/MND concluded that the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- d) **No Impact.** Sensitive receptors are generally considered to include those land uses where exposure to pollutants could result in health-related risks to sensitive individuals. Residential dwellings, schools, hospitals, playgrounds, and similar facilities are of primary concern because of the presence of individuals particularly sensitive to

pollutants, such as children and the elderly, and the potential for these individuals to experience increased and prolonged exposure to pollutants. The closest sensitive receptors to the project site are single-family residences located south of the project site on the opposite side of SR 89. These residences are located 230 feet or further from where project construction activity would occur, which provides a buffer distance for any pollutants emitted during construction to dissipate. Additionally, as discussed in the 2015 IS/MND, the project would not generate any permanent, long-term substantial pollutant concentrations because project operation would result in very limited emissions. The project would not result in a new or substantially more severe impact, and no mitigation would be required.

e) Less than Significant. As discussed in the 2015 IS/MND, the project involves modifications to existing sewer infrastructure, resulting in improvements to the sewer system that would reduce the potential for future sewer system overflows that could create objectionable odors. Thus, the project would provide a long-term net benefit. Any odors generated by construction equipment or activities would be temporary and localized, and thus, would not affect nearby land uses for an extended period of time or affect a substantial number of people. The project would not result in a new or substantially more severe impact, and no mitigation would be required.

4.4 BIOLOGICAL RESOURCES

Section 3.4 of the 2015 IS/MND evaluates the impacts of the project on biological resources.

4.4.1 Environmental Checklist and Discussion

Bic	ological Resources	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant	Do Any New Circumstances Involve New or Substantially More Severe Significant	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More	
Wo	ould the Project		Impacts?	Impacts?	Substantially More Severe?	
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?	Yes	No	No	Yes	
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?	Yes	No	No	Yes	
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?	Yes	No	No	Yes	
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?	Yes	No	No	Yes	
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	Yes	No	No	N/A	
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?	Yes	No	No	N/A	

a) Less than Significant with Mitigation. The 2015 IS/MND evaluated impacts on special-status species and concluded that there was a potentially significant impact related to special-status plants, special-status wildlife, as well as raptors and migratory birds protected by California Fish and Game Code and the Migratory Bird Treaty Act.

New biological database searches were conducted for the Markleeville Sewer Pump Station Relocation Project. The California Natural Diversity Database (CNDDB), California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants, and U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) records were reviewed for special-status wildlife and plants in September and November of 2020 (CNDDB 2020, CNPS 2020, USFWS 2020). No additional special-status species or other changes were identified in the USFWS search results (USFWS 2020). The CNDDB and CNPS inventory searches were increased from a search of the Markleeville USGS quadrangle to a search of the nine USGS quadrangles surrounding the project site (i.e., Freel Peak, Woodfords, Carters Station, Carson Pass, Markleeville, Heenan Lake, Wolf Creek, Ebbetts Pass, Pacific Valley; CNDDB 2020, CNPS 2020). The updated records search results are included in Appendix A. Based on a review of database search results, documented species ranges, and habitat within the project site as confirmed during a site visit by an Ascent Environmental biologist on October 2, 2020, nine special-status plant species and 10 special-status wildlife species may occur on the project site (CNDDB 2020, CNPS 2020).

Special-Status Plants

The nine special-status plant species that may occur on the project site are: mountain bent grass, upswept moonwort, Davy's sedge, porcupine sedge, Liddon's sedge, western valley sedge, marsh willowherb, Blandow's bog moss, and alder buckthorn (Table 4-1, CNDDB 2020, CNPS 2020). Habitat suitable for these species (i.e. creeks, seeps, scrub, forest) is present near Markleeville Creek and in undeveloped areas of the project site. Consistent with the 2015 IS/MND, no special-status plants were observed during biological reconnaissance survey of the project site.

Species	Listing Status ¹ Federal	Listing Status ¹ State	CRPR	Habitat	Potential for Occurrence
Mountain bent grass Agrostis humilis	_	_	2B.3	Alpine boulder and rock field, meadows and seeps, subalpine coniferous forest. Sometimes on calcareous substrates. 5,003–11,155 feet in elevation. Blooms July–September.	May occur. The project site contains seep habitat potentially suitable for this species.
Upswept moonwort Botrychium ascendens	_	_	2B.3	Grassy fields or conifer forests near springs and creeks, meadows and seeps. 4,920–10,712 feet in elevation. Blooms July–August.	May occur. The project site contains conifer forest habitat near creeks (i.e., Markleeville Creek) that may be suitable for this species.
Davy's sedge Carex davyi	_		1B.3	Subalpine coniferous forest, upper montane coniferous forest, typically in dry, sparse meadows. 4,790–10,597 feet in elevation. Blooms May–August.	May occur. The project site contains forest habitat potentially suitable for this species.
Porcupine sedge Carex hystericina	_		2B.1	Wet places, such as stream edges. 1,985–3,150 feet in elevation. Blooms May–June.	May occur. The project site contains creek habitat (i.e., Markleeville Creek) and associated wet areas potentially suitable for this species.
Mud sedge Carex limosa	_		2B.2	In floating bogs and soggy meadows and edges of lakes. 4,495–9,154 feet in elevation. Blooms June–August.	Not expected to occur. The project site does not contain bog, meadow, or lake habitat.
Liddon's sedge Carex petasata	_		2B.3	Broadleafed upland forest, lower montane coniferous forest, meadows and seeps, pinyon and juniper woodland. 2,740–9,941 feet in elevation. Blooms May–July.	May occur. The project site contains forest and seep habitat potentially suitable for this species.
Western valley sedge Carex vallicola			2B.3	Great Basin scrub, meadows, and seeps. Mesic sites. 5,003–9,203 feet in elevation. Blooms July– August.	May occur. The project site contains scrub and seep habitat potentially suitable for this species.

Table 4-1Special-Status Plant Species Known to Occur in the Vicinity of the Project Site and Potential for
Occurrence in the Project Site

Species	Listing Status ¹ Federal	Listing Status ¹ State	CRPR	Habitat	Potential for Occurrence
Alpine dusty maidens Chaenactis douglasii var. alpina	_		2B.3	Open, subalpine to alpine gravel and crevices; granitic substrate. 7,749–11,007 feet in elevation. Blooms July–September.	Not expected to occur. The project site does not contain gravel or rocky crevice habitat suitable for this species.
Fell-fields claytonia Claytonia megarhiza	_		2B.3	In the crevices between rocks, rocky or gravelly soil. 8,530–10,942 feet in elevation. Blooms July– September.	Not expected to occur. The project site is outside of the elevation range of this species.
Great Basin claytonia Claytonia umbellata	_	_	2B.3	Subalpine coniferous forest. Talus slopes, stony flats, crevices. 5,594–11,483 feet in elevation. Blooms May–August.	Not expected to occur. The project site does not contain talus slope habitat.
Fiddleleaf hawksbeard Crepis runcinata	_		2B.2	Moist, alkaline valley bottoms. 1,247–10,203 feet in elevation. Blooms May–August.	Not expected to occur. The project site does not contain alkaline valley bottom habitat suitable for this species.
Subalpine cryptantha Cryptantha crymophila	_		1B.3	Subalpine coniferous forest. On dry talus of volcanic formation. 8,793–10,810 feet in elevation. Blooms July–August.	Not expected to occur. The project site does not contain talus slope habitat and is outside of the elevation range of this species.
Tahoe draba Draba asterophora var. asterophora	_		1B.2	On open talus slopes, rock outcrops, and crevices. On decomposed granite. 9,088–11,499 feet in elevation. Blooms July–August.	Not expected to occur. The project site does not contain talus slope or rock outcrop habitat and is outside of the elevation range of this species.
Tall draba Draba praealta	_		2B.3	Mesic sites. 8,202–11,204 feet in elevation. Blooms July–August.	Not expected to occur. The project site is outside of the elevation range of this species.
Scribner's wheat grass Elymus scribneri	_	_	2B.3	On rocky slopes. 9,514–13,780 feet in elevation. Blooms July–August.	Not expected to occur. The project site is outside of the elevation range of this species.
Marsh willowherb Epilobium palustre	_	_	2B.3	Mesic sites. 5,430–7,710 feet in elevation. Blooms July–August.	May occur. The project site contains mesic habitat associated with Markleeville Creek potentially suitable for this species.
Jack's wild buckwheat Eriogonum luteolum var. saltuarium			1B.2	Sandy, granitic substrates. 5,577–7,874 feet in elevation. Blooms July–September.	Not expected to occur. The project site does not contain sandy, rocky habitat and is outside of the known range of this species.
Carson Valley monkeyflower Erythranthe carsonensis	—		1B.1	Granitic openings. 4,856–4,856 feet in elevation. Blooms April–June.	Not expected to occur. The project site is outside of the known range of this species.
Blandow's bog moss Helodium blandowii	—		2B.3	Moss growing on damp soil, especially under willows among leaf litter. 6,109–8,858 feet in elevation.	May occur. The project site contains damp soil habitat and willows.
Robbins' pondweed Potamogeton robbinsii	-	—	2B.3	Deep water, lakes. 5,020–10,827 feet in elevation. Blooms July–August.	Not expected to occur. The project site does not contain lake habitat.

Species	Listing Status ¹ Federal	Listing Status ¹ State	CRPR	Habitat	Potential for Occurrence
Alder buckthorn Rhamnus alnifolia	_	_	2B.2	Mesic sites. 4,692–7,005 feet in elevation. Blooms May–July.	May occur. The project site contains mesic habitat associated with Markleeville Creek potentially suitable for this species.
Water bulrush Schoenoplectus subterminalis	_	_	2B.3	Montane lake margins, in shallow water. 2,461– 7,382 feet in elevation. Blooms June–August.	Not expected to occur. The project site does not contain montane lake habitat.
Cream-flowered bladderwort Utricularia ochroleuca	—		2B.2	Mesic sites, including lake margins. 4,298–7,710 feet in elevation. Blooms June–July.	Not expected to occur. The project site is outside of the known range of this species.
Golden violet <i>Viola purpurea</i> ssp. aurea			2B.2	Great Basin scrub, pinyon-juniper woodland. Dry, sandy slopes. 3,281–8,202 feet in elevation. Blooms April–June.	Not expected to occur. The project site is outside of the known range of this species.

Notes: CRPR = California Rare Plant Rank; CESA = California Endangered Species Act; CEQA = California Environmental Quality Act; ESA = Endangered Species Act; NPPA = Native Plant Protection Act

Legal Status Definitions

California Rare Plant Ranks:

- 1A Plant species that are presumed extirpated or extinct because they have not been seen or collected in the wild in California for many years. A plant is extinct if it no longer occurs anywhere. A plant that is extirpated from California has been eliminated from California but may still occur elsewhere in its range.
- 1B Plant species considered rare or endangered in California and elsewhere (protected under CEQA, but not legally protected under ESA or CESA).
- 2B Plant species considered rare or endangered in California but more common elsewhere (protected under CEQA, but not legally protected under ESA or CESA).

Threat Ranks:

- 0.1 Seriously threatened in California (over 80% of occurrences threatened; high degree and immediacy of threat)
- 0.2 Moderately threatened in California (20-80% occurrences threatened; moderate degree and immediacy of threat)

0.3 Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known) Sources: CNDDB 2020; CNPS 2020

Due to the potential for special-status plant species to occur on the project site, project construction disturbance has the potential to result in a potentially significant impact on special-status plants.

Mitigation Measure BIO-1 - Pre-construction plant survey within the project disturbance footprint shall be conducted a qualified biologist to identify any special status plants and create construction exclusion areas.

Mitigation Measure BIO-1a – Conduct Special-Status Plant Surveys and Implement Avoidance Measures and Mitigation

Prior to implementation of project activities and during the period when special-status plant species with potential to occur in the project site (Table 4-2) are most identifiable (generally, the blooming period of flowering plants or sporophyte period of bryophytes), a qualified botanist will conduct protocol-level surveys for special-status plants within the project site following survey methods from the CDFW Protocols for Surveying and Evaluating Impacts on Special Status Native Plant Populations and Natural Communities (CDFW 2018). The qualified botanist will 1) be knowledgeable about plant taxonomy, 2) be familiar with plants of the Sierra Nevada region, including special-status plants and sensitive natural communities, 3) have experience conducting floristic botanical field surveys as described in CDFW 2018, 4) be familiar with the *California Manual of Vegetation* (Sawyer et al. 2009 or current version, including updated natural communities data at http://vegetation.cnps.org/), and 5) be familiar with federal and state statutes and regulations related to plants and plant collecting.

- ► If special-status plants are not found, the botanist will document the findings in a letter report to MPUD and no further mitigation will be required.
- If special-status plant species are found, the occupied habitat will be avoided completely, if feasible (i.e., project objectives can still be met). This may include establishing a no-disturbance buffer around the plant population and demarcation of this buffer by a qualified botanist using flagging or high-visibility construction fencing. The size of the buffer will be determined by the qualified botanist and will be large enough to avoid direct or indirect impacts on the plant.

Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mountain bent grass							Х	Х	Х			
Upswept moonwort							Х	Х				
Davy's sedge					Х	Х	Х	Х				
Porcupine sedge					Х	Х						
Liddon's sedge					Х	Х	Х					
Western valley sedge							Х	Х				
Marsh willowherb							Х	Х				
Blandow's bog moss ²	_	_		_	_	_			_			_
Alder buckthorn					Х	Х	Х					

 Table 4-2
 Typical Blooming Period for Special-Status Plants that May Occur within the Project Site¹

¹ Blooming periods vary annually based on annual climatic variation and across species range. It is essential to base survey timing on current conditions in the survey year and it is recommended that reference populations are visited to verify species are identifiable during the survey period.

² Non-blooming bryophyte species

Source: Data compiled by Ascent Environmental in 2021; CNPS 2020

- ► If special-status plants are found during rare plant surveys and cannot be avoided, MPUD will consult with CDFW or U.S. Fish and Wildlife Service (USFWS), as appropriate depending on species status, to determine the compensation necessary to achieve no net loss of occupied habitat or individuals. Mitigation measures may include, but are not limited to, preserving and enhancing existing populations, creating off-site populations on mitigation sites through seed collection or transplantation at a 1:1 ratio, and restoring or creating suitable habitat in sufficient quantities to achieve no net loss of occupied habitat or individuals. Potential mitigation sites could include suitable locations within or outside of the project site. MPUD will develop and implement a site-specific mitigation strategy describing how unavoidable losses of special-status plants will be compensated. Success criteria for preserved and compensatory populations will include:
 - The extent of occupied area and plant density (number of plants per unit area) in compensatory
 populations will be equal to or greater than the affected occupied habitat.
 - Compensatory and preserved populations will be self-producing. Populations will be considered selfproducing when:
 - plants reestablish annually for a minimum of five years with no human intervention such as supplemental seeding; and
 - reestablished and preserved habitats contain an occupied area and flower density comparable to existing occupied habitat areas in similar habitat types in the project vicinity.
 - If off-site mitigation includes dedication of conservation easements, purchase of mitigation credits, or other off-site conservation measures, the details of these measures will be included in the mitigation plan, including information on responsible parties for long-term management, conservation easement holders, long-term management requirements, success criteria such as those listed above and other details, as appropriate to target the preservation of long-term viable populations.

Implementation of 2015 IS/MND Mitigation Measures BIO-1 and BIO-1a, which would require protocol-level special-status plant surveys and protection measures if special-status plants are identified prior to implementation of project activities would reduce impacts on special-status plant species to less than significant. The findings of the 2015 IS/MND remain valid and no additional mitigation is required.

Special-Status Wildlife

Special-status wildlife that may occur or are known to occur on the project site are Lahontan cutthroat trout, mountain sucker, mountain whitefish, pallid bat, ringtail, Sierra Nevada mountain beaver, Sierra Nevada snowshoe hare, Townsend's big-eared bat, western red bat, and western white-tailed jackrabbit (Table 4-3, CNDDB 2020, USFWS 2020). Additionally, as identified in the 2015 IS/MND, nesting birds protected by California Fish and Game Code and the federal Migratory Bird Treaty Act may also occur on the project site.

Three special-status fish have potential to occur or are known to occur in the portion of Markleeville Creek within the project site: Lahontan cutthroat trout, mountain sucker, and mountain whitefish (Table 4-3). Experts, including the UC Davis Center for Watershed Sciences, U.S. Forest Service, CDFW, and the National Oceanic and Atmospheric Administration, have established the range for Lahontan cutthroat trout, which currently includes Markleeville, and the portion of Markleeville Creek within the project site (BIOS 2014). Lahontan cutthroat trout are known to occur in the East Fork Carson River and there are no significant barriers to aquatic movement between the East Fork Carson River and Markleeville Creek, which feeds into the East Fork Carson River approximately 1.6 miles northeast of the project site. No in-water work is proposed in Markleeville Creek; however, project activities in the vicinity of the creek could result in inadvertent introduction of silt or other materials into the creek, potentially affecting water quality, which could result in adverse effects on special-status fish. The 2015 IS/MND Hydrology and Water Quality section identified temporary erosion/runoff best management control measures (e.g., straw wattles, straw bales, secondary containment for storage of fuel and oil), which would reduce potential impacts on special-status fish to less than significant.

Species	Listing Status ¹ Federal	Listing Status ¹ State	Habitat	Potential for Occurrence
Amphibians and Reptiles				
Northern leopard frog Lithobates pipiens		SSC	Native range is east of Sierra Nevada- Cascade Crest. Near permanent or semi- permanent water in a variety of habitats. Highly aquatic species. Shoreline cover, submerged and emergent aquatic vegetation are important habitat characteristics.	Not expected to occur. The project site is outside of the known range of this species.
Sierra Nevada yellow-legged frog <i>Rana sierrae</i>	FE	ST	Always encountered within a few feet of water. Tadpoles may require 2 to 4 years to complete their aquatic development.	Not expected to occur. The project site is outside of the known range of this species.
Southern long-toed salamander Ambystoma macrodactylum sigillatum	_	SSC	High elevation wet meadows and lakes in the Sierra Nevada, Cascade, and Klamath mountains. Aquatic larvae occur in ponds and lakes. Outside of breeding season adults are terrestrial and associated with underground burrows of mammals and moist areas under logs and rocks.	Not expected to occur. The project site does not contain wet meadow, lake, or pond habitat suitable for this species.

Table 4-3Special-Status Wildlife Species Known to Occur in the Vicinity of the Project Site and Potential
for Occurrence in the Project Site

Species	Listing Status ¹ Federal	Listing Status ¹ State	Habitat	Potential for Occurrence
Southern mountain yellow- legged frog <i>Rana muscosa</i>	FE	SE	Federal listing refers to populations in the San Gabriel, San Jacinto and San Bernardino Mountains (southern DPS). Northern DPS was determined to warrant listing as endangered, April 2014, effective June 30, 2014. Always encountered within a few feet of water. Tadpoles may require 2 - 4 years to complete their aquatic development.	Not expected to occur. The project site is outside of the known range of this species.
Yosemite toad Anaxyrus canorus	FT	SSC	Vicinity of wet meadows in central High Sierra, 6,400 to 11,300 feet in elevation. Primarily montane wet meadows; also in seasonal ponds associated with lodgepole pine and subalpine conifer forest.	Not expected to occur. The project site does not contain wet meadow or seasonal pond habitat suitable for this species.
Birds		-		
Bald eagle Haliaeetus leucocephalus	FD	SE FP	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water. Nests in large, old- growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	Not expected to occur. The project site does not contain large, old growth trees or snags suitable for this species.
Black swift Cypseloides niger	-	SSC	Coastal belt of Santa Cruz and Monterey County; central and southern Sierra Nevada; San Bernardino and San Jacinto Mountains. Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely	Not expected to occur. The project site does not contain cliff or canyon habitat suitable for this species.
California spotted owl Strix occidentalis	_	SSC	Mixed conifer forest, often with an understory of black oaks and other deciduous hardwoods. Canopy closure greater than 40 percent. Most often found in deep-shaded canyons, on north-facing slopes, and within 300 meters of water.	Not expected to occur. The forest habitat within the project is generally not characterized by high canopy closure or late seral forest features (e.g., old growth trees and snags, coarse woody debris).
Golden eagle Aquila chrysaetos	-	FP	Rolling foothills, mountain areas, sage- juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Not expected to occur. The project site does not contain large trees or snags suitable for this species.
Great gray owl Strix nebulosa	-	SE	Resident of mixed conifer or red fir forest habitat, in or on edge of meadows. Requires large diameter snags in a forest with high canopy closure, which provide a cool sub-canopy microclimate.	Not expected to occur. The project site does not contain large trees or snags suitable for this species.
Northern goshawk Accipiter gentilis	_	SSC	Within, and in vicinity of, coniferous forest. Uses old nests and maintains alternate sites. Usually nests on north slopes, near water. Red fir, lodgepole pine, Jeffrey pine, and aspens are typical nest trees.	Not expected to occur. The project site does not contain large trees or snags suitable for this species.

Species	Listing Status ¹ Federal	Listing Status ¹ State	Habitat	Potential for Occurrence
Purple martin Progne subis	_	SSC	Inhabits woodlands, low elevation coniferous forest of Douglas-fir, ponderosa pine, and Monterey pine. Nests in old woodpecker cavities mostly, also in human-made structures. Nest often located in tall, isolated tree/snag.	Not expected to occur. The project site is outside of the known range of this species.
Willow flycatcher Empidonax traillii	-	SE	Inhabits extensive thickets of low, dense willows on edge of wet meadows, ponds, or backwaters; 2,000-8,000 feet elevation. Requires dense willow thickets for nesting/roosting. Low, exposed branches are used for singing posts/hunting perches.	Not expected to occur. Riparian habitat associated with Markleeville Creek does not provide sufficient cover or the habitat components (e.g., meadow, marsh) preferred by this species.
Fish				
California golden trout Oncorhynchus mykiss aguabonita	_	SSC	Native to Kern Plateau in wide, shallow, and exposed streams with little riparian vegetation. Transplanted within and outside of California beyond native range. Stream bottoms of sand, gravel, and some cobble. Water is clear and usually cold, but summer temperatures can vary from 3 to 22 Celsius.	Not expected to occur. The project site is outside of the known range of this species.
Lahontan cutthroat trout Oncorhynchus clarkii henshawi	FT	_	Historically in all accessible cold waters of the Lahontan Basin in a wide variety of water temperatures and conditions. Cannot tolerate presence of other salmonids. Requires gravel riffles in streams for spawning.	May occur. The project site is within the current range of Lahontan cutthroat trout and the portion of Markleeville Creek in the project site provides habitat potentially suitable for this species (BIOS 2014).
Mountain sucker Catostomus platyrhynchus	_	SSC	Restricted to the Lahontan drainage system and the north fork of the Feather River. Generally occupy pool-like habitats. Abundance greatest in areas with dense cover.	Known to occur. Mountain sucker has been documented within Markleeville Creek (CNDDB 2020).
Mountain whitefish Prosopium williamsoni	_	SSC	Mountain whitefish in California inhabit clear, cold streams and rivers at elevations of 4,500–7,600 feet. While they are known to occur in a few natural lakes (e.g., Lake Tahoe), there are few records from reservoirs. In streams, they are generally associated with large pools (i.e., less than 3 feet deep) or deep runs.	Known to occur. Mountain whitefish has been documented within Markleeville Creek (CNDDB 2020).

Species	pecies Listing Listing Status ¹ Status ¹ Habitat Federal State		Habitat	Potential for Occurrence
Invertebrates				
Western bumble bee Bombus occidentalis	oumble bee – SC Bumble bees have three basic habitat		requirements: suitable nesting sites for the colonies, availability of nectar and pollen from floral resources throughout the duration of the colony period (spring, summer, and fall), and suitable	Not expected to occur. The project site is within the historic range of this species and there is one historic (1948) occurrence of the species within approximately 8 miles north of the project site (CNDDB 2020). However, western bumble bee has recently undergone a decline in abundance and distribution and is no longer present across much of its historic range. In California, western bumble bee populations are currently largely restricted to high elevation sites in the northern Sierra Nevada and a few locations on the northern California coast (Xerces Society 2018).
Mammals	1	1		
American badger <i>Taxidea taxus</i>	_	SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils, and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Not expected to occur. While the project site has some areas containing scrub or forest habitat, these areas are surrounded by development (e.g., buildings, roads), and unlikely to provide contiguous habitat suitable for American badger.
California wolverine Gulo	-	ST FP	Found in the north coast mountains and the Sierra Nevada. Found in a wide variety of high elevation habitats. Needs water source. Uses caves, logs, burrows for cover and den area. Hunts in more open areas. Can travel long distances.	Not expected to occur. While the project site is located within the historic range of this species, the only known wolverine in California was last detected in Tahoe National Forest near Truckee. This detection is a significant distance from the project site (i.e., greater than 50 miles) and the likelihood of this individual dispersing to the project site is extremely low.
Fisher - West Coast DPS Pekania pennanti	FE	SSC	Uses cavities, snags, logs and rocky areas for cover and denning. Needs large areas of mature, dense forest. Endangered status applies to Southern Sierra DPS.	Not expected to occur. Fisher is considered to be extirpated from most of the northern and central Sierra Nevada (Zielinski et al. 1995; Sweitzer et al. 2015) and has not been detected within or in the vicinity of the project site since the late 1970s (CNDDB 2020).
Pallid bat Antrozous pallidus	_	SSC	Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	May occur. The project site contains trees that may provide roost habitat potentially suitable for this species.
Ringtail Bassariscus astutus	-	FP	Riparian habitats, forest habitats, and shrub habitats in lower to middle elevations. Hollow trees, logs, snags, cavities in talus and other rocky areas, and other recesses are used for cover. Usually found within 0.6 mile of a permanent water source.	May occur. The riparian habitat associated with Markleeville Creek and forest habitat within the project site may provide habitat potentially suitable for ringtail.
Sierra Nevada mountain beaver <i>Aplodontia rufa californica</i>	_	SSC	Dense growth of small deciduous trees and shrubs, wet soil, and abundance of forbs in the Sierra Nevada and east slope. Needs dense understory for food and cover. Burrows into soft soil. Needs abundant supply of water.	May occur. Riparian habitat potentially suitable for Sierra Nevada mountain beaver is present along Markleeville Creek.

Species	Listing Status ¹ Federal	Listing Status ¹ State	Habitat	Potential for Occurrence
Sierra Nevada red fox <i>Vulpes necator</i>	FC	ST	Historically found from the Cascades down to the Sierra Nevada. Found in a variety of habitats from wet meadows to forested areas. Use dense vegetation and rocky areas for cover and den sites. Prefer forests interspersed with meadows or alpine fell-fields.	Not expected to occur. The project site may be within the historic range of Sierra Nevada red fox; however, only two small populations of the species are currently known: one near Lassen Peak and one near Sonora Pass. This species is currently unlikely to occur in the vicinity of the project site.
Sierra Nevada snowshoe hare Lepus americanus tahoensis	-	SSC	Boreal riparian areas in the Sierra Nevada. Thickets of deciduous trees in riparian areas and thickets of young conifers.	May occur. The project site contains deciduous tree thicket habitat and nearby riparian habitat potentially suitable for this species.
Townsend's big-eared bat Corynorhinus townsendii	_	SCC	Throughout California in a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance.	May occur. The project site contains bridges and buildings that may provide roost habitat potentially suitable for this species.
Western red bat Lasiurus blossevillii	_	SSC	Roosts primarily in foliage of trees, 2-40 feet above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	May occur. The project site contains trees that may provide roost habitat potentially suitable for this species.
Western white-tailed jackrabbit <i>Lepus townsendii</i>	_	SSC	Open areas with scattered shrubs and exposed flat-topped hills with open stands of trees, brush, and herbaceous understory.	May occur. The project site contains brush and forest habitat potentially suitable for this species.

Notes: CNDDB = California Natural Diversity Database; CEQA = California Environmental Quality Act

¹ Legal Status Definitions

Federal:

- FE Federally Listed as Endangered (legally protected)
- FT Federally Listed as Threatened (legally protected)
- FC Federal Candidate for listing (legally protected)
- FD Federally Delisted

State:

- FP Fully protected (legally protected)
- SSC Species of special concern (no formal protection other than CEQA consideration)
- SE State Listed as Endangered (legally protected)
- ST State Listed as Threatened (legally protected)
- SC State Candidate for listing (legally protected)

Sources: CNDDB 2020; Sweitzer et al. 2015; USFWS 2020; Xerces 2018; Zielinski et al. 1995

Due to the potential for special-status wildlife species to occur on the project site, project construction disturbance has the potential to result in a potentially significant impact on special-status plants.

Mitigation Measure BIO-2 - Pre-construction wildlife and amphibian surveys of the disturbance footprint would be conducted by qualified biologists to identify any special status wildlife and amphibian species present, designate exclusion zones, and/or perform removals.

Mitigation Measure BIO-2a: Implement Limited Operating Period or Conduct Focused Surveys for Ringtail

- ► To minimize the potential for loss of ringtail and active ringtail dens, project activities (e.g., tree removal, other vegetation removal, ground disturbance, staging) within habitat potentially suitable for ringtail (i.e., forest habitat, scrub habitat, riparian habitat) will be conducted outside of the ringtail maternity season (not well defined, but approximately April 15–July 31), if feasible.
- ► If the limited operating period is not feasible, and construction activities would occur from April 15–July 31, additional preconstruction surveys would be required. No more than 30 days before initiation of project activities, within potentially suitable ringtail habitat, a qualified biologist with experience conducting ringtail surveys will conduct a focused survey for potential ringtail dens (e.g., hollow trees, snags, rock crevices) within the project site. The qualified biologist will document sightings of individual ringtails, as well as potential dens.
- If individuals or potential or occupied dens are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.
- ► If ringtails are identified or if potential dens are located, an appropriate method will be used by the qualified wildlife biologist to confirm whether a ringtail is occupying the den. This may include use of remote field cameras, track plates, or hair snares. Other devices, such as a fiber optic scope, may be utilized to determine occupancy.
 - If potential dens are not occupied, the entrances will be temporarily blocked so that no other animals
 occupy the project site during project activities, but only after it has been fully inspected. The blockage
 will be removed once the project activities are completed.
 - If a den is found to be occupied by a ringtail, a no-disturbance buffer will be established around the
 occupied den. The no-disturbance buffer will include the den tree (or other structure) plus a suitable buffer
 as determined by the biologist in coordination with CDFW. Project activities in the no-disturbance buffer
 will be avoided until the den is unoccupied as determined by the qualified wildlife biologist in coordination
 with CDFW.

Mitigation Measure BIO-2b: Conduct Preconstruction Surveys for Sierra Nevada Mountain Beaver and Implement Protective Buffers

- No more than 30 days prior to any ground disturbance or vegetation removal activities within 200 feet of Markleeville Creek, a preconstruction survey for Sierra Nevada mountain beaver will be conducted by a qualified biologist familiar with the species. Surveys would consist of burrow searches within habitat suitable for the species.
- ► If individuals or occupied burrows are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.
- ► If active breeding/burrow sites are identified within 250 feet of project activities, MPUD will implement a limited operating period during the Sierra Nevada mountain beaver breeding season (February 1–July 31) during which no ground disturbance, vegetation or tree removal, or staging activities will occur within 250 feet of the identified burrow. The limited operating period, area within which it is implemented (e.g., 250-foot buffer), and activities allowed or prohibited within the limited operating period may be adjusted through consultation with CDFW.

Mitigation Measure BIO-2c: Conduct Preconstruction Surveys for Sierra Nevada Snowshoe Hare and Western White-Tailed Jackrabbit and Implement Protective Buffers

- ► No more than 30 days prior to any ground disturbance or vegetation removal activities during the Sierra Nevada snowshoe hare and western white-tailed jackrabbit breeding season (February 1–July 31), a preconstruction survey for nests of both species will be conducted by a qualified biologist familiar with the species. Surveys would consist of walking transects to determine whether active nests of either species are present within suitable habitat areas of the project site (e.g., scrub, forest).
- ► If individuals or active nests are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.
- ► If active nests are identified, MPUD will implement a limited operating period during the Sierra Nevada snowshoe hare and western white-tailed jackrabbit breeding season (February 1–July 31) during which no ground disturbance, vegetation or tree removal, or staging activities will occur within 250 feet of the identified nest. The limited operating period, area within which it is implemented (e.g., 250-foot buffer), and activities allowed or prohibited within the limited operating period may be adjusted through consultation with CDFW.

Mitigation Measure BIO-2d: Conduct Focused Special-Status Bat Surveys and Implement Avoidance Measures

- ► In the early planning stages of the project, a qualified biologist familiar with bats and bat ecology and experienced in conducting bat surveys will conduct surveys for bat roosts in suitable habitat (e.g., large trees, crevices, cavities, exfoliating bark, bridges, unoccupied buildings) within and adjacent to the project site.
- If no evidence of bat roosts is found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and no further study will be required.
- If evidence of bat roosts is observed, the species and number of bats using the roost will be determined. Bat detectors shall be used if deemed necessary to supplement survey efforts by the qualified biologist.
- ► A no-disturbance buffer of 250 feet will be established around active pallid bat, Townsend's big-eared bat, or western red bat roosts, and project activities will not occur within this buffer until after the roosts are unoccupied.
- If roosts of pallid bat, Townsend's big-eared bat, or western red bat are determined to be present and must be removed, the bats will be excluded from the roosting site before the tree, building, or other structure is removed. A program addressing compensation, exclusion methods, and roost removal procedures will be developed in consultation with CDFW before implementation. Exclusion methods may include use of one-way doors at roost entrances (bats may leave but not reenter) or sealing roost entrances when the site can be confirmed to contain no bats. Exclusion from active maternity roosts will not occur while females in maternity colonies are nursing young. Exclusion efforts may be restricted during other periods of sensitive activity (e.g., during hibernation). The loss of each roost (if any) will be replaced in consultation with CDFW and may require construction and installation of bat boxes suitable to the bat species and colony size excluded from the original roost site. If determined necessary during consultation with CDFW, replacement roosts are constructed and a qualified biologist confirms that bats are not present in the original roost site, the roost tree, building, or other structure may be removed or sealed to prevent bats from reentering.

Mitigation Measure BIO-3 - Impacts to active nests will be avoided by the establishment and maintenance of buffers around the nests. The appropriate size and shape of the buffers will be determined by a qualified biologist in consultation with the CDFW, and may vary depending on the nest location, nest stage, and construction activity. No project activity will occur within the buffer area until the biologist confirms that the nest is no longer active. Monitoring will be conducted to confirm that the Project activities are not resulting in detectable adverse effects to the active nests.

Mitigation Measure BIO-3a: Conduct Focused Surveys for Special-Status Birds and Other Native Nesting Birds and Implement Protective Buffers

- To minimize the potential for loss of special-status bird species, raptors, and other native birds, project activities (e.g., tree removal, other vegetation removal, ground disturbance, staging) will be conducted during the nonbreeding season (approximately September 1-January 31, as determined by a qualified biologist), if feasible. If project activities are conducted during the nonbreeding season, no further mitigation will be required.
- Within 14 days before the onset of project activities during the breeding season (approximately February 1 through August 31, as determined by a qualified biologist), a qualified biologist familiar with birds of California and with experience conducting nesting bird surveys will conduct focused surveys for special-status birds, other nesting raptors, and other native birds and will identify active nests within 500 feet of the project site (where accessible).
- Impacts on nesting birds will be avoided by establishing appropriate buffers around active nest sites identified during focused surveys to prevent disturbance to the nest. Project activity will not commence within the buffer areas until a qualified biologist has determined that the young have fledged, the nest is no longer active, or reducing the buffer will not likely result in nest abandonment. A qualified biologist will determine the appropriate buffer size for non-raptor nests after a site- and nest-specific analysis. Buffers typically will be 500 feet for raptors and 100 feet for non-raptor species. Factors to be considered for determining buffer size will include presence of natural buffers provided by vegetation or topography, nest height above ground, baseline levels of noise and human activity, species sensitivity, and proposed project activities. The size of the buffer may be adjusted if a qualified biologist determines that such an adjustment would not be likely to adversely affect the nest. Any buffer reduction for a special-status species will require consultation with CDFW. Periodic monitoring of the nest by a qualified biologist during project activities will be required if the activity has potential to adversely affect the nest, the buffer has been reduced, or if birds within active nests are showing behavioral signs of agitation (e.g., standing up from a brooding position, flying off the nest) during project activities, as determined by the qualified biologist.

Mitigation Measures BIO-2 and BIO-3 from the 2015 IS/MND require preconstruction surveys for specialstatus species and protection of active nests. These mitigation measures are further defined by Mitigation Measures BIO-2a through BIO-2d and BIO-3a. Mitigation Measure BIO-3a requires preconstruction surveys for special-status birds and other birds protected by California Fish and Game Code and the Migratory Bird Treaty Act and protective measures if active nests are identified in the project site. Mitigation Measure BIO-2a requires a limited operating period for ringtail and preconstruction surveys and avoidance measures if the limited operating period is not feasible. Mitigation Measure BIO-2b requires preconstruction surveys for Sierra Nevada mountain beaver and avoidance of active burrows, if detected. Mitigation Measure BIO-2c requires preconstruction surveys for Sierra Nevada snowshoe hare and western white-tailed jackrabbit and avoidance of active nests, if detected. Mitigation Measure BIO-2d requires preconstruction surveys for special-status bat roosts and avoidance of active roosts, if detected. With implementation of these mitigation measures, the project would result in a less-than-significant impact on special-status wildlife species. The findings of the 2015 IS/MND remain valid and no additional mitigation is required.

b) Less than Significant with Mitigation. As discussed in the 2015 IS/MND, riparian habitats have high value for many riparian and aquatic species; providing water, thermal cover, migration corridors, and diverse nesting and feeding opportunities for numerous species. Riparian habitat occurs along the Markleeville Creek stream margins and dense mature willow scrub is found along Millberry Creek. Some project elements, including access road modifications and replacement and relocation of sewer infrastructure could result in removal or disturbance of riparian habitat.

Mitigation Measure BIO-4: Implement Avoidance Measures and Compensate for Unavoidable Impacts on Riparian Habitat

Before implementation of project activities, riparian habitats previously mapped during preparation of the 2015 IS/MND will be flagged or fenced with brightly visible construction flagging and/or fencing under the direction of a qualified biologist and no project activities (e.g., vegetation removal, ground disturbance, staging) will occur within these areas. Foot traffic by personnel will also be limited in these areas to prevent the introduction of invasive or weedy species or inadvertent crushing of plants. Periodic inspections during construction will be conducted by the monitoring biologist to maintain the integrity of exclusion fencing/flagging throughout the period of construction involving ground disturbance.

If riparian habitat in the project site cannot be avoided, the following measures will be implemented:

- ► A Streambed Alteration Notification will be submitted to CDFW, pursuant to Section 1602 of the California Fish and Game Code. If proposed project activities are determined to be subject to CDFW jurisdiction, MPUD will abide by the measures to protect fish and wildlife resources, required by any executed agreement, prior to any vegetation removal or activity that may affect the resource. Measures to protect fish and wildlife resources shall include, at a minimum, a combination of the following mitigation.
- MPUD will compensate for the loss of riparian habitat such that no net loss of habitat function and values occurs by:
 - restoring riparian habitat function and value within the project site;
 - restoring degraded riparian habitat outside of the project site;
 - purchasing riparian habitat credits at a CDFW-approved mitigation bank; or
 - preserving existing riparian habitat of equal or better value to the affected riparian habitat through a conservation easement at a sufficient ratio to offset the loss of riparian habitat function (at least 1:1).
- MPUD will prepare and implement a Compensatory Mitigation Plan that will include the following:
 - For preserving existing riparian habitat outside of the project site in perpetuity, the Compensatory Mitigation Plan will include a summary of the proposed compensation lands (e.g., the number and type of credits, location of mitigation bank or easement), parties responsible for the long-term management of the land, and the legal and funding mechanism for long-term conservation (e.g., holder of conservation easement or fee title).
 - For restoring or enhancing riparian habitat within the project site or outside of the project site, the Compensatory Mitigation Plan will include a description of the proposed habitat improvements, success criteria that demonstrate the performance standard of maintained habitat function has been met, legal and funding mechanisms, and parties responsible for long-term management and monitoring of the restored or enhanced habitat.
 - Compensatory mitigation may be satisfied through compliance with permit conditions, or other authorizations obtained by MPUD (e.g., Lake and Streambed Alteration Agreement), if these requirements are equally or more effective than the mitigation identified above.

Compliance with state law (e.g., Section 1602 of California Fish and Game Code), as identified in the 2015 IS/MND, as well as implementation of Mitigation Measure BIO-4, which requires avoidance of riparian habitat or permitting and compensation for unavoidable, permanent loss of riparian habitat, would reduce impacts on riparian habitat to less than significant. The findings of the 2015 IS/MND remain valid and no additional mitigation is required.

c) Less than Significant with Mitigation. The 2015 IS/MND evaluated impacts on federally protected wetlands and waters, including a delineation of aquatic resources within the project site during which two wetland features were identified in addition to Markleeville Creek and Millberry Creek. Implementation of the project, including access road modifications and replacement and relocation of sewer infrastructure may result in impacts on the two wetland features identified in the 2015 IS/MND.

Mitigation Measure BIO-5: Implement Avoidance Measures and Compensate for Unavoidable Impacts on Wetlands

- Before implementation of project activities, a qualified biologist will mark the jurisdictional boundaries of the onsite wetlands with high-visibility flagging, fencing, stakes, or clear, existing landscape demarcations (e.g., edge of a roadway).
- ► Project activities (e.g., ground disturbance, vegetation removal, staging) will be prohibited within the wetland boundaries. The qualified biologist will periodically inspect the materials demarcating the wetland boundaries to confirm that they are intact and visible, and wetland impacts are being avoided.
- If it is determined that fill of waters of the United States would result from project implementation, authorization for such fill will be secured from U.S. Army Corps of Engineers (USACE) through the Section 404 permitting process. Any waters of the United States that would be affected by the project will be replaced or restored on a no-net-loss basis in accordance with the applicable USACE mitigation guidelines in place at the time of construction. In association with the Section 404 permit (if applicable) and prior to the issuance of any grading permit, Section 401 Water Quality Certification from the Lahontan Regional Water Quality Control Board (RWQCB) will be obtained.
- ► If it is determined that fill of waters of the state, including state-protected wetlands, cannot be avoided, MPUD will submit an application for discharges of dredged or fill material to the Lahontan RWQCB before commencing activity that may result in discharge of dredged or fill material to waters of the state. MPUD will not commence any activity in waters of the state until permitted by the Lahontan RWQCB and MPUD will implement all protection measures and comply with all conditions of the permit.
- MPUD will restore all waters of the state following completion of project construction. A draft restoration plan outlining design, implementation, assessment, and maintenance for restoring temporary disturbance areas will be submitted to the Lahontan RWQCB with the application for discharge of dredged or fill material to waters of the state and will be implemented as approved by the Lahontan RWQCB.
- ► If any waters of the state cannot be restored on site, MPUD will implement a compensatory mitigation plan resulting in no net loss of the overall abundance, diversity, and condition of aquatic resources based on an assessment of the affected watershed. MPUD may compensate for loss of waters of the state by purchasing credits from a RWQCB-approved mitigation bank or in-lieu fee program, or through restoration or establishment of wetlands or non-wetland waters comparable to those affected by the project.

Compliance with state and federal law, as identified in the 2015 IS/MND, as well as implementation of Mitigation Measure BIO-5 which requires wetland avoidance or permitting and compensation for unavoidable loss of wetlands would reduce impacts on state or federally protected wetlands to less than significant. The findings of the 2015 IS/MND remain valid and no additional mitigation is required.

d) Less than Significant. The 2015 IS/MND evaluated impacts on wildlife corridors and concluded that the project would have a less-than-significant impact because project implementation would not result in any physical obstructions that would inhibit wildlife movement, and would not remove, degrade, or otherwise interfere with the stream-associated wildlife corridor along Markleeville Creek. Potential impacts on wildlife movement resulting from project construction activities would be temporary. Additionally, there are no known native wildlife nursery sites within the project site. The project would not result in any new or substantially more severe impacts than those identified in the previously adopted 2015 IS/MND. The findings of the 2015 IS/MND remain valid and no mitigation is required.

- e) Less than Significant with Mitigation. The Alpine County General Plan Conservation Element contains goals and policies related to protection and conservation of wetlands; threatened, rare, or endangered plant species; sensitive, threatened, rare, or endangered wildlife species; and important deer migration routes (Alpine County 2003). Consistent with the 2015 IS/MND, the project would result in temporary construction disturbance and then would result in sewer facilities relocated outside of the floodplain. The project would not conflict with local policies or ordinances protecting biological resources and the project would have a less-than-significant impact. Further, implementation of 2015 IS/MND Mitigation Measures BIO-1, BIO-2, BIO-2a-BIO-2d, BIO-3, BIO-3a, BIO-4, and BIO-5 would result in compliance with all of the general plan policies pertaining to biological resources. Thus, the findings of the 2015 IS/MND remain valid and no additional mitigation is required.
- f) No Impact. As discussed in the 2015 IS/MND, the project would not have an effect on an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or adopted biological resources recovery or conservation plans of any federal or state agency because the project site is not within the coverage area of any such plan. Therefore, there are no new significant impacts or substantially more severe impacts that would occur pertaining to conflicts with adopted conservation plants. The findings of the 2015 IS/MND remain valid and no mitigation is required.

CONCLUSION

Since approval of the 2015 IS/MND, the project has been focused on the sewer pump station relocation project and new biological database searches were conducted, resulting in identification of several additional special-status species with potential to occur on the project site. Additional mitigation measures have been identified to further define the 2015 IS/MND mitigation measures and because of updated records searches and recent surveys of the project site. Implementation of the mitigation measures would reduce potential project impacts to less-than-significant levels. Therefore, the conclusions of the 2015 IS/MND remain valid and approval of the project would not result in new significant or substantially more severe significant impacts on biological resources.

4.5 ARCHAEOLOGICAL, HISTORICAL, AND TRIBAL CULTURAL RESOURCES

Section 3.5, "Cultural Resources," of the 2015 IS/MND evaluates the impacts of the project on archaeological, historical, and tribal cultural resources.

4.5.1 Environmental Checklist and Discussion

	chaeological, Historical, & Tribal Cultural Resources	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	Yes	No	No	Yes
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	Yes	No	No	Yes
C)	Disturb any human remains, including those interred outside of formal cemeteries?	Yes	No	No	Yes
d)	 Cause a substantial adverse change in the significance of a Tribal Cultural Resource as defined in Public Resources Code § 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: 1) 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), or 2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resource Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. 	No	No	No	Yes

The 2015 IS/MND was based on a cultural resources investigation (Cardno ENTRIX 2014). Although site conditions have not changed since 2015, due to the passage of time, an updated cultural resources inventory was conducted in 2020 by Natural Investigations Company (NIC) in compliance with Section 21083.2 of the CEQA statutes, Section 15064.5 of the CEQA Guidelines, and Section 106 of the federal National Historic Preservation Act (NHPA) (NIC 2020). The 2020 Cultural Resources Inventory Report includes a cultural resources literature search, Sacred Lands File search, paleontological sensitivity analysis, intensive pedestrian survey of the area of potential effects (APE), and an inventory report (NIC 2020).

a) Less than Significant with Mitigation. Consistent with the 2015 IS/MND, the project would result in a less-thansignificant impact to historical resources as defined in CEQA Section 15064.5. Two cultural resources have been previously recorded within the APE, the Markleeville Creek Bridge (P-02-000473) and the former Markleeville Guard House (P-02-000488). Both have been previously evaluated and recommended as ineligible for listing in the National Register of Historic Places (NRHP)/California Register of Historical Resources (CRHR). The bridge remains in place and is in active use. The project would result in no impact to the bridge. The former Markleeville Guard House has been almost completely destroyed. All associated standing structures have been demolished and removed. Among the few related features that remains in place are five rock walls (Walls #2-6), a pedestrian bridge over Markleeville Creek, and a cement sidewalk and drainage. Neither of these resources constitutes an historic property as defined under NHPA Section 300308, an historical resource as defined under CEQA Section 15064.5, unique archaeological resource as defined under CEQA Section 21083.2(g), or Native American cultural resource (NIC 2020).

As required by Mitigation Measure CR-1, "Prepare a Section 106 Cultural Resources Inventory and Evaluation Report and/or Historic Properties Survey Report, Historic Properties Evaluation Report, and Archaeological Survey Report," of the 2015 IS/MND, the 2020 cultural resources inventory was prepared in compliance with Section 106 of the federal NHPA and evaluated potential project effects on the Markleeville Guard House and the Markleeville Creek Bridge. Neither of these resources constitutes an historic property as defined under NHPA Section 300308 or an historical resource as defined under CEQA Section 15064.5. Furthermore, consistent with Mitigation Measure CR-2, "Avoidance and Protection Measures for Rock Wall #1 of the National Register Listed Alpine County Courthouse," of the 2015 IS/MND, the project site boundary does not include, and the project would avoid, Wall #1 associated with the National-Register-listed Alpine County Courthouse.

With implementation of Mitigation Measures CR-1 and CR-2, the project would result in a less-than-significant impact to historical resources, including the Markleeville Guard Station, the Markleeville Creek Bridge, and Wall #1 through avoidance of the bridge and Wall #1, and because the project would not impact the remnant features of the Guard Station. Therefore, no new or substantially more severe impacts would occur and no additional mitigation would be required.

b) Less than Significant with Mitigation. Consistent with the 2015 IS/MND, no archaeological artifacts, objects, or sites, have been identified within the project area. Given the relatively late historical development of the Project vicinity beginning with the construction of the Markleeville Guard House in the 1930s, long after organized municipal trash collection was established, the sensitivity for subsurface archaeological remains from the historic period is estimated to be low.

Similarly, the negative results of the California Historical Resources Information System (CHRIS) and Sacred Lands File (SLF) searches for prehistoric cultural resources within the APE, along with the negative results of Native American outreach efforts, suggest that the potential for subsurface indigenous resources is also low. This potential is reduced further by the extent of past ground disturbance from construction, not only of the Guard Station, but also of utility and flood-management related infrastructure, as well as by the deposition of up to three feet of nonnative fill at the location. Taken together, these factors suggest that the overall sensitivity of the project site for intact subsurface archaeological is low (NIC 2020).

While it is unlikely that previously unrecorded archaeological deposits would be discovered during construction for the proposed project, the possibility exists that project construction could result in exposure and impacts to unknown significant unique resources. This would be a potentially significant impact.

Mitigation Measure CR-3—Construction Crew Education/Tailboard Meeting and Accidental Discovery of Archaeological Resources Procedures

Prior to the start of construction, MPUD will ensure that all construction personnel, including construction forepersons and field supervisors receive training by a qualified professional archaeologist, as defined by the Secretary of the Interior, and who is experienced in teaching non-specialists, to ensure they can recognize cultural resources materials in the event any are discovered during construction.

Furthermore, to avoid any potential adverse effect from the proposed project on accidentally discovered buried historical resources as defined in CEQA Guidelines Section 15064.5(a)(c), MPUD will distribute a cultural resources "ALERT" sheet to the project's prime contractor; to any project subcontractor (including firms providing services such as demolition, excavation, grading, etc.), or utilities firms involved in soils disturbing activities within the project site. The ALERT sheet provides workers notice that cultural resources may be encountered during excavation and instructions on what to do if evidence of an archaeological site is encountered. Prior to any soils disturbing activities being undertaken, each contractor is responsible for ensuring that the "ALERT" sheet is circulated to all field personnel, including: machine operators, field crew, supervisory personnel, etc. The prime contractor will provide MPUD with a signed affidavit from the responsible parties (prime contractor, subcontractor[s], and utilities firms) confirming that all field personnel have received copies of the ALERT Sheet.

Should any indication of an archaeological resource be encountered during any soils disturbing activity of the project, the contractor will immediately notify MPUD and suspend any soils disturbing activities within 150 feet of the discovery until the find can be assessed by a qualified professional archaeologist, the qualified professional will determine what additional measures should be undertaken.

The qualified professional archaeologist will advise MPUD as to whether the discovery is an archaeological resource, retains sufficient integrity, and it of potential scientific, historical, and/or cultural significance. If an archaeological resource is present, the archaeological consultant will identify and evaluate the archaeological resource. The archaeological consultant will make a recommendation as to what action, if any, is warranted. Based on this information, if warranted, specific additional measures may be implemented.

Measures might include: preservation in situ of the archaeological resource; an archaeological monitoring program; and/or an archaeological testing program. MPUD may also require that a site security program be implemented if the resource is at risk from vandalism, looting, or other damaging actions.

The archaeological consultant will submit a final report that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological monitoring/data recovery program(s) undertaken. Information that may put at risk any archaeological resource will be provided in a separate removable insert within the final report.

Copies of the final report will be sent to Alpine County and the Central California Information Center, along with copies of any formal recordation forms (CA DPR 523 series) and/or documentation for nomination to the NRHP/CRHR. In instances of high public interest or interpretive value, Alpine County may require a different final report content, format and distribution from that presented above.

Implementation of Mitigation Measure CR-3 would reduce the impact of inadvertent discovery of archaeological resources to a less-than-significant level through evaluation, preservation in place, archaeological test excavation, and/or archaeological data recovery. Therefore, no new or substantially more severe impacts would occur and no additional mitigation would be required.

c) Less than Significant with Mitigation. Consistent with the 2015 IS/MND, no human remains have been identified within the project area as result of the records search, archaeological fieldwork, or through consultation with the NAHC and interested Native American tribes. However, construction of the project could result in the inadvertent discovery of human remains associated with unrecorded archaeological deposits. Disturbance of human remains would be a significant impact.

Mitigation Measure CR-4—Preserve Human Remains if Encountered

If human remains are encountered during construction, MPUD will notify the Alpine County Coroner immediately, as required by California PRC Code §5097.98. A qualified professional archaeologist will also be contacted immediately. If the County Coroner determines that the remains are Native American, the Coroner will then contact the NAHC, pursuant to Section 7050.5[c] of the California Health and Safety Code.

There will be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie human remains until the County Coroner has determined that no investigation of the cause of death is required or if remains are Native American. If the remains are of Native American in origin:

- Within 24 hours of notification, the NAHC will identify a Native American "most likely descendant" (MLD) to make a recommendation regarding appropriate treatment of the human remains.
- ► If the identified MLD fails to make a recommendation within 48 hours of being notified, Alpine County will work with the NAHC to determine appropriate means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods, as provided in PRC Section 5097.98.

Compliance with California Health and Safety Code Sections 7050.5 and PRC Section 5097, as required by Mitigation Measure CR-4, would provide an opportunity to avoid or minimize the disturbance of human remains, and to treat with appropriate dignity, any discovery of human remains and any associated grave goods, as provided in PRC Section 5097.98. Therefore, this impact would be less than significant. No new or substantially more severe impacts would occur and no additional mitigation would be required.

d) Less than Significant with Mitigation. The project area is located within the lands historically occupied by the Washoe; however, there are no known tribal cultural resources within the project area. The NAHC was contacted to request a search of their Sacred Lands File for traditional cultural resources within or near the project site. The reply from the NAHC, dated September 25, 2020, identified that the search failed to indicate the presence of Native American cultural resources in the project area (NIC 2020). The Washoe tribe indicated no knowledge of cultural resources that may be affected by the project, nor any concerns about the project at this time (NIC 2020). In addition, see discussion of historical resources, archaeological resources, and human remains in a) through c), above, which would be less-than-significant impacts with implementation of Mitigation Measures CR-1 through CR-4. The project-related potential to impact tribal cultural resources would be less than significant and no additional mitigation is required.

4.6 ENERGY

Energy was not evaluated in the 2015 IS/MND because this environmental resource topic was not required by CEQA until 2019. To address the current CEQA Guidelines, this addendum includes analysis of the project's energy impacts.

4.6.1 Environmental Checklist and Discussion

Energy Would the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a) Result in unnecessary, inefficient, and wasteful use of energy?	No	No	No	N/A
 b) Conflict, or create an inconsistency, with any applicable plan, policy, or regulation adopted for the purpose of avoiding or mitigating environmental effects related to energy use? 	No	No	No	N/A

The primary forms of energy consumed in Alpine County are electricity and propane, as well as automotive fuels for transportation (gasoline and diesel). In Markleeville, electricity is supplied by the Pacific Gas and Electric Company (PG&E) and propane is supplied by several regional providers operating from nearby areas such as Gardnerville and South Lake Tahoe (Alpine County 2016).

In 2016, Alpine County adopted an Energy Action Plan (EAP), which set a goal to reduce electricity use in 2025 by 17 percent and propane use by 9 percent compared to the business-as-usual forecast. The EAP focuses on three energy use sectors: residential, non-residential, and municipal (Alpine County 2016). Because the project consists of improvements to sewer infrastructure, the following EAP goals and strategies relating to municipal energy use would apply to the project:

- GOAL 4. Increase energy efficiency in municipal structures and operations.
 - Strategy 4.1. Increase the energy efficiency of existing municipal structures.

The Alpine County General Plan and Alpine County Code also contain goals, policies, and codes related to energy use and efficiency. However, none are applicable to the project, as they predominantly focus on the energy consumption and the efficiency of residential land uses and new land use development projects.

a) Less than Significant. Energy, primarily diesel and gasoline, would be consumed during project construction to operate construction equipment and transport construction materials. Gasoline would also be consumed for worker commutes. Levels of construction-related fuel consumption were estimated based on equipment assumptions consistent with the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 computer program (CalEEMod) (CAPCOA 2016) and fuel consumption factors derived from the California Air Resources Board's Emission Factor (CARB 2017). See Appendix B for detailed calculations. An estimated 608 gallons of gasoline and 14,853 gallons of diesel would be consumed during project construction, accounting for both onsite equipment use and off-site vehicle travel for worker commutes and haul trips. This one-time energy expenditure required to construct the project would be nonrecoverable. However, energy needs for project construction would be temporary and would not require additional capacity or increase peak or base period demands for electricity or other forms of energy.

Project operation would require electricity to power various components of the sewer system, including water pumps and security lighting. However, the new facilities would replace existing aging facilities, and thus, would likely be more energy efficient. Additionally, the project would not generate an increase in vehicle trips during operation because the project would not involve any land use development or require an increase in employees. Thus, the project would not appreciably increase the amount of gasoline and diesel consumption associated with employee trips or maintenance activities during operation.

The project would be beneficial for the community of Markleeville because these sewer system modifications would improve and relocate Markleeville's aging sewer system outside of the floodplain, thus avoiding future inundation by flooding and making sewer infrastructure safer and more accessible for maintenance. For these reasons, the project would not result in the inefficient, wasteful, or unnecessary consumption of energy resources during project construction or operation. This impact would be less than significant.

b) Less than Significant. As discussed above, the Alpine County EAP is the local plan that provides a roadmap for expanding energy efficiency, water efficiency, and renewable energy efforts already underway in the County. The project would be consistent with all applicable EAP goals and strategies, particularly Goal 4 and Strategy 4.1, because the project would increase energy efficiency in existing municipal structures (i.e., sewer system facilities). Thus, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. This impact would be less than significant.

4.7 GEOLOGY, SOILS, AND SEISMICITY

Section 3.6 of the 2015 IS/MND evaluates the impacts of the project on geology, soils, and seismicity.

4.7.1 Environmental Checklist and Discussion

Geology, Soils, & Seismicity Would the Project		Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More
a)					Severe?
	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.	Yes	No	No	N/A
	ii) Strong seismic ground shaking?	Yes	No	No	N/A
	iii) Seismic-related ground failure, including liquefaction?	Yes	No	No	N/A
	iv) Landslides?	Yes	No	No	N/A
b)	Result in substantial soil erosion or the loss of topsoil?	Yes	No	No	N/A
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?	Yes	No	No	N/A
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?	Yes	No	No	N/A
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	Yes	No	No	N/A
f)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	Yes	No	No	N/A

a) Less than Significant. As discussed in the 2015 IS/MND, the new sewer infrastructure would be built to meet all applicable regulations for minimizing risks related to earthquakes and ground shaking, including building codes for the maximum expected earthquake intensity (Zone 4). Additionally, the risks of liquefaction and landslide in the project area are considered low, and the project would not modify the project site or surrounding area in a way that would increase risks. The project would not result in a new or substantially more severe impact, and no mitigation would be required.

- b) Less than Significant. Project construction would result in ground disturbance to remove and install new sewer infrastructure and improve site access. However, ground disturbance would be limited, and no substantial loss of topsoil would be required to implement the project. Additionally, the project would result in decreased erosion because MPUD access road modifications would result in improved drainage and sewer facilities would be moved out of the floodplain. The project would not result in a new or substantially more severe impact, and no mitigation would be required.
- c) **No Impact.** Consistent with the 2015 IS/MND, the project would not create cuts or place fill in areas of landslide, lateral spreading, subsidence, or liquefaction. The project would not result in a new or substantially more severe impact, and no mitigation would be required.
- d) **No Impact.** Consistent with the 2015 IS/MND, the project would not locate paved parking or sewer infrastructure facilities on expansive soils. The project would not result in a new or substantially more severe impact, and no mitigation would be required.
- e) **No Impact.** Consistent with the 2015 IS/MND, the project would not install septic or other alternative waste water systems for the disposal of wastewater. The project would not result in a new or substantially more severe impact, and no mitigation would be required.
- e) No Impact. No paleontological resources or unique geological features have been previously documented within or near the project site and the underlying Quaternary (2.5 million years ago to present) alluvium has not yielded significant paleontological remains. Additionally, these alluvial sediments have been extensively disturbed during past construction-related activities. Taken together these factors suggest that the project site has low paleontological resource sensitivity based on SVP criteria (NIC 2020). Consistent with the 2015 IS/MND (Section 3.5, page 3-61), no geologic strata that would contain paleontological resources exist at the site; therefore, the project would not directly or indirectly destroy a unique paleontological resource, site, or unique geologic feature and there would be no impact. The project would not result in a new or substantially more severe impact, and no mitigation would be required.

4.8 GREENHOUSE GAS EMISSIONS AND CLIMATE CHANGE

Section 3.7 of the 2015 IS/MND evaluates the impacts of the project on greenhouse gas emissions and climate change.

4.8.1 Environmental Checklist and Discussion

Greenhouse Gas Emissions Would the Project		Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	Yes	No	No	N/A
b)	Conflict with an applicable plan, policy, or regulation adopted for the purpose or reducing the emissions of greenhouse gases?	Yes	No	No	N/A

- a) Less than Significant. Consistent with the 2015 IS/MND, the project would generate greenhouse gases (GHGs) from equipment and vehicles during construction. However, these emissions would be temporary and the project would not create any long-term sources of GHG emissions. The operation of the relocated sewer pump station would be more efficient than existing facilities. Thus, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- b) **No Impact.** Alpine County has not developed or adopted a climate action plan or other plan for reducing local GHG emissions. Thus, consistent with the 2015 IS/MND, the project would not conflict with any GHG reduction plans, policies, or regulations. The project would not result in a new or substantially more severe impact, and no mitigation would be required.

4.9 HAZARDS AND HAZARDOUS MATERIALS

Section 3.8 of the 2015 IS/MND evaluates the impacts of the project related to hazards and hazardous materials.

4.9.1 Environmental Checklist and Discussion

Hazards & Hazardous Materials		Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant	Do Any New Circumstances Involve New or Substantially More Severe Significant	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More
Wo	uld the Project		Impacts?	Impacts?	Severe?
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	Yes	No	No	N/A
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?	Yes	No	No	N/A
C)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	Yes	No	No	N/A
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?	Yes	No	No	N/A
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?	Yes	No	No	N/A
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?	Yes	No	No	N/A
g)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	Yes	No	No	N/A
h)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	Yes	No	No	N/A

a) Less than Significant. Construction activities would involve the use of hazardous materials, such as fuels, solvents, gasoline, asphalt, and oil, and operation of the water treatment plant would continue to involve hazardous materials. The transport, storage, and use of hazardous materials could potentially expose and adversely affect workers, the public, or the environment as a result of improper handling or use, accident, environmentally unsound disposal methods, fire, explosion, or other emergencies, resulting in adverse health or environmental effects.

The California Highway Patrol and Caltrans are responsible for enforcing regulations related to the transportation of hazardous materials on local roadways, and the use of these materials is regulated by the California Department of Toxic Substances Control, as outlined in CCR Title 22. MWC and its construction contractors would be required to comply with the California Environmental Protection Agency's (Cal EPA's) Unified Program, which protects Californians from hazardous waste and hazardous materials by ensuring consistency throughout the state regarding the implementation of administrative requirements, permits, inspections, and enforcement at the local regulatory level. Regulated activities would be managed by the Alpine County Health Department, which is the Cal EPA-designated Certified Unified Program Agency, and in accordance with the regulations included in the Unified Program (e.g., hazardous materials release response plans and inventories, California Uniform Fire Code hazardous material management plans and inventories). Such compliance would reduce the potential for accidental release of hazardous materials during project construction.

MPUD is required to comply with existing laws and regulations regarding the transportation, storage, use, and disposal of hazardous materials in relation to the sewer system. These regulations are specifically designed to protect the public health and the environment and must be adhered to during project construction and operation. Compliance with applicable regulations would ensure that this impact would be less than significant. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.

- b) Less than Significant. As discussed in the 2015 IS/MND, in a) above, and c) below, there are no existing hazardous materials sites within the project site; however, project construction and operation would involve the transport, storage, use, and disposal of hazardous materials. MPUD is required to comply with existing laws and regulations regarding the transportation, use, and disposal of hazardous materials in relation to construction and operation of the sewer system. These regulations are specifically designed to protect the public health and the environment and must be adhered to during project construction and operation. Furthermore, the 2015 IS/MND project specifications also included methods and measures to properly remove and dispose of any asbestos concrete pipe segments. Compliance with applicable regulations would ensure that this impact would be less than significant. The project would not result in a new or substantially more severe impact, and no mitigation would be required.
- c) **No Impact.** Consistent with the 2015 IS/MND, hazardous materials and waste would not be handled within 0.25 mile of an existing or proposed school as a result of the project. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- d) **No Impact.** Consistent with the 2015 IS/MND, no portion of the project site is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 (CalEPA 2021). Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- e) **No Impact.** Consistent with the 2015 IS/MND, the project site is not located in an airport land use plan or within two miles of a public or public use airport. Alpine County Airport is the closest airport and is located approximately 2.5 miles north of the project site. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- f) No Impact. Consistent with the 2015 IS/MND, the project would not be located in the vicinity of a private airstrip. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- g) Less than Significant. As discussed in the 2015 IS/MND, the project would improve the accessibility, reliability, and safety of sewer infrastructure in Markleeville, which would not interfere with emergency response or evacuation in Markleeville. The project would not result in additional vehicle trips that could affect emergency response times. Additionally, the only road that would be modified for the project would be the on-site unpaved MPUD access road, and access road modifications would improve year-round access for MPUD vehicles, resulting in improved emergency access. Therefore, the project would not result in a new or substantially more severe impact, and no mitigation would be required.
- h) Less than Significant. As discussed in the 2015 IS/MND, the project would not involve the construction of new structures (i.e., residences, schools) that would result in a substantial in human exposure to wildland fire hazards.

Since adoption of the 2015 MND, the CEQA Guidelines have added wildfire as a separate environmental resource topic with several new Appendix G criteria. This section is addressed in Section 1.1.19, "Wildfire," of this Addendum.

4.10 HYDROLOGY AND WATER QUALITY

Section 3.9 of the 2015 IS/MND evaluates the impacts of the project on hydrology and water quality.

4.10.1 Environmental Checklist and Discussion

	drology & Water Quality	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Violate any water quality standards or waste discharge requirements?	Yes	No	No	Yes
b)	Substantially decrease 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 pre-existing nearby wells would drop to a level which would not support existing land uses or planned land uses for which permits have been granted)?	Yes	No	No	N/A
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 substantial erosion or siltation on- or off-site?	Yes	No	No	N/A
d)	Substantially alter the exiting drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	Yes	No	No	N/A
e)	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?	Yes	No	No	N/A
f)	Otherwise substantially degrade water quality?	Yes	No	No	N/A
g)	Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	Yes	No	No	N/A
h)	Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	Yes	No	No	N/A
i)	Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	Yes	No	No	N/A
j)	Inundation by seiche, tsunami, or mudflow?	Yes	No	No	N/A
k)	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	No	No	No	N/A

a) Less than Significant with Mitigation. <u>Construction</u>. Consistent with the 2015 IS/MND, project construction would result in short-term risks to water quality from ground disturbance and the use of heavy equipment, resulting in a potentially significant impact.

Mitigation Measure HYRO-1 (page 3-77 of the 2015 IS/MND)

Temporary erosion/runoff best management control measures would be implemented during construction to minimize storm water pollution resulting from erosion and sediment migration from the construction, borrow, and staging areas. These temporary control measures would include implementing construction staging in a manner that minimizes the amount of area disturbed at any one time; secondary containment for storage of fuel and oil; and the management of stockpiles and disturbed areas by means of earth berms, diversion ditches, straw wattles, straw bales, silt fences, gravel filters, mulching, re-vegetation, and temporary covers as appropriate. Erosion and storm water pollution control measures would be consistent with the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities requirements, and would be included in a site specific Storm Water Pollution Prevention Plan (SWPPP).

After completion of construction activities, the temporary facilities would be demobilized and site restoration measures would be implemented to minimize soil erosion. Site restoration measures for areas disturbed by construction activities, including the borrow area and laydown/staging areas, may include regrading, reseeding, construction of permanent diversion ditches, use of straw wattles and bales, application of straw mulch, and other measures deemed appropriate to meet all applicable erosion control requirements.

Implementation of Mitigation Measure HYDRO-1 would be required to ensure that project construction would not violate any water quality standards or waste discharge requirements. Therefore, project construction would not violate standards or contribute substantially to an existing or projected air quality violation, would not result in a new or substantially more severe impact, and no additional mitigation is required.

<u>Operation</u>. As described in 2015 IS/MND, the proposed replacement of aging sewer infrastructure with newer, more reliable infrastructure would prevent leaks or other infrastructure failures, and improving the alignment, profile, and drainage of the MPUD access road would reduce erosion and sedimentation potential. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

- b) Less than Significant. The project would involve construction, replacement, and relocation of sewer facilities outside of the floodplain and would not result in any new demand for water or groundwater. The replacement facilities would not increase impervious surface such that groundwater recharge would be altered. Therefore, the project would not interfere with groundwater recharge. Consistent with the 2015 IS/MND, the project would not create increased demand for groundwater, substantially interfere with groundwater recharge, or result in lower water tables. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- c,d,e) Less than Significant. As described in the 2015 IS/MND, the project would modify drainage patterns of the site, but not in a manner that would result in substantial erosion, siltation, increased runoff, or flooding on- or off-site. Modifications to the MPUD access road would improve site drainage to reduce erosion potential. The project would not increase impervious surfaces on-site, and areas disturbed during construction would be stabilized. Thus, the project would not increase runoff or result in flooding that would exceed the capacity of stormwater drainage systems. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- f) No Impact. Consistent with the 2015 IS/MND and as discussed further under criterion a), the project would not result in any substantial temporary or permanent risks to water quality. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

- g,i) **No Impact.** Consistent with the 2015 IS/MND, the project would not develop housing or other structures that would result in more people working or visiting the area. Thus, the project would not expose people or structures to significant risk due to flooding. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- h) Less than Significant. Consistent with the 2015 IS/MND, the project would temporarily disturb the floodplain during project construction. However, the project would remove sewer facilities from the 100-year floodplain, reducing impediments to flood flows. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- j) No Impact. The project site is not subject to inundation by seiche, tsunami, or mudflow because the project site is generally flat and is not located near any large water bodies. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- k) Less than Significant. The project site is within the jurisdiction of the Lahontan RWQCB, which has developed a Water Quality Control Plan for the Lahontan Region (Lahontan RWQCB 2019). Alpine County has also established a groundwater management plan (Alpine County 2006). The project would not conflict with or obstruct implementation of either of these plans because the project would result in long-term benefits to water quality by removing sewer facilities from the floodplain and, as discussed further under criterion b), would not substantially affect nearby groundwater supplies. For these reasons, this impact would be less than significant. Although this impact was not examined in the 2015 IS/MND, the project would not result in a new significant impact, and no additional mitigation would be required.

4.11 LAND USE AND PLANNING

Section 3.10 of the 2015 IS/MND evaluates the impacts of the project related to land use and planning.

4.11.1 Environmental Checklist and Discussion

	nd Use & Planning buld the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Physically divide an established community?	Yes	No	No	N/A
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?	Yes	No	No	N/A

- a) **No Impact.** Consistent with the 2015 IS/MND, the project would not create any barriers that would divide an established community. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- b) Less than Significant. The project would not involve changing the land use of the project site. Thus, consistent with the 2015 IS/MND, the project would not conflict with any applicable plans, policies, or regulations regarding the land use of the site. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

4.12 MINERAL RESOURCES

Section 3.11, of the 2015 IS/MND evaluates the impacts of the project on mineral resources.

4.12.1 Environmental Checklist and Discussion

	neral Resources ould the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
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?	Yes	No	No	N/A
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?	Yes	No	No	N/A

a,b) **No Impact.** Surface Mining and Reclamation Act Mineral Land Classification Report data is not available for Alpine County (DOC 2020). Within the county, known or suspected mineral deposits, primarily sand and gravel, have been identified by the California Division of Mines and Geology. These deposits are protected by appropriate land use designations and buffers identified within the County's Land Use Map (Alpine County 2017). However, no mineral resources of regional, statewide, or local importance, including sand and gravel, are known to be present in the project site or vicinity. Additionally, the project would not involve the removal of large amounts of soil or earth. Therefore, the project would not result in the loss of availability of any known mineral resource of value. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

4.13 NOISE

Section 3.12 of the 2015 IS/MND evaluates the impacts of the project related to noise.

4.13.1 Environmental Checklist and Discussion

	ise buld the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	Yes	No	No	N/A
b)	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	Yes	No	No	N/A
C)	A substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project?	Yes	No	No	N/A
d)	A substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the Project?	Yes	No	No	N/A
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 expose people residing or working in the Project area to excessive noise levels?	Yes	No	No	N/A
f)	For a Project within the vicinity of a private airstrip, would the Project expose people residing or working in the Project area to excessive noise levels?	Yes	No	No	N/A

a,c,d) Less than Significant. <u>Construction Noise</u>. As discussed in the 2015 IS/MND, construction noise would be temporary. The nearest noise-sensitive receptors are single-family residences located across SR 89 and approximately 230 feet or further from where project construction activity would occur. These residences are relatively distant from the project site and are separated from the project site by the highway, which would help to attenuate project-related construction noise at these receptors. Construction hours would be limited to 8 a.m. to 6 p.m., Monday through Friday, and 9 a.m. to 3 p.m. on weekends, pursuant to the construction noise exemption specified in Section 18.68.090.F.1 of the Alpine County Code. Because of the temporary and intermittent nature of construction noise and because construction activity would occur during the county's exempt daytime hours, the project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

<u>Operational Noise</u>. Consistent with the 2015 IS/MND, the project would not modify any long-term sources of noise. The types of operational, noise-generating equipment used would be similar to the types of equipment currently used in existing on-site facilities. Additionally, the replacement facilities would be located in land designated as open space north of SR 89, which is not a noise-sensitive area. The nearest noise-sensitive receptors, located approximately 230 feet across SR 89, are not close enough to the proposed facilities to result

in the exposure of residences to disruptive noise that would exceed county standards. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

- b) Less than Significant. Consistent with the 2015 IS/MND, the project would not generate any long-term sources of groundborne vibration. While some construction activities would generate vibration, it would not have the potential to cause structural damage or human annoyance. Any vibration-generating construction activity would be short-term, would occur during the less sensitive daytime hours, and would be of low intensity. Project construction would not also require the use of vibration-intensive equipment such as pile drivers. Rather, project construction would use equipment that generates lower levels of ground vibration, such as excavators and dump trucks. These types of common construction equipment do not generate substantial levels of ground vibration that could result in structural damage or human annoyance, except at extremely close distances, which would not occur as part of the project. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- e,f) **No Impact.** The project is not located within an airport land use plan or within two miles of a public airport or public use airport. Additionally, the project is not located within two miles of a private airstrip. Alpine County Airport is the closest airport and is located approximately 2.5 miles north of the project site. The project would also not include any new land uses where people would live or work. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

4.14 POPULATION AND HOUSING

Section 3.13 of the 2015 IS/MND evaluates the impacts of the project on population and housing.

4.14.1 Environmental Checklist and Discussion

	pulation & Housing	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
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)?	Yes	No	No	N/A
b)	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	Yes	No	No	N/A
c)	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	Yes	No	No	N/A

- a) **No Impact.** Consistent with the 2015 IS/MND, the project would not increase MPUD Staff and would not increase the capacity of the wastewater system, and thus, would not indirectly support population growth or increase housing demand in Markleeville. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- b,c) **No Impact.** Consistent with the 2015 IS/MND, no housing units exist on the project site. The project would not displace any existing housing units or people, nor would the project construct any housing. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

4.15 PUBLIC SERVICES

Section 3.14 of the 2015 IS/MND evaluates the impacts of the project on public services.

4.15.1 Environmental Checklist and Discussion

		Services the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	imp phy or p cor env ser	build the Project result in substantial adverse physical bacts associated with the provision of new or visically altered governmental facilities, need for new obysically altered governmental facilities, the instruction of which could cause significant vironmental impacts, in order to maintain acceptable vice ratios, response times or other performance ectives for any of the public services:				
	i)	Fire protection?	Yes	No	No	N/A
	ii)	Police protection?	Yes	No	No	N/A
	iii)	Schools?	Yes	No	No	N/A
	iv)	Parks?	Yes	No	No	N/A
	V)	Other public facilities?	Yes	No	No	N/A

a) Less than Significant. Consistent with the 2015 IS/MND, the project would have no impact on population and would not increase the demand for school services or substantially modify the need for fire protection services or police protection in Markleeville. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

4.16 RECREATION

Section 3.15 of the 2015 IS/MND evaluates the impacts of the project on recreation.

4.16.1 Environmental Checklist and Discussion

	creation buld the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	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?	Yes	No	No	N/A
b)	Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	Yes	No	No	N/A

- a) **No Impact.** Consistent with the 2015 IS/MND, the project would have no impact on population and would not modify the use or demand of existing local or regional parks or other recreational facilities. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- b) Less than Significant. The sewer infrastructure improvements would remove facilities from the floodplain, improving water quality, but would other have no impact on the development of new recreational facilities, nor require expansion of existing recreational facilities. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

4.17 TRANSPORTATION AND TRAFFIC

Section 3.16 of the 2015 IS/MND evaluates the impacts of the project on transportation and traffic.

4.17.1 Environmental Checklist and Discussion

	ANSPORTATION & TRAFFIC	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	Yes	No	No	N/A
b)	Conflict with an applicable congestion management program, including, but not limited to level of service standards established by the county congestion management agency for designated roads and highways?	Yes	No	No	N/A
C)	Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	No	N/A	N/A	N/A
d)	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	Yes	No	No	N/A
e)	Result in inadequate emergency access?	Yes	No	No	N/A
f)	Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	Yes	No	No	N/A
g) '	Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	No	No	No	N/A

- a,b) **No Impact.** Consistent with the 2015 IS/MND, the project would not conflict with any congestion management programs or plans, ordinances, or policies regarding Markleeville's circulation system. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- c) No Impact. Consistent with the 2015 IS/MND, the project would not change air traffic patterns. The Alpine County Airport is the closest airport to the project site and is located approximately 2.5 miles to the north. The project would have no effect on the number of flights or the operation of the airport because the project would not result in increased visitation to the project site. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

- d) Less than Significant. Consistent with the 2015 IS/MND, the project would improve the existing MPUD access road to improve the configuration and drainage. All site modifications related to driveway design would meet Caltrans standards for size, angle, and sight lines. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- e) Less than Significant. Consistent with the 2015 IS/MND, the project would improve emergency access because modifications to the existing MPUD access road alignment, profile, and drainage would make the route safer and more reliable year-round. Additionally, relocation of sewer facilities outside of the floodplain would eliminate the need for maintenance or emergency vehicles to enter inundated areas of the site during flooding events. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- f) **No Impact.** The project would not alter any public transit facilities, bikeways, or pedestrian facilities. Thus, the project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- g) Less than Significant. Temporary construction activities would result in a temporary increase in vehicle trips to the project site during construction by workers and equipment. However, the project would not alter existing land uses, would not generate new residents or businesses, and the minor increase in system maintenance activities would not appreciably alter the vehicle miles traveled. This is a less-than-significant impact and no mitigation is required.

4.18 UTILITIES AND SERVICE SYSTEMS

Section 3.17 of the 2015 IS/MND evaluates the impacts of the project on utilities and service systems.

4.18.1 Environmental Checklist and Discussion

	ILITIES & SERVICE SYSTEMS	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	Yes	No	No	N/A
b)	Require or result in the relocation or construction of new or expanded water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction of which could cause significant environmental effects?	No	No	No	N/A
C)	Have sufficient water supplies available to serve the Project from existing entitlements and resources, or are new or expanded entitlements needed?	Yes	No	No	N/A
d)	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 providers existing commitments?	Yes	No	No	N/A
e)	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	Yes	No	No	N/A
f)	Comply with federal, state, and local statutes and regulations related to solid waste?	Yes	No	No	N/A

a) No Impact. The project would not alter population, housing, nor commercial or recreational facilities that would require increased wastewater services. The project itself does not require wastewater services, but rather would move sewer infrastructure out of the floodplain. Consistent with the 2015 IS/MND, the project would not alter MPUD's ability to meet wastewater treatment requirements. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

b) Less than Significant. Since adoption of the 2015 IS/MND, the CEQA Appendix G questions have been revised to include impacts related to the relocation or construction of new or expended electric power, natural gas, and telecommunications facilities. Despite having not been examined in the 2015 IS/MND, the project would not result in a new significant impact regarding these types of facilities because the project would not increase demand for electric power, natural gas, or telecommunications.

Consistent with the 2015 IS/MND, the project would extend the life span and reliability of Markleeville's aging wastewater facilities. However, it would not expand capacity or modify the service area of the wastewater system. The direct environmental effects of construction and operation of the modified sewer system are evaluated throughout the 2015 IS/MND, and the appropriate coverage of the project in that document is validated in this addendum.

The project would result in improvements to Markleeville's stormwater drainage system because the project would involve modifying the MPUD access road to improve drainage and relocating sewer facilities out of the floodplain. In this way, the project would improve on-site drainage patterns and reduce impediments to stormwater flows.

The project would not result in a new or substantially more severe impact regarding water, wastewater treatment, stormwater drainage, electric power, natural gas, or telecommunications facilities, and no additional mitigation would be required.

- c) Less than Significant. Consistent with the 2015 IS/MND, the project would require water during construction for dust control. However, this demand would be short-term and would not require substantial quantities of water. The relocation of sewer infrastructure would not result in a long-term increase in water demand. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- d) **No Impact.** Consistent with the 2015 IS/MND, the project would not require wastewater services but would provide wastewater services for the community. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.
- e,f) Less than Significant. Consistent with the 2015 IS/MND, the project would require disposal of waste material during construction. However, waste generated by the project would be minimal and would not be in excess of State or local standards. All waste would be disposed consistent with all federal, State, and local regulatory standards. The project would not result in a new or substantially more severe impact, and no additional mitigation would be required.

4.19 WILDFIRE

Section 3.8 of the 2015 IS/MND evaluates the impacts of the project related to hazards and hazardous materials, which includes risks related to wildland fires. However, wildfire as a distinct environmental resource topic was not evaluated in the 2015 IS/MND because this topic was not required by CEQA until 2019. Therefore, this addendum includes a full analysis of wildfire impacts.

4.19.1 Environmental Checklist and Discussion

	LDFIRE buld the Project	Impact Examined in 2015 IS/MND?	Do Proposed Changes Involve New or Substantially More Severe Significant Impacts?	Do Any New Circumstances Involve New or Substantially More Severe Significant Impacts?	Do Mitigation Measures in the 2015 IS/MND Address / Resolve Impacts, Including Impacts That Would Otherwise be New or Substantially More Severe?
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan?	No	No	No	N/A
b)	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	No	No	No	N/A
C)	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	No	No	No	N/A
d)	Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	No	No	No	N/A

Section 3.8, "Hazards and Hazardous Materials," of the 2015 IS/MND evaluated impacts of the project related to wildfire hazard. However, since adoption of the 2015 MND, the CEQA Guidelines have added wildfire as a distinct environmental resource topic with several new Appendix G criteria that vary from the single wildfire-related criterion included in the 2015 IS/MND. For these reasons, this addendum includes a full analysis of wildfire impacts to reflect the current CEQA Guidelines.

The majority of the project site and surrounding area is within the State Responsibility Area (SRA) and is within a veryhigh fire hazard severity zone (CAL FIRE 2020). Alpine County is currently preparing a Wildfire Risk Mitigation Plan to reduce wildfire risk and protect important resources in the county (Alpine County 2020). In 2009, a Community Wildfire Protection Plan was prepared to include recommendations for mitigating wildland fire threats to property. The document includes mitigation such as identifying wildland urban interface areas, reduce fire fuels, and develop partnerships to reduce fire risk (Alpine County 2018).

The California Department of Forestry (CDF) is responsible for providing wildland fire protection on all State and private timberlands, watersheds, and rangelands in Alpine County. The CDF contracts out this responsibility to USFS. In general, the USFS is adequately prepared to protect developed areas. However, Forest Service fire fighters are not equipped, trained, or legally permitted to fight structural fires. The County is served by volunteer fire departments located in the population centers of the county for structural fire protection. Fire protection in Markleeville is

provided by Eastern Alpine Fire and Rescue Volunteer Fire Department (Woodfords Fire Department). Alpine County Fire Station #92 and Woodfords Fire Station are located along Hot Springs Road, adjacent to downtown Markleeville.

- a) Less than Significant. The project would not require any road closures or result in delays along any emergency evacuation or response routes. Therefore, the project could not impair an adopted emergency response plan or emergency evacuation plan. The project would result in a less-than-significant impact on emergency access and no mitigation would be required.
- b) Less than Significant. The project site is located in a historic floodplain, which does not have a steep incline. As discussed in the 2015 IS/MND, project would not involve construction of new structures that would result in increased human exposure to wildfire hazards. Thus, the project would not result in the uncontrolled spread of a wildfire or the exposure of project occupants to pollutant concentrations from a wildfire. The project would result in a less-than-significant impact and no mitigation would be required.
- c) Less than Significant. Temporary construction activity could involve limited risk of fire due to equipment and vehicles used during construction as well as certain worker behavior, such as smoking and disposing of cigarettes or parking vehicles on dry vegetation. However, once operational, the relocated sewer infrastructure would not exacerbate existing fire risk. As discussed in the 2015 IS/MND, the project would not involve new structures (i.e., residences, schools) that would result in a substantial in human exposure to wildland fire hazards. Therefore, the project would result in a less-than-significant impact and no mitigation would be required.
- d) Less than Significant. As discussed in Section 4.10, "Hydrology and Water Quality," runoff occurs naturally within the project area and flooding events have occurred historically and are likely to occur in the future. However, the project would improve the drainage patterns on-site and relocate sewer infrastructure out of the flood zone, which would decrease potential exposure of people and structures to significant risks as a result of runoff, post-fire slope instability, or drainage changes. Additionally, the project site does not have steep slopes. For these reasons, the project would result in a less-than-significant impact and no mitigation would be required.

4.19.2 Conclusion

As described in Chapter 3 of this document, "Project Description," and Chapter 4, "Coverage Under the 2015 IS/MND," none of the conditions described in CEQA Guidelines Section 15162 calling for preparation of a subsequent document have occurred. As documented throughout the environmental checklist and discussion, changes to the approved 2015 Project in connection with the Markleeville Sewer Pump Station Relocation and Improvements Project and any altered conditions since adoption of the MND in 2015 would:

- ▶ not result in any new significant environmental effects, and
- not substantially increase the severity of previously identified significant effects.

In addition, no new information of substantial importance has arisen that shows that:

- the Project would have new significant effects,
- ▶ the Project would have substantially more severe effects,
- ▶ mitigation measures or alternatives previously found to be infeasible would in fact be feasible, or
- mitigation measures or alternatives that are considerably different from those analyzed in the EIR would substantially reduce one or more significant effects on the environment.

Therefore, the differences between the approved project as evaluated in the 2015 IS/MND, and the sewer system modifications now being considered constitute changes consistent with CEQA Guidelines Section 15164. Through this addendum, MPUD has determined that no subsequent negative declaration is required for the Markleeville Sewer Pump Station Relocation and Improvements Project.

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5 MITIGATION MEASURES

The following mitigation measures were adopted upon approval of the 2015 MND and would be applicable to the mitigation of impacts associated with the Markleeville Sewer Pump Station Relocation and Improvements Project. To support proper implementation of the adopted mitigation measures, additional clarification and prescriptive measures have been provided herein.

5.1 AIR QUALITY

Mitigation Measure AQ-1 (per page 3-30 of the 2015 IS/MND)

The following fugitive dust control measures, as outlined in the GBUAPCD's Rule 401, shall be implemented during construction to ensure that particulate matter (i.e., fugitive dust) emissions would be limited. MPUD shall take reasonable precautions to prevent visible particulate matter from being airborne, under normal wind conditions, beyond the property from which the emission originates. Reasonable precautions include, but are not limited to:

- Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
- Application of asphalt, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can give rise to airborne dusts;
- Installation and use of hoods, fans, and fabric filters, to enclose and vent the handling of dusty materials.
 Adequate contaminant methods shall be employed during such handling operations;
- Use of water, chemicals, chuting, venting, or other precautions to prevent particulate matter from becoming airborne in handling dusty materials to open stockpiles and mobile equipment; and
- Maintenance of roadways in a clean condition.

5.2 BIOLOGICAL RESOURCES

Mitigation Measure BIO-1: A pre-construction plant survey within the project disturbance footprint shall be conducted a qualified biologist to identify any special status plants and create construction exclusion areas.

Mitigation Measure BIO-1a: Conduct Special-Status Plant Surveys and Implement Avoidance Measures and Mitigation

- Prior to implementation of project activities and during the period when special-status plant species with potential to occur in the project site (Table 4-2) are most identifiable (generally, the blooming period of flowering plants or sporophyte period of bryophytes), a qualified botanist will conduct protocol-level surveys for special-status plants within the project site following survey methods from the CDFW Protocols for Surveying and Evaluating Impacts on Special Status Native Plant Populations and Natural Communities (CDFW 2018). The qualified botanist will 1) be knowledgeable about plant taxonomy, 2) be familiar with plants of the Sierra Nevada region, including special-status plants and sensitive natural communities, 3) have experience conducting floristic botanical field surveys as described in CDFW 2018, 4) be familiar with the *California Manual of Vegetation* (Sawyer et al. 2009 or current version, including updated natural communities data at http://vegetation.cnps.org/), and 5) be familiar with federal and state statutes and regulations related to plants and plant collecting.
- ► If special-status plants are not found, the botanist will document the findings in a letter report to MPUD and no further mitigation will be required.
- ► If special-status plant species are found, the occupied habitat will be avoided completely, if feasible (i.e., project objectives can still be met). This may include establishing a no-disturbance buffer around the plant population and demarcation of this buffer by a qualified botanist using flagging or high-visibility construction fencing. The size of

the buffer will be determined by the qualified botanist and will be large enough to avoid direct or indirect impacts on the plant.

	-						-			-		
Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mountain bent grass												
Upswept moonwort												
Davy's sedge												
Porcupine sedge												
Liddon's sedge												
Western valley sedge												
Marsh willowherb												
Blandow's bog moss ²	-	-	-	-	-	-	-	-	-	-	-	-
Alder buckthorn												

Table 4-2Typical Blooming Period for Special-Status Plants that May Occur within the Project Site1

¹ Blooming periods vary annually based on annual climatic variation and across species range. It is essential to base survey timing on current conditions in the survey year and it is recommended that reference populations are visited to verify species are identifiable during the survey period.

² Non-blooming bryophyte species

Source: Data compiled by Ascent Environmental in 2021; CNPS 2020

- If special-status plants are found during rare plant surveys and cannot be avoided, MPUD will consult with CDFW or U.S. Fish and Wildlife Service (USFWS), as appropriate depending on species status, to determine the compensation necessary to achieve no net loss of occupied habitat or individuals. Mitigation measures may include, but are not limited to, preserving and enhancing existing populations, creating off-site populations on mitigation sites through seed collection or transplantation at a 1:1 ratio, and restoring or creating suitable habitat in sufficient quantities to achieve no net loss of occupied habitat or individuals. Potential mitigation sites could include suitable locations within or outside of the project site. MPUD will develop and implement a site-specific mitigation strategy describing how unavoidable losses of special-status plants will be compensated. Success criteria for preserved and compensatory populations will include:
 - The extent of occupied area and plant density (number of plants per unit area) in compensatory populations will be equal to or greater than the affected occupied habitat.
 - Compensatory and preserved populations will be self-producing. Populations will be considered selfproducing when:
 - plants reestablish annually for a minimum of five years with no human intervention such as supplemental seeding; and
 - reestablished and preserved habitats contain an occupied area and flower density comparable to existing occupied habitat areas in similar habitat types in the project vicinity.
 - If off-site mitigation includes dedication of conservation easements, purchase of mitigation credits, or other off-site conservation measures, the details of these measures will be included in the mitigation plan, including information on responsible parties for long-term management, conservation easement holders, long-term management requirements, success criteria such as those listed above and other details, as appropriate to target the preservation of long-term viable populations.

Mitigation Measure BIO-2: Pre-construction wildlife and amphibian surveys of the disturbance footprint shall be conducted by qualified biologists to identify any special status wildlife and amphibian species present, designate exclusion zones, and/or perform removals.

Mitigation Measure BIO-2a: Implement Limited Operating Period or Conduct Focused Surveys for Ringtail

- To minimize the potential for loss of ringtail and active ringtail dens, project activities (e.g., tree removal, other vegetation removal, ground disturbance, staging) within habitat potentially suitable for ringtail (i.e., forest habitat, scrub habitat, riparian habitat) will be conducted outside of the ringtail maternity season (not well defined, but approximately April 15–July 31), if feasible.
- If the limited operating period is not feasible, and construction activities would occur from April 15–July 31, additional preconstruction surveys would be required. No more than 30 days before initiation of project activities, within potentially suitable ringtail habitat, a qualified biologist with experience conducting ringtail surveys will conduct a focused survey for potential ringtail dens (e.g., hollow trees, snags, rock crevices) within the project site. The qualified biologist will document sightings of individual ringtails, as well as potential dens.
- If individuals or potential or occupied dens are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.
- If ringtails are identified or if potential dens are located, an appropriate method will be used by the qualified wildlife biologist to confirm whether a ringtail is occupying the den. This may include use of remote field cameras, track plates, or hair snares. Other devices, such as a fiber optic scope, may be utilized to determine occupancy.
 - If potential dens are not occupied, the entrances will be temporarily blocked so that no other animals
 occupy the project site during project activities, but only after it has been fully inspected. The blockage
 will be removed once the project activities are completed.
 - If a den is found to be occupied by a ringtail, a no-disturbance buffer will be established around the
 occupied den. The no-disturbance buffer will include the den tree (or other structure) plus a suitable buffer
 as determined by the biologist in coordination with CDFW. Project activities in the no-disturbance buffer
 will be avoided until the den is unoccupied as determined by the qualified wildlife biologist in coordination
 with CDFW.

Mitigation Measure BIO-2b: Conduct Preconstruction Surveys for Sierra Nevada Mountain Beaver and Implement Protective Buffers

- No more than 30 days prior to any ground disturbance or vegetation removal activities within 200 feet of Markleeville Creek, a preconstruction survey for Sierra Nevada mountain beaver will be conducted by a qualified biologist familiar with the species. Surveys would consist of burrow searches within habitat suitable for the species.
- If individuals or occupied burrows are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.
- If active breeding/burrow sites are identified within 250 feet of project activities, MPUD will implement a limited operating period during the Sierra Nevada mountain beaver breeding season (February 1–July 31) during which no ground disturbance, vegetation or tree removal, or staging activities will occur within 250 feet of the identified burrow. The limited operating period, area within which it is implemented (e.g., 250-foot buffer), and activities allowed or prohibited within the limited operating period may be adjusted through consultation with CDFW.

Mitigation Measure BIO-2c: Conduct Preconstruction Surveys for Sierra Nevada Snowshoe Hare and Western White-Tailed Jackrabbit and Implement Protective Buffers

- ► No more than 30 days prior to any ground disturbance or vegetation removal activities during the Sierra Nevada snowshoe hare and western white-tailed jackrabbit breeding season (February 1–July 31), a preconstruction survey for nests of both species will be conducted by a qualified biologist familiar with the species. Surveys would consist of walking transects to determine whether active nests of either species are present within suitable habitat areas of the project site (e.g., scrub, forest).
- If individuals or active nests are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.

► If active nests are identified, MPUD will implement a limited operating period during the Sierra Nevada snowshoe hare and western white-tailed jackrabbit breeding season (February 1–July 31) during which no ground disturbance, vegetation or tree removal, or staging activities will occur within 250 feet of the identified nest. The limited operating period, area within which it is implemented (e.g., 250-foot buffer), and activities allowed or prohibited within the limited operating period may be adjusted through consultation with CDFW.

Mitigation Measure BIO-2d: Conduct Focused Special-Status Bat Surveys and Implement Avoidance Measures

- ► In the early planning stages of the project, a qualified biologist familiar with bats and bat ecology and experienced in conducting bat surveys will conduct surveys for bat roosts in suitable habitat (e.g., large trees, crevices, cavities, exfoliating bark, bridges, unoccupied buildings) within and adjacent to the project site.
- ► If no evidence of bat roosts is found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and no further study will be required.
- ► If evidence of bat roosts is observed, the species and number of bats using the roost will be determined. Bat detectors shall be used if deemed necessary to supplement survey efforts by the qualified biologist.
- A no-disturbance buffer of 250 feet will be established around active pallid bat, Townsend's big-eared bat, or western red bat roosts, and project activities will not occur within this buffer until after the roosts are unoccupied.
- If roosts of pallid bat, Townsend's big-eared bat, or western red bat are determined to be present and must be removed, the bats will be excluded from the roosting site before the tree, building, or other structure is removed. A program addressing compensation, exclusion methods, and roost removal procedures will be developed in consultation with CDFW before implementation. Exclusion methods may include use of one-way doors at roost entrances (bats may leave but not reenter) or sealing roost entrances when the site can be confirmed to contain no bats. Exclusion from active maternity roosts will not occur while females in maternity colonies are nursing young. Exclusion efforts may be restricted during other periods of sensitive activity (e.g., during hibernation). The loss of each roost (if any) will be replaced in consultation with CDFW and may require construction and installation of bat boxes suitable to the bat species and colony size excluded from the original roosting site. If determined necessary during consultation with CDFW, replacement roosts will be implemented before bats are excluded from the original roost sites. Once the replacement roosts are constructed and a qualified biologist confirms that bats are not present in the original roost site, the roost tree, building, or other structure may be removed or sealed to prevent bats from reentering.

Mitigation Measure BIO-3: Impacts to active nests will be avoided by the establishment and maintenance of buffers around the nests. The appropriate size and shape of the buffers will be determined by a qualified biologist in consultation with the CDFW, and may vary depending on the nest location, nest stage, and construction activity. No project activity will occur within the buffer area until the biologist confirms that the nest is no longer active. Monitoring will be conducted to confirm that the Project activities are not resulting in detectable adverse effects to the active nests.

Mitigation Measure BIO-3a: Conduct Focused Surveys for Special-Status Birds and Other Native Nesting Birds and Implement Protective Buffers

- ► To minimize the potential for loss of special-status bird species, raptors, and other native birds, project activities (e.g., tree removal, other vegetation removal, ground disturbance, staging) will be conducted during the nonbreeding season (approximately September 1-January 31, as determined by a qualified biologist), if feasible. If project activities are conducted during the nonbreeding season, no further mitigation will be required.
- ► Within 14 days before the onset of project activities during the breeding season (approximately February 1 through August 31, as determined by a qualified biologist), a qualified biologist familiar with birds of California and with experience conducting nesting bird surveys will conduct focused surveys for special-status birds, other nesting raptors, and other native birds and will identify active nests within 500 feet of the project site (where accessible).
- Impacts on nesting birds will be avoided by establishing appropriate buffers around active nest sites identified during focused surveys to prevent disturbance to the nest. Project activity will not commence within the buffer areas

until a qualified biologist has determined that the young have fledged, the nest is no longer active, or reducing the buffer will not likely result in nest abandonment. A qualified biologist will determine the appropriate buffer size for non-raptor nests after a site- and nest-specific analysis. Buffers typically will be 500 feet for raptors and 100 feet for non-raptor species. Factors to be considered for determining buffer size will include presence of natural buffers provided by vegetation or topography, nest height above ground, baseline levels of noise and human activity, species sensitivity, and proposed project activities. The size of the buffer may be adjusted if a qualified biologist determines that such an adjustment would not be likely to adversely affect the nest. Any buffer reduction for a special-status species will require consultation with CDFW. Periodic monitoring of the nest by a qualified biologist during project activities will be required if the activity has potential to adversely affect the nest, the buffer has been reduced, or if birds within active nests are showing behavioral signs of agitation (e.g., standing up from a brooding position, flying off the nest) during project activities, as determined by the qualified biologist.

Mitigation Measure BIO-4: Implement Avoidance Measures and Compensate for Unavoidable Impacts on Riparian Habitat

Before implementation of project activities, riparian habitats previously mapped during preparation of the 2015 IS/MND will be flagged or fenced with brightly visible construction flagging and/or fencing under the direction of a qualified biologist and no project activities (e.g., vegetation removal, ground disturbance, staging) will occur within these areas. Foot traffic by personnel will also be limited in these areas to prevent the introduction of invasive or weedy species or inadvertent crushing of plants. Periodic inspections during construction will be conducted by the monitoring biologist to maintain the integrity of exclusion fencing/flagging throughout the period of construction involving ground disturbance.

If riparian habitat in the project site cannot be avoided, the following measures will be implemented:

- A Streambed Alteration Notification will be submitted to CDFW, pursuant to Section 1602 of the California Fish and Game Code. If proposed project activities are determined to be subject to CDFW jurisdiction, MPUD will abide by the measures to protect fish and wildlife resources, required by any executed agreement, prior to any vegetation removal or activity that may affect the resource. Measures to protect fish and wildlife resources shall include, at a minimum, a combination of the following mitigation.
- MPUD will compensate for the loss of riparian habitat such that no net loss of habitat function and values occurs by:
 - restoring riparian habitat function and value within the project site;
 - restoring degraded riparian habitat outside of the project site;
 - purchasing riparian habitat credits at a CDFW-approved mitigation bank; or
 - preserving existing riparian habitat of equal or better value to the affected riparian habitat through a conservation easement at a sufficient ratio to offset the loss of riparian habitat function (at least 1:1).
- ► MPUD will prepare and implement a Compensatory Mitigation Plan that will include the following:
 - For preserving existing riparian habitat outside of the project site in perpetuity, the Compensatory Mitigation Plan will include a summary of the proposed compensation lands (e.g., the number and type of credits, location of mitigation bank or easement), parties responsible for the long-term management of the land, and the legal and funding mechanism for long-term conservation (e.g., holder of conservation easement or fee title).
 - For restoring or enhancing riparian habitat within the project site or outside of the project site, the Compensatory Mitigation Plan will include a description of the proposed habitat improvements, success criteria that demonstrate the performance standard of maintained habitat function has been met, legal and funding mechanisms, and parties responsible for long-term management and monitoring of the restored or enhanced habitat.
 - Compensatory mitigation may be satisfied through compliance with permit conditions, or other authorizations obtained by MPUD (e.g., Lake and Streambed Alteration Agreement), if these requirements are equally or more effective than the mitigation identified above.

Mitigation Measure BIO-5: Implement Avoidance Measures and Compensate for Unavoidable Impacts on Wetlands

- Before implementation of project activities, a qualified biologist will mark the jurisdictional boundaries of the onsite wetlands with high-visibility flagging, fencing, stakes, or clear, existing landscape demarcations (e.g., edge of a roadway).
- Project activities (e.g., ground disturbance, vegetation removal, staging) will be prohibited within the wetland boundaries. The qualified biologist will periodically inspect the materials demarcating the wetland boundaries to confirm that they are intact and visible, and wetland impacts are being avoided.
- ► If it is determined that fill of waters of the United States would result from project implementation, authorization for such fill will be secured from U.S. Army Corps of Engineers (USACE) through the Section 404 permitting process. Any waters of the United States that would be affected by the project will be replaced or restored on a no-net-loss basis in accordance with the applicable USACE mitigation guidelines in place at the time of construction. In association with the Section 404 permit (if applicable) and prior to the issuance of any grading permit, Section 401 Water Quality Certification from the Lahontan RWQCB will be obtained.
- ► If it is determined that fill of waters of the state, including state-protected wetlands, cannot be avoided, MPUD will submit an application for discharges of dredged or fill material to the Lahontan RWQCB before commencing activity that may result in discharge of dredged or fill material to waters of the state. MPUD will not commence any activity in waters of the state until permitted by the Lahontan RWQCB and MPUD will implement all protection measures and comply with all conditions of the permit.
- MPUD will restore all waters of the state following completion of project construction. A draft restoration plan outlining design, implementation, assessment, and maintenance for restoring temporary disturbance areas will be submitted to the Lahontan RWQCB with the application for discharge of dredged or fill material to waters of the state and will be implemented as approved by the Lahontan RWQCB.
- If any waters of the state cannot be restored on site, MPUD will implement a compensatory mitigation plan resulting in no net loss of the overall abundance, diversity, and condition of aquatic resources based on an assessment of the affected watershed. MPUD may compensate for loss of waters of the state by purchasing credits from a RWQCB-approved mitigation bank or in-lieu fee program, or through restoration or establishment of wetlands or non-wetland waters comparable to those affected by the project.

5.3 ARCHAEOLOGICAL, HISTORICAL, AND TRIBAL CULTURAL RESOURCES

Mitigation Measure CR-1: Prepare a Section 106 Cultural Resources Inventory and Evaluation Report and/or Historic Properties Survey Report, Historic Properties Evaluation Report, and Archaeological Survey Report

Consistent with Mitigation Measure CR-1, "Prepare a Section 106 Cultural Resources Inventory and Evaluation Report and/or Historic Properties Survey Report, Historic Properties Evaluation Report, and Archaeological Survey Report," of the 2015 IS/MND, an updated cultural resources inventory was conducted in 2020 by Natural Investigations Company in compliance with Section 21083.2 of the CEQA statutes, Section 15064.5 of the CEQA Guidelines, and Section 106 of the federal National Historic Preservation Act (NHPA). The 2020 Cultural Resources Inventory Report includes a cultural resources literature search, Sacred Lands File search, paleontological sensitivity analysis, intensive pedestrian survey of the area of potential effects (APE), and an inventory report (NIC 2020).

Mitigation Measure CR-2: Avoidance and Protection Measures for Rock Wall #1 of the National Register Listed Alpine County Courthouse

Consistent with Mitigation Measure CR-2, "Avoidance and Protection Measures for Rock Wall #1 of the National Register Listed Alpine County Courthouse," of the 2015 IS/MND, the project site boundary has been revised. The sewer improvements project boundary does not include Wall #1 associated with the National-Register-listed Alpine County Courthouse. Wall #1 would be avoided and protected.

Mitigation Measure CR-3: Construction Crew Education/Tailboard Meeting and Accidental Discovery of Archaeological Resources Procedures

Prior to the start of construction, MPUD will ensure that all construction personnel, including construction forepersons and field supervisors receive training by a qualified professional archaeologist, as defined by the Secretary of the Interior, and who is experienced in teaching non-specialists, to ensure they can recognize cultural resources materials in the event any are discovered during construction.

Furthermore, to avoid any potential adverse effect from the proposed project on accidentally discovered buried historical resources as defined in CEQA Guidelines Section 15064.5(a)(c), MPUD will distribute a cultural resources ALERT sheet to the project's prime contractor; to any project subcontractor (including firms providing services such as demolition, excavation, grading, etc.), or utilities firms involved in soils disturbing activities within the project site. The ALERT sheet provides workers notice that cultural resources may be encountered during excavation and instructions on what to do if evidence of an archaeological site is encountered. Prior to any soils disturbing activities being undertaken, each contractor is responsible for ensuring that the ALERT sheet is circulated to all field personnel, including: machine operators, field crew, supervisory personnel, etc. The prime contractor will provide MPUD with a signed affidavit from the responsible parties (prime contractor, subcontractor[s], and utilities firms) confirming that all field personnel have received copies of the ALERT Sheet.

Should any indication of an archaeological resource be encountered during any soils disturbing activity of the project, the contractor will immediately notify MPUD and suspend any soils disturbing activities within 150 feet of the discovery until the find can be assessed by a qualified professional archaeologist, the qualified professional will determine what additional measures should be undertaken.

The qualified professional archaeologist will advise MPUD as to whether the discovery is an archaeological resource, retains sufficient integrity, and it of potential scientific, historical, and/or cultural significance. If an archaeological resource is present, the archaeological consultant will identify and evaluate the archaeological resource. The archaeological consultant will make a recommendation as to what action, if any, is warranted. Based on this information, if warranted, specific additional measures may be implemented.

Measures might include: preservation in situ of the archaeological resource; an archaeological monitoring program; and/or an archaeological testing program. MPUD may also require that a site security program be implemented if the resource is at risk from vandalism, looting, or other damaging actions.

The archaeological consultant will submit a final report that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological monitoring/data recovery program(s) undertaken. Information that may put at risk any archaeological resource will be provided in a separate removable insert within the final report.

Copies of the final report will be sent to Alpine County and the Central California Information Center, along with copies of any formal recordation forms (CA DPR 523 series) and/or documentation for nomination to the NRHP/CRHR. In instances of high public interest or interpretive value, Alpine County may require a different final report content, format and distribution from that presented above.

Mitigation Measure CR-4: Preserve Human Remains if Encountered

If human remains are encountered during construction, MPUD will notify the Alpine County Coroner immediately, as required by California PRC Code §5097.98. A qualified professional archaeologist will also be contacted immediately. If the County Coroner determines that the remains are Native American, the Coroner will then contact the NAHC, pursuant to Section 7050.5[c] of the California Health and Safety Code.

There will be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie human remains until the County Coroner has determined that no investigation of the cause of death is required or if remains are Native American. If the remains are of Native American in origin:

► Within 24 hours of notification, the NAHC will identify a Native American "most likely descendant" (MLD) to make a recommendation regarding appropriate treatment of the human remains.

► If the identified MLD fails to make a recommendation within 48 hours of being notified, Alpine County will work with the NAHC to determine appropriate means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods, as provided in PRC Section 5097.98.

5.4 HYDROLOGY AND WATER QUALITY

Mitigation Measure HYRO-1 (per page 3-77 of the 2015 IS/MND)

Temporary erosion/runoff best management control measures will be implemented during construction to minimize storm water pollution resulting from erosion and sediment migration from the construction, borrow, and staging areas. These temporary control measures will include implementing construction staging in a manner that minimizes the amount of area disturbed at any one time; secondary containment for storage of fuel and oil; and the management of stockpiles and disturbed areas by means of earth berms, diversion ditches, straw wattles, straw bales, silt fences, gravel filters, mulching, re-vegetation, and temporary covers as appropriate. Erosion and storm water pollution control measures will be consistent with NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities requirements, and will be included in a site specific SWPPP.

After completion of construction activities, the temporary facilities will be demobilized and site restoration measures will be implemented to minimize soil erosion. Site restoration measures for areas disturbed by construction activities, including the borrow area and laydown/staging areas, may include regrading, reseeding, construction of permanent diversion ditches, use of straw wattles and bales, application of straw mulch, and other measures deemed appropriate to meet all applicable erosion control requirements.

6 REFERENCES

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No references are used in this chapter.

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6.5 ARCHAEOLOGICAL, HISTORICAL, AND TRIBAL CULTURAL RESOURCES

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Appendix A

Biological Research Data Results



California Department of Fish and Wildlife



California Natural Diversity Database

Query Criteria: Quad IS (Freel Peak (3811978) OR Woodfords (3811977) OR Carters Station (3811976) OR Carson Pass (3811968) OR Carters Station (3811976) OR Carson Pass (3811968) OR Markleeville (3811967) OR Heenan Lake (3811966) OR Barkleeville (3811956) OR Heenan Lake (3811957) OR Pacific Valley (3811958))

Map Index Number:	A1052		EO Index:	102613
Key Quad:	Freel Peak (38	11978)	Element Code:	AAAA01085
Occurrence Number:	434		Occurrence Last Up	
	-0-			
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern long-toed salamander
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Rank	s: Global:	G5T4		
	State:	S3		
General Habitat:			Micro Habitat:	
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, S.	BREEDING SEASON	DCCUR IN PONDS AND LAKES. OUTSIDE OF N ADULTS ARE TERRESTRIAL AND ASSOCIATED IND BURROWS OF MAMMALS AND MOIST AREAS ROCKS.
Last Date Observed:	2015-08-11		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2015-08-11		Occurrence Rank:	Unknown
Owner/Manager:	USFS-LAKE TA	HOE BMU	Trend:	Unknown
Presence:	Presumed Exta	nt		
Location:				
PONDS 1.5 TO 1.8 MIL	ES WEST OF AF	MSTRONG PASS, NORTH OF H	IELL HOLE, SOUTH OF SC	OUTH LAKE TAHOE.
Detailed Location:				
Ecological:				
Threats:				
General:				
275 LARVAE FOUND C 2015, AND 6 LARVAE F			JN 2013, 7 ADULTS ON 7 J	IUL 2014, 105 LARVAE BETWEEN 22 AND 23 JUN
PLSS: T12N, R18E, S	Sec. 36, SW (M)	Accuracy:	specific area	Area (acres): 27
UTM: Zone-11 N430	2778 E244391	Latitude/Longitude:	38.83671 / -119.94485	Elevation (feet): 8,200
County Summary:		Quad Summary:		
El Dorado		Freel Peak (3811978)		
Sources:				
		EOLOGICAL SURVEY-WESTERN ENCES FROM 1992-2008 2008-0		H CENTER) - MULTI-SPECIES EXCEL DATABASE OF
USFNDD0002 U.S.		E-REGION 5 - NATURAL RESO		TEM (NRIS) ANIMAL RECORDS FROM CALIFORNIA



California Department of Fish and Wildlife



	: 74	604		EO Index:		102614	
Key Quad:	Fr	eel Peak (3	811978)	Element Code:		AAAA01085	
Occurrence Numbe	er: 43	35		Occurrence Last U	Occurrence Last Updated: 2016-10-		
Scientific Name:	Ambys	stoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:		Federal:	None	Rare Plant Rank:			
		State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Ra	anks:	Global:	G5T4				
		State:	S3				
General Habitat:				Micro Habitat:			
HIGH ELEVATION I CASCADE, AND KL			KES IN THE SIERRA NEVADA NS.	BREEDING SEASO	N ADULTS	N PONDS AND LAKES. OUTSIDE OF S ARE TERRESTRIAL AND ASSOCIATED ROWS OF MAMMALS AND MOIST AREAS	
Last Date Observe	d: 201	15-08-11		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	201	15-08-11		Occurrence Rank:	Unknow	n	
Owner/Manager:	US	FS-LAKE T	AHOE BMU	Trend:	Unknow	n	
Presence:	Pre	sumed Exta	ant				
Location:							
HELL HOLE MEAD	OW ALO	NG TROUT	CREEK TRIBUTARY, ABOUT	4 MILES SE OF MEYERS, S	OUTH OF	LAKE TAHOE.	
Detailed Location:							
Ecological:							
Ecological: Threats:							
Ecological: Threats: General: 1 SUBADULT AND) ON 19 AUG 1997, 1 ADULT O ARVAE ON 11 AUG 2015.	N 13 JUN 2000, 1 LARVA ON	17 AUG 20	012, 5 SUBADULTS ON 27 JUN 2013, 1	
	AUG 201	14 AND 7 L/		N 13 JUN 2000, 1 LARVA ON specific area	17 AUG 20)12, 5 SUBADULTS ON 27 JUN 2013, 1 Area (acres): 44	
Ecological: Threats: General: 1 SUBADULT AND SUBADULT ON 13 /	AUG 201 E, Sec. (14 AND 7 L/ 01, W (M)	ARVAE ON 11 AUG 2015.	specific area	I 7 AUG 20		
Ecological: Threats: General: 1 SUBADULT AND SUBADULT ON 13 J PLSS: T11N, R18 UTM: Zone-11 N	AUG 201 E, Sec. (14 AND 7 L/ 01, W (M)	ARVAE ON 11 AUG 2015. Accuracy:	specific area	I 7 AUG 20	Area (acres): 44	
Ecological: Threats: General: 1 SUBADULT AND SUBADULT ON 13 J PLSS: T11N, R18	AUG 201 E, Sec. (14 AND 7 L/ 01, W (M)	ARVAE ON 11 AUG 2015. Accuracy: Latitude/Longitude	specific area : 38.82748 / -119.94486	I 7 AUG 20	Area (acres): 44	
Ecological: Threats: General: 1 SUBADULT AND SUBADULT ON 13 J PLSS: T11N, R18 UTM: Zone-11 N- County Summary: El Dorado	AUG 201 E, Sec. (14 AND 7 L/ 01, W (M)	ARVAE ON 11 AUG 2015. Accuracy: Latitude/Longitude Quad Summary:	specific area : 38.82748 / -119.94486	I 7 AUG 20	Area (acres): 44	
Ecological: Threats: General: 1 SUBADULT AND SUBADULT ON 13 J PLSS: T11N, R18 UTM: Zone-11 N- County Summary: El Dorado Sources: FEL08D0001 FI	AUG 201 E, Sec. (4301753 ELLERS,	14 AND 7 L/ 01, W (M) E244356	ARVAE ON 11 AUG 2015. Accuracy: Latitude/Longitude Quad Summary: Freel Peak (3811978	specific area 38.82748 / -119.94486 8) RN ECOLOGICAL RESEARC		Area (acres): 44 Elevation (feet): 8,350	
Ecological: Threats: General: 1 SUBADULT AND SUBADULT ON 13 J PLSS: T11N, R18 UTM: Zone-11 N- County Summary: El Dorado Sources: FEL08D0001 FI Al OSB01U0002 O	AUG 201 E, Sec. (4301753 ELLERS, MPHIBIA	14 AND 7 L/ 01, W (M) E244356 , G. (U.S. G N OCCURI	ARVAE ON 11 AUG 2015. Accuracy: Latitude/Longitude Quad Summary: Freel Peak (3811976 EOLOGICAL SURVEY-WESTE RENCES FROM 1992-2008 200	specific area 38.82748 / -119.94486 8) RN ECOLOGICAL RESEARC 8-09-29	CH CENTE	Area (acres): 44	



California Department of Fish and Wildlife



Map Index Number:	A1055		EO Index:		102615		
Key Quad:	Freel Peak (3811978)		Element Code:			A01085	
Occurrence Number:	436		Occurrence Last U	Occurrence Last Updated: 2016-0)7-11	
Scientific Name:	Ambystoma macro	odactylum sigillatum	Common Name:	southern lo	ng-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_SS	C-Species of Special Concern		
CNDDB Element Rank	s: Global:	G5T4					
	State:	S3					
General Habitat:			Micro Habitat:				
HIGH ELEVATION ME/ CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS . JND BURR(PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND ASS DWS OF MAMMALS AND MO	SOCIATED	
Last Date Observed:	2000-08-22		Occurrence Type:	Natural/Na	ative occurrence		
Last Survey Date:	2000-08-22		Occurrence Rank:	: Unknown			
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:			EEL MEADOWS SOUTH	OF LAKE TA	HOE.		
	MILES NORTH C	I THOMI SONT EAR, NE OF TR					
UNNAMED POND 1.3	MILES NORTH C						
UNNAMED POND 1.3 I Detailed Location:							
UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological:							
UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological: Threats:							
UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological: Threats: General:	USFS TRAIL 19E	E00.					
Location: UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological: Threats: General: 125 LARVAE FOUND (USFS TRAIL 19E	E00.					
UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological: Threats: General:	USFS TRAIL 19E DN 22 AUG 2000	E00.	80 meters		Area (acres):	5	
UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological: Threats: General: 125 LARVAE FOUND O PLSS: T11N, R18E, S	USFS TRAIL 19E DN 22 AUG 2000	E00.			Area (acres): Elevation (feet):	5 9,025	
UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological: Threats: General: 125 LARVAE FOUND O PLSS: T11N, R18E, S UTM: Zone-11 N430	USFS TRAIL 19E DN 22 AUG 2000 Sec. 12, W (M)	E00. Accuracy:	80 meters			-	
UNNAMED POND 1.3 I Detailed Location: 0.15 MILE NORTH OF Ecological: Threats: General: 125 LARVAE FOUND O PLSS: T11N, R18E, S	USFS TRAIL 19E DN 22 AUG 2000 Sec. 12, W (M)	E00. Accuracy: Latitude/Longitude:	80 meters			-	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad: Occurrence Number:	A1063 Freel Peak (3 439	811978)	EO Index: Element Code: Occurrence Last U	pdated:	102623 AAAAA01085 2016-07-12	
Scientific Name:	Ambystoma maci	rodactylum sigillatum	Common Name:	southern l	ong-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concerr	1
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAN		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS JND BURR	PONDS AND LAKES. OUTSI ARE TERRESTRIAL AND AS OWS OF MAMMALS AND MC	SOCIATED
Last Date Observed:	2001-07-24		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2001-07-24		Occurrence Rank:	Unknowr	1	
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknowr	1	
Presence:	Presumed Ext	ant				
Location:						
GRASS LAKE, SOUTH	I OF HIGHWAY 8	89, NW OF LUTHER PASS, SOUT	TH OF SOUTH LAKE TAHO	E.		
Detailed Location:						
Ecological:						
Threats:						
General:						
General:	LY 2001.					
General: DETECTED ON 24 JUI		Accuracy:	specific area		Area (acres):	51
General: DETECTED ON 24 JUI PLSS: T11N, R18E, S		Accuracy: Latitude/Longitude:	specific area 38.79302 / -119.96331		Area (acres): Elevation (feet):	51 7,700
	Sec. 14 (M)	•	•			
General: DETECTED ON 24 JUI PLSS: T11N, R18E, S	Sec. 14 (M)	Latitude/Longitude:	38.79302 / -119.96331			

AMPHIBIAN AND REPTILE SPECIES OF SPECIAL CONCERN LIST 2016-05-06



California Department of Fish and Wildlife



Map Index Number:	A1068		EO Index:		102628		
Key Quad:	Freel Peak (3811978)		Element Code:	Element Code: AAAA/		A01085	
Occurrence Number:	444		Occurrence Last Updated:		2016-07-12		
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern		
CNDDB Element Rank	s: Global:	G5T4					
	State:	S3					
General Habitat:			Micro Habitat:				
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS	N PONDS AND LAKES. OUTSIE S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MO	SOCIATED	
Last Date Observed:	2003-06-13		Occurrence Type:	Natural/	Native occurrence		
Last Survey Date:	2003-06-13		Occurrence Rank:	Unknow	'n		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknow	'n		
Presence:	Presumed Exta	ant					
Location:							
POND BETWEEN WES	T FORK CARSC	ON RIVER & HIGHWAY 88, 1.3 R	DAD MILES SW OF HIGHV	VAY 89, H0	OPE VALLEY, TOIYABE NATIO	NAL	
POND BETWEEN WES FOREST.	T FORK CARSC	ON RIVER & HIGHWAY 88, 1.3 R	DAD MILES SW OF HIGHW	VAY 89, H0	OPE VALLEY, TOIYABE NATIO	NAL	
POND BETWEEN WES FOREST. Detailed Location:	T FORK CARSC	ON RIVER & HIGHWAY 88, 1.3 R	DAD MILES SW OF HIGHV	VAY 89, HO	OPE VALLEY, TOIYABE NATIO	NAL	
POND BETWEEN WES FOREST. Detailed Location: Ecological:	T FORK CARSC	ON RIVER & HIGHWAY 88, 1.3 R	DAD MILES SW OF HIGHW	VAY 89, H(OPE VALLEY, TOIYABE NATIO	NAL	
POND BETWEEN WES FOREST. Detailed Location: Ecological: Threats:	T FORK CARSC	ON RIVER & HIGHWAY 88, 1.3 R	DAD MILES SW OF HIGHW	VAY 89, H(OPE VALLEY, TOIYABE NATIO	NAL	
POND BETWEEN WES FOREST. Detailed Location: Ecological: Threats: General:		ON RIVER & HIGHWAY 88, 1.3 R	DAD MILES SW OF HIGHW	VAY 89, H(OPE VALLEY, TOIYABE NATIO	NAL	
POND BETWEEN WES FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND ON	13 JUNE 2003.	ON RIVER & HIGHWAY 88, 1.3 RG Accuracy:	DAD MILES SW OF HIGHW	VAY 89, H	OPE VALLEY, TOIYABE NATIO Area (acres):	NAL 5	
POND BETWEEN WES FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND ON PLSS: T11N, R18E, S	13 JUNE 2003. Sec. 25, SW (M)			VAY 89, H			
POND BETWEEN WES FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND ON PLSS: T11N, R18E, S UTM: Zone-11 N429	13 JUNE 2003. Sec. 25, SW (M)	Accuracy:	80 meters	VAY 89, H	Area (acres):	5	
FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND ON PLSS: T11N, R18E, S	13 JUNE 2003. Sec. 25, SW (M)	Accuracy: Latitude/Longitude:	80 meters	VAY 89, H	Area (acres):	5	



California Department of Fish and Wildlife



Map Index Number:	A1077		EO Index:	102644		
Key Quad:	Carson Pass	(3811968)	Element Code:	AAAAA01085	A01085	
Occurrence Number:	453		Occurrence Last U	pdated: 2016-07-12	07-12	
Scientific Name: A	Ambystoma macro	odactylum sigillatum	Common Name:	southern long-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern		
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	OCCUR IN PONDS AND LAKES. OUTSID N ADULTS ARE TERRESTRIAL AND ASS JND BURROWS OF MAMMALS AND MOI ROCKS.	OCIATED	
Last Date Observed:	2003-07-02		Occurrence Type:	Natural/Native occurrence		
Last Survey Date:	2003-07-02		Occurrence Rank:	: Unknown		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
	H OF HOPE VAL	LEY CAMPGROUND, WEST OF	WEST FORK CARSON RIV	ER, TOIYABE NATIONAL FOREST.		
POND 0.7 MILE SOUTI						
POND 0.7 MILE SOUTH Detailed Location:						
Detailed Location: ON THE WEST SIDE C	OF BLUE LAKES	ROAD, 2.4 MILES SOUTH OF IT	S INTERSECTION WITH HI	GHWAY 88.		
Detailed Location: ON THE WEST SIDE C Ecological:	OF BLUE LAKES	ROAD, 2.4 MILES SOUTH OF IT	S INTERSECTION WITH HI	GHWAY 88.		
Detailed Location: ON THE WEST SIDE C Ecological: Threats:	OF BLUE LAKES	ROAD, 2.4 MILES SOUTH OF IT	S INTERSECTION WITH HI	GHWAY 88.		
Detailed Location: ON THE WEST SIDE C Ecological: Threats: General:		ROAD, 2.4 MILES SOUTH OF IT	S INTERSECTION WITH HI	GHWAY 88.		
Detailed Location: ON THE WEST SIDE C Ecological: Threats: General: 79 LARVAE FOUND Of	N 2 JULY 2003.					
Detailed Location: ON THE WEST SIDE C Ecological: Threats: General: 79 LARVAE FOUND Of PLSS: T10N, R19E, S	N 2 JULY 2003. Sec. 7, SE (M)	Accuracy:	80 meters	Area (acres):	5	
Detailed Location: ON THE WEST SIDE C Ecological: Threats: General: 79 LARVAE FOUND Of PLSS: T10N, R19E, S	N 2 JULY 2003.				5 7,200	
Detailed Location: ON THE WEST SIDE C Ecological: Threats: General: 79 LARVAE FOUND Of PLSS: T10N, R19E, S	N 2 JULY 2003. Sec. 7, SE (M)	Accuracy:	80 meters	Area (acres):		
Detailed Location: ON THE WEST SIDE C Ecological: Threats: General: 79 LARVAE FOUND OI PLSS: T10N, R19E, S UTM: Zone-11 N428	N 2 JULY 2003. Sec. 7, SE (M)	Accuracy: Latitude/Longitude:	80 meters 38.72106 / -119.92477	Area (acres):		



California Department of Fish and Wildlife



Key Quad: Occurrence Number:	A1078 Carson Pass (3811968) 454		EO Index: Element Code: Occurrence Last Updated:		102645 AAAAA01085 2016-07-12	
Scientific Name:	Ambystoma macr	odactylum sigillatum	Common Name:	southern lo	ng-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SS	C-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAN		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS A	PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND AS WS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-06-10		Occurrence Type:	Natural/Na	tive occurrence	
Last Survey Date:	2003-06-10		Occurrence Rank:	k: Unknown		
Owner/Manager:	USFS-TOIYAE	BE NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
	T OF RED LAKE	PEAK, 2.6 AIR MILES NE OF HIG	HWAY 88 AT CARSON PA	ASS, TOIYAE	BE NATIONAL FOREST.	
POND 2.2 MILES EAS	T OF RED LAKE	PEAK, 2.6 AIR MILES NE OF HIG	GHWAY 88 AT CARSON PA	ASS, TOIYAE	SE NATIONAL FOREST.	
POND 2.2 MILES EAS	T OF RED LAKE	PEAK, 2.6 AIR MILES NE OF HIG	GHWAY 88 AT CARSON P	ASS, TOIYAE	SE NATIONAL FOREST.	
POND 2.2 MILES EAS Detailed Location: Ecological:	T OF RED LAKE	PEAK, 2.6 AIR MILES NE OF HIG	GHWAY 88 AT CARSON PA	ASS, TOIYAE	SE NATIONAL FOREST.	
POND 2.2 MILES EAS Detailed Location: Ecological: Threats:	T OF RED LAKE	PEAK, 2.6 AIR MILES NE OF HIG	GHWAY 88 AT CARSON PA	ASS, TOIYAE	SE NATIONAL FOREST.	
POND 2.2 MILES EAS Detailed Location: Ecological: Threats: General:			GHWAY 88 AT CARSON PA	ASS, TOIYAE	SE NATIONAL FOREST.	
POND 2.2 MILES EAS Detailed Location: Ecological: Threats: General: 25 LARVAE FOUND O	N 10 JUNE 2003		GHWAY 88 AT CARSON PA	ASS, TOIYAE	Area (acres):	5
POND 2.2 MILES EAS Detailed Location: Ecological: Threats: General: 25 LARVAE FOUND O PLSS: T10N, R18E, 5	N 10 JUNE 2003	· ·		ASS, TOIYAE		5 7,600
POND 2.2 MILES EAS Detailed Location: Ecological: Threats: General: 25 LARVAE FOUND O PLSS: T10N, R18E, S UTM: Zone-11 N428	N 10 JUNE 2003 Sec. 13, NE (M)	Accuracy:	80 meters	ASS, TOIYAE	Area (acres):	
Detailed Location: Ecological: Threats: General: 25 LARVAE FOUND O PLSS: T10N, R18E, 3	N 10 JUNE 2003 Sec. 13, NE (M)	Accuracy: Latitude/Longitude:	80 meters 38.71264 / -119.94683	ASS, TOIYAE	Area (acres):	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad:	A1081 Carson Pass	(3811968)	EO Index: Element Code:		102648 AAAAA01085	
Occurrence Number:	457		Occurrence Last U	Occurrence Last Updated: 2016-07-12		
Scientific Name: A	mbystoma macı	rodactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS JND BURR	I PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND AS OWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-07-01		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2003-07-01		Occurrence Rank:	Unknowr	า	
Owner/Manager:	USFS-TOIYAE	BE NF	Trend:	Unknowr	า	
Presence:	Presumed Ext	ant				
Location:						
TWO PONDS, 2.9 AIR	MILES ENE OF	HIGHWAY 88 AT CARSON PASS	, EAST OF RED LAKE, TO	IYABE NAT	FIONAL FOREST.	
Detailed Location:						
U U						
Threats:						
Threats: General:						
Threats: General: 25 LARVAE FOUND Of						
	Sec. 18, SW (M)	Accuracy:	specific area		Area (acres):	10
Threats: General: 25 LARVAE FOUND ON PLSS: T10N, R19E, S	Sec. 18, SW (M)	Accuracy: Latitude/Longitude:	specific area 38.70689 / -119.93693		Area (acres): Elevation (feet):	10 7,700
Threats: General: 25 LARVAE FOUND Of PLSS: T10N, R19E, S UTM: Zone-11 N428	Sec. 18, SW (M)		•		. ,	-
Threats: General: 25 LARVAE FOUND ON PLSS: T10N, R19E, S	Sec. 18, SW (M)	Latitude/Longitude:	38.70689 / -119.93693		. ,	-



California Department of Fish and Wildlife



Key Quad: Occurrence Number:	A1092 Carson Pass 463	(3811968)	EO Index: Element Code: Occurrence Last Uj	102660 AAAAA01085 pdated: 2016-07-13		
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern lo	ong-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
-	State:	None	Other Lists:	CDFW_SS	C-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS . JND BURR(PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND ASS DWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-07-02		Occurrence Type:	Natural/Na	ative occurrence	
Last Survey Date:	2003-07-02		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:	EAST OF CARSO	ON PASS, NE OF FAITH VALLEY,	EAST OF BLUE LAKES R	OAD, TOIYA	ABE NATIONAL FOREST.	
Location: POND 3.5 AIR MILES E	EAST OF CARSC	ON PASS, NE OF FAITH VALLEY,	EAST OF BLUE LAKES RO	OAD, TOIYA	ABE NATIONAL FOREST.	
Location: POND 3.5 AIR MILES E Detailed Location:		ON PASS, NE OF FAITH VALLEY,	EAST OF BLUE LAKES R	OAD, TOIYA	ABE NATIONAL FOREST.	
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological:		ON PASS, NE OF FAITH VALLEY,	EAST OF BLUE LAKES RO	OAD, TOIY	ABE NATIONAL FOREST.	
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological: Threats:		ON PASS, NE OF FAITH VALLEY,	EAST OF BLUE LAKES R	OAD, TOIY	ABE NATIONAL FOREST.	
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological: Threats:		ON PASS, NE OF FAITH VALLEY,	EAST OF BLUE LAKES R	OAD, TOIY	ABE NATIONAL FOREST.	
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological: Threats: General:	K 8062.	ON PASS, NE OF FAITH VALLEY,	EAST OF BLUE LAKES R	OAD, TOIYA	ABE NATIONAL FOREST.	
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological: Threats: General: 18 LARVAE FOUND Of	K 8062. N 2 JULY 2003.	ON PASS, NE OF FAITH VALLEY, Accuracy:	EAST OF BLUE LAKES R	OAD, TOIYA	ABE NATIONAL FOREST. Area (acres):	5
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological: Threats: General: 18 LARVAE FOUND OF PLSS: T10N, R19E, S	K 8062. N 2 JULY 2003.			OAD, TOIY		5 7,800
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological: Threats: General: 18 LARVAE FOUND OI PLSS: T10N, R19E, S UTM: Zone-11 N428	K 8062. N 2 JULY 2003. Sec. 19, SE (M)	Accuracy:	80 meters	OAD, TOIYA	Area (acres):	
Location: POND 3.5 AIR MILES E Detailed Location: 0.3 MILE SSW OF PEA Ecological: Threats: General: 18 LARVAE FOUND OF PLSS: T10N, R19E, S	K 8062. N 2 JULY 2003. Sec. 19, SE (M)	Accuracy: Latitude/Longitude:	80 meters 38.6951 / -119.92476	DAD, TOIY	Area (acres):	



California Department of Fish and Wildlife



Map Index Number:	A1094		EO Index:	1	02662	
Key Quad:	Carson Pass (3811968)	Element Code:	A	AAAA01085	
Occurrence Number:	464		Occurrence Last U	Occurrence Last Updated: 2016-07-13		
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern lon	g-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC	-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM	ADOWS AND LAP ATH MOUNTAIN	KES IN THE SIERRA NEVADA, S.	BREEDING SEASO	N ADULTS AI	ONDS AND LAKES. OUTSIE RE TERRESTRIAL AND ASS WS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-07-02		Occurrence Type:	Natural/Nat	ive occurrence	
Last Survey Date:	2003-07-02		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknown		
Presence:	Presumed Exta	nt				
1						
Location:		N PASS NE OF FAITH VALLEY		OAD, TOIYAE	BE NATIONAL FOREST.	
	AST OF CARSO	NTAGO, NE OF FAITH VALLET,	EAST OF BLUE LAKES RO	,		
POND 4.1 AIR MILES E	AST OF CARSO	NTAGO, NE OF FAITH VALLET,	EAST OF BLUE LAKES RO			
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK		IT ACO, NE OF FAITH VALLET,	EAST OF BLUE LAKES R			
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK Ecological:			EAST OF BLUE LAKES RO	·		
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK Ecological: Threats:		NT AGO, NE OF FAITH VALLET,	EAST OF BLUE LAKES R			
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK Ecological: Threats: General:	8062.	NT AGO, NE OF FAITH VALLE F,	EAST OF BLUE LAKES R			
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK Ecological: Threats: General:	8062.	NT AGO, NE OF FAITH VALLE F,	EAST OF BLUE LAKES R			
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK Ecological: Threats: General: 9 LARVAE FOUND ON	8062. 2 JULY 2003.	Accuracy:	80 meters		Area (acres):	5
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK Ecological: Threats: General: 9 LARVAE FOUND ON PLSS: T10N, R19E, S	8062. 2 JULY 2003. Sec. 20, SE (M)				Area (acres): Elevation (feet):	5 8,100
POND 4.1 AIR MILES E Detailed Location: 0.6 MILE SE OF PEAK Ecological: Threats: General: 9 LARVAE FOUND ON PLSS: T10N, R19E, S UTM: Zone-11 N428	8062. 2 JULY 2003. Sec. 20, SE (M)	Accuracy:	80 meters			
Detailed Location: 0.6 MILE SE OF PEAK Ecological: Threats: General: 9 LARVAE FOUND ON PLSS: T10N, R19E, S	8062. 2 JULY 2003. Sec. 20, SE (M)	Accuracy: Latitude/Longitude:	80 meters 38.69567 / -119.91203			



California Department of Fish and Wildlife



Map Index Number:	A1097		EO Index:		102665	
Key Quad:	Carson Pass	(3811968)	Element Code:		AAAA01085	
Occurrence Number:	465		Occurrence Last U	Occurrence Last Updated: 2016-07-13		
Scientific Name:	Ambystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME, CASCADE, AND KLAN		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS	N PONDS AND LAKES. OUTSIDE OF S ARE TERRESTRIAL AND ASSOCIATED ROWS OF MAMMALS AND MOIST AREAS	
Last Date Observed:	2013-07-17		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-07-17		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	n	
	Presumed Exta	ant				
Presence:	Flesumed Exte					
	Flesumed Exa					
Location:		88, 0.5 ROAD MILE WEST OF C	ARSON PASS, EAST OF C	APLES LA	KE, ELDORADO NATIONAL FOREST.	
Location: POND ON SOUTH SID		88, 0.5 ROAD MILE WEST OF C	ARSON PASS, EAST OF C	APLES LA	KE, ELDORADO NATIONAL FOREST.	
Location: POND ON SOUTH SID Detailed Location:		88, 0.5 ROAD MILE WEST OF C	ARSON PASS, EAST OF C	APLES LA	AKE, ELDORADO NATIONAL FOREST.	
Location: POND ON SOUTH SID Detailed Location: Ecological:		88, 0.5 ROAD MILE WEST OF C	ARSON PASS, EAST OF C	APLES LA	KE, ELDORADO NATIONAL FOREST.	
Detailed Location: Ecological: Threats: General:	DE OF HIGHWAY		ARSON PASS, EAST OF C	APLES LA	AKE, ELDORADO NATIONAL FOREST.	
Location: POND ON SOUTH SID Detailed Location: Ecological: Threats: General:	DE OF HIGHWAY		ARSON PASS, EAST OF C	APLES LA	AKE, ELDORADO NATIONAL FOREST.	
Location: POND ON SOUTH SID Detailed Location: Ecological: Threats: General: LARVAE DETECTED C	DE OF HIGHWAY		ARSON PASS, EAST OF C	APLES LA	AKE, ELDORADO NATIONAL FOREST. Area (acres): 5	
Location: POND ON SOUTH SID Detailed Location: Ecological: Threats: General: LARVAE DETECTED C PLSS: T10N, R18E, S	DE OF HIGHWAY	3.		APLES LA		
Location: POND ON SOUTH SID Detailed Location: Ecological: Threats: General: LARVAE DETECTED C PLSS: T10N, R18E, S UTM: Zone-11 N428	DE OF HIGHWAY DN 17 JULY 2013 Sec. 22, SW (M)	3. Accuracy:	80 meters	APLES LA	Area (acres): 5	
Location: POND ON SOUTH SID Detailed Location: Ecological: Threats: General: LARVAE DETECTED C PLSS: T10N, R18E, S	DE OF HIGHWAY DN 17 JULY 2013 Sec. 22, SW (M)	3. Accuracy: Latitude/Longitude:	80 meters 38.69376 / -119.99661	APLES LA	Area (acres): 5	



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	14483 Carson Pass 468	(3811968)	EO Index: Element Code: Occurrence Last U		370 AA01085 3-07-13	
Scientific Name:	mbystoma macı	rodactylum sigillatum	Common Name:	southern long-te	bed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Sp	pecies of Special Concern	l
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAN		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS ARE	DS AND LAKES. OUTSIE TERRESTRIAL AND AS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	1957-09-05		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	1957-09-05		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAE	BE NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
FAITH VALLEY, ABOU	T 3 MILES EAST	F OF CARSON PASS, TOIYABE N	NATIONAL FOREST.			
Detailed Location:						
Ecological:						
Threats:						
General:						
17 LARVAE COLLECT			- /			_
PLSS: T10N, R19E, \$	· · /	Accuracy:	3/5 mile		Area (acres):	0
UTM: Zone-11 N428	5663 E245073	Latitude/Longitude:	38.68288 / -119.93068		Elevation (feet):	7,500
County Summary:		Quad Summary:				
Alpine		Carson Pass (381196	8)			



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	A1124 Carson Pass 478	(3811968)	EO Index: Element Code: Occurrence Last U		592 AA01085 5-07-14	
Scientific Name:	Ambystoma macı	rodactylum sigillatum	Common Name:		ped salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
U	State:	None	Other Lists:	CDFW_SSC-S	pecies of Special Concern	
CNDDB Element Ranl	ks: Global:	G5T4			·	
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAN		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS ARE JND BURROWS	DS AND LAKES. OUTSIE TERRESTRIAL AND AS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-08-27		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	2003-08-27		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAE	3E NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
POND 0.5 MILE NE OF	ELOST LAKES, 4	4 MILES SE OF CARSON PASS, M		SS, TOIYABE NA	TIONAL FOREST.	
Detailed Location:						
Detailed Location: Ecological: Threats:						
Detailed Location: Ecological: Threats: General:						
Detailed Location: Ecological: Threats: General:	I 27 AUGUST 20	03.				
Detailed Location: Ecological: Threats: General: 6 LARVAE FOUND ON		03. Accuracy:	1/10 mile		Area (acres):	18
Detailed Location: Ecological: Threats: General: 6 LARVAE FOUND ON PLSS: T09N, R19E,			1/10 mile 38.65122 / -119.94105		Area (acres): Elevation (feet):	18 8,100
Detailed Location: Ecological: Threats: General: 6 LARVAE FOUND ON PLSS: T09N, R19E,	Sec. 7, NW (M)	Accuracy:				-
Detailed Location: Ecological: Threats: General: 6 LARVAE FOUND ON PLSS: T09N, R19E, UTM: Zone-11 N428	Sec. 7, NW (M)	Accuracy: Latitude/Longitude:	38.65122 / -119.94105			-



California Department of Fish and Wildlife



Map Index Number:	A1130		EO Index:		102698	
Key Quad:	Carson Pass	(3811968)	Element Code:		AAAAA01085	
Occurrence Number:	482		Occurrence Last Up	ccurrence Last Updated: 2016-07-14		
Scientific Name:	Ambystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME/ CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS	I PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND ASS OWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2002-09-17		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2002-09-17		Occurrence Rank:	Unknowr	n	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknowr	n	
Presence:	Presumed Exta	ant				
ricochos.						
Location:						
Location:	OF UPPER BLU	IE LAKE CAMPGROUND, NW OF	UPPER BLUE LAKE, MOK	ELUMNE	WILDERNESS, ELDORADO NA	ATIONAL
Location: POND 0.9 MILE WEST	OF UPPER BLU	IE LAKE CAMPGROUND, NW OF	UPPER BLUE LAKE, MOK	ELUMNE	WILDERNESS, ELDORADO NA	ATIONAL
Location: POND 0.9 MILE WEST FOREST.	OF UPPER BLU	IE LAKE CAMPGROUND, NW OF	UPPER BLUE LAKE, MOK	ELUMNE	WILDERNESS, ELDORADO NA	ATIONAL
Location: POND 0.9 MILE WEST FOREST. Detailed Location:	OF UPPER BLU	IE LAKE CAMPGROUND, NW OF	UPPER BLUE LAKE, MOK	ELUMNE	WILDERNESS, ELDORADO NA	ATIONAL
Location: POND 0.9 MILE WEST FOREST. Detailed Location: Ecological:	OF UPPER BLU	IE LAKE CAMPGROUND, NW OF	UPPER BLUE LAKE, MOK	ELUMNE	WILDERNESS, ELDORADO N/	ATIONAL
Location: POND 0.9 MILE WEST FOREST. Detailed Location: Ecological: Threats:			UPPER BLUE LAKE, MOK	ELUMNE [:]	WILDERNESS, ELDORADO N/	ATIONAL
Location: POND 0.9 MILE WEST FOREST. Detailed Location: Ecological: Threats: General:	DN 17 SEP 2002.		UPPER BLUE LAKE, MOK	ELUMNE '	WILDERNESS, ELDORADO N/ Area (acres):	ATIONAL 5
Location: POND 0.9 MILE WEST FOREST. Detailed Location: Ecological: Threats: General: 110 LARVAE FOUND C PLSS: T09N, R18E, S	DN 17 SEP 2002.			ELUMNE '		
Location: POND 0.9 MILE WEST FOREST. Detailed Location: Ecological: Threats: General: 110 LARVAE FOUND C PLSS: T09N, R18E, S	DN 17 SEP 2002. Sec. 11, NW (M)	Accuracy:	80 meters	ELUMNE '	Area (acres):	5
Location: POND 0.9 MILE WEST FOREST. Detailed Location: Ecological: Threats: General: 110 LARVAE FOUND C PLSS: T09N, R18E, S UTM: Zone-11 N428	DN 17 SEP 2002. Sec. 11, NW (M)	Accuracy: Latitude/Longitude:	80 meters 38.64167 / -119.97266	ELUMNE	Area (acres):	5



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A1136		EO Index:		102704	
Key Quad:	Carson Pass ((3811968)	Element Code:		AAAAA01085	
Occurrence Number:	487		Occurrence Last Up	Occurrence Last Updated: 2016-07-14		
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS	N PONDS AND LAKES. OUTSID S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MOI	OCIATED
Last Date Observed:	2010-07-01		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2010-07-01		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-ELDOR/	ADO NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
POND 0.6 MILE SW OF	UPPER BLUE I	LAKE CAMPGROUND, JUST INSI	IDE OF MOKELUMNE WILL	DERNESS	S, ELDORADO NATIONAL FORE	EST.
Detailed Location: 0.8 MILE NORTH OF G	RANITE LAKE.					
Detailed Location: 0.8 MILE NORTH OF G Ecological:	RANITE LAKE.					
Detailed Location: 0.8 MILE NORTH OF G Ecological: Threats:	RANITE LAKE.					
Detailed Location: 0.8 MILE NORTH OF G Ecological: Threats: General:						
Detailed Location: 0.8 MILE NORTH OF G Ecological: Threats: General: 14 LARVAE FOUND Of	N 23 JULY 2009.	4 ADULTS FOUND ON 1 JULY 2				
Detailed Location: 0.8 MILE NORTH OF G Ecological: Threats: General: 14 LARVAE FOUND Of PLSS: T09N, R18E, S	N 23 JULY 2009. Sec. 14, NE (M)	Accuracy:	80 meters		Area (acres):	5
Detailed Location: 0.8 MILE NORTH OF G Ecological: Threats: General: 14 LARVAE FOUND Of PLSS: T09N, R18E, S	N 23 JULY 2009.				Area (acres): Elevation (feet):	5 8,350
Detailed Location: 0.8 MILE NORTH OF G Ecological: Threats: General: 14 LARVAE FOUND Of PLSS: T09N, R18E, S	N 23 JULY 2009. Sec. 14, NE (M)	Accuracy:	80 meters			-
Detailed Location: 0.8 MILE NORTH OF G Ecological: Threats: General: 14 LARVAE FOUND OI PLSS: T09N, R18E, S UTM: Zone-11 N428	N 23 JULY 2009. Sec. 14, NE (M)	Accuracy: Latitude/Longitude:	80 meters 38.6313 / -119.96209			-



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	A1137 Markleeville (3 488	i811967)	EO Index: Element Code: Occurrence Last Uj		05 AA01085 5-07-14	
Scientific Name:	Ambystoma macro	odactylum sigillatum	Common Name:	southern long-to	ed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Sp	ecies of Special Concern	n
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME/ CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS ARE JND BURROWS	DS AND LAKES. OUTSIE TERRESTRIAL AND AS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-09-10		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	2003-09-10		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknown		
Presence:	Presumed Exta	Int				
		E OF JEFF DAVIS PEAK, MOKEL		YABE NATIONA	L FOREST.	
Detailed Location: 0.5 MILE WEST OF TH Ecological: Threats: General:	IE CONFLUENCI		SANT VALLET GREEK.			
0.5 MILE WEST OF TH Ecological: Threats:			SANT VALLET GREEK.			
0.5 MILE WEST OF TH Ecological: Threats: General: 65 LARVAE FOUND OI	N 10 SEP 2003.	Accuracy:	80 meters		Area (acres):	5
0.5 MILE WEST OF TH Ecological: Threats: General: 65 LARVAE FOUND OI PLSS: T09N, R19E, S	N 10 SEP 2003.				Area (acres): Elevation (feet):	5 7,900
0.5 MILE WEST OF TH Ecological: Threats: General: 65 LARVAE FOUND OI PLSS: T09N, R19E, S UTM: Zone-11 N427	N 10 SEP 2003. Sec. 15, E (M)	Accuracy:	80 meters		. ,	
0.5 MILE WEST OF TH Ecological: Threats: General: 65 LARVAE FOUND OI PLSS: T09N, R19E, S	N 10 SEP 2003. Sec. 15, E (M)	Accuracy: Latitude/Longitude:	80 meters 38.63287 / -119.87134		. ,	



California Department of Fish and Wildlife



Map Index Number:	A1138		EO Index:		102706	
Key Quad:	Markleeville (3811967)	Element Code:		AAAAA01085	
Occurrence Number:	489		Occurrence Last U	Occurrence Last Updated: 2016-07-14		
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Ranks	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS JND BURF	N PONDS AND LAKES. OUTSIE S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-09-11		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2003-09-11		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-TOIYAB	BE NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
PONDS 2 MILES EAST	OF JEFF DAVIS	S PEAK, MOKELUMNE WILDERN	IESS, TOIYABE NATIONAL	FOREST		
Detailed Location:						
	OUT 0.2 TO 0.9	MILE SOUTH OF THE CONFLU	ENCE OF PLEASANT VALL	EY CREE	EK AND JEFF DAVIS CREEK.	
Ecological:						
Threats:						
		Y 2003 AND 11 SEPTEMBER 200	02			
PLSS: T09N, R19E, S	· · /	Accuracy:	specific area		Area (acres):	34
UTM: Zone-11 N4279	J371 E250932	Latitude/Longitude:	38.62791 / -119.86116		Elevation (feet):	7,600
		Quad Summary:				
County Summary:						
County Summary: Alpine		Ebbetts Pass (381195	7), Markleeville (3811967)			



California Department of Fish and Wildlife

California Natural Diversity Database



	A1150		EO Index:	102720
Key Quad:	Carson Pass	(3811968)	Element Code:	AAAAA01085
Occurrence Number:	492		Occurrence Last U	pdated: 2016-07-18
Scientific Name:	Ambystoma macı	rodactylum sigillatum	Common Name:	southern long-toed salamander
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Rank	s: Global:	G5T4		
	State:	S3		
General Habitat:			Micro Habitat:	
HIGH ELEVATION ME CASCADE, AND KLAM		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	OCCUR IN PONDS AND LAKES. OUTSIDE OF IN ADULTS ARE TERRESTRIAL AND ASSOCIATED UND BURROWS OF MAMMALS AND MOIST AREA: PROCKS.
Last Date Observed:	2003-07-16		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2003-07-16		Occurrence Rank:	Unknown
			Trend:	Unknown
Owner/Manager:	USFS-TOIYAE		frenu.	UTIKTIOWT
Owner/Manager: Presence:	Presumed Ext		Trenu.	UIKIOWI
-			Trend.	UIKIUWI
Presence: Location:	Presumed Ext	ant		DER RUFFIAN FLAT, TOIYABE NATIONAL FOREST
Presence: Location:	Presumed Ext	ant		
Presence: Location: PONDS 1.2 MI EAST C	Presumed Ext	ant		
Presence: Location: PONDS 1.2 MI EAST C Detailed Location:	Presumed Ext	ant		
Presence: Location: PONDS 1.2 MI EAST C Detailed Location: Ecological:	Presumed Ext	ant		
Presence: Location: PONDS 1.2 MI EAST C Detailed Location: Ecological: Threats:	Presumed Ext	ant E LAKE DAM, BETWEEN PACIFIC		
Presence: Location: PONDS 1.2 MI EAST C Detailed Location: Ecological: Threats: General: 15 LARVAE FOUND O	Presumed Ext OF UPPER BLUE N 16 JULY 2003	ant E LAKE DAM, BETWEEN PACIFIC		
Presence: Location: PONDS 1.2 MI EAST C Detailed Location: Ecological: Threats: General: 15 LARVAE FOUND O PLSS: T09N, R19E, S	Presumed Ext OF UPPER BLUE N 16 JULY 2003	ant E LAKE DAM, BETWEEN PACIFIC	CREST TRAIL AND BORE	DER RUFFIAN FLAT, TOIYABE NATIONAL FOREST
Presence: Location: PONDS 1.2 MI EAST C Detailed Location: Ecological: Threats: General: 15 LARVAE FOUND O PLSS: T09N, R19E, S	Presumed Ext OF UPPER BLUE N 16 JULY 2003 Sec. 17, SW (M)	ant E LAKE DAM, BETWEEN PACIFIC Accuracy:	CREST TRAIL AND BORE	DER RUFFIAN FLAT, TOIYABE NATIONAL FOREST Area (acres): 9
Presence: Location: PONDS 1.2 MI EAST C Detailed Location: Ecological: Threats: General: 15 LARVAE FOUND O PLSS: T09N, R19E, S UTM: Zone-11 N427	Presumed Ext OF UPPER BLUE N 16 JULY 2003 Sec. 17, SW (M)	ant E LAKE DAM, BETWEEN PACIFIC Accuracy: Latitude/Longitude:	CREST TRAIL AND BORE specific area 38.6282 / -119.91852	DER RUFFIAN FLAT, TOIYABE NATIONAL FOREST Area (acres): 9



California Department of Fish and Wildlife



Map Index Number:	A1162		EO Index:	1	02730	
Key Quad:	Pacific Valley	(3811958)	Element Code:	A	AAAA01085	
Occurrence Number:	493		Occurrence Last U	Occurrence Last Updated: 2016-10-11		
Scientific Name:	Ambystoma macı	rodactylum sigillatum	Common Name:	southern lor	ng-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC	-Species of Special Concern	1
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME/ CASCADE, AND KLAM		NKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS A	ONDS AND LAKES. OUTSIE RE TERRESTRIAL AND AS WS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2003-07-17		Occurrence Type:	Natural/Nat	tive occurrence	
Last Survey Date:	2003-07-17		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:					NAL FOREST.	
	F MIDDLE CREE	K CAMPGROUND, SOUTH OF U	PPER BLUE LAKE, ELDOF	RADO NATIO		
POND 0.5 MILE SW OF Detailed Location:	F MIDDLE CREE	K CAMPGROUND, SOUTH OF U	PPER BLUE LAKE, ELDOF	KADO NA HO		
POND 0.5 MILE SW OF Detailed Location: Ecological:	F MIDDLE CREE	EK CAMPGROUND, SOUTH OF U	PPER BLUE LAKE, ELDOF	RADO NA HO		
POND 0.5 MILE SW OF Detailed Location: Ecological: Threats:	F MIDDLE CREE	EK CAMPGROUND, SOUTH OF U	PPER BLUE LAKE, ELDOF	ADO NATIO		
POND 0.5 MILE SW OF Detailed Location: Ecological: Threats: General:			PPER BLUE LAKE, ELDOF	KADO NATIO		
POND 0.5 MILE SW OF Detailed Location: Ecological: Threats: General: 10 EGG MASSES FOU	IND ON 17 JULY	² 2003.		ADO NATIO		
POND 0.5 MILE SW OF Detailed Location: Ecological: Threats: General: 10 EGG MASSES FOU PLSS: T09N, R18E, S	IND ON 17 JULY Sec. 13, SE (M)	⁷ 2003. Accuracy:	80 meters	ADU NATIO	Area (acres):	5
POND 0.5 MILE SW OF Detailed Location: Ecological: Threats: General: 10 EGG MASSES FOU PLSS: T09N, R18E, S	IND ON 17 JULY	² 2003.		ADU NATIO		5 8,200
POND 0.5 MILE SW OF Detailed Location: Ecological: Threats: General: 10 EGG MASSES FOU PLSS: T09N, R18E, S UTM: Zone-11 N427	IND ON 17 JULY Sec. 13, SE (M)	⁷ 2003. Accuracy:	80 meters		Area (acres):	
Detailed Location: Ecological: Threats: General: 10 EGG MASSES FOU PLSS: T09N, R18E, S	IND ON 17 JULY Sec. 13, SE (M)	2003. Accuracy: Latitude/Longitude:	80 meters 38.62192 / -119.94336		Area (acres):	



California Department of Fish and Wildlife



Listing Status: Federal: None State: None Children Lists: CDFW_SSC-Species of Special Concern State: Sate: Sa General Habitat: Giobal: G5T4 State: S3 General Habitat: AQUATIC LARVAE OCCUR IN PONDS AND LAKES. OUTSIDE OF BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCAT UNDER LOGS AND KLAMATH MOUNTAINS. VIET SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS. VIET SIERRA NEVADA, CASCAD	Map Index Number: Key Quad: Occurrence Number:	A1165 Pacific Valley (3811958) 494		EO Index: Element Code: Occurrence Last Uj			
State: None Other Lists: CDFW_SSC-Species of Special Concern CNDDB Element Ranks: Global: G574 State: S3 General Habitat: Micro Habitat: HIGH ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS. AQUATIC LARVAE OCCUR IN PONDS AND LAKES. OUTSIDE OF BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCIAT WITH UNDER GROUND BURROWS OF MAMMALS AND MOIST ARI UNDER LOGS AND DUCTS ARE TERRESTRIAL AND ASSOCIAT WITH UNDER GROUND BURROWS OF MAMMALS AND MOIST ARI UNDER LOGS AND ROCKS. Last Date Observed: 2003-07-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2003-07-17 Occurrence Rank: Unknown Owner/Manager: USFS-ELDORADO NF Trend: Unknown Presence: Presumed Extant Location: Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. SMALL ALPINE POND. Threads: 80 meters Area (acres): 5 SIGneral: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. Elevation (feet): 8,500 County Summary: Quad Summary: Quad Summary: Elevation (feet): 8,500 Apine	Scientific Name: Ar	mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
CNDDB Element Ranks: Global: General Rabitat: High ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS. Micro Habitat: AQUATIC LARVAE OCCUR IN PONDS AND LAKES. OUTSIDE OF BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCIAT WITH UNDERGROUND BURROWS OF MAMMALS AND MOIST ARI UNDER LOGS AND ROCKS. Last Date Observed: 2003-07-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2003-07-17 Occurrence Rank: Unknown Owner/Manager: USFS-ELDORADO NF Trend: Unknown Presence: Presumed Extant Unknown Location: POND 0.9 MILE SW OF MIDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Vertication: Rological: SMALL ALPINE POND. SMALL ALPINE POND. SMALL ALPINE POND. Threats: General: 3 Accuracy: 80 meters Area (acres): 5 Strate: Count Summary: Quad Summary: Quad Summary: Strate Summary: 5	Listing Status:	Federal:	None	Rare Plant Rank:			
State: S3 General Habitat: Micro Habitat: High ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS. AQUATIC LARVAE OCCUR IN PONDS AND LAKES. OUTSIDE OF BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCIAT WITH UNDERGROUND BURROWS OF MAMMALS AND MOIST ARI UNDER LOGS AND ROCKS. Last Date Observed: 2003-07-17 Occurrence Type: Natural/Native occurrence Last Date Observed: 2003-07-17 Occurrence Rank: Unknown Owner/Manager: USFS-ELDORADO NF Trend: Unknown Presence: Presumed Extant Unknown Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Trreats: Seneral 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. Area (acres): 5 PLS: TON, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 36.61871/-119.95121 Elevation (feet): 8.500 County		State:	None	Other Lists:	CDFW_S	SC-Species of Special Concerr	1
General Habitat: Micro Habitat: High ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS. AQUATIC LARVAE OCCUR IN PONDS AND LAKES. OUTSIDE OF BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCIAT WITH UNDERGOUND BUROWS OF MAMMALS AND MOIST ARE UNDER LOGS AND ROCKS. Last Date Observed: 2003-07-17 Occurrence Type: Natural/Native occurrence Last Date Observed: 2003-07-17 Occurrence Rank: Unknown Owner/Manage: USFS-ELDORADO NF Cocurrence Rank: Unknown Presence: Presumed Extant Unknown Vertail Unknown Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location ALONG USF STRAIL 18F08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: Strans ABOUT 0.5 MILE EAST OF GRANITE LAKE. Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic Stransitic MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Stransitic Stransitic Stransitic Stransitis Stransitic Str	CNDDB Element Ranks	: Global:	G5T4				
HIGH ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, AQUATIC LARVAE OCCUR IN PONDS AND LAKES. OUTSIDE OF BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCIAT WITH UNDER COCS AND ROWS OF MAMMALS AND MOIST ARI Last Date Observed: 2003-07-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2003-07-17 Occurrence Rank: Unknown Owner/Manager: USFS-ELDORADO NF Trend: Unknown Presence: Presumed Extant Unknown Presence: Location: Prosumed Extant Ecological: SAMUL ALPINE POND. ALUNG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Threat: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: TO9N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Pacific Valley (3811958) Pacific Valley (3811958) 5		State:	S3				
CASCADE, AND KLAMATH MOUNTAINS. BREEDING SEASON ADULTS ARE TERRESTRIAL AND ASSOCIAT WITH UNDERGROUND BURROWS OF MAMMALS AND MOIST ARI UNDER LOGS AND ROCKS. Last Date Observed: 2003-07-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2003-07-17 Occurrence Rank: Unknown Owner/Manager: USFS-ELDORADO NF Trend: Unknown Presence: Presumed Extant Unknown Presence: Unknown Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. SMALL ALPINE POND. Threats: Start And 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: TO9N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Quad Summary: Pacific Valley (3811958) For Calley (3811958) 5	General Habitat:			Micro Habitat:			
Last Survey Date: 2003-07-17 Occurrence Rank: Unknown Owner/Manager: USFS-ELDORADO NF Trend: Unknown Presence: Presumed Extant Unknown Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Threats: Second Component of Sec	HIGH ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA,			BREEDING SEASO	N ADULTS JND BURF	SARE TERRESTRIAL AND AS	SOCIATED
Owner/Manager: USFS-ELDORADO NF Trend: Unknown Presence: Presumed Extant	Last Date Observed:	2003-07-17		Occurrence Type:	Natural/I	Native occurrence	
Presence: Presumed Extant Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Threats: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Attide/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Pacific Valley (381195)	Last Survey Date:	2003-07-17		Occurrence Rank:	Unknow	n	
Location: POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Threats: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Alpine Pacific Valley (3811958)	Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	n	
POND 0.9 MILE SW OF MIDDLE CREEK CAMPGROUND, SOUTH OF UPPER BLUE LAKE, ELDORADO NATIONAL FOREST. Detailed Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Threats: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Alpine Pacific Valley (3811958)	Presence:	Presumed Exta	ant				
Detailed Location: ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Threats: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 County Summary: Quad Summary: Alpine Pacific Valley (381195)	Location:						
ALONG USFS TRAIL 18E08, ABOUT 0.5 MILE EAST OF GRANITE LAKE. Ecological: SMALL ALPINE POND. Threats: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Alpine Pacific Valley (3811958)	POND 0.9 MILE SW OF	MIDDLE CREE	K CAMPGROUND, SOUTH OF U	PPER BLUE LAKE, ELDOR	RADO NAT	IONAL FOREST.	
Ecological: SMALL ALPINE POND. Threats: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 County Summary: Quad Summary: Alpine Pacific Valley (3811958)	Detailed Location:						
SMALL ALPINE POND. Threats: General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 County Summary: Quad Summary: Alpine Pacific Valley (3811958)		E08, ABOUT 0.	5 MILE EAST OF GRANITE LAKE	•			
Area (acres): 5 UTM: Zone-11 N4278598 E243058 Accuracy: 80 meters Area (acres): 5 County Summary: Quad Summary: Quad Summary: 9acific Valley (3811958) Pacific Valley (3811958)	U U						
General: 3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Pacific Valley (3811958) Pacific Valley (3811958) Pacific Valley (3811958)							
3 LARVAE DETECTED ON 16 JULY 1992. 2 LARVAE AND 200 EGG MASSES FOUND ON 17 JULY 2003. PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Pacific Valley (3811958) Pacific Valley (3811958) Pacific Valley (3811958)							
PLSS: T09N, R18E, Sec. 13, S (M) Accuracy: 80 meters Area (acres): 5 UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Pacific Valley (3811958) Pacific Valley (3811958) Elevation (feet): 8,500					2003		
UTM: Zone-11 N4278598 E243058 Latitude/Longitude: 38.61871 / -119.95121 Elevation (feet): 8,500 County Summary: Quad Summary: Alpine Pacific Valley (3811958)					2003.		_
County Summary: Quad Summary: Alpine Pacific Valley (3811958)			•				
Alpine Pacific Valley (3811958)	UIM: Zone-11 N42/8	598 E243058	Latitude/Longitude:	38.618/1/-119.95121		Elevation (feet):	8,500
	County Summary:						
Sources:	Alpine		Pacific Valley (381195	3)			
	Sources:						
	WIL03D0001 WILLIA	AMS, J. (U.S. F	OREST SERVICE-ELDORADO NA RVEY OBSERVATIONS, ELDORA		DATABASI		TE TABLE



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	dex Number: A1173		EO Index:		102739	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAA01085	
Occurrence Number:	500		Occurrence Last U	Occurrence Last Updated: 2016-07-18		
Scientific Name:	mbystoma macr	rodactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concerr	1
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME/ CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS JND BURF	I PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND AS ROWS OF MAMMALS AND MC	SOCIATED
Last Date Observed:	2011-09-18		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2011-09-18		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-TOIYAE	SE NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
PONDS BETWEEN TA	MARACK LAKE	AND HELLHOLE LAKE, 2 MILES E	EAST OF LOWER BLUE LA	AKE, TOIY	ABE NATIONAL FOREST.	
Detailed Location:						
NE OF PACIFIC CRES	T TRAIL.					
-						
Threats:						
Threats: General:						
Threats: General:	ETWEEN 7 AND	9 JUL 2003. 1 LARVA FOUND ON	↓5 JUL 2005. 13 LARVAE	FOUND OI	N 18 SEP 2011.	
Threats: General: 22 LARVAE FOUND BE		9 JUL 2003. 1 LARVA FOUND ON Accuracy:	N 5 JUL 2005. 13 LARVAE	FOUND OI	N 18 SEP 2011. Area (acres):	18
Threats: General: 22 LARVAE FOUND BE PLSS: T09N, R19E, S				FOUND OI		18 7,900
Threats: General: 22 LARVAE FOUND BE PLSS: T09N, R19E, S UTM: Zone-11 N427	Sec. 21, S (M)	Accuracy:	specific area	FOUND OI	Area (acres):	-
PLSS: T09N, R19E, S	Sec. 21, S (M)	Accuracy: Latitude/Longitude:	specific area 38.6155 / -119.89462	FOUND OI	Area (acres):	-



California Department of Fish and Wildlife



Map Index Number:	A1177	(2014.050)	EO Index:	102742
Key Quad:	Pacific Valley	(3811958)	Element Code:	AAAAA01085
Occurrence Number:	501		Occurrence Last U	pdated: 2016-07-18
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern long-toed salamander
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Ranks	s: Global:	G5T4		
	State:	S3		
General Habitat:			Micro Habitat:	
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	OCCUR IN PONDS AND LAKES. OUTSIDE OF N ADULTS ARE TERRESTRIAL AND ASSOCIATE JND BURROWS OF MAMMALS AND MOIST AREA ROCKS.
Last Date Observed:	2005-07-31		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-07-31		Occurrence Rank:	Unknown
Owner/Manager:	PVT, USFS-TC	DIYABE NF	Trend:	Unknown
Presence:	Presumed Exta	ant		
Location:				
3 PONDS EAST OF LO	WER BLUE LAK	KE, WEST OF TAMARACK LAKE,	TOIYABE NATIONAL FOR	EST.
Detailed Location:				
NTERSECTION WITH			JT 0.08 MILE AND 2 PONE	DS ON NORTH SIDE ABOUT 0.5 MILE NORTH OF
Ecological:				
Threats:				
General:				
	N 1 SEP 1982. L	JETECTED ON 26 SEPT 2001. 1 /	LARVA FOUND 17 JULY 20	003. DETECTED ON 31 JUL 2005.
PLSS: T09N, R19E, S	· · /	Accuracy:	specific area	Area (acres): 22
PLSS: T09N, R19E, S	· · /		specific area 38.61369 / -119.91878	Area (acres): 22 Elevation (feet): 8,100
PLSS: T09N, R19E, S UTM: Zone-11 N427	· · /	Accuracy:	•	
PLSS: T09N, R19E, S UTM: Zone-11 N427 County Summary:	· · /	Accuracy: Latitude/Longitude:	38.61369 / -119.91878	
PLSS: T09N, R19E, S UTM: Zone-11 N427 County Summary: Alpine	· · /	Accuracy: Latitude/Longitude: Quad Summary:	38.61369 / -119.91878	
PLSS: T09N, R19E, S UTM: Zone-11 N427 County Summary: Alpine Sources: CRI16D0001 CRIP	7950 E245865 E, K. (CALIFORI	Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (381195	8) WILDLIFE) - GIS DATA AS	
PLSS: T09N, R19E, S UTM: Zone-11 N427 County Summary: Alpine Sources: CRI16D0001 CRIP AMPH DFW16D0001 CALIF	7950 E245865 E, K. (CALIFORI HIBIAN AND REI	Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (381195) NIA DEPARTMENT OF FISH AND PTILE SPECIES OF SPECIAL CO TMENT OF FISH AND WILDLIFE	8) WILDLIFE) - GIS DATA AS NCERN LIST 2016-05-06	Elevation (feet): 8,100



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:A1191Key Quad:Pacific Valley (3811958)Occurrence Number:502		(3811958)	EO Index: Element Code:	102756 AAAAA01085		
Occurrence Number:	502		Occurrence Last U	Occurrence Last Updated: 2016-07-19		
Scientific Name: A	Ambystoma macr	rodactylum sigillatum	Common Name:	southern lon	g-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC	-Species of Special Concern	1
CNDDB Element Rank	ks: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAM		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS A JND BURRO	ONDS AND LAKES. OUTSIE RE TERRESTRIAL AND AS WS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2001-08-09		Occurrence Type:	Natural/Nat	ive occurrence	
Last Survey Date:	2001-08-09		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAE	3E NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
Loouton.		LAKE, EAST OF LOWER BLUE	LAKE, TOIYABE NATIONAL	FOREST.		
	OF TAMARACK					
POND ON EAST SIDE	OF TAMARACK					
POND ON EAST SIDE Detailed Location:	OF TAMARACK					
POND ON EAST SIDE Detailed Location: Ecological:	OF TAMARACK					
POND ON EAST SIDE Detailed Location: Ecological: Threats:	OF TAMAKACK					
POND ON EAST SIDE Detailed Location: Ecological: Threats: General:						
POND ON EAST SIDE Detailed Location: Ecological: Threats: General: 100 LARVAE FOUND (ON 9 AUG 2001.		80 meters		Area (acres):	5
POND ON EAST SIDE Detailed Location: Ecological: Threats: General: 100 LARVAE FOUND C PLSS: T09N, R19E, S	ON 9 AUG 2001.				Area (acres): Elevation (feet):	5 7,900
POND ON EAST SIDE Detailed Location: Ecological: Threats: General: 100 LARVAE FOUND O PLSS: T09N, R19E, S UTM: Zone-11 N427	ON 9 AUG 2001. Sec. 28, NW (M)	Accuracy:			· · · · ·	-
POND ON EAST SIDE Detailed Location: Ecological: Threats: General: 100 LARVAE FOUND C PLSS: T09N, R19E, S	ON 9 AUG 2001. Sec. 28, NW (M)	Accuracy: Latitude/Longitude:	38.60971 / -119.90001		· · · · ·	-



California Department of Fish and Wildlife



•	Index Number: A1197				102763	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:			
Occurrence Number:	506		Occurrence Last U	Occurrence Last Updated: 2016-07-19		
Scientific Name: A	Ambystoma macro	odactylum sigillatum	Common Name:	southern long-t	oed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	Other Lists: CDFW_SSC-Species of Special Concern		I
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS ARE JND BURROWS	IDS AND LAKES. OUTSIE TERRESTRIAL AND AS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-22		Occurrence Type:	Natural/Native occurrence		
Last Survey Date:	2013-07-22		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknown		
Presence:	Presumed Exta	nt				
Location:						
	ERVOIR, ABOUT	2 MILES WEST OF RAYMOND P	PEAK, TOIYABE NATIONAL	FOREST.		
WET MEADOWS RESE						
Detailed Location: AT WET MEADOWS R	ESERVOIR, AT C	ONE POND JUST NE AND AT TW	O PONDS JUST SOUTH C	OF RESERVOIR		
Detailed Location: AT WET MEADOWS RI Ecological:	ESERVOIR, AT (ONE POND JUST NE AND AT TW	O PONDS JUST SOUTH C	OF RESERVOIR		
Detailed Location: AT WET MEADOWS R Ecological: Threats:	ESERVOIR, AT C	ONE POND JUST NE AND AT TW	O PONDS JUST SOUTH C	OF RESERVOIR		
Detailed Location: AT WET MEADOWS RI Ecological: Threats: General:						
Detailed Location: AT WET MEADOWS R Ecological: Threats: General: 1 LARVA FOUND ON 9) AUG 2001, 1 LA	DNE POND JUST NE AND AT TW	E FOUND ON 22 JUL 2013			
Detailed Location: AT WET MEADOWS RI Ecological: Threats: General: 1 LARVA FOUND ON 9 PLSS: T09N, R19E, S) AUG 2001, 1 LA Sec. 27, NE (M)	RVA ON 11 JUL 2003, 45 LARVA Accuracy:	E FOUND ON 22 JUL 2013 specific area		Area (acres):	46
Detailed Location: AT WET MEADOWS RI Ecological: Threats: General: 1 LARVA FOUND ON 9 PLSS: T09N, R19E, S) AUG 2001, 1 LA	RVA ON 11 JUL 2003, 45 LARVA	E FOUND ON 22 JUL 2013			46 8,000
Detailed Location: AT WET MEADOWS RI Ecological: Threats: General: 1 LARVA FOUND ON 9 PLSS: T09N, R19E, S UTM: Zone-11 N427) AUG 2001, 1 LA Sec. 27, NE (M)	RVA ON 11 JUL 2003, 45 LARVA Accuracy:	E FOUND ON 22 JUL 2013 specific area		Area (acres):	-
Detailed Location: AT WET MEADOWS RI Ecological: Threats: General: 1 LARVA FOUND ON 9 PLSS: T09N, R19E, S) AUG 2001, 1 LA Sec. 27, NE (M)	RVA ON 11 JUL 2003, 45 LARVA Accuracy: Latitude/Longitude:	E FOUND ON 22 JUL 2013 specific area 38.60516 / -119.86722		Area (acres):	-



California Department of Fish and Wildlife



Map Index Nun	nber: /	41200		EO Index:		102766		
Key Quad:	F	Pacific Valley	(3811958)	Element Code:				
Occurrence Nu	imber: 8	507		Occurrence Last U	Occurrence Last Updated: 2016-10-11			
Scientific Nam	e: Amb	ystoma macro	odactylum sigillatum	Common Name:	southern lo	ong-toed salamander		
Listing Status:		Federal:	None	Rare Plant Rank:				
		State:	None	Other Lists:	CDFW_SS	C-Species of Special Concer	n	
CNDDB Eleme	nt Ranks:	Global:	G5T4					
		State:	S3					
General Habita	ıt:			Micro Habitat:				
HIGH ELEVATI CASCADE, ANI			KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS / JND BURRO	PONDS AND LAKES. OUTSI ARE TERRESTRIAL AND AS DWS OF MAMMALS AND MO	SOCIATED	
Last Date Obse	erved: 20	013-07-06		Occurrence Type:	Natural/Na	ative occurrence		
Last Survey Da	ate: 20	013-07-06		Occurrence Rank:	Unknown			
Owner/Manage	er: U	SFS, PVT		Trend:	Unknown			
Presence:	Р	resumed Exta	ant					
PONDS ABOUT Detailed Locati AT LILY PAD L/	ion:		ITTLE INDIAN VALLEY, AT BOU JTH OF THE PACIFIC CREST T					
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI	ion: AKE AND 7 ECTED IN ⁻	PONDS SOU	JTH OF THE PACIFIC CREST T	RAIL, ON BOTH SIDES OF 9	SUNSET LA	KE ROAD.	180 LARVAE	
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE	ion: AKE AND 7 ECTED IN ⁷ EEN 6 AND	PONDS SOU 1941. DETEC 9 AUG 2001	JTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012,	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013.	SUNSET LA	KE ROAD. P 2001, AND 31 JUL 2005. 1		
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N,	ion: AKE AND 7 ECTED IN ⁻ EEN 6 AND R19E, Sec.	PONDS SOU 1941. DETEC 9 AUG 2001 . 28, E (M)	JTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy:	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area	SUNSET LA	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres):	39	
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N,	ion: AKE AND 7 ECTED IN ⁻ EEN 6 AND R19E, Sec.	PONDS SOU 1941. DETEC 9 AUG 2001	JTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012,	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area	SUNSET LA	KE ROAD. P 2001, AND 31 JUL 2005. 1		
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N, UTM: Zone-1 County Summa	ion: AKE AND 7 EEN 6 AND R19E, Sec. 11 N427670	PONDS SOU 1941. DETEC 9 AUG 2001 . 28, E (M)	UTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude: Quad Summary:	RAIL, ON BOTH SIDES OF 999, 17 AUG 2000, 31 AUG 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567	SUNSET LA	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres):	39	
Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N,	ion: AKE AND 7 EEN 6 AND R19E, Sec. 11 N427670	PONDS SOU 1941. DETEC 9 AUG 2001 . 28, E (M)	JTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude:	RAIL, ON BOTH SIDES OF 999, 17 AUG 2000, 31 AUG 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567	SUNSET LA	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres):	39	
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N, UTM: Zone-1 County Summa Alpine Sources:	ion: AKE AND 7 EEN 6 AND R19E, Sec. 11 N427670 ary:	PONDS SOU 1941. DETEC 9 AUG 2001 . 28, E (M) 01 E248712	UTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (38119	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567 58)	SUNSET LA 2001, 26 SE	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres): Elevation (feet):	39 7,900	
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N, UTM: Zone-1 County Summa Alpine Sources:	ion: AKE AND 7 EEN 6 AND R19E, Sec 11 N427670 ary: CALHOU	PONDS SOU 1941. DETEC 9 AUG 2001 28, E (M) 01 E248712 JN, A CAS-	UTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude: Quad Summary:	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567 58)	SUNSET LA 2001, 26 SE	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres): Elevation (feet):	39 7,900	
PONDS ABOUT Detailed Locati AT LILY PAD LA Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N, JTM: Zone-1 County Summa Alpine Sources: CAL41S0002	ion: AKE AND 7 EEN 6 AND R19E, Sec. 11 N427670 ary: CALHOU LAKE NE CRIPE, F	1941. DETEC 9 AUG 2001 28, E (M) 01 E248712 JN, A CAS- EAR LILY PO	TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (38119 SU #6409, 6410, 6411, 6412, 64	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567 58) 13, 6414, 6415, 6416, 6417, E 1941-08-12 D WILDLIFE) - GIS DATA AS	SUNSET LA 2001, 26 SE 6418 & 6419	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres): Elevation (feet): 9 COLLECTED FROM 3 MI F	39 7,900	
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N, UTM: Zone-1 County Summa Alpine Sources: CAL41S0002 CRI16D0001	ion: AKE AND 7 EEN 6 AND R19E, Sec. I1 N427670 ary: CALHOU LAKE NE CRIPE, F AMPHIB CALIFOF	1941. DETEC 9 AUG 2001 28, E (M) 11 E248712 JN, A CAS- EAR LILY PO 4. (CALIFORI IAN AND REI	TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (38119 SU #6409, 6410, 6411, 6412, 64 OL, ON ROAD TO SUNSET LAK NIA DEPARTMENT OF FISH AN PTILE SPECIES OF SPECIAL CO TMENT OF FISH AND WILDLIFE	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567 58) 13, 6414, 6415, 6416, 6417, 1 E 1941-08-12 D WILDLIFE) - GIS DATA AS ONCERN LIST 2016-05-06	SUNSET LA 2001, 26 SE 6418 & 6419 SSEMBLED	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres): Elevation (feet): 9 COLLECTED FROM 3 MI F FOR UPDATES TO THE CA	39 7,900 ROM BLUE	
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N, UTM: Zone-1 County Summa	ion: AKE AND 7 EETED IN 7 EEN 6 AND R19E, Sec. I1 N427670 ary: CALHOU LAKE NE CRIPE, F AMPHIB CALIFOF TO 2015	IPONDS SOU 9 AUG 2001 9 AUG 2001 28, E (M) 11 E248712 JN, A CAS- EAR LILY PO 4. (CALIFORI IAN AND REI RNIA DEPAR FIELDWORI	TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (38119 SU #6409, 6410, 6411, 6412, 64 OL, ON ROAD TO SUNSET LAK NIA DEPARTMENT OF FISH AN PTILE SPECIES OF SPECIAL CO TMENT OF FISH AND WILDLIFE	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567 58) 13, 6414, 6415, 6416, 6417, E 1941-08-12 D WILDLIFE) - GIS DATA AS ONCERN LIST 2016-05-06 E - CDFW AMPHIBIANS - HI	SUNSET LA 2001, 26 SE 6418 & 6419 SSEMBLED GH MOUNT	KE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres): Elevation (feet): 9 COLLECTED FROM 3 MI F FOR UPDATES TO THE CA	39 7,900 ROM BLUE	
PONDS ABOUT Detailed Locati AT LILY PAD L/ Ecological: Threats: General: LARVAE COLLI FOUND BETWE PLSS: T09N, UTM: Zone-1 County Summa Alpine Sources: CAL41S0002 CRI16D0001 DFW16D0001	ion: AKE AND 7 EECTED IN 7 EEN 6 AND R19E, Sec. 11 N427670 ary: CALHOL LAKE NE CRIPE, F AMPHIB CALIFOF TO 2015 ELLIOT,	PONDS SOU 1941. DETEC 9 AUG 2001 28, E (M) 01 E248712 JN, A CAS- EAR LILY PO 4. (CALIFORI IAN AND REI RNIA DEPAR FIELDWORF G. & A. MCC	JTH OF THE PACIFIC CREST T TED ON 30 MAY 1992, 5 SEP 1 , 1 EGG MASS ON 1 JUN 2012, Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (38119 SU #6409, 6410, 6411, 6412, 64 OL, ON ROAD TO SUNSET LAK NIA DEPARTMENT OF FISH AN PTILE SPECIES OF SPECIAL CO TMENT OF FISH AND WILDLIFE (2016-04-25	RAIL, ON BOTH SIDES OF 3 999, 17 AUG 2000, 31 AUG 3 1 LARVA ON 6 JUL 2013. specific area 38.60325 / -119.88567 58) 13, 6414, 6415, 6416, 6417, E 1941-08-12 D WILDLIFE) - GIS DATA AS ONCERN LIST 2016-05-06 E - CDFW AMPHIBIANS - HI	SUNSET LA 2001, 26 SE 6418 & 6419 SSEMBLED GH MOUNT ODACTYLU	IKE ROAD. P 2001, AND 31 JUL 2005. 1 Area (acres): Elevation (feet): 9 COLLECTED FROM 3 MI F FOR UPDATES TO THE CA AIN LAKES DATABASE, CO	39 7,900 ROM BLUE	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad: Occurrence Number:	A1202 Pacific Valley (3811958) : 508		EO Index: Element Code: Occurrence Last U			
Scientific Name: A	mbystoma macı	rodactylum sigillatum	Common Name:	southern long	g-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC	-Species of Special Concerr	ı
CNDDB Element Ranks	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS AF	ONDS AND LAKES. OUTSI RE TERRESTRIAL AND AS WS OF MAMMALS AND MC	SOCIATED
Last Date Observed:	2012-06-01		Occurrence Type:	Natural/Nati	ive occurrence	
Last Survey Date:	2012-06-01		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAE	BE NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
POND 0.8 MILE SE OF	LOWER BLUE	LAKE CAMPGROUND, WEST OF	TAMARACK LAKE, TOIYA	BE NATIONA	L FOREST.	
Detailed Location:						
Ecological:						
Threats:						
General:						
5 LARVAE FOUND ON	15 JUL 2003, 1	LARVA ON 6 JUL 2005, 1 LARVA	ON 9 JUN 2009, AND 1 LA	ARVA FOUND	ON 1 JUN 2012.	
PLSS: T09N, R19E, S	ec. 29, NW (M)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N427	7114 E246382	Latitude/Longitude:	38.60631 / -119.91254		Elevation (feet):	8,300
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	8)			
Sources:						



California Department of Fish and Wildlife



	x Number: A1203			EO Index:		102769	
Key Quad:	F	Pacific Valley	(3811958)	Element Code:	Element Code: AAAAA01		
Occurrence Nur	mber: 5	509		Occurrence Last U	Occurrence Last Updated: 2016-10-11		
Scientific Name	: Amb	ystoma macr	rodactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:		Federal:	None	Rare Plant Rank:			
		State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Elemen	t Ranks:	Global:	G5T4				
		State:	S3				
General Habitat	:			Micro Habitat:			
HIGH ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS.			BREEDING SEASO	N ADULTS IND BURF	N PONDS AND LAKES. OUTSID S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MOI	SOCIATED	
Last Date Obse	rved: 20	003-07-15		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Dat	te: 20	003-07-15		Occurrence Rank:	Unknow	n	
Owner/Manager	r: P'	VT		Trend:	Unknow	n	
Presence:	Pi	resumed Exta	ant				
Location:							
POND BETWEE	N THE EA	ST END OF	TWIN LAKE AND THE SE END C	DF LOWER BLUE LAKE, NE	AR MOKEI	LUMNE WILDERNESS.	
Detailed Location	on:						
		NO1 ABOUT	0.7 MILE WEST OF ITS INTERS	SECTION WITH BLUE LAKE	S ROAD.		
	S ROAD 9						
NORTH OF USF Ecological :	S ROAD 9						
NORTH OF USF Ecological: Threats:	S ROAD 9						
NORTH OF USF Ecological: Threats: General:							
NORTH OF USF Ecological: Threats: General:			1 LARVA FOUND ON 15 JUL 20				
NORTH OF USF Ecological: Threats: General:	CTED ON 2	24 JUL 2001.	1 LARVA FOUND ON 15 JUL 20 Accuracy:			Area (acres):	5
NORTH OF USF Ecological: Threats: General: LARVAE DETEC PLSS: T09N, F	CTED ON 2 R19E, Sec.	24 JUL 2001.		03. 80 meters		Area (acres): Elevation (feet):	5 8,150
NORTH OF USF Ecological: Threats: General: LARVAE DETEC PLSS: T09N, F UTM: Zone-1	CTED ON 2 R19E, Sec. 1 N427729	24 JUL 2001. 30, NW (M)	Accuracy:	03. 80 meters			
NORTH OF USF Ecological: Threats: General: LARVAE DETEC PLSS: T09N, F	CTED ON 2 R19E, Sec. 1 N427729	24 JUL 2001. 30, NW (M)	Accuracy: Latitude/Longitude:	03. 80 meters 38.60744 / -119.93192			
NORTH OF USF Ecological: Threats: General: LARVAE DETEC PLSS: T09N, F UTM: Zone-1 [*] County Summa Alpine	CTED ON 2 R19E, Sec. 1 N427729	24 JUL 2001. 30, NW (M)	Accuracy: Latitude/Longitude: Quad Summary:	03. 80 meters 38.60744 / -119.93192			
NORTH OF USF Ecological: Threats: General: LARVAE DETEC PLSS: T09N, F UTM: Zone-1 ² County Summa	CTED ON 2 R19E, Sec. 1 N427729 ry: U.S. FOF	24 JUL 2001. 30, NW (M) 3 E244698 REST SERVIO	Accuracy: Latitude/Longitude: Quad Summary:	03. 80 meters 38.60744 / -119.93192 58)	TEM (NRI	Elevation (feet):	8,150



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad: Occurrence Number:	A1205 Pacific Valley 510	/ (3811958)	EO Index: Element Code: Occurrence Last U			
Scientific Name: A	mbystoma mac	rodactylum sigillatum	Common Name:	southern I	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW S	SC-Species of Special Concer	า
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASC	N ADULTS	I PONDS AND LAKES. OUTSI 8 ARE TERRESTRIAL AND AS 8 OWS OF MAMMALS AND MC	SOCIATED
Last Date Observed:	1992-07-29		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	1992-07-29		Occurrence Rank:	: Unknown		
Owner/Manager:	USFS-ELDOF	RADO NF	Trend:	Unknowr	n	
Presence:	Presumed Ext	ant				
Location:						
WEST OF MEADOW LA	AKE AND EAST	OF TWIN LAKE, ELDORADO NA	ATIONAL FOREST.			
Detailed Location:						
Ecological:						
Threats:						
General:						
LARVAE DETECTED IN	N THIS VICINIT	Y ON 29 JUL 1992.				
PLSS: T09N, R18E, S	Sec. 25, NW (M)	Accuracy:	1/5 mile	1/5 mile		70
UTM: Zone-11 N4277241 E242659 Latitude/Longitude:		38.60639 / -119.95529		Elevation (feet):	8,000	
County Summary:		Quad Summary:				
Alpine Pacific Valley (3811958)		58)				
Alpine						

NATIONAL FORESTS XXXX-XX-XX



California Department of Fish and Wildlife



Map Index Numbe	er: A	1206		EO Index:		102772	
Key Quad:	Р	acific Valley	(3811958)	Element Code:		AAAAA01085	
Occurrence Numb	ber: 5	11		Occurrence Last U	Occurrence Last Updated: 2016-07-19		
Scientific Name:	Amby	rstoma macro	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:		Federal:	None	Rare Plant Rank:			
		State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element F	Ranks:	Global:	G5T4				
		State:	S3				
General Habitat:				Micro Habitat:			
General Habitat: HIGH ELEVATION MEADOWS AND LAKES IN THE SIERRA NEVADA, CASCADE, AND KLAMATH MOUNTAINS.			BREEDING SEASO	N ADULTS JND BURF	I PONDS AND LAKES. OUTSIDE OF ARE TERRESTRIAL AND ASSOCIATE OWS OF MAMMALS AND MOIST ARE		
Last Date Observe	ed: 20	02-09-18		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	20	02-09-18		Occurrence Rank:	Unknow	n	
Owner/Manager:	P٧	Τ		Trend:	Unknow	n	
Presence:	Pre	esumed Exta	ant				
Location:							
PONDS SW OF M	EADOW	LAKE, ABOL	JT 2 MILES SSW OF DEADWOO	DD PEAK, NEAR MOKELUM	NE WILDE	RNESS.	
Detailed Location	:						
	SE OF T	HE MEADO\	W LAKE DAM AND ANOTHER A	BOUT 0.2 MILE SW OF THE	DAM.		
Ecological:							
Threats:							
General:							
	ED IN BC	TH PONDS	ON 24 JUL 2001. 3 LARVAE FO	UND IN THE NE POND ON	18 SEP 20	002.	
LARVAE DETECT			Accuracy	specific area		Area (acres): 10	
LARVAE DETECT	8E, Sec.	26 (M)	Accuracy:				
PLSS: T09N, R1		26 (M) 3 E241049	Latitude/Longitude:	38.5986 / -119.97346		Elevation (feet): 7,838	
PLSS: T09N, R1 UTM: Zone-11 N	14276428	. ,	•	38.5986 / -119.97346		Elevation (feet): 7,838	
PLSS: T09N, R1 UTM: Zone-11 N County Summary	14276428	. ,	Latitude/Longitude:			Elevation (feet): 7,838	
PLSS: T09N, R1 UTM: Zone-11 N County Summary Alpine	14276428	. ,	Latitude/Longitude: Quad Summary:			Elevation (feet): 7,838	
PLSS: T09N, R1 UTM: Zone-11 N County Summary Alpine Sources: DFW16D0001 0	N4276428	3 E241049 NIA DEPAR	Latitude/Longitude: Quad Summary: Pacific Valley (38119	58)	GH MOUN	Elevation (feet): 7,838	



California Department of Fish and Wildlife



Map Index Number:	A1207		EO Index:		102773	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAA01085	
Occurrence Number:	512		Occurrence Last U	Occurrence Last Updated: 201		
Scientific Name:	Mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAN		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURF	N PONDS AND LAKES. OUTSID S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MOI	SOCIATED
Last Date Observed:	2012-08-19		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2012-08-19		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
PONDS IN DEADWOO	D CANYON 0.3	TO 0.8 MILE WEST OF DEADWO	OD LAKE, MOKELUMNE V	VILDERNE	ESS, ELDORADO NATIONAL FO	DREST.
Detailed Location:						
Ecological:						
Threats:						
General:						
DETECTED IN 1996, 2 1 ADULT IN 2010, AND		135 LARVAE AND 1 ADULT FOUI UND IN 2012.	ND IN 2002, 106 LARVAE II	N 2003, 19	97 LARVAE AND 32 METAMOR	PHS IN 200
PLSS: T09N, R18E, S	Sec. 28, S (M)	Accuracy:	specific area		Area (acres):	29
UTM: Zone-10 N427	6679 E761179	Latitude/Longitude:	38.6002 / -120.00091		Elevation (feet):	8,400
County Summary:		Quad Summary:				
oounty ounnury.		Pacific Valley (381195	8), Mokelumne Peak (38120	051)		
Alpine						
Alpine Sources: DFW16D0001 CALI	FORNIA DEPAR 015 FIELDWORI	TMENT OF FISH AND WILDLIFE < 2016-04-25	- CDFW AMPHIBIANS - HI	GH MOUN	NTAIN LAKES DATABASE, COV	ERING 199



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	44936		EO Index:	102774		
Key Quad:	Pacific Valley	v (3811958)	Element Code:	AAAAA01085		
Occurrence Number:	513		Occurrence Last U	Occurrence Last Updated: 2016-07-19		
Scientific Name: A	mbystoma macı	rodactylum sigillatum	Common Name:	southern long-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Species of Special Conce	rn	
CNDDB Element Ranks	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	OCCUR IN PONDS AND LAKES. OUTS IN ADULTS ARE TERRESTRIAL AND A UND BURROWS OF MAMMALS AND M IN ROCKS.	SSOCIATED	
Last Date Observed:	2003-08-28		Occurrence Type:	Natural/Native occurrence		
Last Survey Date:	2003-08-28		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
	OUT A MILE W	EST OF MEADOW LAKE, MOKEL	UMNE WILDERNESS.			
Detailed Location:						
Ecological:						
Threats:						
General:						
		1 ADULT FOUND ON 28 AUG 200	3.			
PLSS: T09N, R18E, S	ec. 27, SW (M)	•	specific area	Area (acres):	2	
UTM: Zone-11 N427	6773 E239539	Latitude/Longitude:	38.60126 / -119.99089	Elevation (feet):	8,550	
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195				
Sources:						



California Department of Fish and Wildlife



Map Index Number:	A1242		EO Index:		102810	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAA01085	
Occurrence Number:	534		Occurrence Last U	pdated:	2016-07-20	
Scientific Name:	mbystoma macro	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	1
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURF	N PONDS AND LAKES. OUTSIE S ARE TERRESTRIAL AND AS ROWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-06		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-07-06		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-ELDOR/	ADO NF	Trend:	Unknow	n	
Presence:	Presumed Exta	int				
Location:						
VICINITY OF DEER CR	REEK AND LITTL	E INDIAN VALLEY, 0.8 TO 1.2 MI	ILES SW OF SUMMIT LAKE	E, ELDOR	ADO NATIONAL FOREST.	
Detailed Location:						
Ecological:						
Threats:						
General:						
		5, 1996, 2000, AND 2007. LARVAI IN 2009, 2 ADULTS IN 2010, AND			D LARVAE FOUND IN 2002, 35	LARVAE IN
PLSS: T09N, R19E, S	Sec. 33, NE (M)	Accuracy:	non-specific area		Area (acres):	41
UTM: Zone-11 N427	5632 E248740	Latitude/Longitude:	38.59364 / -119.88496		Elevation (feet):	7,800
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	8)			
Sources:						
	FORNIA DEPAR 015 FIELDWORK	TMENT OF FISH AND WILDLIFE	- CDFW AMPHIBIANS - HI	GH MOUN	TAIN LAKES DATABASE, CO	/ERING 19
102		2010-04-25				



California Department of Fish and Wildlife



	A1243		EO Index:		102811	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAA01085	
Occurrence Number:	535		Occurrence Last U	pdated:	2016-07-21	
Scientific Name:	Ambystoma macr	rodactylum sigillatum	Common Name:	southern lo	ong-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SS	C-Species of Special Concerr	า
CNDDB Element Rank	ks: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS	PONDS AND LAKES. OUTSII ARE TERRESTRIAL AND AS OWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-06		Occurrence Type:	Natural/N	ative occurrence	
Last Survey Date:	2013-07-06		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
	Presumed Exta	ant				
Presence:						
Presence: Location:						
Location:		CE OF DEER CREEK AND BLUE	CREEK, 1 MILE EAST OF	CLOVER V	ALLEY, ELDORADO NATION	AL FORES
Location:		CE OF DEER CREEK AND BLUE	CREEK, 1 MILE EAST OF	CLOVER V	ALLEY, ELDORADO NATION	AL FORES
Location: POND 1.2 MILES NNE		CE OF DEER CREEK AND BLUE	CREEK, 1 MILE EAST OF	CLOVER V	ALLEY, ELDORADO NATION	AL FORES
Location: POND 1.2 MILES NNE Detailed Location:		CE OF DEER CREEK AND BLUE	CREEK, 1 MILE EAST OF	CLOVER V	ALLEY, ELDORADO NATION	AL FORES
Location: POND 1.2 MILES NNE Detailed Location: Ecological:		CE OF DEER CREEK AND BLUE	CREEK, 1 MILE EAST OF	CLOVER V	ALLEY, ELDORADO NATION	AL FORES
Location: POND 1.2 MILES NNE Detailed Location: Ecological: Threats: General:	OF CONFLUEN	CE OF DEER CREEK AND BLUE 101 LARVAE FOUND ON 6 JUL 2		CLOVER V	ALLEY, ELDORADO NATION	AL FORES
Location: POND 1.2 MILES NNE Detailed Location: Ecological: Threats: General: 50 LARVAE FOUND O	OF CONFLUEN N 27 SEP 2002.			CLOVER V	ALLEY, ELDORADO NATION Area (acres):	AL FORES
Location: POND 1.2 MILES NNE Detailed Location: Ecological: Threats: General: 50 LARVAE FOUND O PLSS: T09N, R19E, S	OF CONFLUEN N 27 SEP 2002.	101 LARVAE FOUND ON 6 JUL 2	2013.	CLOVER V		
Location: POND 1.2 MILES NNE Detailed Location: Ecological: Threats: General: 50 LARVAE FOUND O PLSS: T09N, R19E, S UTM: Zone-11 N427	OF CONFLUEN N 27 SEP 2002. Sec. 33, NW (M)	101 LARVAE FOUND ON 6 JUL 2 Accuracy:	2013. 80 meters	CLOVER V	Area (acres):	5
Location: POND 1.2 MILES NNE Detailed Location: Ecological: Threats: General: 50 LARVAE FOUND O PLSS: T09N, R19E, S	OF CONFLUEN N 27 SEP 2002. Sec. 33, NW (M)	101 LARVAE FOUND ON 6 JUL 2 Accuracy: Latitude/Longitude:	2013. 80 meters 38.59051 / -119.90034	CLOVER V	Area (acres):	5



California Department of Fish and Wildlife



Map Index Number:	A1244		EO Index:		102812		
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAA01085		
Occurrence Number:	536		Occurrence Last U	Occurrence Last Updated: 2016-07		07-21	
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern lo	ong-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_SS	C-Species of Special Concern		
CNDDB Element Rank	s: Global:	G5T4					
	State:	S3					
General Habitat:			Micro Habitat:				
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURR(PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND ASS OWS OF MAMMALS AND MO	SOCIATED	
Last Date Observed:	2001-07-02		Occurrence Type:	Natural/N	ative occurrence		
Last Survey Date:	2001-07-02		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-ELDOR/	ADO NF	Trend:	Unknown			
Presence:	Presumed Exta	int					
Location:							
	OF BLUE CREE	K, CLOVER VALLEY, 2 MILES SC	OUTH OF LOWER BLUE LA	KE, ELDOF	RADO NATIONAL FOREST.		
POND 0.1 MILE EAST							
Detailed Location: EAST OF DEER VALLE	EY ROAD (USFS	ROAD 9N83) ABOUT 1.4 MILES	SOUTH OF ITS INTERSEC	TION WITH	HROAD 9N01.		
Detailed Location: EAST OF DEER VALLE Ecological:	EY ROAD (USFS	ROAD 9N83) ABOUT 1.4 MILES	SOUTH OF ITS INTERSEC	TION WITH	HROAD 9N01.		
Detailed Location: EAST OF DEER VALLE Ecological: Threats:	EY ROAD (USFS	ROAD 9N83) ABOUT 1.4 MILES	SOUTH OF ITS INTERSEC	TION WITH	HROAD 9N01.		
Detailed Location: EAST OF DEER VALLE Ecological: Threats: General:		ROAD 9N83) ABOUT 1.4 MILES	SOUTH OF ITS INTERSEC	TION WITH	HROAD 9N01.		
Detailed Location:		ROAD 9N83) ABOUT 1.4 MILES	SOUTH OF ITS INTERSEC	TION WITH	HROAD 9N01.		
Detailed Location: EAST OF DEER VALLE Ecological: Threats: General: LARVAE DETECTED C	DN 2 JUL 2001.	ROAD 9N83) ABOUT 1.4 MILES Accuracy:	SOUTH OF ITS INTERSEC	TION WITH	HROAD 9N01. Area (acres):	5	
Detailed Location: EAST OF DEER VALLE Ecological: Threats: General: LARVAE DETECTED C PLSS: T09N, R19E, S	DN 2 JUL 2001.			TION WITH		5 7,800	
Detailed Location: EAST OF DEER VALLE Ecological: Threats: General: LARVAE DETECTED C PLSS: T09N, R19E, S	DN 2 JUL 2001. Sec. 32, W (M)	Accuracy:	80 meters	TION WITH	Area (acres):		
Detailed Location: EAST OF DEER VALLE Ecological: Threats: General: LARVAE DETECTED C PLSS: T09N, R19E, S UTM: Zone-11 N427	DN 2 JUL 2001. Sec. 32, W (M)	Accuracy: Latitude/Longitude:	80 meters 38.58936 / -119.91659	TION WITH	Area (acres):		



California Department of Fish and Wildlife

California Natural Diversity Database



Key Quad:	A1245 Pacific Valley	y (3811958)	EO Index: Element Code:		102813 AAAAA01085	
Occurrence Number:	537		Occurrence Last U	pdated:	2016-07-21	
Scientific Name:	Ambystoma macı	rodactylum sigillatum	Common Name:	southern l	ong-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	1
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAM		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS JND BURR	PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND AS OWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-22		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2013-07-22		Occurrence Rank:	Unknown	I	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown	I	
Presence:	Presumed Ext	ant				
Location:						
	ES SOUTH OF 1	TWIN LAKE, SE OF MEADOW LA	KE, MOKELUMNE WILDER	RNESS, ELE	DORADO NATIONAL FOREST	
	ES SOUTH OF 1	TWIN LAKE, SE OF MEADOW LA	KE, MOKELUMNE WILDEF	RNESS, ELI	DORADO NATIONAL FOREST	
POND ABOUT 1.3 MIL	ES SOUTH OF 1	TWIN LAKE, SE OF MEADOW LA	KE, MOKELUMNE WILDEF	RNESS, ELI	DORADO NATIONAL FOREST	
POND ABOUT 1.3 MILI Detailed Location: Ecological: Threats:	ES SOUTH OF 1	TWIN LAKE, SE OF MEADOW LA	KE, MOKELUMNE WILDEF	NESS, ELI	DORADO NATIONAL FOREST	
POND ABOUT 1.3 MILI Detailed Location: Ecological: Threats: General:				RNESS, ELI	DORADO NATIONAL FOREST	
POND ABOUT 1.3 MILI Detailed Location: Ecological: Threats: General:		TWIN LAKE, SE OF MEADOW LA 30 LARVAE FOUND ON 22 JUL		RNESS, ELI	DORADO NATIONAL FOREST	
POND ABOUT 1.3 MILI Detailed Location: Ecological: Threats: General:	N 15 AUG 2003.			RNESS, ELI	DORADO NATIONAL FOREST Area (acres):	5
POND ABOUT 1.3 MILI Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND OI PLSS: T09N, R18E, S	N 15 AUG 2003.	30 LARVAE FOUND ON 22 JUL	2013. 80 meters	RNESS, ELI		
POND ABOUT 1.3 MILI Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND OI PLSS: T09N, R18E, S	N 15 AUG 2003. Sec. 36, SE (M)	30 LARVAE FOUND ON 22 JUL Accuracy:	2013. 80 meters	RNESS, ELI	Area (acres):	5
POND ABOUT 1.3 MILI Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND OI PLSS: T09N, R18E, S UTM: Zone-11 N427	N 15 AUG 2003. Sec. 36, SE (M)	30 LARVAE FOUND ON 22 JUL Accuracy: Latitude/Longitude:	2013. 80 meters 38.58692 / -119.94044	RNESS, ELI	Area (acres):	5



California Department of Fish and Wildlife



Key Quad: Occurrence Number:	A1246 Pacific Valley 538	9 (3811958)	EO Index: Element Code: Occurrence Last U	AA	2814 AAA01085 16-07-21	
Scientific Name:	Ambystoma maci	rodactylum sigillatum	Common Name:	southern long-	toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-S	Species of Special Concern	l
CNDDB Element Ranl	ks: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAN		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS ARI	NDS AND LAKES. OUTSIE E TERRESTRIAL AND ASS S OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2002-09-27		Occurrence Type:	Natural/Nativ	e occurrence	
Last Survey Date:	2002-09-27		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:				Ε ΙΝΠΙΔΝ ΥΔΙ Ι	LEY, ELDORADO NATION	AL FORES
	OF CONFLUEN	CE OF BLUE CREEK AND DEER	CREEK, SOUTH OF LITTL			
POND 1.3 MILES ENE Detailed Location:	OF CONFLUEN	CE OF BLUE CREEK AND DEER	CREEK, SOUTH OF LITTL			ALTORES
POND 1.3 MILES ENE Detailed Location: Ecological:	OF CONFLUEN	CE OF BLUE CREEK AND DEER	CREEK, SOUTH OF LITTL			ALTORES
POND 1.3 MILES ENE Detailed Location: Ecological: Threats:	OF CONFLUEN	CE OF BLUE CREEK AND DEER	CREEK, SOUTH OF LITTL			AL I ONES
POND 1.3 MILES ENE Detailed Location: Ecological: Threats: General:		CE OF BLUE CREEK AND DEER	CREEK, SOUTH OF LITTL			
POND 1.3 MILES ENE Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND O	N 27 SEP 2002.					
POND 1.3 MILES ENE Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND O PLSS: T08N, R19E,	N 27 SEP 2002. Sec. 4, NE (M)	Accuracy:	80 meters		Area (acres):	5
POND 1.3 MILES ENE Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND O PLSS: T08N, R19E,	N 27 SEP 2002.				Area (acres): Elevation (feet):	
Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND O PLSS: T08N, R19E,	N 27 SEP 2002. Sec. 4, NE (M)	Accuracy: Latitude/Longitude: Quad Summary:	80 meters 38.58144 / -119.8889		. ,	5
POND 1.3 MILES ENE Detailed Location: Ecological: Threats: General: 55 LARVAE FOUND O PLSS: T08N, R19E, UTM: Zone-11 N427	N 27 SEP 2002. Sec. 4, NE (M)	Accuracy: Latitude/Longitude:	80 meters 38.58144 / -119.8889		. ,	5



California Department of Fish and Wildlife



Map Index Number:	A1247		EO Index:		102815		
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAA01085		
Occurrence Number:	539		Occurrence Last U	pdated:	2016-07-21	07-21	
Scientific Name:	mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	1	
CNDDB Element Rank	s: Global:	G5T4					
	State:	S3					
General Habitat:			Micro Habitat:				
HIGH ELEVATION ME/ CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURF	N PONDS AND LAKES. OUTSIE S ARE TERRESTRIAL AND AS ROWS OF MAMMALS AND MO	SOCIATED	
Last Date Observed:	2013-07-22		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	2013-07-22		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	n		
Presence:	Presumed Exta	ant					
Location:				ELUMNE V	WILDERNESS, ELDORADO NA	TIONAL	
POND 1.2 MILES N OF	CONFLUENCE	OF CACHE CREEK & N FORK M	OKELUMNE RIVER, MOKE				
	CONFLUENCE	OF CACHE CREEK & N FORK M	OKELUMNE RIVER, MOKE				
POND 1.2 MILES N OF FOREST.	CONFLUENCE	OF CACHE CREEK & N FORK M	OKELUMNE RIVER, MOKE				
POND 1.2 MILES N OF FOREST. Detailed Location:	CONFLUENCE	OF CACHE CREEK & N FORK M	OKELUMNE RIVER, MOKE				
POND 1.2 MILES N OF FOREST. Detailed Location: Ecological:	CONFLUENCE	OF CACHE CREEK & N FORK M	OKELUMNE RIVER, MOKE				
POND 1.2 MILES N OF FOREST. Detailed Location: Ecological: Threats: General:		OF CACHE CREEK & N FORK M 35 LARVAE FOUND ON 22 JUL 2					
POND 1.2 MILES N OF FOREST. Detailed Location: Ecological: Threats: General:	N 15 AUG 2003.				Area (acres):	5	
POND 1.2 MILES N OF FOREST. Detailed Location: Ecological: Threats: General: 41 LARVAE FOUND OI PLSS: T08N, R18E, S	N 15 AUG 2003.	35 LARVAE FOUND ON 22 JUL 2	2013.		Area (acres): Elevation (feet):		
POND 1.2 MILES N OF FOREST. Detailed Location: Ecological: Threats: General: 41 LARVAE FOUND OI PLSS: T08N, R18E, S	N 15 AUG 2003. Sec. 2, SE (M)	35 LARVAE FOUND ON 22 JUL 2 Accuracy:	2013. 80 meters			5	
POND 1.2 MILES N OF FOREST. Detailed Location: Ecological: Threats: General: 41 LARVAE FOUND OI PLSS: T08N, R18E, S UTM: Zone-11 N427	N 15 AUG 2003. Sec. 2, SE (M)	35 LARVAE FOUND ON 22 JUL 2 Accuracy: Latitude/Longitude:	2013. 80 meters 38.57272 / -119.96101			5	



California Department of Fish and Wildlife



Map Index Number:	A1248		EO Index:		102816	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAA01085	
Occurrence Number:	540		Occurrence Last Up	dated:	2016-07-21	
Scientific Name: A	mbystoma macr	rodactylum sigillatum	Common Name:	southern le	ong-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SS	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASON	I ADULTS ND BURR	PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND ASS OWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2009-07-25		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2009-07-25		Occurrence Rank:	Unknown	I	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown	I	
Presence:	Presumed Exta	ant				
Location:						
POND 1.8 MILES NNE	OF HERMIT VA	LLEY CAMPGROUND, 1.5 MI E O	F DEER CREEK, MOKELUN	MNE WILC	PERNESS, ELDORADO NATIO	NAL
FOREST.						
FOREST. Detailed Location:	HE BOUNDARY	WITH STANISLAUS NATIONAL F	FOREST.			
FOREST. Detailed Location: 0.4 MILE NORTH OF T Ecological:	HE BOUNDARY	WITH STANISLAUS NATIONAL F	FOREST.			
FOREST. Detailed Location: 0.4 MILE NORTH OF T Ecological: Threats:	HE BOUNDARY	WITH STANISLAUS NATIONAL F	FOREST.			
FOREST. Detailed Location: 0.4 MILE NORTH OF T Ecological: Threats: General:		WITH STANISLAUS NATIONAL F	FOREST.			
FOREST. Detailed Location:		WITH STANISLAUS NATIONAL F	FOREST.			
FOREST. Detailed Location: 0.4 MILE NORTH OF T Ecological: Threats: General: LARVAE DETECTED C PLSS: T08N, R19E, S	DN 25 JUL 2009. Sec. 9, NE (M)	WITH STANISLAUS NATIONAL F	FOREST. 80 meters		Area (acres):	5
FOREST. Detailed Location: 0.4 MILE NORTH OF T Ecological: Threats: General: LARVAE DETECTED C PLSS: T08N, R19E, S	DN 25 JUL 2009. Sec. 9, NE (M)				Area (acres): Elevation (feet):	5 8,350
FOREST. Detailed Location: 0.4 MILE NORTH OF T Ecological: Threats: General: LARVAE DETECTED C PLSS: T08N, R19E, S UTM: Zone-11 N427	DN 25 JUL 2009. Sec. 9, NE (M)	Accuracy:	80 meters			
FOREST. Detailed Location: 0.4 MILE NORTH OF T Ecological: Threats: General: LARVAE DETECTED C PLSS: T08N, R19E, S	DN 25 JUL 2009. Sec. 9, NE (M)	Accuracy: Latitude/Longitude:	80 meters 38.56363 / -119.8898			



California Department of Fish and Wildlife



Map Index Number:	A1249		EO Index:		102817		
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085		
Occurrence Number:	541		Occurrence Last Up	Occurrence Last Updated: 2016-0		7-21	
Scientific Name: A	mbystoma macr	rodactylum sigillatum	Common Name:	southern le	ong-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_SS	SC-Species of Special Concern		
CNDDB Element Rank	s: Global:	G5T4					
	State:	S3					
General Habitat:			Micro Habitat:				
HIGH ELEVATION ME/ CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASON	N ADULTS JND BURR	PONDS AND LAKES. OUTSID ARE TERRESTRIAL AND ASS OWS OF MAMMALS AND MOI	SOCIATED	
Last Date Observed:	2003-06-18		Occurrence Type:	Natural/N	lative occurrence		
Last Survey Date:	2003-06-18		Occurrence Rank:	Unknown	1		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown	1		
Presence:	Presumed Exta	ant					
Location:							
Looution		LLEY CAMPGROUND, 1.5 MI E O	OF DEER CREEK, MOKELU	MNE WILD	DERNESS, ELDORADO NATIO	NAL	
POND 1.4 MILES NNE	OF HERMIT VAI						
POND 1.4 MILES NNE FOREST.	OF HERMIT VAI						
POND 1.4 MILES NNE FOREST. Detailed Location:		INDARY WITH STANISLAUS NAT	FIONAL FOREST.				
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR		INDARY WITH STANISLAUS NAT	TIONAL FOREST.				
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR Ecological: Threats:		INDARY WITH STANISLAUS NAT	TIONAL FOREST.				
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR [®] Ecological: Threats: General:	TH OF THE BOU	INDARY WITH STANISLAUS NAT	FIONAL FOREST.				
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR Ecological:	TH OF THE BOU	INDARY WITH STANISLAUS NAT	FIONAL FOREST.				
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR Ecological: Threats: General:	TH OF THE BOU 8 JUN 2003.	INDARY WITH STANISLAUS NAT Accuracy:	FIONAL FOREST. 80 meters		Area (acres):	5	
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR Ecological: Threats: General: 1 ADULT FOUND ON 1 PLSS: T08N, R19E, S	TH OF THE BOU 8 JUN 2003. Sec. 9, SW (M)				Area (acres): Elevation (feet):	5 8,200	
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR Ecological: Threats: General: 1 ADULT FOUND ON 1 PLSS: T08N, R19E, S	TH OF THE BOU 8 JUN 2003. Sec. 9, SW (M)	Accuracy:	80 meters				
POND 1.4 MILES NNE FOREST. Detailed Location: ABOUT 0.1 MILE NOR Ecological: Threats: General: 1 ADULT FOUND ON 1 PLSS: T08N, R19E, S UTM: Zone-11 N427	TH OF THE BOU 8 JUN 2003. Sec. 9, SW (M)	Accuracy: Latitude/Longitude:	80 meters 38.55835 / -119.8942				



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A1250		EO Index:		102818		
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085		
Occurrence Number:	542		Occurrence Last U	pdated:	2016-07-21	7-21	
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern l	ong-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_SS	SC-Species of Special Concer	n	
CNDDB Element Rank	s: Global:	G5T4					
	State:	S3					
General Habitat:			Micro Habitat:				
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURR	PONDS AND LAKES. OUTSI ARE TERRESTRIAL AND AS OWS OF MAMMALS AND MO	SOCIATED	
Last Date Observed:	2013-07-20		Occurrence Type:	Natural/N	lative occurrence		
Last Survey Date:	2013-07-20		Occurrence Rank:	Unknown	1		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown	1		
Presence:	Presumed Exta	ant					
Location:							
1.2 MILES NORTH OF FOREST.	CONFLUENCE	OF DEER CREEK AND N FORK	MOKELUMNE RIVER, MOK	ELUMNE V	WILDERNESS, ELDORADO N	IATIONAL	
Detailed Location:							
AT TWO PONDS, 0.25	MILE SE AND 0	.5 MILE ESE OF STEVENOT CA	AMP.				
Ecological:							
Threats:							
General:							
88 LARVAE FOUND IN POND ON 20 JUL 2013		ID AND 16 IN WESTERN POND	ON 14 AUG 2003. 65 LARV/	AE FOUND	IN EASTERN POND AND 10	IN WESTER	
PLSS: T08N, R19E, S	Sec. 7, W (M)	Accuracy:	specific area		Area (acres):	10	
UTM: Zone-11 N427	1986 E244337	Latitude/Longitude:	: 38.55957 / -119.93412		Elevation (feet):	7,550	
County Summary:		Quad Summary:					
		Pacific Valley (38119	958)				
Alpine							



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad:	A1251 Pacific Valley	(3811958)	EO Index: Element Code:	102820 AAAAA	01085	
Occurrence Number:	543		Occurrence Last U			
Scientific Name: A	Ambystoma macr	rodactylum sigillatum	Common Name:	southern long-toed	salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Specie	es of Special Concern	
CNDDB Element Rank	ks: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS ARE TEF JND BURROWS OF	AND LAKES. OUTSIE RRESTRIAL AND AS MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-20		Occurrence Type:	Natural/Native occ	urrence	
Last Survey Date:	2013-07-20		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
2 PONDS 1 MILE NINA	OF CONFLUEN	ICE OF DEER CREEK & N FORK I	MOKELUMNE RIVER, MO	KELUMNE WILDER	NESS, ELDORADO N	IATIONAL
FOREST.						
FOREST. Detailed Location:						
FOREST. Detailed Location: Ecological:						
FOREST. Detailed Location: Ecological:						
FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND IN I) AND 50 IN WESTERN POND ON	I 14 AUG 2003. 11 LARVA	E FOUND IN EASTE	ERN POND AND 60 IN	WESTERN
FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND IN I	3.	D AND 50 IN WESTERN POND ON Accuracy:	I 14 AUG 2003. 11 LARVAI specific area	E FOUND IN EASTE	RN POND AND 60 IN Area (acres):	NWESTERN 10
FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND IN I POND ON 20 JUL 2013 PLSS: T08N, R18E, S	3.			E FOUND IN EASTE		
FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND IN I POND ON 20 JUL 2013 PLSS: T08N, R18E, S UTM: Zone-11 N427	3. Sec. 12, SE (M)	Accuracy:	specific area	E FOUND IN EASTE	Area (acres):	10
FOREST. Detailed Location: Ecological: Threats: General: 2 LARVAE FOUND IN I POND ON 20 JUL 2013 PLSS: T08N, R18E, S	3. Sec. 12, SE (M)	Accuracy: Latitude/Longitude:	specific area 38.55489 / -119.93997	E FOUND IN EASTE	Area (acres):	10

DFW16D0001 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - CDFW AMPHIBIANS - HIGH MOUNTAIN LAKES DATABASE, COVERING 1995 TO 2015 FIELDWORK 2016-04-25



California Department of Fish and Wildlife



	A1253		EO Index:		102821	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085	
Occurrence Number:	544		Occurrence Last U	pdated:	2016-07-21	
Scientific Name: A	Ambystoma macro	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	ı
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS	N PONDS AND LAKES. OUTSIE S ARE TERRESTRIAL AND AS ROWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-20		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2013-07-20		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	n	
-	Presumed Exta	ant				
Presence:	Presumed Exta	ant				
Presence: Location:		ant LLEY CAMPGROUND, NEAR BC	UNDARY OF MOKELUMN	E WILDER	RNESS, ELDORADO NATIONA	L FOREST.
Presence: Location: POND 1.4 MILES NNW			OUNDARY OF MOKELUMN	E WILDEF	RNESS, ELDORADO NATIONA	L FOREST
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F	OF HERMIT VA					
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological:	OF HERMIT VA	LLEY CAMPGROUND, NEAR BO				
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological: Threats:	OF HERMIT VA	LLEY CAMPGROUND, NEAR BO				
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological: Threats:	OF HERMIT VA	LLEY CAMPGROUND, NEAR BO				
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological: Threats: General:	OF HERMIT VA	LLEY CAMPGROUND, NEAR BO				
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological: Threats: General: 20 LARVAE FOUND Of	Y OF HERMIT VA ROAD 9N83 (DE N 20 JUL 2013.	LLEY CAMPGROUND, NEAR BO				
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological: Threats: General: 20 LARVAE FOUND OF PLSS: T08N, R19E, S	Y OF HERMIT VA ROAD 9N83 (DE N 20 JUL 2013. Sec. 8, SW (M)	LLEY CAMPGROUND, NEAR BC	AIR MILE NORTH OF BOU		/ITH STANISLAUS NATIONAL I	FOREST.
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological: Threats: General: 20 LARVAE FOUND OF PLSS: T08N, R19E, S UTM: Zone-11 N427	Y OF HERMIT VA ROAD 9N83 (DE N 20 JUL 2013. Sec. 8, SW (M)	LLEY CAMPGROUND, NEAR BO ER VALLEY ROAD), ABOUT 0.5 A Accuracy:	AIR MILE NORTH OF BOU		/ITH STANISLAUS NATIONAL I Area (acres):	FOREST.
Presence: Location: POND 1.4 MILES NNW Detailed Location: JUST EAST OF USFS F Ecological: Threats: General: 20 LARVAE FOUND OF PLSS: T08N, R19E, S	Y OF HERMIT VA ROAD 9N83 (DE N 20 JUL 2013. Sec. 8, SW (M)	LLEY CAMPGROUND, NEAR BC ER VALLEY ROAD), ABOUT 0.5 / Accuracy: Latitude/Longitude:	AIR MILE NORTH OF BOU 80 meters 38.55503 / -119.91339		/ITH STANISLAUS NATIONAL I Area (acres):	FOREST.



California Department of Fish and Wildlife



Map Index Num	ber: /	A1254			EO Index:		102822	
Key Quad:	E	Ebbetts Pass	(3811957)		Element Code:		AAAAA01085	
Occurrence Nur	nber: {	545			Occurrence Last U	pdated:	2016-08-23	
Scientific Name	: Amb	ystoma macro	odactylum sigillatum	1	Common Name:	southern	long-toed salamander	
Listing Status:		Federal:	None		Rare Plant Rank:			
		State:	None		Other Lists:	CDFW_S	SC-Species of Special Concer	n
CNDDB Element	t Ranks:	Global:	G5T4					
		State:	S3					
General Habitat:	:				Micro Habitat:			
HIGH ELEVATIO CASCADE, AND			KES IN THE SIERR IS.	A NEVADA,	BREEDING SEASO	N ADULTS JND BURF	I PONDS AND LAKES. OUTSI ARE TERRESTRIAL AND AS OWS OF MAMMALS AND MO	SOCIATED
Last Date Obser	r ved: 2	010-07-14			Occurrence Type:	Natural/N	Native occurrence	
Last Survey Dat	e: 2	010-07-14			Occurrence Rank:	Unknow	n	
Owner/Manager	: U	SFS-TOIYAB	E NF		Trend:	Unknow	n	
Presence:	Р	resumed Exta	int					
KINNEY RESER FOREST. Detailed Locatio	,	ROTHY LAKE	E & PONDS NEAR E	EBBETTS PEA	AK, NORTH OF HIGHWAY	4 NEAR EI	BBETTS PASS,TOIYABE NAT	IONAL
KINNEY RESER FOREST. Detailed Locatic Ecological: Threats:	,	ROTHY LAKE	E & PONDS NEAR E	EBBETTS PE	AK, NORTH OF HIGHWAY	4 NEAR EI	BBETTS PASS,TOIYABE NAT	IONAL
KINNEY RESER FOREST. Detailed Locatic Ecological: Threats: General:	on:				AK, NORTH OF HIGHWAY IERE IN 1997, 2000, 2001, 2			IONAL
FOREST. Detailed Locatic Ecological: Threats: General:	on: R LARVAE			ND PONDS H				IONAL 78
KINNEY RESER FOREST. Detailed Locatio Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R	on: R LARVAE R20E, Sec		/ARIOUS LAKES A Accurad	ND PONDS H	IERE IN 1997, 2000, 2001, 2		5, 2008, AND 2010.	
KINNEY RESER FOREST. Detailed Locatio Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, F UTM: Zone-11	on: R LARVAE R20E, Sec I N427098	= FOUND IN \ . 7 (M)	/ARIOUS LAKES A Accurac Latitude	ND PONDS H	IERE IN 1997, 2000, 2001, 2 specific area		5, 2008, AND 2010. Area (acres):	78
KINNEY RESER FOREST. Detailed Locatic Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R	on: R LARVAE R20E, Sec I N427098	= FOUND IN \ . 7 (M)	/ARIOUS LAKES A Accurad Latitude Quad St	ND PONDS H :y: e/Longitude:	IERE IN 1997, 2000, 2001, 3 specific area 38.55355 / -119.8106		5, 2008, AND 2010. Area (acres):	78
KINNEY RESER FOREST. Detailed Locatio Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R UTM: Zone-11 County Summar Alpine	on: R LARVAE R20E, Sec I N427098	= FOUND IN \ . 7 (M)	/ARIOUS LAKES A Accurad Latitude Quad St	ND PONDS H :y: #/Longitude: ummary:	IERE IN 1997, 2000, 2001, 3 specific area 38.55355 / -119.8106		5, 2008, AND 2010. Area (acres):	78
KINNEY RESER FOREST. Detailed Locatio Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R UTM: Zone-11 County Summar Alpine Sources:	on: R LARVAE 20E, Sec I N427098 ry: CRIPE, I	E FOUND IN \ . 7 (M) 31 E255081 K. (CALIFORM	VARIOUS LAKES A Accurac Latitude Quad St Ebbetts	ND PONDS H zy: z/Longitude: ummary: Pass (381195 OF FISH AND	IERE IN 1997, 2000, 2001, 2 specific area 38.55355 / -119.8106 7)	2002, 2005	5, 2008, AND 2010. Area (acres):	78 8,500
KINNEY RESER FOREST. Detailed Locatio Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R UTM: Zone-11 County Summar Alpine Sources: CRI16D0001	R LARVA 20E, Sec N427098 ry: CRIPE, I AMPHIB CALIFOI	E FOUND IN N . 7 (M) B1 E255081 K. (CALIFORM IAN AND REF	VARIOUS LAKES A Accurac Latitude Quad Si Ebbetts NIA DEPARTMENT PTILE SPECIES OF TMENT OF FISH AI	ND PONDS H :y: :/Longitude: ummary: Pass (381195 OF FISH AND OF FISH AND SPECIAL CO	IERE IN 1997, 2000, 2001, 2 specific area 38.55355 / -119.8106 7) WILDLIFE) - GIS DATA AS DNCERN LIST 2016-05-06	2002, 2005	5, 2008, AND 2010. Area (acres): Elevation (feet):	78 8,500 LIFORNIA
KINNEY RESER FOREST. Detailed Location Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R UTM: Zone-11 County Summan Alpine Sources: CRI16D0001 DFW16D0001	R LARVA 20E, Sec N427098 ry: CRIPE, I AMPHIB CALIFOI TO 2015	E FOUND IN 1 . 7 (M) 31 E255081 K. (CALIFORM IAN AND REF RNIA DEPAR 5 FIELDWORM	VARIOUS LAKES A Accurat Latitude Quad St Ebbetts VIA DEPARTMENT PTILE SPECIES OF TMENT OF FISH AI (2016-04-25	ND PONDS H :y: :/Longitude: ummary: Pass (381195 OF FISH AND OF FISH AND SPECIAL CO ND WILDLIFE	IERE IN 1997, 2000, 2001, 3 specific area 38.55355 / -119.8106 7) O WILDLIFE) - GIS DATA AS ONCERN LIST 2016-05-06 - CDFW AMPHIBIANS - HI	2002, 2005 SSEMBLEI GH MOUN	5, 2008, AND 2010. Area (acres): Elevation (feet): D FOR UPDATES TO THE CA	78 8,500 LIFORNIA VERING 19
KINNEY RESER FOREST. Detailed Locatio Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R UTM: Zone-11 County Summar Alpine Sources: CRI16D0001 DFW16D0001 GRO0210001	R LARVAE 20E, Sec N427098 ry: CRIPE, I AMPHIB CALIFOI TO 2015 GROSS,	E FOUND IN N . 7 (M) 31 E255081 K. (CALIFORN IAN AND REF RNIA DEPAR FIELDWORK . J PHOTO (VARIOUS LAKES A Accurac Latitude Quad St Ebbetts VIA DEPARTMENT PTILE SPECIES OF TMENT OF FISH AI (2016-04-25 OF AMBYSTOMA M	ND PONDS H 2/Longitude: ummary: Pass (381195 OF FISH AND SPECIAL CO ND WILDLIFE IACRODACTY	IERE IN 1997, 2000, 2001, 2 specific area 38.55355 / -119.8106 7) O WILDLIFE) - GIS DATA AS DNCERN LIST 2016-05-06 - CDFW AMPHIBIANS - HI YLUM SIGILLATUM, CALPH	2002, 2005 SSEMBLEI GH MOUN HOTOS ID	5, 2008, AND 2010. Area (acres): Elevation (feet): D FOR UPDATES TO THE CA	78 8,500 LIFORNIA VERING 19
KINNEY RESER FOREST. Detailed Locatic Ecological: Threats: General: ADULTS AND/OI PLSS: T08N, R UTM: Zone-11 County Summar	R LARVAE 20E, Sec 1 N427098 ry: CRIPE, I AMPHIB CALIFOI TO 2015 GROSS, GROSS, WAKE, I	E FOUND IN N . 7 (M) 31 E255081 K. (CALIFORN IAN AND REF RNIA DEPAR 5 FIELDWORK 5 FIELDWORK 5 J PHOTO (VARIOUS LAKES A Accurac Latitude Quad Si Ebbetts VIA DEPARTMENT PTILE SPECIES OF TMENT OF FISH AI (2016-04-25 DF AMBYSTOMA M OF AMBYSTOMA M 410 MVZ #235936 (ND PONDS H cy: c/Longitude: ummary: Pass (381195 OF FISH AND OF FISH AND OF FISH CO ND WILDLIFE MACRODACTY	IERE IN 1997, 2000, 2001, 2 specific area 38.55355 / -119.8106 7) O WILDLIFE) - GIS DATA AS NCERN LIST 2016-05-06 - CDFW AMPHIBIANS - HI YLUM SIGILLATUM, CALPH YLUM SIGILLATUM, CALPH	2002, 2005 SSEMBLEI GH MOUN HOTOS ID HOTOS ID	5, 2008, AND 2010. Area (acres): Elevation (feet): D FOR UPDATES TO THE CA ITAIN LAKES DATABASE, CO #1111 1111 2222 0146 2002-0	78 8,500 LIFORNIA VERING 19 08-13 06-14



California Department of Fish and Wildlife



Map Index Num Key Quad: Occurrence Nur		A1255 Ebbetts Pass (546	(3811957)	EO Index: Element Code: Occurrence Last U	102823 AAAAA01085 pdated: 2019-04-02
					·
Scientific Name	: An	nbystoma macro	odactylum sigillatum	Common Name:	southern long-toed salamander
Listing Status:		Federal:	None	Rare Plant Rank:	
		State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Elemen	t Ranks	Global:	G5T4		
		State:	S3		
General Habitat	:			Micro Habitat:	
HIGH ELEVATIC CASCADE, AND			KES IN THE SIERRA NEVADA, S.	BREEDING SEASO	OCCUR IN PONDS AND LAKES. OUTSIDE OF IN ADULTS ARE TERRESTRIAL AND ASSOCIATED UND BURROWS OF MAMMALS AND MOIST AREAS IN ROCKS.
Last Date Obser	ved:	2017-09-10		Occurrence Type:	Natural/Native occurrence
Last Survey Dat	e:	2017-09-10		Occurrence Rank:	Excellent
Owner/Manager	:	USFS		Trend:	Unknown
Presence:		Presumed Exta	nt		
Location:					
1.5 MILES NW C	F EBBE	TTS PASS, NO	RTH OF HIGHWAY 4, NEAR SE	EDGE OF MOKELUMNE V	VILDERNESS.
Detailed Location	on:				
			EY LAKE AND IN 4 UNNAMED PO ED IN UPLAND HABITAT NW OF		UPPER KINNEY LAKE (NOTE THAT GNIS HAS LAKE
Ecological:					
PINE FOREST (2	2017).				
Threats:					
General:					
			ALSO DETECTED ON 20 JUL 20 E FROM LAKE ON 10 SEP 2017.		2001, 25 JUL 2002, AND 1 OCT 2005. 1 ADULT
PLSS: TO8N, F	R19E, Se	ec. 12, SE (M)	Accuracy:	specific area	Area (acres): 29
UTM: Zone-11	I N42714	491 E253465	Latitude/Longitude:	38.5577 / -119.8293	Elevation (feet): 8,675
County Summa	ry:		Quad Summary:		
Alpine			Ebbetts Pass (381195	7)	
Sources:					
CAR17F0014	CARBI	ENER, M. ET A	L FIELD SURVEY FORM FOR	AMBYSTOMA MACRODAG	CTYLUM SIGILLATUM 2017-09-10
CRI16D0001			NA DEPARTMENT OF FISH AND PTILE SPECIES OF SPECIAL CC		SSEMBLED FOR UPDATES TO THE CALIFORNIA
DFW16D0001		ORNIA DEPAR 15 FIELDWORK		- CDFW AMPHIBIANS - HI	IGH MOUNTAIN LAKES DATABASE, COVERING 1995



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad:	A1257 Ebbetts Pass	; (3811957)	EO Index: Element Code:	10282 AAAA	25 A01085	
Occurrence Number:	547		Occurrence Last U	pdated: 2016-	07-21	
Scientific Name: A	mbystoma macı	rodactylum sigillatum	Common Name:	southern long-toe	ed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Spe	ecies of Special Concerr	า
CNDDB Element Ranks	: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM/		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS ARE 1 JND BURROWS (DS AND LAKES. OUTSII FERRESTRIAL AND AS OF MAMMALS AND MC	SOCIATED
Last Date Observed:	2001-07-21		Occurrence Type:	Natural/Native of	occurrence	
Last Survey Date:	2001-07-21		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAE	BE NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
POND 0.9 MILE NE OF	HIGHWAY 4 AT	T EBBETTS PASS, 0.5 MILE EAS	T OF KINNEY RESERVOIR	, TOIYABE NATIO	ONAL FOREST.	
Detailed Location:						
Ecological:						
Threats:						
General:						
1 LARVA FOUND ON 2 ²						
PLSS: T08N, R20E, S		Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N4270	924 E255950	Latitude/Longitude:	38.55328 / -119.80062		Elevation (feet):	8,700
County Summary:		Quad Summary:				
Alpine		Ebbetts Pass (38119	57)			

TO 2015 FIELDWORK 2016-04-25



California Department of Fish and Wildlife



	nber:	A1258		EO Index:	102826		
Key Quad:		Ebbetts Pass	(3811957)	Element Code:	AAAA01085		
Occurrence Nu	umber:	548		Occurrence Last	Occurrence Last Updated: 2016-10-11		
Scientific Nam	ie: Ar	nbystoma macr	rodactylum sigillatum	Common Name:	southern long-toed salamander		
Listing Status:	:	Federal:	None	Rare Plant Rank			
		State:	None	Other Lists:	CDFW_SSC-Species of Special Concern		
CNDDB Eleme	nt Ranks	: Global:	G5T4				
		State:	S3				
General Habita	at:			Micro Habitat:			
		DOWS AND LA TH MOUNTAIN	AKES IN THE SIERRA NE NS.	BREEDING SEAS	E OCCUR IN PONDS AND LAKES. OUTSIDE OF SON ADULTS ARE TERRESTRIAL AND ASSOCIATED OUND BURROWS OF MAMMALS AND MOIST AREA ND ROCKS.		
ast Date Obs	erved:	2005-08-21		Occurrence Type	e: Natural/Native occurrence		
Last Survey Da	ate:	2005-08-21		Occurrence Ran	k: Unknown		
Owner/Manage	er:	USFS-STANIS	SLAUS NF	Trend:	Unknown		
Presence:		Presumed Exta	ant				
Location:							
PONDS 0.2 MIL	LE SW OI	HIGHWAY 4	AT EBBETTS PASS, STA	NISLAUS NATIONAL FOREST.			
Detailed Locat	ion:						
	ion:						
Ecological:		DTES HUNDRE	EDS OF ADULT SALAMA	NDERS MATING IN PONDS.			
Ecological: 1991 OBSERV/		DTES HUNDRE	EDS OF ADULT SALAMA				
Ecological: 1991 OBSERV/ Fhreats:		DTES HUNDRE	EDS OF ADULT SALAMA				
Ecological: 1991 OBSERV/ Threats: General: INDIVIDUALS (ATION NO			NDERS MATING IN PONDS.	ALSO DETECTED ON 7 JUL 2001, 20 SEP 2001, AND		
Ecological: 1991 OBSERV/ Threats: General: INDIVIDUALS (AUG 2005.	ATION NO	ED IN 1958, 19		NDERS MATING IN PONDS.	ALSO DETECTED ON 7 JUL 2001, 20 SEP 2001, AND Area (acres): 9		
Ecological: 1991 OBSERV/ Threats: General: NDIVIDUALS (AUG 2005. PLSS: T08N,	ATION NO COLLECT R20E, Se	ED IN 1958, 19	965, AND 1991. 1000 LAF	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area			
Ecological: 1991 OBSERV/ Threats: General: NDIVIDUALS (AUG 2005. PLSS: T08N, UTM: Zone-	ATION NG COLLECT R20E, Se 11 N4269	ED IN 1958, 19 ec. 18, SE (M)	965, AND 1991. 1000 LAF Accuracy:	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area agitude: 38.54257 / -119.8138	Area (acres): 9		
Ecological: 1991 OBSERV/ Threats: General: INDIVIDUALS (AUG 2005. PLSS: T08N, UTM: Zone- County Summa	ATION NG COLLECT R20E, Se 11 N4269	ED IN 1958, 19 ec. 18, SE (M)	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area gitude: 38.54257 / -119.8138 ary:	Area (acres): 9		
Ecological: 1991 OBSERV/ Threats: General: INDIVIDUALS (AUG 2005. PLSS: T08N, UTM: Zone- County Summand Alpine	ATION NG COLLECT R20E, Se 11 N4269	ED IN 1958, 19 ec. 18, SE (M)	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area gitude: 38.54257 / -119.8138 ary:	Area (acres): 9		
Ecological: 1991 OBSERV/ Threats: General: NDIVIDUALS (AUG 2005. PLSS: T08N, UTM: Zone- County Summ: Alpine Sources:	ATION NG COLLECT R20E, Se 11 N4269 ary:	ED IN 1958, 19 ec. 18, SE (M) 771 E254765	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ Ebbetts Pass	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area ogitude: 38.54257 / -119.8138 ary: (3811957)	Area (acres): 9		
Ecological: 1991 OBSERV Threats: General: NDIVIDUALS (AUG 2005. PLSS: T08N, JTM: Zone- County Summ Alpine Sources: AND58S0009	ATION NG COLLECT R20E, Se 11 N4269 ary: ANDE	ED IN 1958, 19 ec. 18, SE (M) 771 E254765 RSON, J ANE	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ Ebbetts Pass	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area ogitude: 38.54257 / -119.8138 ary: (3811957)	Area (acres): 9 Elevation (feet): 8,700		
Ecological: 1991 OBSERV/ Threats: General: NDIVIDUALS (AUG 2005. PLSS: T08N, JTM: Zone- County Summa Alpine Sources: AND58S0009 BRA91S0058	ATION NG COLLECT R20E, Se 11 N4269 ary: ANDE BRAD	ED IN 1958, 19 ec. 18, SE (M) 771 E254765 RSON, J ANE FORD, D CCI	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ Ebbetts Pass DERSON #1960 & 1961 M BER #26808-26834 COLI	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area agitude: 38.54257 / -119.8138 ary: (3811957) AVZ #69813 & 69814 COLLECTE LECTED FROM HWY 4, 0.2 KM V	Area (acres): 9 Elevation (feet): 8,700		
Ecological: 1991 OBSERV/ Threats: General: NDIVIDUALS (AUG 2005. PLSS: T08N, JTM: Zone- County Summ Alpine Sources: AND58S0009 BRA91S0058 BRA92U0007	ATION NG COLLECT R20E, Se 11 N4269 ary: ANDE BRAD BRAD	ED IN 1958, 19 ec. 18, SE (M) 771 E254765 RSON, J ANE FORD, D CCI FORD, D SCI	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ Ebbetts Pass DERSON #1960 & 1961 M BER #26808-26834 COLI IENTIFIC COLLECTING I	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area agitude: 38.54257 / -119.8138 ary: (3811957) AVZ #69813 & 69814 COLLECTE LECTED FROM HWY 4, 0.2 KM V	Area (acres): 9 Elevation (feet): 8,700 D FROM EBBETTS PASS 1958-07-03 V EBBETT'S PASS 1991-06-03 JRED OR SALVAGED [SC-001133] 1992-05-13		
Ecological: 1991 OBSERV/ Threats: General: NDIVIDUALS (AUG 2005. PLSS: T08N, UTM: Zone- County Summa Alpine Sources: AND58S0009 BRA91S0058 BRA92U0007 BUR65S0004	ATION NG COLLECT R20E, Se 11 N4269 ary: ANDE BRAD BRAD BRAD BURY CRIPE	ED IN 1958, 19 ec. 18, SE (M) 771 E254765 RSON, J ANE FORD, D CCI FORD, D SCI , R.B CM #45	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ Ebbetts Pass DERSON #1960 & 1961 M BER #26808-26834 COLI IENTIFIC COLLECTING I 5120, 45121 & 45122 COL NIA DEPARTMENT OF F	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area agitude: 38.54257 / -119.8138 ary: (3811957) MVZ #69813 & 69814 COLLECTE LECTED FROM HWY 4, 0.2 KM V REPORT OF SPECIMENS CAPTU LECTED FROM 0.25 MI W OF E	Area (acres): 9 Elevation (feet): 8,700 D FROM EBBETTS PASS 1958-07-03 V EBBETT'S PASS 1991-06-03 JRED OR SALVAGED [SC-001133] 1992-05-13 BBETTS PASS 1965-10-16 ASSEMBLED FOR UPDATES TO THE CALIFORNIA		
Ecological: 1991 OBSERV/ Threats: General: INDIVIDUALS (AUG 2005. PLSS: T08N, UTM: Zone- County Summa Alpine Sources: AND58S0009 BRA91S0058 BRA91S0058 BRA92U0007 BUR65S0004 CRI16D0001	ATION NG COLLECT R20E, Se 11 N4269 ary: ANDE BRAD BRAD BRAD BURY CRIPE AMPH CALIF	ED IN 1958, 19 ec. 18, SE (M) 771 E254765 RSON, J ANE FORD, D CCI FORD, D SCI , R.B CM #45 ;, K. (CALIFOR IBIAN AND RE	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ Ebbetts Pass DERSON #1960 & 1961 M BER #26808-26834 COLI IENTIFIC COLLECTING I 5120, 45121 & 45122 COL NIA DEPARTMENT OF F PTILE SPECIES OF SPE RTMENT OF FISH AND W	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area agitude: 38.54257 / -119.8138 ary: (3811957) AVZ #69813 & 69814 COLLECTE LECTED FROM HWY 4, 0.2 KM V REPORT OF SPECIMENS CAPTU LLECTED FROM 0.25 MI W OF E SISH AND WILDLIFE) - GIS DATA CONCERN LIST 2016-05-0	Area (acres): 9 Elevation (feet): 8,700 D FROM EBBETTS PASS 1958-07-03 V EBBETT'S PASS 1991-06-03 JRED OR SALVAGED [SC-001133] 1992-05-13 BBETTS PASS 1965-10-16 ASSEMBLED FOR UPDATES TO THE CALIFORNIA		
Threats: General: INDIVIDUALS (AUG 2005. PLSS: T08N,	ATION NG COLLECT R20E, Se 11 N4269 ary: ANDE BRAD BRAD BRAD BURY CRIPE AMPH CALIF TO 20	ED IN 1958, 19 ec. 18, SE (M) 771 E254765 RSON, J ANE FORD, D CCI FORD, D SCI , R.B CM #45 BIAN AND RE ORNIA DEPAR 15 FIELDWORI	965, AND 1991. 1000 LAF Accuracy: Latitude/Lon Quad Summ Ebbetts Pass DERSON #1960 & 1961 M BER #26808-26834 COLI IENTIFIC COLLECTING I 5120, 45121 & 45122 COL NIA DEPARTMENT OF F PTILE SPECIES OF SPE RTMENT OF FISH AND W K 2016-04-25	NDERS MATING IN PONDS. RVAE FOUND ON 21 JUL 2001. A specific area agitude: 38.54257 / -119.8138 ary: (3811957) AVZ #69813 & 69814 COLLECTE LECTED FROM HWY 4, 0.2 KM V REPORT OF SPECIMENS CAPTU LECTED FROM 0.25 MI W OF E FISH AND WILDLIFE) - GIS DATA CIAL CONCERN LIST 2016-05-0 /ILDLIFE - CDFW AMPHIBIANS -	Area (acres): 9 Elevation (feet): 8,700 D FROM EBBETTS PASS 1958-07-03 V EBBETT'S PASS 1991-06-03 JRED OR SALVAGED [SC-001133] 1992-05-13 BBETTS PASS 1965-10-16 ASSEMBLED FOR UPDATES TO THE CALIFORNIA 6		



California Department of Fish and Wildlife



Map Index Number:	A1259	(2014050)	EO Index:		102827	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085	
Occurrence Number:	549		Occurrence Last Updated: 2016-07-21			
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURF	N PONDS AND LAKES. OUTSIE S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-20		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-07-20		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
		CACHE CREEK & N FORK MOR	ELUMNE RIVER, MOKELL	JMNE WIL	DERNESS, STANISLAUS NAT	IONAL
	JNFLUENCE OF					
FOREST.	JNFLUENCE OF					
POND 0.3 MI SE OF CO FOREST. Detailed Location: Ecological:	UNFLUENCE OF					
FOREST. Detailed Location:	JNFLUENCE OF					
FOREST. Detailed Location: Ecological: Threats:	JNFLUENCE OF					
FOREST. Detailed Location: Ecological: Threats: General:		LARVAE FOUND ON 20 JUL 201	13.			
FOREST. Detailed Location: Ecological: Threats: General: 3 LARVAE FOUND ON	5 AUG 2001. 26	LARVAE FOUND ON 20 JUL 201 Accuracy:	3. 80 meters		Area (acres):	5
FOREST. Detailed Location: Ecological: Threats: General: 3 LARVAE FOUND ON PLSS: T08N, R18E, S	5 AUG 2001. 26		-		Area (acres): Elevation (feet):	5 6,600
FOREST. Detailed Location: Ecological: Threats: General: 3 LARVAE FOUND ON PLSS: T08N, R18E, S UTM: Zone-11 N427	5 AUG 2001. 26 Sec. 14, NE (M)	Accuracy:	80 meters			-
FOREST. Detailed Location: Ecological: Threats: General: 3 LARVAE FOUND ON PLSS: T08N, R18E, S	5 AUG 2001. 26 Sec. 14, NE (M)	Accuracy: Latitude/Longitude:	80 meters 38.55191 / -119.95673			-



California Department of Fish and Wildlife



Map Index Number:	A1260		EO Index:		102828	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085	
Occurrence Number:	550		Occurrence Last Updated: 2016-07-21			
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASON	NADULTS	N PONDS AND LAKES. OUTSID S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MOI	OCIATED
Last Date Observed:	2013-07-20		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-07-20		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-ELDOR/	ADO NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:				LUMNE V	WILDERNESS, ELDORADO NAT	ΓIONAL
	CONFLUENCE C	F DEER GREEK AND IN FORK IV	OKELUMINE RIVER, MOKE			
POND 0.4 MILE N OF 0	CONFLUENCE C	F DEER CREEK AND IN FORK IV	IORELUMNE RIVER, MORE			
POND 0.4 MILE N OF 0 FOREST.	CONFLUENCE C	F DEER CREEK AND IN FORK IV	IORELUMINE RIVER, MORE			
POND 0.4 MILE N OF 0 FOREST. Detailed Location:	CONFLUENCE C	F DEER CREEK AND IN FORK IV	IORELUMINE RIVER, MORE			
POND 0.4 MILE N OF 0 FOREST. Detailed Location: Ecological:	CONFLUENCE C	F DEER CREEK AND IN FORK IV	IORELUMINE RIVER, MORE			
POND 0.4 MILE N OF 0 FOREST. Detailed Location: Ecological: Threats:		F DEER CREEK AND IN FORK IV	IORELUMINE RIVER, MORE			
POND 0.4 MILE N OF 0 FOREST. Detailed Location: Ecological: Threats: General:	N 20 JUL 2013.	Accuracy:	80 meters		Area (acres):	5
POND 0.4 MILE N OF 0 FOREST. Detailed Location: Ecological: Threats: General: 26 LARVAE FOUND OF	N 20 JUL 2013. Sec. 18, NW (M)				Area (acres): Elevation (feet):	5 7,100
POND 0.4 MILE N OF 0 FOREST. Detailed Location: Ecological: Threats: General: 26 LARVAE FOUND OF PLSS: T08N, R19E, S	N 20 JUL 2013. Sec. 18, NW (M)	Accuracy:	80 meters		. ,	-
POND 0.4 MILE N OF O FOREST. Detailed Location: Ecological: Threats: General: 26 LARVAE FOUND OF PLSS: T08N, R19E, S UTM: Zone-11 N427	N 20 JUL 2013. Sec. 18, NW (M)	Accuracy: Latitude/Longitude:	80 meters 38.54804 / -119.93193		. ,	-



California Department of Fish and Wildlife



Map Index Number:	A1267		EO Index:		102834		
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085		
Occurrence Number:	555		Occurrence Last Up	Occurrence Last Updated: 2016-07		7-25	
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern	long-toed salamander		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern		
CNDDB Element Rank	s: Global:	G5T4					
	State:	S3					
General Habitat:			Micro Habitat:				
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURF	N PONDS AND LAKES. OUTSIDE S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MOIS	OCIATED	
Last Date Observed:	2013-07-08		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	2013-07-08		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	n		
Presence:	Presumed Exta	ant					
Location:					DERNESS, STANISLAUS NATION	JAI	
POND 0.25 MILE SE (A	ND UPSTREAM) OF FROG LAKE, N OF UNDER	WOOD VALLEY, MOKELUN				
Location: POND 0.25 MILE SE (A FOREST. Detailed Location:	ND UPSTREAM) OF FROG LAKE, N OF UNDER\	WOOD VALLEY, MOKELUN				
POND 0.25 MILE SE (A FOREST.	ND UPSTREAM) OF FROG LAKE, N OF UNDER\	WOOD VALLEY, MOKELUN				
POND 0.25 MILE SE (A FOREST. Detailed Location:	ND UPSTREAM) OF FROG LAKE, N OF UNDER	WOOD VALLEY, MOKELUN				
POND 0.25 MILE SE (A FOREST. Detailed Location: Ecological:	ND UPSTREAM) OF FROG LAKE, N OF UNDER\	WOOD VALLEY, MOKELUN				
POND 0.25 MILE SE (A FOREST. Detailed Location: Ecological: Threats:) OF FROG LAKE, N OF UNDER	WOOD VALLEY, MOKELUN				
POND 0.25 MILE SE (A FOREST. Detailed Location: Ecological: Threats: General:	N 8 JUL 2013.) OF FROG LAKE, N OF UNDER	WOOD VALLEY, MOKELUN		Area (acres):	7	
POND 0.25 MILE SE (A FOREST. Detailed Location: Ecological: Threats: General: 85 LARVAE FOUND OF PLSS: T08N, R18E, S	N 8 JUL 2013.	,					
POND 0.25 MILE SE (A FOREST. Detailed Location: Ecological: Threats: General: 85 LARVAE FOUND OF PLSS: T08N, R18E, S	N 8 JUL 2013. Sec. 16, SE (M)	Accuracy:	specific area		()	7	
POND 0.25 MILE SE (A FOREST. Detailed Location: Ecological: Threats: General: 85 LARVAE FOUND OF PLSS: T08N, R18E, S UTM: Zone-10 N427	N 8 JUL 2013. Sec. 16, SE (M)	Accuracy: Latitude/Longitude: Quad Summary:	specific area		()	7	



California Department of Fish and Wildlife



Key Quad:	A1268 Pacific Valley	(3811958)	EO Index: Element Code:		102835 AAAAA01085	
Occurrence Number:	556		Occurrence Last U	pdated:	2016-07-25	
Scientific Name:	Ambystoma macr	odactylum sigillatum	Common Name:	southern l	ong-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SS	SC-Species of Special Concern	
CNDDB Element Ranl	ks: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME CASCADE, AND KLAN		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS	PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND ASS OWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-08		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2013-07-08		Occurrence Rank:	Unknown	I	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknown	I	
Presence:	Presumed Exta	ant				
Location:						
	LES EAST OF FF	OG LAKE, WEST OF JACKSON	CANYON, MOKELUMNE V	VILDERNES	SS, STANISLAUS NATIONAL F	OREST.
	LES EAST OF FF	OG LAKE, WEST OF JACKSON	CANYON, MOKELUMNE V	VILDERNES	SS, STANISLAUS NATIONAL F	FOREST.
PONDS 0.6 TO 1.3 MI	LES EAST OF FR	OG LAKE, WEST OF JACKSON	CANYON, MOKELUMNE V	VILDERNES	SS, STANISLAUS NATIONAL F	OREST.
PONDS 0.6 TO 1.3 MII Detailed Location:	LES EAST OF FF	OG LAKE, WEST OF JACKSON	CANYON, MOKELUMNE V	VILDERNES	SS, STANISLAUS NATIONAL F	OREST.
PONDS 0.6 TO 1.3 MII Detailed Location: Ecological:	LES EAST OF FF	OG LAKE, WEST OF JACKSON	CANYON, MOKELUMNE V	VILDERNES	SS, STANISLAUS NATIONAL F	FOREST.
PONDS 0.6 TO 1.3 MII Detailed Location: Ecological: Threats: General:		ROG LAKE, WEST OF JACKSON 845 LARVAE FOUND ON 8 JUL 2		VILDERNES	SS, STANISLAUS NATIONAL F	FOREST.
PONDS 0.6 TO 1.3 MII Detailed Location: Ecological: Threats: General: 400 LARVAE FOUND	ON 4 AUG 2001.			VILDERNES	SS, STANISLAUS NATIONAL F Area (acres):	FOREST. 20
PONDS 0.6 TO 1.3 MII Detailed Location: Ecological: Threats: General: 400 LARVAE FOUND (PLSS: T08N, R18E,	ON 4 AUG 2001.	845 LARVAE FOUND ON 8 JUL 2	2013.	VILDERNES		
PONDS 0.6 TO 1.3 MII Detailed Location: Ecological: Threats: General: 400 LARVAE FOUND 0 PLSS: T08N, R18E, UTM: Zone-11 N427	ON 4 AUG 2001. Sec. 15, S (M)	845 LARVAE FOUND ON 8 JUL 2 Accuracy:	2013. specific area	VILDERNES	Area (acres):	20
PONDS 0.6 TO 1.3 MII Detailed Location: Ecological: Threats: General: 400 LARVAE FOUND (PLSS: T08N, R18E,	ON 4 AUG 2001. Sec. 15, S (M)	845 LARVAE FOUND ON 8 JUL 2 Accuracy: Latitude/Longitude:	2013. specific area 38.54345 / -119.98989	VILDERNES	Area (acres):	20



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	A1269 Pacific Valley 557	(3811958)	EO Index: Element Code: Occurrence Last U		102836 AAAAA01085 2016-07-25	
		odactylum sigillatum	Common Name:	-	ng-toed salamander	
		<i>,</i>		3000101110		
Listing Status:	Federal: State:	None None	Rare Plant Rank: Other Lists:		C. Species of Special Concern	
CNDDB Element Ranl		G5T4	Other Lists:	CDFW_33	C-Species of Special Concern	1
	State:	S3				
General Habitat:	State.	55	Micro Habitat:			
		KES IN THE SIERRA NEVADA, IS.	AQUATIC LARVAE BREEDING SEASO	N ADULTS / JND BURRO	PONDS AND LAKES. OUTSI ARE TERRESTRIAL AND AS DWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-19		Occurrence Type:	Natural/Na	ative occurrence	
Last Survey Date:	2013-07-19		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Leastion						
Location:				WILDERNES	SS, STANISLAUS NATIONAL	FOREST
	LES NE OF WHE	ELER LAKE, EAST OF JACKSON	I CANYON, MOKELUMNE			
	LES NE OF WHE	ELER LAKE, EAST OF JACKSON	I CANYON, MOKELUMNE			0112011
	LES NE OF WHE	ELER LAKE, EAST OF JACKSON	CANYON, MOKELUMNE			
PONDS 1.3 TO 2.2 MII Detailed Location: Ecological:	LES NE OF WHE	ELER LAKE, EAST OF JACKSON	CANYON, MOKELUMNE			
PONDS 1.3 TO 2.2 MII Detailed Location: Ecological: Threats: General:						
PONDS 1.3 TO 2.2 MII Detailed Location: Ecological: Threats: General:		ELER LAKE, EAST OF JACKSON 2360 LARVAE FOUND ON 19 JU				
PONDS 1.3 TO 2.2 MII Detailed Location: Ecological: Threats: General: 510 LARVAE FOUND (PLSS: T08N, R18E,	ON 4 AUG 2001. Sec. 23 (M)				Area (acres):	39
PONDS 1.3 TO 2.2 MII Detailed Location: Ecological: Threats: General: 510 LARVAE FOUND (PLSS: T08N, R18E,	ON 4 AUG 2001.	2360 LARVAE FOUND ON 19 JU	L 2013.		Area (acres): Elevation (feet):	
PONDS 1.3 TO 2.2 MII Detailed Location: Ecological: Threats: General: 510 LARVAE FOUND (PLSS: T08N, R18E, UTM: Zone-11 N426	ON 4 AUG 2001. Sec. 23 (M)	2360 LARVAE FOUND ON 19 JU Accuracy:	L 2013. specific area		· · ·	39
PONDS 1.3 TO 2.2 MII Detailed Location: Ecological: Threats: General: 510 LARVAE FOUND (PLSS: T08N, R18E,	ON 4 AUG 2001. Sec. 23 (M)	2360 LARVAE FOUND ON 19 JU Accuracy: Latitude/Longitude:	L 2013. specific area 38.53341 / -119.95805		· · ·	39



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad:	A1270 Ebbetts Pass	: (3811957)	EO Index: Element Code:	1028 AAA	837 AA01085	
Occurrence Number:	558	(0011007)	Occurrence Last U		6-07-25	
Scientific Name: A	mbystoma macı	rodactylum sigillatum	Common Name:	southern long-te	oed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-S	pecies of Special Concerr	n
CNDDB Element Ranks	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM/		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS ARE JND BURROWS	IDS AND LAKES. OUTSII TERRESTRIAL AND AS OF MAMMALS AND MC	SOCIATED
Last Date Observed:	2003-09-05		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	2003-09-05		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
POND 0.9 MILE NW OF	BLACK DOME	, SOUTH OF HIGHWAY 4, EAST	OF HERMIT VALLEY, STAI	NISLAUS NATIO	NAL FOREST.	
Detailed Location:						
Ecological:						
Threats:						
General:						
750 LARVAE FOUND O	N 5 SEP 2003.					
PLSS: T08N, R19E, S	ec. 23, NW (M)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N4269	242 E250696	Latitude/Longitude:	38.53667 / -119.86025		Elevation (feet):	8,600
County Summary:		Quad Summary:				
eeunty euninary.			>			
Alpine		Ebbetts Pass (38119	57)			

TO 2015 FIELDWORK 2016-04-25



California Department of Fish and Wildlife



Map Index Number:	A1272		EO Index:		102839
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085
Occurrence Number:	560		Occurrence Last Up	Occurrence Last Updated: 2016-07-25	
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern
CNDDB Element Rank	s: Global:	G5T4			
	State:	S3			
General Habitat:			Micro Habitat:		
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURI	N PONDS AND LAKES. OUTSIDE OF S ARE TERRESTRIAL AND ASSOCIATEL ROWS OF MAMMALS AND MOIST AREA
Last Date Observed:	2013-07-19		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	2013-07-19		Occurrence Rank:	Unknow	'n
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	'n
Presence:	Presumed Exta	ant			
Location:					HWAY 4, STANISLAUS NATIONAL FORE
	OF WHEELER L	AKE, MOKELUMNE WILDERNES	S, ABOUT 2 MILES NORT		
POND 1.5 MILES ENE	OF WHEELER L	AKE, MOKELUMNE WILDERNES	S, ABOUT 2 MILES NORTI		
POND 1.5 MILES ENE Detailed Location: JUST NORTH OF USFS		AKE, MOKELUMNE WILDERNES			
POND 1.5 MILES ENE Detailed Location: JUST NORTH OF USFS Ecological:					
POND 1.5 MILES ENE Detailed Location: JUST NORTH OF USFS Ecological: Threats:					
POND 1.5 MILES ENE Detailed Location: JUST NORTH OF USFS Ecological: Threats: General:	S TRAIL 19E53,	0.4 MILE WEST OF ITS CROSSIN	NG OF SANDY MEADOW C		
POND 1.5 MILES ENE Detailed Location: JUST NORTH OF USFS Ecological: Threats: General:	S TRAIL 19E53,		NG OF SANDY MEADOW C		
POND 1.5 MILES ENE O Detailed Location: JUST NORTH OF USFS Ecological: Threats: General: 100 LARVAE FOUND C	S TRAIL 19E53, DN 5 AUG 2001.	0.4 MILE WEST OF ITS CROSSIN	NG OF SANDY MEADOW C		Area (acres): 5
POND 1.5 MILES ENE O Detailed Location: JUST NORTH OF USFS Ecological: Threats: General: 100 LARVAE FOUND C PLSS: T08N, R18E, S	S TRAIL 19E53, DN 5 AUG 2001. Sec. 24, SW (M)	0.4 MILE WEST OF ITS CROSSIN 65 LARVAE FOUND ON 19 JUL 2	NG OF SANDY MEADOW C		
POND 1.5 MILES ENE O Detailed Location: JUST NORTH OF USFS Ecological: Threats: General: 100 LARVAE FOUND C PLSS: T08N, R18E, S UTM: Zone-11 N426	S TRAIL 19E53, DN 5 AUG 2001. Sec. 24, SW (M)	0.4 MILE WEST OF ITS CROSSIN 65 LARVAE FOUND ON 19 JUL 2 Accuracy:	NG OF SANDY MEADOW C 2013. 80 meters		Area (acres): 5
Detailed Location: JUST NORTH OF USFS Ecological: Threats: General: 100 LARVAE FOUND C PLSS: T08N, R18E, S	S TRAIL 19E53, DN 5 AUG 2001. Sec. 24, SW (M)	0.4 MILE WEST OF ITS CROSSIN 65 LARVAE FOUND ON 19 JUL 2 Accuracy: Latitude/Longitude:	NG OF SANDY MEADOW C 2013. 80 meters 38.52799 / -119.95562		Area (acres): 5



California Department of Fish and Wildlife



Map Index Number:	A1273		EO Index:		102840	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085	
Occurrence Number:	561		Occurrence Last Up	Occurrence Last Updated: 2016-07-25		
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern	long-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS JND BURF	N PONDS AND LAKES. OUTSIDI S ARE TERRESTRIAL AND ASS ROWS OF MAMMALS AND MOIS	OCIATED
Last Date Observed:	2013-07-09		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-07-09		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
	F WHEELER LA	KE, MOKELUMNE WILDERNESS	, ABOUT 2 MILES NORTH	OF HIGH	WAY 4, STANISLAUS NATIONA	L FORES
PONDS 0.8 MILE NE O						
Detailed Location:		ST OF THE CREEK FLOWING OU	T OF WHEELER LAKE.			
Detailed Location: ALONG USFS TRAIL 19 Ecological:		ST OF THE CREEK FLOWING OU	T OF WHEELER LAKE.			
Detailed Location: ALONG USFS TRAIL 19 Ecological: Threats:		GT OF THE CREEK FLOWING OU	T OF WHEELER LAKE.			
Detailed Location: ALONG USFS TRAIL 19 Ecological: Threats: General:	9E53, JUST EAS					
Detailed Location: ALONG USFS TRAIL 19 Ecological: Threats: General:	9E53, JUST EAS	ST OF THE CREEK FLOWING OU LARVAE ON 24 JUL 2002, AND 2		JUL 2013	3.	
Detailed Location: ALONG USFS TRAIL 19 Ecological: Threats: General: 47 LARVAE FOUND ON	9E53, JUST EAS N 5 AUG 2001, 9			JUL 2013		7
Detailed Location: ALONG USFS TRAIL 19 Ecological: Threats: General: 47 LARVAE FOUND Of PLSS: T08N, R18E, S	9E53, JUST EAS N 5 AUG 2001, 9 Sec. 23, SW (M)	LARVAE ON 24 JUL 2002, AND 2	237 LARVAE FOUND ON 9	JUL 2013	Area (acres):	7 7,700
Detailed Location: ALONG USFS TRAIL 19 Ecological: Threats: General: 47 LARVAE FOUND ON PLSS: T08N, R18E, S	9E53, JUST EAS N 5 AUG 2001, 9 Sec. 23, SW (M)	LARVAE ON 24 JUL 2002, AND 2 Accuracy:	237 LARVAE FOUND ON 9 specific area	JUL 2013	Area (acres):	
Detailed Location: ALONG USFS TRAIL 19 Ecological: Threats: General: 47 LARVAE FOUND ON PLSS: T08N, R18E, S UTM: Zone-11 N426	9E53, JUST EAS N 5 AUG 2001, 9 Sec. 23, SW (M)	LARVAE ON 24 JUL 2002, AND 2 Accuracy: Latitude/Longitude:	237 LARVAE FOUND ON 9 specific area 38.52608 / -119.96962	JUL 2013	Area (acres):	



California Department of Fish and Wildlife



Map Index Number:	A1274		EO Index:	102841
Key Quad:	Pacific Valley	(3811958)	Element Code:	AAAAA01085
Occurrence Number:	562		Occurrence Last U	pdated: 2016-07-25
Scientific Name:	Ambystoma macr	rodactylum sigillatum	Common Name:	southern long-toed salamander
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Rank	ks: Global:	G5T4		
	State:	S3		
General Habitat:			Micro Habitat:	
HIGH ELEVATION ME CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	OCCUR IN PONDS AND LAKES. OUTSIDE OF IN ADULTS ARE TERRESTRIAL AND ASSOCIATED UND BURROWS OF MAMMALS AND MOIST AREA PROCKS.
Last Date Observed:	2013-07-09		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2013-07-09		Occurrence Rank:	Unknown
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown
Presence:	Presumed Exta	ant		
Leastion				
Location:				OF HIGHWAY 4, STANISLAUS NATIONAL FORES
	OF WHEELER LA	KE, MOKELUMNE WILDERNES	S, ABOUT 2 MILES NORTH	
PONDS 0.4 MILE NE C	OF WHEELER LA	AKE, MOKELUMNE WILDERNES	S, ABOUT 2 MILES NORTH	
PONDS 0.4 MILE NE C	DF WHEELER LA	KE, MOKELUMNE WILDERNES	S, ABOUT 2 MILES NORTH	
PONDS 0.4 MILE NE C Detailed Location: Ecological:	DF WHEELER LA	KE, MOKELUMNE WILDERNES	S, ABOUT 2 MILES NORTH	
PONDS 0.4 MILE NE C Detailed Location: Ecological: Threats:	DF WHEELER LA	KE, MOKELUMNE WILDERNES	S, ABOUT 2 MILES NORTH	
PONDS 0.4 MILE NE C Detailed Location: Ecological: Threats: General:				OUND AT SOUTHERN POND ON 9 JUL 2013.
PONDS 0.4 MILE NE C Detailed Location: Ecological: Threats: General: 1 LARVA FOUND IN N	ORTHERN PON	D ON BOTH 11 SEP 2008 AND ²		DUND AT SOUTHERN POND ON 9 JUL 2013. Area (acres): 10
PONDS 0.4 MILE NE C Detailed Location: Ecological: Threats: General: 1 LARVA FOUND IN N PLSS: T08N, R18E, S	ORTHERN PON	D ON BOTH 11 SEP 2008 AND ²	19 JUN 2012. 41 LARVAE FC specific area	
PONDS 0.4 MILE NE C Detailed Location: Ecological: Threats: General: 1 LARVA FOUND IN N PLSS: T08N, R18E, S UTM: Zone-11 N426	ORTHERN PON Sec. 26, NW (M)	D ON BOTH 11 SEP 2008 AND ² Accuracy:	19 JUN 2012. 41 LARVAE FC specific area	Area (acres): 10
Detailed Location: Ecological: Threats: General: 1 LARVA FOUND IN N PLSS: T08N, R18E, S	ORTHERN PON Sec. 26, NW (M)	D ON BOTH 11 SEP 2008 AND ⁻ Accuracy: Latitude/Longitude:	19 JUN 2012. 41 LARVAE F0 specific area 38.52135 / -119.9738	Area (acres): 10



California Department of Fish and Wildlife



Map Index Number: A1275			EO Index:		102842	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAAAA01085	
Occurrence Number:	563		Occurrence Last U	Occurrence Last Updated: 2016-07-2		
Scientific Name: A	mbystoma macr	odactylum sigillatum	Common Name:	southern	ong-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:	Rare Plant Rank:		
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Ranks	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS IND BURR	PONDS AND LAKES. OUTSIE ARE TERRESTRIAL AND ASS OWS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2013-07-08		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2013-07-08		Occurrence Rank:	Unknowr	ı	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknowr	ı	
Presence:	Presumed Exta	ant				
Location:	H OF WHEELER	R LAKE, EAST OF UNDERWOOD	VALLEY, MOKELUMNE W	ILDERNES	SS, STANISLAUS NATIONAL F	OREST.
Location: 0.2 TO 0.4 MILE NORTI	H OF WHEELER	R LAKE, EAST OF UNDERWOOD	VALLEY, MOKELUMNE W	ILDERNES	SS, STANISLAUS NATIONAL F	OREST.
Location: 0.2 TO 0.4 MILE NORTI Detailed Location:		R LAKE, EAST OF UNDERWOOD	VALLEY, MOKELUMNE W	ILDERNES	SS, STANISLAUS NATIONAL F	OREST.
Location: 0.2 TO 0.4 MILE NORTI Detailed Location: ALONG USFS TRAIL 18 Ecological:		R LAKE, EAST OF UNDERWOOD	VALLEY, MOKELUMNE W	ILDERNES	SS, STANISLAUS NATIONAL F	OREST.
Location: 0.2 TO 0.4 MILE NORTH Detailed Location: ALONG USFS TRAIL 18 Ecological: Threats:		R LAKE, EAST OF UNDERWOOD	VALLEY, MOKELUMNE W	ILDERNES	S, STANISLAUS NATIONAL F	OREST.
Location: 0.2 TO 0.4 MILE NORTH Detailed Location: ALONG USFS TRAIL 18 Ecological: Threats: General:	8E02.			ILDERNES	SS, STANISLAUS NATIONAL F	OREST.
Location: 0.2 TO 0.4 MILE NORTH Detailed Location: ALONG USFS TRAIL 18 Ecological: Threats: General:	8E02.	R LAKE, EAST OF UNDERWOOD		ILDERNES	S, STANISLAUS NATIONAL F	OREST.
Location: 0.2 TO 0.4 MILE NORTH Detailed Location: ALONG USFS TRAIL 18 Ecological: Threats: General: 10 LARVAE FOUND ON	8E02. N 4 AUG 2001. 6			ILDERNES	S, STANISLAUS NATIONAL F Area (acres):	OREST. 10
Location: 0.2 TO 0.4 MILE NORTH Detailed Location: ALONG USFS TRAIL 18 Ecological: Threats: General: 10 LARVAE FOUND ON PLSS: T08N, R18E, S	8E02. N 4 AUG 2001. 6 Sec. 27, N (M)	LARVAE FOUND ON 8 JUL 2013	3.	ILDERNES		
Location: 0.2 TO 0.4 MILE NORTH Detailed Location: ALONG USFS TRAIL 18 Ecological: Threats: General: 10 LARVAE FOUND ON PLSS: T08N, R18E, S	8E02. N 4 AUG 2001. 6 Sec. 27, N (M)	LARVAE FOUND ON 8 JUL 2013 Accuracy:	3. specific area	ILDERNES	Area (acres):	10
Location: 0.2 TO 0.4 MILE NORTH Detailed Location: ALONG USFS TRAIL 18 Ecological: Threats: General: 10 LARVAE FOUND ON PLSS: T08N, R18E, S UTM: Zone-11 N426	8E02. N 4 AUG 2001. 6 Sec. 27, N (M)	LARVAE FOUND ON 8 JUL 2013 Accuracy: Latitude/Longitude:	3. specific area 38.52134 / -119.98467	ILDERNES	Area (acres):	10



California Department of Fish and Wildlife



Map Index Number:	A1277		EO Index:	102844
Key Quad:	Pacific Valley	(3811958)	Element Code:	AAAAA01085
Occurrence Number:	565		Occurrence Last U	pdated: 2016-07-27
Scientific Name: A	nbystoma macr	odactylum sigillatum	Common Name:	southern long-toed salamander
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Ranks	: Global:	G5T4		
	State:	S3		
General Habitat:			Micro Habitat:	
HIGH ELEVATION MEA CASCADE, AND KLAM/		KES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	OCCUR IN PONDS AND LAKES. OUTSIDE OF IN ADULTS ARE TERRESTRIAL AND ASSOCIATED UND BURROWS OF MAMMALS AND MOIST AREA PROCKS.
Last Date Observed:	2005-10-16		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2005-10-16		Occurrence Rank:	Unknown
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknown
Presence:	Presumed Exta	ant		
Location:				
MOSQUITO LAKE AND	NEARBY PONI	DS, ALONG HIGHWAY 4 NEAR PA	ACIFIC GRADE SUMMIT, S	STANISLAUS NATIONAL FOREST.
Detailed Location:				
Ecological:				
SURROUNDING AREA MOUNTAIN HEMLOCK.		ARE GRANITE OUTCROPS AND	FOREST OF PREDOMINA	ANTLY LODGEPOLE PINE, WHITE PINE, AND
Threats:				
General:				
INDIVIDUALS OBSERV	ED AND/OR CO	DLLECTED IN 1957, 1958, 1959, 1	967, 1968, 2000, 2001, 200	02, AND 2005.
	ec. 29, W (M)	Accuracy:	specific area	Area (acres): 50
PLSS: T08N, R19E, S			38.51602 / -119.91119	Elevation (feet): 8,000
	088 E246182	Latitude/Longitude:	30.310027-113.31113	
PLSS: T08N, R19E, S UTM: Zone-11 N4267 County Summary:	7088 E246182	Latitude/Longitude: Quad Summary:	50.510027-115.51115	



California Department of Fish and Wildlife



Sources:	
AND57S0004	ANDERSON, J MVZ #66475-66479 & 69779-69794 COLLECTED ALONG EBBETT PASS RD, 2 MI W LOOKOUT PEAK 1957-09-04
AND57S0005	ANDERSON, J ANDERSON #1606-1611 MVZ #69773-69778 COLLECTED ALONG EBBETT PASS RD, 2 MI W LOOKOUT PEAK 1957- 08-03
AND58S0010	ANDERSON, J ANDERSON #2007 MVZ #69752 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK 1958-08-06
AND58S0011	ANDERSON, J ANDERSON #1957 MVZ #69847 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK 1958-07-03
AND58S0012	ANDERSON, J ANDERSON #2044 & 2046 MVZ #69756 & 69757 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK 1958-09-23
AND58S0013	ANDERSON, J ANDERSON #2014, 2015 & 2016 MVZ #69753, 69754 & 69755 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK 1958-08-20
AND58S0014	ANDERSON, J MVZ #69759-69761 & 69815-69835 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK 1958-06-25
AND58S0015	ANDERSON, J MVZ #69762 - 69772 AND 69836 - 69846 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK. (22 SPECIMENS) 1958-07-02
AND59S0006	ANDERSON, J ANDERSON #2358 MVZ #69758 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK 1959-06-27
AND67A0001	ANDERSON, J A COMPARISON OF THE LIFE HISTORIES OF COASTAL AND MONTANE POPULATIONS OF AMBYSTOMA MACRODACTYLUM IN CALIFORNIA. THE AMERICAN MIDLAND NATURALIST. 77(2) PP. 323-355. 1967-04-XX
AND68A0001	ANDERSON, J THERMAL HISTORIES OF TWO POPULATIONS OF AMBYSTOMA MACRODACTYLUM. HERPETOLOGICA 24(1) PP. 29-35 1968-03-XX
ANDNDS0007	ANDERSON, J MVZ #69751 COLLECTED FROM MOSQUITO LAKES, 2 MI W LOOKOUT PEAK 195X-07-XX
CRI16D0001	CRIPE, K. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - GIS DATA ASSEMBLED FOR UPDATES TO THE CALIFORNIA AMPHIBIAN AND REPTILE SPECIES OF SPECIAL CONCERN LIST 2016-05-06
DFW16D0001	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - CDFW AMPHIBIANS - HIGH MOUNTAIN LAKES DATABASE, COVERING 1995 TO 2015 FIELDWORK 2016-04-25
JOH68S0005	JOHNSON, A JOHNSON #358 & 359 MVZ #84964 & 84965 COLLECTED FROM MOSQUITO LAKES 1968-08-15



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad: Occurrence Number:	A1278 Ebbetts Pass 566	: (3811957)	EO Index: Element Code: Occurrence Last U		A01085	
		rodactylum sigillatum	Common Name:	southern long-toe		
	-			southern long tot	Sa Salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Spe	cies of Special Concerr	1
CNDDB Element Rank		G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		AKES IN THE SIERRA NEVADA, NS.	BREEDING SEASO	N ADULTS ARE T UND BURROWS (S AND LAKES. OUTSII ERRESTRIAL AND AS DF MAMMALS AND MC	SOCIATED
Last Date Observed:	2003-09-03		Occurrence Type:	Natural/Native o	ccurrence	
Last Survey Date:	2003-09-03		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
POND BETWEEN TRY	ON MEADOW A	ND BEAR TREE MEADOW, NE O	OF HIGHLAND LAKES, STA	NISLAUS NATION	NAL FOREST.	
Detailed Location:						
Ecological:						
Threats:						
General:						
7 LARVAE FOUND ON	3 SEP 2003.					
PLSS: T08N, R20E, S	Sec. 32, E (M)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N426	5234 E256281	Latitude/Longitude:	38.50215 / -119.79484		Elevation (feet):	8,700
County Summary:		Quad Summary:				
		Ebbetts Pass (381195	57)			
Alpine		EDDELIS FASS (30119)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

TO 2015 FIELDWORK 2016-04-25



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	A1279 Pacific Valley 567	(3811958)	EO Index: 102847 Element Code: AAAAA01085 Occurrence Last Updated: 2016-07-26			
Scientific Name: A	mbystoma macro	odactylum sigillatum	Common Name:	southern long-to	bed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:	Rare Plant Rank:		
	State:	None	Other Lists:	CDFW_SSC-Sp	ecies of Special Concern	1
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION MEA CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS ARE IND BURROWS	DS AND LAKES. OUTSIE TERRESTRIAL AND AS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2001-08-03		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	2001-08-03		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknown		
Presence:	Presumed Exta	nt				
Location:						
	H OF MOSQUITC	D LAKE AND HIGHWAY 4 AT PAG	CIFIC GRADE SUMMIT, ST	ANISLAUS NAT	IONAL FOREST.	
POND 0.7 MILE SOUTH						
Detailed Location:	19E94, 0.2 MILE	NORTH OF THE BOUNDARY O	F CARSON-ICEBERG WILI	DERNESS.		
Detailed Location: EAST OF USFS TRAIL	19E94, 0.2 MILE	NORTH OF THE BOUNDARY O	F CARSON-ICEBERG WILI	DERNESS.		
Detailed Location: EAST OF USFS TRAIL Ecological: Threats:	19E94, 0.2 MILE	NORTH OF THE BOUNDARY O	F CARSON-ICEBERG WILI	DERNESS.		
Detailed Location: EAST OF USFS TRAIL Ecological: Threats: General:		NORTH OF THE BOUNDARY O	F CARSON-ICEBERG WILI	DERNESS.		
Detailed Location:		NORTH OF THE BOUNDARY O	F CARSON-ICEBERG WILI	DERNESS.		
Detailed Location: EAST OF USFS TRAIL Ecological: Threats: General: 2 LARVAE FOUND ON	3 AUG 2001.	NORTH OF THE BOUNDARY O	F CARSON-ICEBERG WILI 80 meters	DERNESS.	Area (acres):	5
Detailed Location: EAST OF USFS TRAIL Ecological: Threats: General: 2 LARVAE FOUND ON PLSS: T08N, R19E, S	3 AUG 2001. Sec. 32, NE (M)			DERNESS.	Area (acres): Elevation (feet):	5 8,200
Detailed Location: EAST OF USFS TRAIL Ecological: Threats: General: 2 LARVAE FOUND ON PLSS: T08N, R19E, S	3 AUG 2001. Sec. 32, NE (M)	Accuracy:	80 meters	DERNESS.	. ,	
Detailed Location: EAST OF USFS TRAIL Ecological: Threats: General: 2 LARVAE FOUND ON PLSS: T08N, R19E, S UTM: Zone-11 N426	3 AUG 2001. Sec. 32, NE (M)	Accuracy: Latitude/Longitude:	80 meters 38.50643 / -119.90914	DERNESS.	. ,	



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	A1280 Pacific Valley 568	(3811958)	EO Index: Element Code: Occurrence Last U			
Scientific Name:	Ambystoma macro	odactylum sigillatum	Common Name:	southern lon	g-toed salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC	-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T4				
	State:	S3				
General Habitat:			Micro Habitat:			
HIGH ELEVATION ME/ CASCADE, AND KLAM		KES IN THE SIERRA NEVADA, IS.	BREEDING SEASO	N ADULTS A JND BURRO	ONDS AND LAKES. OUTSIE RE TERRESTRIAL AND ASS WS OF MAMMALS AND MO	SOCIATED
Last Date Observed:	2001-08-03		Occurrence Type:	Natural/Nat	ive occurrence	
Last Survey Date:	2001-08-03		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknown		
Presence:	Presumed Exta	int				
Location:						
POND 0.8 MILE NW OF	F HEISER LAKE,	CARSON-ICEBERG WILDERNE	SS, STANISLAUS NATION	AL FOREST.		
Detailed Location:		REA BOUNDARY, 0.3. MILE WE	ST OF USFS TRAIL 19E94			
JUST SOUTH OF THE	WILDERNESS A	,				
JUST SOUTH OF THE Ecological:	WILDERNESS A					
Ecological: Threats:	WILDERNESS A					
JUST SOUTH OF THE Ecological: Threats: General:						
JUST SOUTH OF THE Ecological:						
JUST SOUTH OF THE Ecological: Threats: General: 100 LARVAE FOUND (DN 3 AUG 2001.	Accuracy:	80 meters		Area (acres):	5
JUST SOUTH OF THE Ecological: Threats: General: 100 LARVAE FOUND (PLSS: T08N, R19E, S	DN 3 AUG 2001.				Area (acres): Elevation (feet):	5 8,400
JUST SOUTH OF THE Ecological: Threats: General: 100 LARVAE FOUND (PLSS: T08N, R19E, S UTM: Zone-11 N426	DN 3 AUG 2001. Sec. 32, NW (M)	Accuracy:	80 meters			
JUST SOUTH OF THE Ecological: Threats: General: 100 LARVAE FOUND C PLSS: T08N, R19E, S	DN 3 AUG 2001. Sec. 32, NW (M)	Accuracy: Latitude/Longitude:	80 meters 38.50396 / -119.91506			



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	44800		EO Index:		44800
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		AAABB01040
Occurrence Number:	38		Occurrence Last U	pdated:	2001-01-24
Scientific Name:	Anaxyrus canorus	As Common Name: Yosemite toad			toad
Listing Status:	Federal:	Threatened	Rare Plant Rank:		
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFS_S-Sensitive	
CNDDB Element Rank	s: Global:	G2G3			
	State:	S2S3			
General Habitat:			Micro Habitat:		
VICINITY OF WET ME/ 11,300 FEET IN ELEVA		TRAL HIGH SIERRA, 6,400 TO			MEADOWS; ALSO IN SEASONAL POP POLE PINE AND SUBALPINE CONIFEI
Last Date Observed:	1955-07-20		Occurrence Type:	Natural/I	Native occurrence
Last Survey Date:	1955-07-20		Occurrence Rank:	Unknow	n
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	n
Presence:	Presumed Exta	ant			
Location:					
TRYON MEADOW, 1 M	IILE NORTH OF	HIGHLAND LAKE AND ABOUT 2.	.75 MILES SOUTH OF EBE	BETTS PA	SS.
Detailed Location:					
MUSEUM RECORD GI	VES LOCATION	AS "TYION MEADOW, 1 MILE NO	ORTH OF HIGHLAND LAK	E"E.	
Ecological:					
Threats:					
General:		20 ILL ADEE DV EL KADLOTDON	И.		
General: MVZ SPECIMEN #6490	01 COLLECTED	20 JUL 1955 BT E.L.KARLSTROM			
MVZ SPECIMEN #6490		Accuracy:	1/5 mile		Area (acres): 0
MVZ SPECIMEN #6490 PLSS: T08N, R20E, S			1/5 mile 38.50479 / -119.80207		Area (acres): 0 Elevation (feet): 8,200
MVZ SPECIMEN #6490 PLSS: T08N, R20E, S UTM: Zone-11 N426	Sec. 32 (M)	Accuracy:			
MVZ SPECIMEN #6490 PLSS: T08N, R20E, S	Sec. 32 (M)	Accuracy: Latitude/Longitude:	38.50479 / -119.80207		

TOAD) IN ALPINE COUNTY, FROM THE UNIVERSITY OF CALIFORNIA, BERKELEY DIGITAL LIBRARY PROJECT. 2001-01-24



California Department of Fish and Wildlife



Map Index Number:	44801		EO Index:		44801	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		AAABB01040 d: 2001-01-24	
Occurrence Number:	39		Occurrence Last U	pdated:		
Scientific Name: A	naxyrus canorus	3	Common Name:	Yosemite	e toad	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFS S-Sensitive		
CNDDB Element Ranks	s: Global:	G2G3				
	State:	S2S3		_		
General Habitat:			Micro Habitat:			
VICINITY OF WET MEA 11,300 FEET IN ELEVA		TRAL HIGH SIERRA, 6,400 TO	_		MEADOWS; ALSO IN SEASONA POLE PINE AND SUBALPINE CO	
Last Date Observed:	1955-06-26		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1955-06-26		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
NORTH FORK MOKELU	JMNE RIVER, A	LONG HIGHLAND LAKE ROAD, A	ABOUT 2.4 MILES SOUTH	OF HWY	4.	
Detailed Location:						
Ecological:						
Threats:						
General:						
MVZ SPECIMEN #6179	6 COLLECTED	BY KARLSTROM & LIVEZEY 11 A	AUG 1952. #62670-62671 8	& 64903 C	OLLECTED BY KARLSTROM 26	JUN 1955
PLSS: T08N, R20E, S	ec. 19 (M)	Accuracy:	non-specific area		Area (acres):	99
UTM: Zone-11 N4268	3598 E254410	Latitude/Longitude:	38.53192 / -119.81745		Elevation (feet):	7,800
C C		Quad Summary:				
County Summary:						
County Summary: Alpine		Ebbetts Pass (381195	7)			



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	44742		EO Index:		44802		
Key Quad:	Carson Pass	(3811968)	Element Code:		AAABB01040		
Occurrence Number:	40		Occurrence Last U	pdated:	2001-01-24		
Scientific Name: A	naxyrus canorus		Common Name:	Common Name: Yosemite toad			
Listing Status:	Federal:	Threatened	Rare Plant Rank:				
	State:	None					า
CNDDB Element Rank	s: Global:	G2G3		IUCN_EN-Endangered USFS_S-Sensitive			
	State:	S2S3		_			
General Habitat:			Micro Habitat:				
VICINITY OF WET MEA 11,300 FEET IN ELEVA		IRAL HIGH SIERRA, 6,400 TO			MEADOWS; ALSO IN SEASON POLE PINE AND SUBALPINE C		
Last Date Observed:	1955-07-19		Occurrence Type:	Natural/	Native occurrence		
Last Survey Date:	1955-07-19		Occurrence Rank:	Unknow	'n		
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	'n		
Presence:	Presumed Exta	ant					
Location:							
FAITH VALLEY, ABOU	T 2 MILES SOUT	HEAST OF HWY 88.					
Detailed Location:							
THE WEST FORK CAR	SON RIVER AN	D SEVERAL UNNAMED TRIBUTA	ARIES RUN THROUGH FA	ITH VALLE	EY.		
Ecological:							
Threats:							
General:							
MVZ SPECIMEN #6490	4 COLLECTED	19 JUL 1955 BY E.L.KARLSTRON	Л.				
PLSS: T10N, R19E, S	Sec. 30 (M)	Accuracy:	non-specific area		Area (acres):	138	
UTM: Zone-11 N428	5673 E245116	Latitude/Longitude:	38.68298 / -119.93019		Elevation (feet):	7,500	
County Summary:		Quad Summary:					
Alpine		Carson Pass (3811968	3)				

TOAD) IN ALPINE COUNTY, FROM THE UNIVERSITY OF CALIFORNIA, BERKELEY DIGITAL LIBRARY PROJECT. 2001-01-24



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	44805		EO Index:		44805	
Key Quad:	Carson Pass ((3811968)	Element Code:		AAABB01040	
Occurrence Number:	41		Occurrence Last U	Occurrence Last Updated: 2001-0		
Scientific Name: A	naxyrus canorus		Common Name:	Yosemite	toad	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern		r
CNDDB Element Rank	s: Global:	G2G3		IUCN_EN USFS_S-	I-Endangered Sensitive	
	State:	S2S3				
General Habitat:			Micro Habitat:			
VICINITY OF WET MEA 11,300 FEET IN ELEVA		IRAL HIGH SIERRA, 6,400 TO			MEADOWS; ALSO IN SEASON OLE PINE AND SUBALPINE (
Last Date Observed:	1955-06-27		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	1955-06-27		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
CHARITY VALLEY, AB	OUT 3 MILES NO	ORTHEAST OF UPPER BLUE LAI	KE.			
Detailed Location:						
CHARITY VALLEY CRE	EEK AND SEVER	RAL UNNAMED TRIBUTARIES RU	JN THROUGH CHARITY V	ALLEY.		
Ecological:						
Threats:						
General:						
MVZ SPECIMEN #6489	7 COLLECTED	27 JUNE 1955 BY ERNEST L. KA	RLSTROM.			
PLSS: T10N, R19E, S	Sec. 32 (M)	Accuracy:	non-specific area		Area (acres):	176
UTM: Zone-11 N428	4298 E246892	Latitude/Longitude:	38.67112 / -119.90930		Elevation (feet):	7,700
County Summary:		Quad Summary:				
Alaine		Carson Pass (3811968	3)			
Alpine		,	,			

TOAD) IN ALPINE COUNTY, FROM THE UNIVERSITY OF CALIFORNIA, BERKELEY DIGITAL LIBRARY PROJECT. 2001-01-24



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	44807 Carson Pass (38 42	11968)	EO Index: Element Code: Occurrence Last U	lpdated:	44807 AAABB01040 2010-05-28	
Scientific Name: A	naxyrus canorus		Common Name:	Yosemite	toad	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State: N	None	Other Lists:		SC-Species of Special Concerr	ı
CNDDB Element Ranks	s: Global: (G2G3		IUCN_EN-Endangered USFS_S-Sensitive		
	State: S	S2S3		_		
General Habitat:			Micro Habitat:			
VICINITY OF WET MEA 11,300 FEET IN ELEVA		AL HIGH SIERRA, 6,400 TO			/EADOWS; ALSO IN SEASON OLE PINE AND SUBALPINE C	
Last Date Observed:	2009-07-14		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2009-07-14		Occurrence Rank:	Good		
Owner/Manager:	PVT-PGE		Trend:	Unknowr	ı	
Presence:	Presumed Extant					
Location:						
WEST & NORTHWEST	SHORES OF UPPE	ER BLUE LAKE, ABOUT 2 MI E	NE OF DEADWOOD PEA	K.		
Detailed Location:						
		ND UPPER BLUE LAKE" (NOR TH LOCATION MARKED ON A				
Ecological:						
		TE WITH GRASS ALONG THE M OF THE POOL & INTO THE LAK				AVG 3 CM
Threats:						
SALMONIDS IN LAKE, I	RELATIVELY HIGH	I HUMAN USE OF LAKE, RESE	RVOIR OPERATIONS (E	SP EARLY	DRAWDOWN).	
General: MV7 #64877-8 ON 30 JI	JN 1956, 5 PAIRS	IN AMPLEXUS (LIKELY YOSE	/ITE/WESTERN TOAD H	YBRIDS) &	9 EGG STRANDS 13 JUN 200	2.8000
		1 JUV OBS ON NW SHORE 26				
PLSS: T09N, R18E, S	ec. 12, SW (M)	Accuracy:	non-specific area		Area (acres):	40
UTM: Zone-11 N4280	518 E242656	Latitude/Longitude:	38.63588 / -119.95653		Elevation (feet):	8,140
County Summary:		Quad Summary:				
Alpine		Carson Pass (3811968))			
Sources:						
		BASE QUERY (UNIVERSITY OF				
		NTY, FROM THE UNIVERSITY				
		AREZ (JONES AND STOKES A	,			5 2002-06-13
POO09F0010 POOL	., A. (ECORP CON	SULTING, INC.) - FIELD SURVE	TY FORM FOR ANAXYRU	JS CANORI	05 2009-06-17	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	44863		EO Index:		44863	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAABB01040	
Occurrence Number:	60		Occurrence Last U	pdated:	2001-02-01	
Scientific Name: A	naxyrus canorus		Common Name:	Yosemite	toad	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern		
CNDDB Element Rank	s: Global:	G2G3		IUCN_EN-Endangered USFS S-Sensitive		
	State:	S2S3				
General Habitat:			Micro Habitat:			
VICINITY OF WET MEA 11,300 FEET IN ELEVA		RAL HIGH SIERRA, 6,400 TO			MEADOWS; ALSO IN SEASONAL PONE POLE PINE AND SUBALPINE CONIFER	
Last Date Observed:	1955-07-20		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1955-07-20		Occurrence Rank:	nk: Unknown		
Owner/Manager:	USFS-ELDOR/	ADO NF, STANISLAUS NF	Trend:	Unknow	n	
Presence:	Presumed Exta	int				
Location:						
UNNAMED LAKES & U	NNAMED TRIBU	TARY TO DEER CREEK, ALONG	G TRAIL TO DEER VALLEY	′, NORTH	OF HWY 4.	
Detailed Location:						
MUSEUM RECORD GI	VES LOCATION	AS "6 MI W EBBETTS PASS ON	TRAIL TO DEER VALLEY	AT 7700 F	Τ".	
Ecological:						
•						
Threats:						
•						
Threats: General:	ED 20 JUL 1955	BY ERNEST L. KARLSTROM.				
Threats: General: MVZ #64900 COLLECT		BY ERNEST L. KARLSTROM. Accuracy:	2/5 mile		Area (acres): 0	
Threats: General: MVZ #64900 COLLECT PLSS: T08N, R19E, S			2/5 mile 38.55183 / -119.91242		Area (acres): 0 Elevation (feet): 7,700	
Threats: General: MVZ #64900 COLLECT PLSS: T08N, R19E, S UTM: Zone-11 N427	Sec. 17 (M)	Accuracy:	_,			
Threats: General: MVZ #64900 COLLECT PLSS: T08N, R19E, S	Sec. 17 (M)	Accuracy: Latitude/Longitude:	38.55183 / -119.91242			

TOAD) IN ALPINE COUNTY, FROM THE UNIVERSITY OF CALIFORNIA, BERKELEY DIGITAL LIBRARY PROJECT. 2001-01-24



California Department of Fish and Wildlife



Map Index Number:	50207		EO Index:		50208
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		AAABB01040
Occurrence Number:	80		Occurrence Last U	pdated:	2003-02-14
Scientific Name: A	naxyrus canorus		Common Name:	Yosemite	e toad
Listing Status:	Federal:	Threatened	Rare Plant Rank:		
	State:	None	Other Lists:	_	SC-Species of Special Concern
CNDDB Element Rank	s: Global:	G2G3			N-Endangered -Sensitive
	State:	S2S3		_	
General Habitat:			Micro Habitat:		
VICINITY OF WET MEA 11,300 FEET IN ELEVA		TRAL HIGH SIERRA, 6,400 TO			MEADOWS; ALSO IN SEASONAL PONDS POLE PINE AND SUBALPINE CONIFER
Last Date Observed:	2001-07-21		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	2001-07-21		Occurrence Rank:	Unknow	'n
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	'n
Presence:	Presumed Exta	ant			
Location:					
UNNAMED LAKE BETV	VEEN SHERROI	LD LAKE & UPPER KINNEY LAKE,	0.8 MI NW OF EBBETTS	PASS. TO	DIYABE NF.
Detailed Location:					
	HE DFG HIGH E	ELEVATION FISH AND AMPHIBIAN	N TRACKING SYSTEM (F	ATS) DAT	ABASE.
Ecological:					
		LITTORAL SUBSTRATE OF SILT & E INLET. LAKE IS NOT STOCKED			ASS/SEDGE/FORB. FISH (NOT
Threats:					
General:					
4 ADULT TOADS HAND	COLLECTED.	20 LONG-TOED SALAMANDER LA	RVA OBSERVED & 5 AD	OULT & 10	00 TREEFROG LARVA OBS.
PLSS: T08N, R20E, S	ec. 07, SW (M)	Accuracy:	80 meters		Area (acres): 0
UTM: Zone-11 N427	1029 E254080	Latitude/Longitude:	38.55371 / -119.82208		Elevation (feet): 8,800
County Summary:		Quad Summary:			
Alpine		Ebbetts Pass (3811957)			
Sources:					
				SITE ID 15	5019 FROM "FATS" DATABASE FOR 200
		SH AND FROG SURVEY 2001-07-2			
		, RESULTS OF 2001 HIGH ELEVA			AMPHIBIAN TRACKING SYSTEM (FATS)



California Department of Fish and Wildlife



Map Index Number:	50209	9		EO Index:		50209
Key Quad:	Pacifi	ic Valley (3	3811958)	Element Code:		AAABB01040
Occurrence Number	: 81			Occurrence Last U	Jpdated:	2003-02-14
Scientific Name:	Anaxyrus	canorus		Common Name:	Yosemite t	oad
Listing Status:	Fe	ederal:	Threatened	Rare Plant Rank:		
	Sta	ate:	None	Other Lists:		C-Species of Special Concern
CNDDB Element Rar	ks: Glo	obal:	G2G3		IUCN_EN- USFS S-S	Endangered
	Sta	ate:	S2S3		0010_00	
General Habitat:				Micro Habitat:		
/ICINITY OF WET MI 11,300 FEET IN ELEV		IN CENT	RAL HIGH SIERRA, 6,400 TO			EADOWS; ALSO IN SEASONAL PONDS DLE PINE AND SUBALPINE CONIFER
Last Date Observed:	2001-0	08-05		Occurrence Type:	Natural/N	ative occurrence
Last Survey Date:	2001-0	08-05		Occurrence Rank:	Unknown	
Owner/Manager:	USFS-	-STANISL	AUS NF	Trend:	Unknown	
Presence:	Presun	med Extan	ıt			
_ocation:						
SMALL UNNAMED L	AKE ABOL	UT 0.75 M	I NE OF WHEELER LAKE. EAS	ST SIDE OF JACKSON CRE	EEK. STANIS	SLAUS NATIONAL FOREST.
Detailed Location:						
SITE ID 15128 FROM CLUSTER OF 3 SMA			EVATION FISH AND AMPHIBI	AN TRACKING SYSTEM (F	FATS) DATA	BASE. THE EASTERN-MOST OF A
Ecological:						
SMALL, SHALLOW (0 SILT & BOULDER.	0.75 M) HIC	GH ELEV/	ATION LAKE WITH LITTORAL	SUBSTRATE OF SILT & SH	HORELINE S	UBSTRATE OF GRASS/SEDGE/FORB,
Threats:						
General:						
I ADULT TOAD HAN DBSERVED/COLLEC		CTED IN A	A 6 MINUTE SURVEY. 2 ADUL	T TREEFROGS, 38 LONG-1	TOED SALAI	MANDER LARVA & FAIRY SHRIMP ALS
PLSS: T08N, R18E	Sec. 23, 8	SW (M)	Accuracy:	80 meters		Area (acres): 0
UTM: Zone-11 N42	68359 E24	41198	Latitude/Longitude:	38.52602 / -119.96875		Elevation (feet): 7,700
County Summary:			Quad Summary:			
Alpine			Pacific Valley (38119	58)		
Sources:						
			MENT OF FISH & GAME - FIEL H AND FROG SURVEY 2001-0		SITE ID 151	28 FROM "FATS" DATABASE FOR 2001
			CALIFORNIA DEPARTMENT C RESULTS OF 2001 HIGH ELEV			IPHIBIAN TRACKING SYSTEM (FATS)



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	43029 Pacific Valley (381195 82	8)	EO Index: Element Code: Occurrence Last U	50210 AAABB0 pdated: 2003-02-		
Scientific Name:	Anaxyrus canorus		Common Name:	Yosemite toad		
Listing Status:	Federal: Threa	tened	Rare Plant Rank:			
	State: None		Other Lists:	CDFW_SSC-Specie IUCN_EN-Endanger	es of Special Concern	
CNDDB Element Ran	ks: Global: G2G3			USFS_S-Sensitive	leu	
	State: S2S3					
General Habitat:			Micro Habitat:			
VICINITY OF WET ME 11,300 FEET IN ELEV	EADOWS IN CENTRAL HI ATION.	GH SIERRA, 6,400 TO		NE WET MEADOWS		
Last Date Observed:	2001-08-03		Occurrence Type:	Natural/Native occu	urrence	
Last Survey Date:	2001-08-03		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANISLAUS N	F	Trend:	Unknown		
Presence:	Presumed Extant					
Location:						
	ANISLAUS NATIONAL FO	REST.				
Detailed Location:						
	THE DFG HIGH ELEVATI	ON FISH AND AMPHIBIAN	TRACKING SYSTEM (F	ATS) DATABASE.		
Ecological: HIGH ELEVATION LA BOULDER & WOODY		. LITTORAL SUBSTRATE IS	S SILT & BOULDER & S	HORELINE SUBSTRA	ATE IS GRASS/SED	GE/FORB,
Threats:						
General:						
		N A 64 MINUTE SURVEY. 3 SET. MTN YELLOW-LEGG			TER SNAKE ALSO (DBS. 15
PLSS: T08N, R18E,	Sec. 27, NE (M)	Accuracy: n	ion-specific area		Area (acres):	28
UTM: Zone-11 N42	67445 E240160	Latitude/Longitude: 3	8.51749 / -119.98030		Elevation (feet):	7,880
County Summary:		Quad Summary:				
Alpine		Pacific Valley (3811958)				
Sources:						
		OF FISH & GAME - FIELD S FROG SURVEY 2001-08-03		SITE ID 15145 FROM	1 "FATS" DATABASE	FOR 2001
DFG01U0001 MIL	LIRON, C. ET AL. (CALIFO	DRNIA DEPARTMENT OF F TS OF 2001 HIGH ELEVAT	ISH AND WILDLIFE) - F		N TRACKING SYSTE	M (FATS)



California Department of Fish and Wildlife



Map Index Number:	75195		EO Index:		76198
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAABB01040
Occurrence Number:	130		Occurrence Last U	pdated:	2010-05-28
Scientific Name: An	axyrus canorus	3	Common Name:	Yosemite	e toad
Listing Status:	Federal:	Threatened	Rare Plant Rank:		
	State:	None	Other Lists:		SSC-Species of Special Concern
CNDDB Element Ranks	: Global:	G2G3			N-Endangered -Sensitive
	State:	S2S3			
General Habitat:			Micro Habitat:		
VICINITY OF WET MEAU 11,300 FEET IN ELEVAT		TRAL HIGH SIERRA, 6,400 TO			MEADOWS; ALSO IN SEASONAL PONDS POLE PINE AND SUBALPINE CONIFER
Last Date Observed:	2009-07-14		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	2009-07-14		Occurrence Rank:	Good	
Owner/Manager:	PVT-PGE		Trend:	Unknow	'n
Presence:	Presumed Exta	ant			
Location:					
		AKE, & SMALL POND JUST NE OF T	WIN LAKE.		
WEST & NORTH SHORE					
Detailed Location: 2001: OBS IN SEEP POO OBSERVED ALONG BO	OL (NORTH EN	ID OF LAKE) AND ALONG NW/S MA AKE. ADULTS NEAR DAMS ASSOC			H LOCATIONS PROVIDED. 2009: URROWS. PG&E LAND WITHIN ELDORAE
Detailed Location: 2001: OBS IN SEEP POO OBSERVED ALONG BO NF.	OL (NORTH EN				
Detailed Location: 2001: OBS IN SEEP POO OBSERVED ALONG BO NF. Ecological: SEEP POOL NEAR DAM	OL (NORTH EN UNDARY OF L 1 7 M X 9 M; GF	AKE. ADULÍS NEAR DAMS ASSOC RASS COVERS ENTIRE MARGIN &	IATED WITH SMALL MA	AMMAL B	
Detailed Location: 2001: OBS IN SEEP POO DBSERVED ALONG BO NF. Ecological: SEEP POOL NEAR DAM SANDY SUBSTRATE & S	OL (NORTH EN UNDARY OF L 1 7 M X 9 M; GF	AKE. ADULÍS NEAR DAMS ASSOC RASS COVERS ENTIRE MARGIN &	IATED WITH SMALL MA	AMMAL B	URROWS. PG&E LAND WITHIN ELDORAE GETATION. SHORELINE OF LAKE HAS A
Detailed Location: 2001: OBS IN SEEP POO DBSERVED ALONG BO NF. Ecological: SEEP POOL NEAR DAM SANDY SUBSTRATE & S Fhreats:	OL (NORTH EN UNDARY OF L 17 M X 9 M; GF SHALLOW WA [*]	AKE. ADULÍS NEAR DAMS ASSOC RASS COVERS ENTIRE MARGIN &	IATED WITH SMALL MA IS PRESENT AS EMER(S, SILT/MUD, BOULDEF	AMMAL B	URROWS. PG&E LAND WITHIN ELDORAE GETATION. SHORELINE OF LAKE HAS A
Detailed Location: 2001: OBS IN SEEP POO DBSERVED ALONG BO NF. Ecological: SEEP POOL NEAR DAM SANDY SUBSTRATE & S Threats: FROUT IN LAKE, DISTU	OL (NORTH EN UNDARY OF L 17 M X 9 M; GF SHALLOW WA [*]	AKE. ADULÍS NEAR DAMS ASSOC RASS COVERS ENTIRE MARGIN & TER. EPHEMERAL POOL W/ GRAS	IATED WITH SMALL MA IS PRESENT AS EMER(S, SILT/MUD, BOULDEF	AMMAL B	URROWS. PG&E LAND WITHIN ELDORAE GETATION. SHORELINE OF LAKE HAS A
Detailed Location: 2001: OBS IN SEEP POO OBSERVED ALONG BO NF. Ecological: SEEP POOL NEAR DAM SANDY SUBSTRATE & S Threats: TROUT IN LAKE, DISTU General: 15 JUV, 50-100 LARV IN	OL (NORTH EN UNDARY OF L 1 7 M X 9 M; GF SHALLOW WA IRBANCE FROI I SEEP POOL 2	AKE. ADULÍS NEAR DAMS ASSOC RASS COVERS ENTIRE MARGIN & TER. EPHEMERAL POOL W/ GRAS M RECREATIONAL USERS, RESER	IATED WITH SMALL MA IS PRESENT AS EMER S, SILT/MUD, BOULDEF VOIR OPERATIONS.	AMMAL BI GENT VE RS. SURR 24 JUL '0'	URROWS. PG&E LAND WITHIN ELDORAE GETATION. SHORELINE OF LAKE HAS A LAND: RECREATION (FISHING, CAMPIN 1. SEVERAL JUV ALONG MOIST EDGES C
Detailed Location: 2001: OBS IN SEEP POO OBSERVED ALONG BO NF. Ecological: SEEP POOL NEAR DAM SANDY SUBSTRATE & S Threats: TROUT IN LAKE, DISTU General: 15 JUV, 50-100 LARV IN	OL (NORTH EN UNDARY OF L 1 7 M X 9 M; GF SHALLOW WA RBANCE FROI I SEEP POOL 2 OM POND 7 JL	AKE. ADULÍS NEAR DAMS ASSOC RASS COVERS ENTIRE MARGIN & TER. EPHEMERAL POOL W/ GRAS M RECREATIONAL USERS, RESER 26 JUN '01. 4 JUV & 1000S OF LARV JN '01. 2 ADULTS, 100S JUV, 10,000	IATED WITH SMALL MA IS PRESENT AS EMER S, SILT/MUD, BOULDEF VOIR OPERATIONS.	AMMAL BI GENT VE RS. SURR 24 JUL '0'	URROWS. PG&E LAND WITHIN ELDORAE GETATION. SHORELINE OF LAKE HAS A LAND: RECREATION (FISHING, CAMPIN 1. SEVERAL JUV ALONG MOIST EDGES C

UTM: Zone-1	11 N4277035 E243814	Latitude/Longitude:	38.60486 / -119.94196	Elevation (feet):	8,130
County Summa	ary:	Quad Summary:			
Alpine		Pacific Valley (381195	58)		
Sources:					
MYE01F0004	MYERS, S.A. & J.L. ALVAREZ	(JONES AND STOKES	ASSOCIATES) - FIELD SURVEY FO	RM FOR ANAXYRUS CANORU	S 2001-06-07
MYE01F0005	MYERS, S.A. & J.L. ALVAREZ	(JONES AND STOKES	ASSOCIATES) - FIELD SURVEY FO	RM FOR ANAXYRUS CANORU	S 2001-07-24
POO09F0009	POOL, A. (ECORP CONSULT	ING, INC.) - FIELD SUR\	/EY FORM FOR ANAXYRUS CANOR	RUS 2009-07-01	



California Department of Fish and Wildlife



Map Index Number:	75199		EO Index:		76201
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAABB01040
Occurrence Number:	132		Occurrence Last U	pdated:	2009-06-29
Scientific Name: Ar	axyrus canorus	3	Common Name:	Yosemite	e toad
Listing Status:	Federal:	Threatened	Rare Plant Rank:		
	State:	None	Other Lists:		SC-Species of Special Concern
CNDDB Element Ranks	: Global:	G2G3		_	N-Endangered -Sensitive
	State:	S2S3			
General Habitat:			Micro Habitat:		
VICINITY OF WET MEA 11,300 FEET IN ELEVAT		TRAL HIGH SIERRA, 6,400 TO			MEADOWS; ALSO IN SEASONAL PONDS POLE PINE AND SUBALPINE CONIFER
Last Date Observed:	2001-07-02		Occurrence Type:	Natural/I	Native occurrence
Last Survey Date:	2001-07-02		Occurrence Rank:	Good	
Owner/Manager:	USFS-ELDORADO NF		Trend:	Unknow	n
Presence:	Presumed Exta	ant			
Location:					
ADJACENT TO BLUE C	REEK, ABOUT	0.5 MI SOUTH OF LOWER BLUE	LAKE, ELDORADO NATIC	NAL FOR	EST.
Detailed Location:					
	UPPER TERR	ACE ADJACENT TO BLUE CREE	K. MAP WITH LOCATIONS	S PROVIDI	ED.
		G LARVAE ALSO OBSERVED AT			ESENT ON 20% OF THE MARGIN OF THE
Threats:					
RECREATION - ORV US	E & FISHING.	2 DEAD TOADS ON 2 JUL 2001 F	PRESUMED RUN OVER BY	MOTOR	CYCLES.
General:					
		ANORUS/BOREAS HYBRIDS OB SUS CANORUS/BOREAS HYBRID			N 2001. 2 DEAD JUVENILES & UNKNOWN TO POOLS ON 2 JUL 2001.
PLSS: T09N, R19E, Se	ec. 30, SE (M)	Accuracy:	specific area		Area (acres): 19
UTM: Zone-11 N4276	688 E245392	Latitude/Longitude:	38.60219 / -119.92372		Elevation (feet): 7,920
County Summary:		Quad Summary:			
Alpine		Pacific Valley (381195	8)		
•			- /		



California Department of Fish and Wildlife



-	30)420		EO Index:		4269	
Key Quad:	Ca	arson Pass (3811968)	Element Code:		AAABH01340	
Occurrence Number	: 6			Occurrence Last U	pdated:	2014-09-05	
Scientific Name:	Rana	sierrae		Common Name:	Sierra Nev	vada yellow-legged frog	
Listing Status:		Federal:	Endangered	Rare Plant Rank:			
		State:	Threatened	Other Lists:		/L-Watch List	
CNDDB Element Rar	nks:	Global:	G1		IUCN_EN USFS_S-	I-Endangered Sensitive	
		State:	S1		_		
General Habitat:				Micro Habitat:			
ALWAYS ENCOUNTE MAY REQUIRE 2 - 4 DEVELOPMENT.			EW FEET OF WATER. TADPO E THEIR AQUATIC	LES 🗆			
Last Date Observed:	19	74-09-04		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	200	01-06-26		Occurrence Rank:	Unknowr	n	
Owner/Manager:	US	FS-TOIYABE	E NF	Trend:	Unknowr	n	
Presence:	Pre	esumed Exta	nt				
Location:							
	E SOU	ITH OF HIGH	IWAY 88 AT CARSON PASS,	1.2 MILES NORTH OF WINN	EMUCCA L	LAKE.	
Detailed Location:							
		ROG LAKE B			KE, NO. 1,	," "LITTLE FROG LAKE, NO. 2,"	AND
		HWY. 88 ON	I TRAIL TO LAKE WINNEMUC				
UPPER LAKE, 1 MI I		HWY. 88 ON	I TRAIL TO LAKE WINNEMUC				
UPPER LAKE, 1 MI I Ecological:		HWY. 88 ON	I TRAIL TO LAKE WINNEMUC				
"UPPER LAKE, 1 MI I Ecological: Threats:		HWY. 88 ON	TRAIL TO LAKE WINNEMUC				
"UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO	FROM	ROM THREE		NO HERPS WERE FOUND D	DURING A S	SURVEY ON 26 JUN 2001. MOI	RE
"UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO RESEARCH NEEDED	FROM WN FF D TO D	ROM THREE ETERMINE	COLLECTIONS FROM 1974. I	NO HERPS WERE FOUND D	DURING A S	SURVEY ON 26 JUN 2001. MOI Area (acres):	RE 6
"UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO RESEARCH NEEDED PLSS: T10N, R18E	FROM WN FF D TO D , Sec. 2	ROM THREE ETERMINE 27, NE (M)	COLLECTIONS FROM 1974. I PRESENCE/ABSENCE OF TH	NO HERPS WERE FOUND D E SPECIES IN THE AREA. specific area	DURING A S		
"UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO RESEARCH NEEDEI PLSS: T10N, R18E UTM: Zone-11 N42	FROM WN FF D TO D , Sec. 2	ROM THREE ETERMINE 27, NE (M)	COLLECTIONS FROM 1974. I PRESENCE/ABSENCE OF TH Accuracy:	NO HERPS WERE FOUND D E SPECIES IN THE AREA. specific area	DURING A S	Area (acres):	6
"UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO RESEARCH NEEDEI PLSS: T10N, R18E UTM: Zone-11 N42 County Summary:	FROM WN FF D TO D , Sec. 2	ROM THREE ETERMINE 27, NE (M)	COLLECTIONS FROM 1974. I PRESENCE/ABSENCE OF TH Accuracy: Latitude/Longitude	NO HERPS WERE FOUND D E SPECIES IN THE AREA. specific area : 38.68784 / -119.98593	DURING A S	Area (acres):	6
UPPER LAKE, 1 MI I Ecological: Ifreats: General: DCCURRENCE KNO RESEARCH NEEDED PLSS: T10N, R18E JTM: Zone-11 N42 County Summary: Alpine	FROM WN FF D TO D , Sec. 2	ROM THREE ETERMINE 27, NE (M)	COLLECTIONS FROM 1974. I PRESENCE/ABSENCE OF TH Accuracy: Latitude/Longitude Quad Summary:	NO HERPS WERE FOUND D E SPECIES IN THE AREA. specific area : 38.68784 / -119.98593	DURING A S	Area (acres):	6
UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO RESEARCH NEEDEL PLSS: T10N, R18E UTM: Zone-11 N42 County Summary: Alpine Sources:	FROM WN FF D TO D , Sec. 2 286369	ROM THREE ETERMINE 27, NE (M) E240284	COLLECTIONS FROM 1974. I PRESENCE/ABSENCE OF TH Accuracy: Latitude/Longitude Quad Summary:	NO HERPS WERE FOUND D E SPECIES IN THE AREA. specific area : 38.68784 / -119.98593	DURING A S	Area (acres):	6
"UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO RESEARCH NEEDEI PLSS: T10N, R18E UTM: Zone-11 N42 County Summary: Alpine Sources: CAS74S0048 CAS	FROM D TO D , Sec. 2 286369 SE, S. LIFORI	ROM THREE ETERMINE 27, NE (M) E240284	COLLECTIONS FROM 1974. I PRESENCE/ABSENCE OF TH Accuracy: Latitude/Longitude Quad Summary: Carson Pass (38119 4 MVZ #136220 1974-09-04	NO HERPS WERE FOUND D E SPECIES IN THE AREA. specific area : 38.68784 / -119.98593 68)		Area (acres):	6 7,900
"UPPER LAKE, 1 MI I Ecological: Threats: General: OCCURRENCE KNO RESEARCH NEEDED PLSS: T10N, R18E UTM: Zone-11 N42 County Summary: Alpine Sources: CAS74S0048 CA: DFW14D0001 CAI TO	FROM WN FF D TO D , Sec. 2 286369 SE, S. LIFORI 2013 F	ROM THREE ETERMINE 27, NE (M) E240284 - CASE #534 NIA DEPART FIELDWORK	COLLECTIONS FROM 1974. I PRESENCE/ABSENCE OF TH Accuracy: Latitude/Longitude Quad Summary: Carson Pass (38119 4 MVZ #136220 1974-09-04	NO HERPS WERE FOUND D E SPECIES IN THE AREA. specific area : 38.68784 / -119.98593 68) FE - CDFW AMPHIBIANS - HI		Area (acres): Elevation (feet):	6 7,900



California Department of Fish and Wildlife



	ber: 2	2204		EO Index:		7850	
Key Quad:	F	Pacific Valley	(3811958)	Element Code:		AAABH01340	
Occurrence Nun	nber: 3	5		Occurrence Last U	Occurrence Last Updated: 2014		
Scientific Name:	: Rana	sierrae		Common Name:	Sierra Nev	vada yellow-legged frog	
Listing Status:		Federal:	Endangered	Rare Plant Rank:			
		State:	Threatened	Other Lists:		L-Watch List	
CNDDB Element	t Ranks:	Global:	G1		USFS S-S	-Endangered Sensitive	
		State:	S1		_		
General Habitat:	:			Micro Habitat:			
	2 - 4 YRS 1		EW FEET OF WATER. TADPO TE THEIR AQUATIC	LES 🗆			
Last Date Obser	ved: 19	94-07-29		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date	e: 19	94-07-29		Occurrence Rank:	Fair		
Owner/Manager:	: U	SFS-ELDORA	ADO NF	Trend:	Unknowr	ı	
Presence:	Pr	esumed Exta	int				
ocation:							
	OF WET N	IEADOWS R	ESERVOIR, ALONG TRIBUTA	RY TO DEER CREEK, SE OF	LITTLE IN	IDIAN VALLEY, MOKELUMNE	
WILDERNESS.		IEADOWS R	ESERVOIR, ALONG TRIBUTAI	RY TO DEER CREEK, SE OF	LITTLE IN	IDIAN VALLEY, MOKELUMNE	
VILDERNESS. Detailed Locatio		IEADOWS R	ESERVOIR, ALONG TRIBUTAI	RY TO DEER CREEK, SE OF	LITTLE IN	IDIAN VALLEY, MOKELUMNE	
WILDERNESS. Detailed Locatio Ecological:	on:		ESERVOIR, ALONG TRIBUTAI	RY TO DEER CREEK, SE OF	LITTLE IN	IDIAN VALLEY, MOKELUMNE	
VILDERNESS. Detailed Locatio Ecological: SMALL ALPINE N	on:		ESERVOIR, ALONG TRIBUTAI	RY TO DEER CREEK, SE OF	LITTLE IN	IDIAN VALLEY, MOKELUMNE	
VILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats:	on:		ESERVOIR, ALONG TRIBUTAI	RY TO DEER CREEK, SE OF	LITTLE IN	IDIAN VALLEY, MOKELUMNE	
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats: General: 1 ADULT & 12 TA	MEADOW	STREAM. OBSERVED	ESERVOIR, ALONG TRIBUTA ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O	ED ON 28 JUL 1993. OVER 2	0 TADPOLI	ES OBSERVED ON 17 JUN 19	194. ON 29
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE N Threats: General: 1 ADULT & 12 TA JUL 1994 2 ADUI	MEADOW ADPOLES LTS, 4 ME	STREAM. OBSERVED TAMORPHS,	ON 30 MAY 1992. 1 OBSERVE	ED ON 28 JUL 1993. OVER 2	0 TADPOLI	ES OBSERVED ON 17 JUN 19	994. ON 29 24
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats: General: 1 ADULT & 12 TA JUL 1994 2 ADUI PLSS: T08N, R	MEADOW ADPOLES LTS, 4 ME (19E, Sec.	STREAM. OBSERVED TAMORPHS,	ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O	ED ON 28 JUL 1993. OVER 2 BSERVED WHICH WERE DE specific area	0 TADPOLI	ES OBSERVED ON 17 JUN 19 3 LEGS.	
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats: General: 1 ADULT & 12 TA JUL 1994 2 ADUI PLSS: T08N, R	MEADOW ADPOLES LTS, 4 ME R19E, Sec. I N427425	STREAM. OBSERVED TAMORPHS, 03, NW (M)	ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O Accuracy:	ED ON 28 JUL 1993. OVER 2 BSERVED WHICH WERE DE specific area	0 TADPOLI	ES OBSERVED ON 17 JUN 19 G LEGS. Area (acres):	24
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats: General: 1 ADULT & 12 TA JUL 1994 2 ADUI PLSS: T08N, R UTM: Zone-11	MEADOW ADPOLES LTS, 4 ME R19E, Sec. I N427425	STREAM. OBSERVED TAMORPHS, 03, NW (M)	ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O Accuracy: Latitude/Longitude Quad Summary:	ED ON 28 JUL 1993. OVER 2 BSERVED WHICH WERE DE specific area	0 TADPOLI	ES OBSERVED ON 17 JUN 19 G LEGS. Area (acres):	24
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats: General: I ADULT & 12 TA JUL 1994 2 ADUI PLSS: T08N, R JTM: Zone-11 County Summar	MEADOW ADPOLES LTS, 4 ME R19E, Sec. I N427425	STREAM. OBSERVED TAMORPHS, 03, NW (M)	ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O Accuracy: Latitude/Longitude Quad Summary:	ED ON 28 JUL 1993. OVER 2 BSERVED WHICH WERE DE specific area : 38.58148 / -119.87651	0 TADPOLI	ES OBSERVED ON 17 JUN 19 G LEGS. Area (acres):	24
VILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats: General: I ADULT & 12 TA IUL 1994 2 ADUI PLSS: T08N, R JTM: Zone-11 County Summar Alpine Sources:	MEADOW ADPOLES LTS, 4 ME R19E, Sec. I N427425 ry:	STREAM. OBSERVED TAMORPHS, 03, NW (M) 9 E249433	ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O Accuracy: Latitude/Longitude Quad Summary:	ED ON 28 JUL 1993. OVER 2 BSERVED WHICH WERE DE specific area : 38.58148 / -119.87651 957), Pacific Valley (3811958)	0 TADPOLI	ES OBSERVED ON 17 JUN 19 G LEGS. Area (acres):	24
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE N Fhreats: General: I ADULT & 12 TA JUL 1994 2 ADUI PLSS: T08N, R JTM: Zone-11 County Summar Alpine Sources: ELL92F0001	MEADOW ADPOLES LTS, 4 ME 219E, Sec. I N427425 ry: ELLIOTT	STREAM. OBSERVED TAMORPHS, 03, NW (M) 9 E249433	ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O Accuracy: Latitude/Longitude Quad Summary: Ebbetts Pass (38119	ED ON 28 JUL 1993. OVER 2 BSERVED WHICH WERE DE specific area : 38.58148 / -119.87651 957), Pacific Valley (3811958) JSCOSA 1992-05-30	0 TADPOLI	ES OBSERVED ON 17 JUN 19 G LEGS. Area (acres):	24
WILDERNESS. Detailed Locatio Ecological: SMALL ALPINE M Threats: General: 1 ADULT & 12 TA JUL 1994 2 ADUI PLSS: T08N, R UTM: Zone-11 County Summar	MEADOW ADPOLES LTS, 4 ME R19E, Sec. I N427425 ry: ELLIOTT ELLIOTT	STREAM. OBSERVED TAMORPHS, 03, NW (M) 9 E249433 , G FIELD S	ON 30 MAY 1992. 1 OBSERVE , AND 16 TADPOLES WERE O Accuracy: Latitude/Longitude Quad Summary: Ebbetts Pass (38119 SURVEY FORM FOR RANA MU	ED ON 28 JUL 1993. OVER 2 BSERVED WHICH WERE DE specific area : 38.58148 / -119.87651 257), Pacific Valley (3811958) JSCOSA 1992-05-30 JSCOSA 1994-07-29	0 TADPOLI	ES OBSERVED ON 17 JUN 19 G LEGS. Area (acres):	24



California Department of Fish and Wildlife



Map Index Number:	30407		EO Index:		22280	
Key Quad:	Pacific Valley	(3811958)	B) Element Code:		AAABH01340	
Occurrence Number	: 42		Occurrence Last U	pdated:	2014-09-05	
Scientific Name:	Rana sierrae		Common Name:	Sierra Ne	wada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:		VL-Watch List	
CNDDB Element Ran	nks: Global:	G1		USFS_S-	I-Endangered Sensitive	
	State:	S1				
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTE MAY REQUIRE 2 - 4 ` DEVELOPMENT.		EW FEET OF WATER. TADPOLES				
Last Date Observed:	1993-07-08		Occurrence Type:	Natural/	Native occurrence	
ast Survey Date:	2010-07-22		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
ocation:						
JPPER MOSQUITO A IWY 4.	AND LOWER MOS	SQUITO LAKES AND NORTH FORK	STANISLAUS RIVER D	OWNSTRI	EAM OF LOWER LAKE, JUST S	SOUTH OF
Detailed Location:						
	EYED FOR 15 MII	N ON 2 AUG 2001, AND 1 HOUR ON	N 22 JUL 2010.			
AKES WERE SURVI	EYED FOR 15 MII	N ON 2 AUG 2001, AND 1 HOUR OF	N 22 JUL 2010.			
AKES WERE SURVI	EYED FOR 15 MII	N ON 2 AUG 2001, AND 1 HOUR OF	N 22 JUL 2010.			
AKES WERE SURVI Ecological: Threats:	EYED FOR 15 MII	N ON 2 AUG 2001, AND 1 HOUR OI	N 22 JUL 2010.			
AKES WERE SURVI Ecological: I'hreats: I'ROUT PRESENT.	EYED FOR 15 MII	N ON 2 AUG 2001, AND 1 HOUR OI	N 22 JUL 2010.			
AKES WERE SURVI Ecological: Ifhreats: IROUT PRESENT. General: MANY HISTORICAL (COLLECTIONS FF	N ON 2 AUG 2001, AND 1 HOUR ON ROM THESE LAKES. 1992: 579 M C L CROSSING AT EAST END OF LO	OF STREAM AND MEADO			
AKES WERE SURVI Ecological: Ihreats: IROUT PRESENT. General: MANY HISTORICAL (3 ADULTS OBS. 1993	COLLECTIONS FF 3: 1 OBS AT TRAI	ROM THESE LAKES. 1992: 579 M C L CROSSING AT EAST END OF LO	OF STREAM AND MEADO			
AKES WERE SURVI Ecological: Inreats: IROUT PRESENT. General: MANY HISTORICAL (ADULTS OBS. 1993 PLSS: T08N, R19E,	COLLECTIONS FF 3: 1 OBS AT TRAI	ROM THESE LAKES. 1992: 579 M C L CROSSING AT EAST END OF LO Accuracy:	OF STREAM AND MEADO WER LAKE. NO HERPS		UND DURING SURVEYS IN 20	001 & 2010.
Ecological: Threats: TROUT PRESENT. General: MANY HISTORICAL (3 ADULTS OBS. 1993 PLSS: T08N, R19E,	COLLECTIONS FF 3: 1 OBS AT TRAII , Sec. 29 (M)	ROM THESE LAKES. 1992: 579 M C L CROSSING AT EAST END OF LO Accuracy:	DF STREAM AND MEADO WER LAKE. NO HERPS non-specific area		OUND DURING SURVEYS IN 20 Area (acres):	001 & 2010. 48



California Department of Fish and Wildlife



Sources:	
AND58S0001	ANDERSON, J ANDERSON #1958 MVZ #67494 1958-07-03
AND58S0002	ANDERSON, J ANDERSON #1959 MVZ #67495 1958-07-03
ANO74S0003	ANONYMOUS - ANONYMOUS SN MVZ #136399 1974-07-24
BAN58S0001	BANKS, R BANKS #349 MVZ #70383 1958-08-06
CAN92U0001	CANORUS LIMITED - RESULTS OF 1992 HERPETOLOGICAL SURVEYS IN ELDORADO, STANISLAUS, SIERRA, AND SEQUIOA NATIONAL FORESTS 1992-06-17
CAN94U0001	CANORUS LIMITED - 1993 ANURAN SURVEY WITH INFORMATION ON RED-LEGGED, MOUNTAIN YELLOW-LEGGED, FOOTHILL YELLOW-LEGGED, PACIFIC CHORUS FROGS & WESTERN & YOSEMITE TOADS 1994-04-26
CAS74S0004	CASE, S CASE #432 MVZ #136171 1974-07-24
CAS74S0005	CASE, S CASE #433 MVZ #136172 1974-07-24
CAS74S0006	CASE, S CASE #434 MVZ #136173 1974-07-24
CAS74S0007	CASE, S CASE #435 MVZ #136174 1974-07-24
CAS74S0008	CASE, S CASE #436 MVZ #136175 1974-07-24
CAS74S0009	CASE, S CASE #437 MVZ #136176 1974-07-24
CAS74S0010	CASE, S CASE #438 MVZ #136177 1974-07-24
CAS74S0011	CASE, S CASE #439 MVZ #136178 1974-07-24
CAS74S0012	CASE, S CASE #440 MVZ #136179 1974-07-24
CAS74S0013	CASE, S CASE #441 MVZ #136180 1974-07-24
CAS74S0014	CASE, S CASE #444 MVZ #136181 1974-07-24
CAS74S0015	CASE, S CASE #445 MVZ #136182 1974-07-24
CAS74S0016	CASE, S CASE #446 MVZ #136183 1974-07-24
CAS74S0017	CASE, S CASE #447 MVZ #136184 1974-07-24
CAS74S0018	CASE, S CASE #448 MVZ #136185 1974-07-24
CAS74S0019	CASE, S CASE #449 MVZ #136186 1974-07-24
CAS74S0020	CASE, S CASE #450 MVZ #136187 1974-07-24
CAS74S0021	CASE, S CASE #451 MVZ #136188 1974-07-24
CAS74S0022	CASE, S CASE #452 MVZ #136189 1974-07-24
CAS74S0023	CASE, S CASE #453 MVZ #136190 1974-07-24
CAS78A0001	CASE, S ELECTROPHORETIC VARIATION IN TWO SUBSPECIES OF RANID FROGS, RANA BOYLEI AND R. MUSCOSA. COPEIA 1978(2): 311-320. 1978-XX-XX
DFW14D0001	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - CDFW AMPHIBIANS - HIGH MOUNTAIN LAKES DATABASE, COVERING 1995 TO 2013 FIELDWORK 2014-03-26
GRE82S0006	GREEN, D GREEN #1181 MVZ #178550 1982-07-11
HUE66S0001	HUEY, R HUEY #46 MVZ #80830 1966-07-22
HUE66S0002	HUEY, R HUEY #47 MVZ #80831 1966-07-22
HUE66S0003	HUEY, R HUEY #48 MVZ #80832 1966-07-22
HUE66S0004	HUEY, R HUEY #49 MVZ #80833 1966-07-22
JOH68S0002	JOHNSON, A JOHNSON #361 MVZ #84982 1968-08-15
KES60S0002	KESSEL, E KESSEL SN CAS #87814-87815 1960-10-01



California Department of Fish and Wildlife



HAL DIVERSITY DIST.		California Nati	ural Diversity Databa	se		
Map Index Number	: 93698		EO Index:		43029	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAABH01340	
Occurrence Numbe	er: 56		Occurrence Last U	pdated:	2014-09-19	
Scientific Name:	Rana sierrae		Common Name:	Sierra Ne	evada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
-	State:	Threatened	Other Lists:	CDFW_V	NL-Watch List	
CNDDB Element Ra	anks: Global:	G1			N-Endangered -Sensitive	
	State:	S1		0010_0	-Sensitive	
General Habitat:			Micro Habitat:			
ALWAYS ENCOUN	TERED WITHIN A F	EW FEET OF WATER. TADPOLE	ES 🗆			
MAY REQUIRE 2 - 4 DEVELOPMENT.	4 YRS TO COMPLE	TE THEIR AQUATIC				
Last Date Observed	d: 2013-07-09		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2013-07-09		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	int				
Location:						
VICINITY OF WHEE	ELER LAKE, MOKEL	UMNE WILDERNESS, NORTH C	OF LAKE ALPINE.			
Detailed Location:						
		EC 27, WHEELER LAKE TRIBUT KE AND DOWNSTREAM TO FIR				
Ecological:						
Threats:						
TROUT PRESENT I	N 1993. NO BD COI	JLD BE DETECTED IN 2010.				
General:						
		TS IN 2001. PRESENT 2003. 3 AI RVAE IN 2010. 4 ADULTS AND 4				E IN 2008. 2
PLSS: T08N, R18	E, Sec. 27, NE (M)	Accuracy:	non-specific area		Area (acres):	65
UTM: Zone-11 N4	4267764 E240322	Latitude/Longitude:	38.52041 / -119.97856		Elevation (feet):	7,900
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	58)			
Sources:						
		1993 ANURAN SURVEY WITH I ACIFIC CHORUS FROGS & WES				FOOTHILL
		TMENT OF FISH & GAME - FIEL SH AND FROG SURVEY 2001-08		SITE ID 1	5145 FROM "FATS" DATABASE	E FOR 2001
DFG01U0001 M	ILLIRON, C. ET AL.		F FISH AND WILDLIFE) - F		AMPHIBIAN TRACKING SYSTE	M (FATS)

- ACCESS DATABASE, RESULTS OF 2001 HIGH ELEVATION LAKE SURVEYS 2001-XX-XX
- DFW14D0001 CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - CDFW AMPHIBIANS - HIGH MOUNTAIN LAKES DATABASE, COVERING 1995 TO 2013 FIELDWORK 2014-03-26
- U.S. FOREST SERVICE-REGION 5 NATURAL RESOURCE INFORMATION SYSTEM (NRIS) ANIMAL RECORDS FROM CALIFORNIA USFNDD0002 NATIONAL FORESTS XXXX-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	44736		EO Index:		44736	
Key Quad:	Carson Pass (3811968)	Element Code: A		AAABH01340	
Occurrence Number:	74		Occurrence Last U	pdated:	2014-09-09	
Scientific Name: R	ana sierrae		Common Name:	Sierra Nev	vada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:		L-Watch List	
CNDDB Element Ranks	: Global:	G1		USFS_S-S	-Endangered Sensitive	
	State:	S1		_		
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YR DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Observed:	1958-07-24		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2001-06-28		Occurrence Rank:	Unknown		
Owner/Manager:	DFG-RED LAK	E WA	Trend:	Unknowr	I	
Presence:	Presumed Exta	nt				
Location:						
RED LAKE, EAST OF C	ARSON PASS A	ND SOUTH OF HIGHWAY 88.				
Detailed Location:						
Ecological:						
Threats:						
General: ONE ADULT COLLECT 2001.	ED 24 JUL 1958	BY MCINTYRE. NONE WERE FO	OUND HERE DURING A H	IGH MOUN	TAIN LAKE BASELINE SURVI	EY ON 28 J
PLSS: T10N, R18E, S	ec. 23 (M)	Accuracy:	specific area		Area (acres):	76
	7573 E241309	Latitude/Longitude:	38.69898 / -119.97462		Elevation (feet):	8,000
UTM: Zone-11 N4287		Quad Summary:				
		Quad Summary: Carson Pass (3811968	3)			

MCI58S0001 MCINTYRE, T. - MCINTYRE #3 MVZ #67330 1958-07-24



California Department of Fish and Wildlife



Map Index Number:	44742 Carson Pass (3811968) 77		EO Index:		44742 AAABH01340	
Key Quad:			Element Code:			
Occurrence Number:			Occurrence Last U	Occurrence Last Updated: 20		014-09-09
cientific Name: Rana sierrae		Common Name:	Sierra Nevada yellow-legged frog			
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	CDFW_WL-Watch List IUCN_EN-Endangered USFS_S-Sensitive		
CNDDB Element Rank	s: Global:	G1				
	State:	S1				
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YF DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Observed:	1956-06-30		Occurrence Type:	Natural/Native occurrence		
Last Survey Date:	1956-06-30		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYABE NF		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
FAITH VALLEY, ABOU	T 2 MILES SOUT	THEAST OF HIGHWAY 88, 3 AIR I	MILES ESE OF CARSON I	PASS.		
Detailed Location:						
	TIES DESCRIBE	D ONLY AS "FAITH VALLEY."				
Ecological:						
Threats:						
General:						
		UL 1939, AND BY KARLSTROM (Area (acres):	
PLSS: T10N, R19E, S			non-specific area			138
UTM: Zone-11 N428	5673 E245116	Latitude/Longitude:	38.68298 / -119.93019		Elevation (feet):	7,500
County Summary: Quad Summary:						
Alpine Carson Pass (3811968)		3)				
Sources:						
KAR56S0002 KARLSTROM, E KARLSTROM #980 MVZ #68056 1956-06			56-06-30			
KAR56S0003 KARL	RLSTROM #981 MVZ #68057 195	56-06-30				
	0007 SMITH, R SMITH SN MVZ #32614-32617 1939-07-26					



California Department of Fish and Wildlife



			al Diversity Databa		~
Map Index Number:	93928		EO Index:		44762
Key Quad:	Pacific Valley (3811958)	Element Code:		AAABH01340
Occurrence Number:	82		Occurrence Last U	pdated:	2014-09-23
Scientific Name: R	ana sierrae		Common Name:	Sierra Ne	vada yellow-legged frog
Listing Status:	Federal:	Endangered	Rare Plant Rank:		
	State:	Threatened	Other Lists:		/L-Watch List
NDDB Element Ranks	s: Global:	G1		IUCN_EN USFS_S-	I-Endangered Sensitive
	State:	S1		00.0_0	
eneral Habitat:			Micro Habitat:		
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YF DEVELOPMENT.		W FEET OF WATER. TADPOLES E THEIR AQUATIC	3 🗆		
ast Date Observed:	2013-08-25		Occurrence Type:	Natural/I	Native occurrence
ast Survey Date:	2013-08-25		Occurrence Rank:	Fair	
Owner/Manager:	USFS-STANISL	AUS NF	Trend:	Unknow	n
resence:	Presumed Extar	ıt			
ocation:					
	V. SOUTH OF HIC	GHWAY 4, SW OF PACIFIC GRAD	DE SUMMIT, STANISLAU	S NATION	AL FOREST.
TANISLAUS MEADOV	.,				
	.,				
Detailed Location:	CCORDING TO (DATABASE	E. SEVERAL COLLECTIONS BY MILLER
Detailed Location: MAPPED BY CNDDB A ROM "4 MI W LOOKO	CCORDING TO (GIS POINTS FROM THE CDFW H 13 SEP 1943 ARE ATTRIBUTED		DATABASE	E. SEVERAL COLLECTIONS BY MILLER
Detailed Location: MAPPED BY CNDDB A ROM "4 MI W LOOKO	CCORDING TO (DATABASE	E. SEVERAL COLLECTIONS BY MILLER
Petailed Location: MAPPED BY CNDDB A ROM "4 MI W LOOKO Scological: hreats:	CCORDING TO C UT PEAK" FROM	13 SEP 1943 ARE ATTRIBUTED		DATABASE	E. SEVERAL COLLECTIONS BY MILLER
Detailed Location: MAPPED BY CNDDB A FROM "4 MI W LOOKO Ecological: Ihreats: BD WAS DETECTED H	CCORDING TO C UT PEAK" FROM	13 SEP 1943 ARE ATTRIBUTED		DATABASE	E. SEVERAL COLLECTIONS BY MILLER
Detailed Location: MAPPED BY CNDDB A FROM "4 MI W LOOKO Ecological: I'hreats: BD WAS DETECTED H General: DETECTED IN 1943, 20	CCORDING TO C UT PEAK" FROM ERE IN 2008 AND 105, 2008, 2009, 2	2010, 2012, AND 2013. POPULATI	HERE.		E. SEVERAL COLLECTIONS BY MILLER
Detailed Location: MAPPED BY CNDDB A FROM "4 MI W LOOKO Ecological: Ihreats: 3D WAS DETECTED H General: DETECTED IN 1943, 20 LARVAE WERE OBSEF	CCORDING TO C UT PEAK" FROM ERE IN 2008 AND 05, 2008, 2009, 2 VED DURING V	2010, 2012, AND 2013. POPULATI	HERE.		
Detailed Location: MAPPED BY CNDDB A FROM "4 MI W LOOKO Ecological: Threats: BD WAS DETECTED H General: DETECTED IN 1943, 20 ARVAE WERE OBSEF PLSS: T08N, R19E, S	CCORDING TO C UT PEAK" FROM ERE IN 2008 AND 05, 2008, 2009, 2 VED DURING V/ ec. 31, W (M)	2010, 2012, AND 2013. POPULATI ARIOUS YEARS.	HERE. IONS AS HIGH AS 35 AD		SUBADULTS, 15 METAMORPHS, AND 73
Detailed Location: MAPPED BY CNDDB A FROM "4 MI W LOOKO Ecological: Ihreats: BD WAS DETECTED H General: DETECTED IN 1943, 20 LARVAE WERE OBSEF PLSS: T08N, R19E, S	CCORDING TO C UT PEAK" FROM ERE IN 2008 AND 05, 2008, 2009, 2 VED DURING V/ ec. 31, W (M)	13 SEP 1943 ARE ATTRIBUTED D 2010. 2010, 2012, AND 2013. POPULATI ARIOUS YEARS. Accuracy:	HERE. IONS AS HIGH AS 35 AD specific area		9 SUBADULTS, 15 METAMORPHS, AND 73 Area (acres): 15



California Department of Fish and Wildlife



Sources:	
DFW14D0001	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE - CDFW AMPHIBIANS - HIGH MOUNTAIN LAKES DATABASE, COVERING 1995 TO 2013 FIELDWORK 2014-03-26
MIL43S0001	MILLER, A MILLER #4633 MVZ #39429 1943-09-13
MIL43S0002	MILLER, A MILLER #4634 MVZ #39430 1943-09-13
MIL43S0003	MILLER, A MILLER #4635 MVZ #39431 1943-09-13
MIL43S0004	MILLER, A MILLER #4637 MVZ #39432 1943-09-13
MIL43S0005	MILLER, A MILLER #4638 MVZ #39433 1943-09-13
MIL43S0006	MILLER, A MILLER #4639 MVZ #39434 1943-09-13
MIL43S0007	MILLER, A MILLER #4640 MVZ #39435 COLLECTED 4 MI W LOOKOUT PEAK 1943-09-13
MIL43S0008	MILLER, A MILLER #4641 MVZ #39436 1943-09-13
MIL43S0009	MILLER, A MILLER #4642 MVZ #39437 1943-09-13
MIL43S0010	MILLER, A MILLER #4643 MVZ #39438 1943-09-13
MIL43S0011	MILLER, A MILLER #4644 MVZ #39439 COLLECTED 4 MI W LOOKOUT PEAK 1943-09-13
MIL43S0012	MILLER, A MILLER #4645 MVZ #39440 1943-09-13
MIL43S0013	MILLER, A MILLER #4646 MVZ #39441 1943-09-13
MIL43S0014	MILLER, A MILLER #4636 MVZ #39442 1943-09-13



California Department of Fish and Wildlife



VERSTU				_	
Map Index Numbe	er: 4	4860		EO Index:	44860
Key Quad:	E	bbetts Pass	(3811957)	Element Code:	AAABH01340
Occurrence Numb	ber: 1	00		Occurrence Last U	odated: 2014-09-23
cientific Name:	Rana	n sierrae		Common Name:	Sierra Nevada yellow-legged frog
isting Status:		Federal:	Endangered	Rare Plant Rank:	
		State:	Threatened	Other Lists:	CDFW_WL-Watch List
CNDDB Element F	Ranks:	Global:	G1		IUCN_EN-Endangered USFS S-Sensitive
		State:	S1		
eneral Habitat:				Micro Habitat:	
			EW FEET OF WATER. TADPOI TE THEIR AQUATIC	LES 🗆	
ast Date Observe	ed: 19	81-08-01		Occurrence Type:	Natural/Native occurrence
ast Survey Date:	: 20)13-08-11		Occurrence Rank:	None
wner/Manager:	U	SFS-TOIYAB	E NF	Trend:	Unknown
Presence:	Po	ossibly Extirpa	ated		
ocation:					
IOBLE LAKE, 0.7	MILE NE	OF TRYON	PEAK, 2.2 MILES SE OF EBBE	TTS PASS, TOIYABE NATIO	DNAL FOREST.
Detailed Location	:				
	CALITY (GIVEN AS "N	OBEL LAKE, 2.4 MI SE EBBET	TS PASS."	
cological:					
hreats:					
			G 1981; TAXONOMY CONFIRM ON 29 JUL 2004, 25 JUN 2012		007). NONE WERE FOUND DURING SURVEYS A
PLSS: T08N, R2			Accuracy:	non-specific area	Area (acres): 4
		1 E257903	Latitude/Longitude	·	Elevation (feet): 8,880
county Summary			Quad Summary:		
lpine	•		Ebbetts Pass (38119)57)	
				57)	
				E - CDFW AMPHIBIANS - HI	GH MOUNTAIN LAKES DATABASE, COVERING
		FIELDWORK	346 MVZ #180142 1981-08-01		
	-				
		SAGE #10	34/ 1/1/2 #100143 1901-00-01		
AG81S0003 S	-		347 MVZ #180143 1981-08-01 393 MVZ #180160 1981-08-01		
	SAGE, R	SAGE #10	393 MVZ #180160 1981-08-01		
AG81S0004 S	SAGE, R SAGE, R	SAGE #10 SAGE #10			
SAG81S0004 S SAG81S0005 S	SAGE, R SAGE, R SAGE, R	SAGE #10 SAGE #10 SAGE #10	393 MVZ #180160 1981-08-01 348 MVZ #180161 1981-08-01	L LAKE, 2.4 MI SE EBBFTT	S PASS 1981-08-01



California Department of Fish and Wildlife



Map Index Number:	44935		EO Index:		44935	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		AAABH01340	
Occurrence Number	: 114		Occurrence Last U	pdated:	2014-09-10	
Scientific Name:	Rana sierrae		Common Name:	Sierra Ne	evada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	_	VL-Watch List	
CNDDB Element Ran	ks: Global:	G1			N-Endangered -Sensitive	
	State:	S1		_		
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTE MAY REQUIRE 2 - 4 ` DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Observed:	2007-08-21		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2007-08-21		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-ELDOR/	ADO NF	Trend:	Unknow	'n	
Dresence	Due evine e d. C. de					
Presence:	Presumed Exta	ant				
	Presumed Exta	ant				
Location:		ant ON OF INDIAN VALLEY, JUST NO	ORTH OF MOKELUMNE W	/ILDERNE	SS, ELDORADO NATIONAL F	OREST.
Location: ALONG CREEK IN SC			ORTH OF MOKELUMNE W	'ILDERNE	SS, ELDORADO NATIONAL F	OREST.
Location: ALONG CREEK IN SC Detailed Location:			ORTH OF MOKELUMNE W	'ILDERNE	SS, ELDORADO NATIONAL F	OREST.
Location: ALONG CREEK IN SO Detailed Location: Ecological:			ORTH OF MOKELUMNE W	ILDERNE	SS, ELDORADO NATIONAL F	OREST.
Location: ALONG CREEK IN SC Detailed Location: Ecological: Threats:	DUTHERN PORTI		ORTH OF MOKELUMNE W	'ILDERNE	SS, ELDORADO NATIONAL F	OREST.
Location: ALONG CREEK IN SO Detailed Location: Ecological: Threats: THREATENED BY PF	DUTHERN PORTI	ON OF INDIAN VALLEY, JUST NO	ORTH OF MOKELUMNE W	'ILDERNE	SS, ELDORADO NATIONAL F	OREST.
Location: ALONG CREEK IN SC Detailed Location: Ecological: Threats: THREATENED BY PF General:	DUTHERN PORTIO	ON OF INDIAN VALLEY, JUST NO				
Location: ALONG CREEK IN SC Detailed Location: Ecological: Threats: THREATENED BY PF General:	DUTHERN PORTIO RESENCE OF RAII	ON OF INDIAN VALLEY, JUST NO				
Location: ALONG CREEK IN SC Detailed Location: Ecological: Threats: THREATENED BY PF General: 2 ADULTS OBSERVE PLSS: T09N, R19E,	DUTHERN PORTIO RESENCE OF RAII	ON OF INDIAN VALLEY, JUST NO NBOW TROUT IN STREAM. 4. 4 OBSERVED IN JUL 2003. 1 C	DBSERVED ON 28 JUN 20		LT OBSERVED 21 AUG 2007.	53
Location: ALONG CREEK IN SC Detailed Location: Ecological: Threats: THREATENED BY PF General: 2 ADULTS OBSERVE PLSS: T09N, R19E,	DUTHERN PORTIO RESENCE OF RAII D ON 29 JUL 199 Sec. 34, S (M)	ON OF INDIAN VALLEY, JUST NO NBOW TROUT IN STREAM. 4. 4 OBSERVED IN JUL 2003. 1 C Accuracy:	DBSERVED ON 28 JUN 20 non-specific area		LT OBSERVED 21 AUG 2007. Area (acres):	53
Location: ALONG CREEK IN SO Detailed Location: Ecological: Threats: THREATENED BY PR General: 2 ADULTS OBSERVE PLSS: T09N, R19E, UTM: Zone-11 N42	DUTHERN PORTIO RESENCE OF RAII D ON 29 JUL 199 Sec. 34, S (M)	ON OF INDIAN VALLEY, JUST NO NBOW TROUT IN STREAM. 4. 4 OBSERVED IN JUL 2003. 1 C Accuracy: Latitude/Longitude:	DBSERVED ON 28 JUN 20 non-specific area 38.58654 / -119.87214		LT OBSERVED 21 AUG 2007. Area (acres):	53
Location: ALONG CREEK IN SC Detailed Location: Ecological: Threats: THREATENED BY PF General: 2 ADULTS OBSERVE PLSS: T09N, R19E, UTM: Zone-11 N42 County Summary:	DUTHERN PORTIO RESENCE OF RAII D ON 29 JUL 199 Sec. 34, S (M)	ON OF INDIAN VALLEY, JUST NO NBOW TROUT IN STREAM. 4. 4 OBSERVED IN JUL 2003. 1 C Accuracy: Latitude/Longitude: Quad Summary:	DBSERVED ON 28 JUN 20 non-specific area 38.58654 / -119.87214		LT OBSERVED 21 AUG 2007. Area (acres):	53
Location: ALONG CREEK IN SO Detailed Location: Ecological: Threats: THREATENED BY PF General: 2 ADULTS OBSERVE PLSS: T09N, R19E, UTM: Zone-11 N42 County Summary: Alpine Sources:	DUTHERN PORTIG RESENCE OF RAII D ON 29 JUL 1994 Sec. 34, S (M) 274809 E249831	ON OF INDIAN VALLEY, JUST NO NBOW TROUT IN STREAM. 4. 4 OBSERVED IN JUL 2003. 1 C Accuracy: Latitude/Longitude: Quad Summary:	DBSERVED ON 28 JUN 20 non-specific area 38.58654 / -119.87214 7)		LT OBSERVED 21 AUG 2007. Area (acres):	53
Location: ALONG CREEK IN SC Detailed Location: Ecological: Threats: THREATENED BY PF General: 2 ADULTS OBSERVE PLSS: T09N, R19E, UTM: Zone-11 N42 County Summary: Alpine Sources: ELL94F0008 ELL	DUTHERN PORTIG RESENCE OF RAII D ON 29 JUL 1994 Sec. 34, S (M) 74809 E249831	ON OF INDIAN VALLEY, JUST NO NBOW TROUT IN STREAM. 4. 4 OBSERVED IN JUL 2003. 1 C Accuracy: Latitude/Longitude: Quad Summary: Ebbetts Pass (381195)	DBSERVED ON 28 JUN 20 non-specific area 38.58654 / -119.87214 7) GCOSA 1994-07-29		LT OBSERVED 21 AUG 2007. Area (acres):	



California Department of Fish and Wildlife



Map Index Num	ber:	44936		EO Index:		44936	
Key Quad:	I	Pacific Valley	(3811958)	Element Code:		AAABH01340	
Occurrence Nur	mber:	115		Occurrence Last U	pdated:	2014-09-11	
Scientific Name	: Ran	a sierrae		Common Name:	Sierra Ne	evada yellow-legged frog	
Listing Status:		Federal:	Endangered	Rare Plant Rank:			
		State:	Threatened	Other Lists:		VL-Watch List	
CNDDB Elemen	t Ranks:	Global:	G1		USFS_S-	I-Endangered Sensitive	
		State:	S1		_		
General Habitat	:			Micro Habitat:			
	2 - 4 YRS		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	ES 🗆			
Last Date Obser	rved: 2	008-08-13		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Dat	te: 2	008-08-13		Occurrence Rank:	Unknow	n	
Owner/Manager	r: U	SFS-ELDOR	ADO NF	Trend:	Unknow	n	
Presence:	Р	resumed Exta	int				
Location:							
DEADWOOD LA	KE, ABOL	JT A MILE WE	EST OF MEADOW LAKE, MOKEL	UMNE WILDERNESS.			
Detailed Locatio	on:						
Ecological:							
-							
Threats: BD WAS DETEC	TED HER	E IN 2008.					
Threats: BD WAS DETEC General:							
Threats: 3D WAS DETEC General: 2 ADULTS AND	5 TADPO	LES DETECTI	ED ON 3 SEP 1995. 18 DETECT 2. 1 ADULT AND 3 SUBADULTS I		AGE CLAS	SS INFORMATION WAS PROV	'IDED. 12
	5 TADPOI ETECTED	LES DETECTI 14 AUG 2002			AGE CLAS	SS INFORMATION WAS PROV Area (acres):	'IDED. 12 2
Threats: BD WAS DETEC General: 2 ADULTS AND SUBADULTS DE PLSS: T09N, F	5 TADPOI ETECTED R18E, Sec	LES DETECTI 14 AUG 2002	2. 1 ADULT AND 3 SUBADULTS I	DETECTED 13 AUG 2008.	AGE CLAS		
Threats: BD WAS DETEC General: 2 ADULTS AND SUBADULTS DE PLSS: T09N, F	5 TADPOI ETECTED R18E, Sec 1 N427677	LES DETECTI 14 AUG 2002 . 27, SW (M)	2. 1 ADULT AND 3 SUBADULTS I Accuracy:	DETECTED 13 AUG 2008. specific area	AGE CLAS	Area (acres):	2
Threats: BD WAS DETEC General: 2 ADULTS AND SUBADULTS DE PLSS: T09N, F UTM: Zone-17 County Summa	5 TADPOI ETECTED R18E, Sec 1 N427677	LES DETECTI 14 AUG 2002 . 27, SW (M)	2. 1 ADULT AND 3 SUBADULTS I Accuracy: Latitude/Longitude:	DETECTED 13 AUG 2008. specific area 38.60126 / -119.99089	AGE CLAS	Area (acres):	2
Threats: BD WAS DETEC General: 2 ADULTS AND SUBADULTS DE PLSS: T09N, F UTM: Zone-17 County Summar	5 TADPOI ETECTED R18E, Sec 1 N427677	LES DETECTI 14 AUG 2002 . 27, SW (M)	2. 1 ADULT AND 3 SUBADULTS I Accuracy: Latitude/Longitude: Quad Summary:	DETECTED 13 AUG 2008. specific area 38.60126 / -119.99089	AGE CLAS	Area (acres):	2
Threats: BD WAS DETEC General: 2 ADULTS AND SUBADULTS DE PLSS: T09N, F UTM: Zone-1 ⁷ County Summa Alpine Sources:	5 TADPOI ETECTED R18E, Sec 1 N427677 ry: CALIFOI	LES DETECTI 14 AUG 2002 . 27, SW (M) 73 E239539	2. 1 ADULT AND 3 SUBADULTS I Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (381195	DETECTED 13 AUG 2008. specific area 38.60126 / -119.99089 58)		Area (acres): Elevation (feet):	2 8,550
Threats: BD WAS DETEC General: 2 ADULTS AND SUBADULTS DE PLSS: T09N, F UTM: Zone-11	5 TADPO TECTED R18E, Sec 1 N427677 ry: CALIFO TO 2013	LES DETECTI 14 AUG 2002 . 27, SW (M) 73 E239539 RNIA DEPAR [*] 8 FIELDWORK	2. 1 ADULT AND 3 SUBADULTS I Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (381195	DETECTED 13 AUG 2008. specific area 38.60126 / -119.99089 58) - CDFW AMPHIBIANS - HI		Area (acres): Elevation (feet):	2 8,550



California Department of Fish and Wildlife



Map Index Num	ber.	44937			EO Index:		44937		
Key Quad:		Pacific Valley	(3811958)		Element Code:		AAABH01	1340	
Occurrence Nu	mber:	116	(0011000)		Occurrence Last U	pdated:	2014-09-		
						-			
Scientific Name	e: Ra	na sierrae			Common Name:	Sierra Ne	vada yellov	v-legged frog	
Listing Status:		Federal:	Endangered	I	Rare Plant Rank:				
		State:	Threatened		Other Lists:		/L-Watch Li I-Endanger		
CNDDB Elemer	nt Ranks:	Global:	G1			USFS_S-		eu	
		State:	S1						
General Habita	t:				Micro Habitat:				
ALWAYS ENCO MAY REQUIRE DEVELOPMEN	2 - 4 YRS		-	WATER. TADPOLE UATIC	S 🗆				
Last Date Obse	erved:	2012-08-19			Occurrence Type:	Natural/N	Native occu	rrence	
Last Survey Da	ite:	2012-08-19			Occurrence Rank:	Fair			
Owner/Manage	r:	USFS-ELDORA	ADO NF		Trend:	Unknow	n		
Presence:		Presumed Exta	nt						
ocation:									
	VOOD CA	NYON CREEK	, ABOUT 1.5 N	MILES WEST OF M	EADOW LAKE, MOKELUM	INE WILDE	ERNESS.		
LONG DEADV Detailed Locati	on:				·				
ALONG DEADV Detailed Locati MAPPED BY CI	on: NDDB TO	INCLUDE TRA			EADOW LAKE, MOKELUM -BELTED FROGS, AS WEL			DM US FOREST SEF	RVICE AND
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME	on: NDDB TO	INCLUDE TRA			·			OM US FOREST SEF	RVICE AND
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological:	on: NDDB TO	INCLUDE TRA			·			DM US FOREST SEF	RVICE AND
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological: Threats:	on: NDDB TO NT OF F	INCLUDE TRA SH AND WILD	ACKED MOVEI LIFE.		·			OM US FOREST SEF	RVICE AND
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological: Fhreats: BD WAS DETEG	on: NDDB TO NT OF F	INCLUDE TRA SH AND WILD	ACKED MOVEI LIFE.		·			DM US FOREST SEF	RVICE AND
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological: Fhreats: BD WAS DETEC General: DBSERVED HE	on: NDDB TO NT OF FI CTED HE	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996	CKED MOVEI LIFE. D 2010. , 2000, 2001, 2	MENTS OF RADIO 2002, 2003, 2008, 2	·	LL AS GIS	DATA FRC		
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological: Threats: BD WAS DETEC General: DBSERVED HE METAMORPHS	on: NDDB TO NT OF F CTED HE RE IN 19 , 376 LAF	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 VAE, AND 7 E	CKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES 1	MENTS OF RADIO 2002, 2003, 2008, 2	BELTED FROGS, AS WEL	LL AS GIS	DATA FRC		
LONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Cological: Threats: BD WAS DETEC General: DBSERVED HE METAMORPHS PLSS: T09N,	on: NDDB TO NT OF FI CTED HE RE IN 19 , 376 LAF R18E, Se	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 VAE, AND 7 E	CKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES 1 Acc	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVED	-BELTED FROGS, AS WEL 010, AND 2012. POPULAT 0 IN CERTAIN YEARS.	LL AS GIS	DATA FRC	7 ADULTS, 153 SUB	ADULTS, 23
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological: Threats: BD WAS DETEC General: DBSERVED HE METAMORPHS PLSS: T09N, JTM: Zone-1	on: NDDB TO NT OF F CTED HE RE IN 19 , 376 LAF R18E, Se 1 N4276	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 VAE, AND 7 E c. 28 (M)	CKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES 1 Acc Lat	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVED curacy: titude/Longitude:	-BELTED FROGS, AS WEL 010, AND 2012. POPULAT IN CERTAIN YEARS. non-specific area	LL AS GIS	DATA FRC	7 ADULTS, 153 SUB Area (acres):	ADULTS, 23 82
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Cological: Threats: BD WAS DETEC General: DBSERVED HE METAMORPHS PLSS: T09N, JTM: Zone-1 County Summa	on: NDDB TO NT OF F CTED HE RE IN 19 , 376 LAF R18E, Se 1 N4276	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 VAE, AND 7 E c. 28 (M)	CKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES Acc Lat	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVEE curacy: titude/Longitude: ad Summary:	-BELTED FROGS, AS WEL 010, AND 2012. POPULAT 0 IN CERTAIN YEARS. non-specific area 38.60086 / -119.99838	LL AS GIS	DATA FRC	7 ADULTS, 153 SUB Area (acres):	ADULTS, 23 82
Detailed Locati MAPPED BY Ch CA DEPARTME Ecological: Threats: BD WAS DETEC General: OBSERVED HE METAMORPHS PLSS: T09N, UTM: Zone-1 County Summa Alpine	on: NDDB TO NT OF F CTED HE RE IN 19 , 376 LAF R18E, Se 1 N4276	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 VAE, AND 7 E c. 28 (M)	CKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES Acc Lat	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVEE curacy: titude/Longitude: ad Summary:	-BELTED FROGS, AS WEL 010, AND 2012. POPULAT IN CERTAIN YEARS. non-specific area	LL AS GIS	DATA FRC	7 ADULTS, 153 SUB Area (acres):	ADULTS, 23 82
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological: Threats: BD WAS DETEC General: DBSERVED HE METAMORPHS PLSS: T09N, JTM: Zone-1 County Summa	on: NDDB TO NT OF F CTED HE RE IN 19 , 376 LAF R18E, Se 1 N42767 ary: CALIFO	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 RVAE, AND 7 E c. 28 (M) 250 E238885	CKED MOVEL LIFE. D 2010. , 2000, 2001, 2 GG MASSES Acc Lat Pac	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVED curacy: titude/Longitude: nad Summary: cific Valley (381195	-BELTED FROGS, AS WEL 010, AND 2012. POPULAT 0 IN CERTAIN YEARS. non-specific area 38.60086 / -119.99838	LL AS GIS IONS AS H 051)	DATA FRC	7 ADULTS, 153 SUB Area (acres): Elevation (feet):	ADULTS, 2 82 8,300
ALONG DEADW Detailed Locati MAPPED BY Ch CA DEPARTME Cological: Threats: 3D WAS DETEC BOBSERVED HE METAMORPHS PLSS: T09N, JTM: Zone-1 County Summa Appine County Summa Appine	on: NDDB TO NT OF FI CTED HE RE IN 19 , 376 LAF R18E, Se 1 N42767 ary: CALIFC TO 201	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 RVAE, AND 7 E c. 28 (M) 750 E238885 DRNIA DEPAR 3 FIELDWORK	ACKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES Acc Lat Pac TMENT OF FIS : 2014-03-26	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVED curacy: titude/Longitude: nad Summary: cific Valley (381195	BELTED FROGS, AS WEL 010, AND 2012. POPULAT 0 IN CERTAIN YEARS. non-specific area 38.60086 / -119.99838 8), Mokelumne Peak (38120 - CDFW AMPHIBIANS - HI	LL AS GIS IONS AS H 051)	DATA FRC	7 ADULTS, 153 SUB Area (acres): Elevation (feet):	ADULTS, 2 82 8,300
ALONG DEADW Detailed Locati MAPPED BY Ch CA DEPARTME Ecological: Threats: 3D WAS DETEG General: DBSERVED HE METAMORPHS PLSS: T09N, JTM: Zone-1 County Summa Alpine Sources: DFW14D0001 ELL95F0012	on: NDDB TO NT OF F CTED HE RE IN 19 , 376 LAF R18E, Se 1 N42767 ary: CALIFC TO 201 ELLIO1 U.S. FC	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 VAE, AND 7 E c. 28 (M) 750 E238885 DRNIA DEPAR 3 FIELDWORK T, G FIELD S	ACKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES Act Lat Pac TIMENT OF FIS 2014-03-26 SURVEY FORI CE-REGION 5	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVED curacy: titude/Longitude: ad Summary: cific Valley (381195 SH AND WILDLIFE M FOR RANA MUS - NATURAL RESO	BELTED FROGS, AS WEL 010, AND 2012. POPULAT 0 IN CERTAIN YEARS. non-specific area 38.60086 / -119.99838 8), Mokelumne Peak (38120 - CDFW AMPHIBIANS - HI	LL AS GIS IONS AS H 051) GH MOUN	DATA FRC HIGH AS 27	7 ADULTS, 153 SUB Area (acres): Elevation (feet): ES DATABASE, COV	ADULTS, 23 82 8,300 /ERING 199
ALONG DEADV Detailed Locati MAPPED BY CI CA DEPARTME Ecological: Threats: 3D WAS DETEC BOBSERVED HE METAMORPHS PLSS: T09N, JTM: Zone-1 County Summa Alpine Sources:	on: NDDB TO NT OF F CTED HE RE IN 19 , 376 LAF R18E, Se 1 N42767 ary: CALIFC TO 201 ELLIO1 U.S. FC NATIO VREDE MUSCO	INCLUDE TRA SH AND WILD RE IN 2008 AN 93, 1995, 1996 VAE, AND 7 E c. 28 (M) 750 E238885 DRNIA DEPAR 3 FIELDWORK T, G FIELD S DREST SERVIO NAL FORESTS SNBURG, V. ET DSA IN NORTH	ACKED MOVEI LIFE. D 2010. , 2000, 2001, 2 GG MASSES Act Lat Pac TIMENT OF FIS 2014-03-26 SURVEY FORI CE-REGION 5 XXXX-XX-XX AL. (MUSEUI IERN SIERRA	MENTS OF RADIO 2002, 2003, 2008, 2 WERE OBSERVED curacy: titude/Longitude: ad Summary: cific Valley (381195 SH AND WILDLIFE M FOR RANA MUS - NATURAL RESO	-BELTED FROGS, AS WEL 010, AND 2012. POPULAT 0 IN CERTAIN YEARS. non-specific area 38.60086 / -119.99838 B), Mokelumne Peak (38120 - CDFW AMPHIBIANS - HI COSA 1995-09-03	LL AS GIS IONS AS H 051) GH MOUN STEM (NRI S OF HABI	DATA FRC HIGH AS 27 ITAIN LAKE S) ANIMAL TAT USE 8	7 ADULTS, 153 SUB Area (acres): Elevation (feet): ES DATABASE, COV	ADULTS, 2 82 8,300 /ERING 199 CALIFORNI ANA



California Department of Fish and Wildlife



VERSIT									
Map Index Num	nber:	44938			EO Index:		44938		
(ey Quad:		Pacific Valley	(3811958)		Element Code:		AAABH01340		
Occurrence Nu	mber:	117			Occurrence Last U	pdated:	2014-09-11		
Scientific Name	e: Ran	a sierrae			Common Name:	Sierra Ne	evada yellow-legged	l frog	
isting Status:		Federal:	Endangere	d	Rare Plant Rank:				
		State:	Threatened	t	Other Lists:		VL-Watch List		
CNDDB Elemer	nt Ranks:	Global:	G1				N-Endangered -Sensitive		
		State:	S1						
General Habita	t:				Micro Habitat:				
LWAYS ENCO IAY REQUIRE EVELOPMEN	2 - 4 YRS			WATER. TADPOLE QUATIC	ES 🗆				
ast Date Obse	erved: 2	013-07-04			Occurrence Type:	Natural/	Native occurrence		
ast Survey Da	te: 2	013-07-04			Occurrence Rank:	Fair			
)wner/Manage	r: L	ISFS-ELDOR	ADO NF		Trend:	Unknow	'n		
resence:	F	resumed Exta	ant						
ocation: EER CREEK, etailed Locati		INDIAN VALL	.EY, APPROX	(IMATELY 1.5 MILE)	S SE OF TAMARACK LAKE	E, ELDORA	ADO NATIONAL FC	DREST.	
Deter CREEK, Detailed Locati Scological: Threats: RAINBOW TRO General: DETECTED IN	on: UT PRESI 1995, 1996	ENT IN LOWE	ER PORTION 2001, 2002, 2	OF STREAM REAC 2005, 2007, 2008, 20	H. BD WAS DETECTED IN 009, 2010, 2012, AND 2013.	2008 ANE . POPULA	0 2010.		S, 38
Detailed Locati Detailed Locati Cological: Threats: RAINBOW TRO General: DETECTED IN SUBADULTS, 5	on: DUT PRESI 1995, 1996 METAMO	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/	ER PORTION 2001, 2002, 2 ARVAE, AND	OF STREAM REAC 2005, 2007, 2008, 20	H. BD WAS DETECTED IN	2008 ANE . POPULA	D 2010. TIONS AS HIGH AS	S 12 ADULT	S, 38 59
Detailed Locati Cological: Cological: Chreats: RAINBOW TRO General: DETECTED IN CUBADULTS, 5 PLSS: T09N,	on: UT PRESE 1995, 1996 METAMO R19E, Sec	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/	ER PORTION 2001, 2002, 2 ARVAE, AND ARVAE, AND	OF STREAM REAC 2005, 2007, 2008, 20 1 EGG MASS WER	H. BD WAS DETECTED IN 009, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN	2008 ANE . POPULA	D 2010. TIONS AS HIGH AS Area (
Location: DEER CREEK, Detailed Locati Ecological: Threats: RAINBOW TRO General: DETECTED IN SUBADULTS, 5 PLSS: T09N, JTM: Zone-1	on: UT PRESI 1995, 1996 METAMO R19E, Sec 1 N42755	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/ 5. 33, E (M)	ER PORTION 2001, 2002, 2 ARVAE, AND Ar La	OF STREAM REAC 2005, 2007, 2008, 2(1 EGG MASS WER ccuracy:	H. BD WAS DETECTED IN 209, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN non-specific area	2008 ANE . POPULA	D 2010. TIONS AS HIGH AS Area (S 12 ADULT acres):	59
Cocation: DEER CREEK, Detailed Locati Ecological: Threats: RAINBOW TRO General: DETECTED IN SUBADULTS, 5 PLSS: T09N, JTM: Zone-1 County Summa	on: UT PRESI 1995, 1996 METAMO R19E, Sec 1 N42755	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/ 5. 33, E (M)	ER PORTION 2001, 2002, 2 ARVAE, AND Ar La Qu	OF STREAM REAC 2005, 2007, 2008, 20 1 EGG MASS WER ccuracy: atitude/Longitude:	H. BD WAS DETECTED IN 2009, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN non-specific area 38.59275 / -119.88525	2008 ANE . POPULA	D 2010. TIONS AS HIGH AS Area (S 12 ADULT acres):	59
Cocation: DEER CREEK, Detailed Locati Scological: Threats: RAINBOW TRO General: DETECTED IN SUBADULTS, 5 PLSS: T09N, ITM: Zone-1 County Summa	on: UT PRESI 1995, 1996 METAMO R19E, Sec 1 N42755	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/ 5. 33, E (M)	ER PORTION 2001, 2002, 2 ARVAE, AND Ar La Qu	OF STREAM REAC 2005, 2007, 2008, 20 1 EGG MASS WER ccuracy: atitude/Longitude: uad Summary:	H. BD WAS DETECTED IN 2009, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN non-specific area 38.59275 / -119.88525	2008 ANE . POPULA	D 2010. TIONS AS HIGH AS Area (S 12 ADULT acres):	59
Cocation: DEER CREEK, Detailed Locati Scological: Threats: RAINBOW TRO General: DETECTED IN SUBADULTS, 5 DESS: T09N, ITM: Zone-1 County Summa Sources:	on: UT PRESI 1995, 1996 METAMO R19E, Sec 1 N42755: ary: CALIFO	ENT IN LOWE 6, 1997, 2000, RPHS, 452 L/ 33, E (M) 34 E248711	ER PORTION 2001, 2002, 2 ARVAE, AND La La Pa TMENT OF F	OF STREAM REAC 2005, 2007, 2008, 20 1 EGG MASS WER ccuracy: atitude/Longitude: uad Summary: acific Valley (381195	H. BD WAS DETECTED IN 2009, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN non-specific area 38.59275 / -119.88525	2008 ANE . POPULA I YEARS.	0 2010. TIONS AS HIGH AS Area (Elevat	S 12 ADULT (acres): tion (feet):	59 7,700
Cocation: DEER CREEK, Detailed Locati Scological: Threats: RAINBOW TRO General: DETECTED IN SUBADULTS, 5 DESS: T09N, JTM: Zone-1 County Summa Jpine Sources: DFW14D0001	on: UT PRESE 1995, 1996 METAMO R19E, Sec 1 N42755: ary: CALIFO TO 2013	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/ 5. 33, E (M) 34 E248711 RNIA DEPAR 3 FIELDWOR	ER PORTION 2001, 2002, 2 ARVAE, AND La La Pa TMENT OF F < 2014-03-26	OF STREAM REAC 2005, 2007, 2008, 20 1 EGG MASS WER ccuracy: atitude/Longitude: uad Summary: acific Valley (381195	H. BD WAS DETECTED IN 209, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN non-specific area 38.59275 / -119.88525 58) - CDFW AMPHIBIANS - Hit	2008 ANE . POPULA I YEARS.	0 2010. TIONS AS HIGH AS Area (Elevat	S 12 ADULT (acres): tion (feet):	59 7,700
Cocation: DEER CREEK, Detailed Locati Scological: Threats: RAINBOW TRO Deneral: DETECTED IN SUBADULTS, 5 PLSS: T09N, JTM: Zone-1 County Summa Aprine Sources: DFW14D0001 SLL95F0013	on: UT PRESE 1995, 1996 METAMO R19E, Sec 1 N42755: ary: CALIFO TO 2013 ELLIOT	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/ 33, E (M) 34 E248711 RNIA DEPAR 3 FIELDWORF FIELDWORF I, G FIELD	ER PORTION 2001, 2002, 2 ARVAE, AND Ac La 2014-03-26 SURVEY FOF	OF STREAM REAC 2005, 2007, 2008, 20 1 EGG MASS WER ccuracy: atitude/Longitude: uad Summary: acific Valley (381195 ISH AND WILDLIFE RM FOR RANA MUS	H. BD WAS DETECTED IN 209, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN non-specific area 38.59275 / -119.88525 58) - CDFW AMPHIBIANS - Hit	2008 ANE POPULA I YEARS.	D 2010. TIONS AS HIGH AS Area (Elevat	S 12 ADULT (acres): tion (feet):	59 7,700 VERING 19
Location: DEER CREEK, Detailed Locati Ecological: Threats: RAINBOW TRO General: DETECTED IN SUBADULTS, 5 PLSS: T09N,	on: UT PRESI 1995, 1996 METAMO R19E, Sec 1 N42755: ary: CALIFO TO 2013 ELLIOT LACAN, 2001-08 U.S. FO	ENT IN LOWE 5, 1997, 2000, RPHS, 452 L/ . 33, E (М) 34 E248711 . 34 E248711 . G FIELD : I. (U.S. FORE -14 REST SERVIQ	ER PORTION 2001, 2002, 2 ARVAE, AND La La Pa TMENT OF F < 2014-03-26 SURVEY FOF EST SERVICE	OF STREAM REAC 2005, 2007, 2008, 20 1 EGG MASS WER ccuracy: atitude/Longitude: uad Summary: acific Valley (381195 ISH AND WILDLIFE RM FOR RANA MUS E-PACIFIC SOUTHW 5 - NATURAL RESO	H. BD WAS DETECTED IN 209, 2010, 2012, AND 2013. E OBSERVED IN CERTAIN non-specific area 38.59275 / -119.88525 58) - CDFW AMPHIBIANS - HI SCOSA 1995-08-19	2008 ANE . POPULA I YEARS. GH MOUN	2 2010. TIONS AS HIGH AS Area (Elevat	S 12 ADULT (acres): tion (feet): ABASE, CO OR RANA M	59 7,700 VERING 19



California Department of Fish and Wildlife



	mber:	50206		EO Index:		50206	
Key Quad:		Ebbetts Pass	(3811957)	Element Code:		AAABH01340	
Occurrence Nu	umber:	162		Occurrence Last U	pdated:	2014-10-09	
Scientific Nam	ne: Rai	na sierrae		Common Name:	Sierra Ne	evada yellow-legged frog	
Listing Status:	:	Federal:	Endangered	Rare Plant Rank:			
		State:	Threatened	Other Lists:	_	VL-Watch List	
CNDDB Eleme	ent Ranks:	Global:	G1		USFS_S-	I-Endangered Sensitive	
		State:	S1		_		
General Habita	at:			Micro Habitat:			
	E 2 - 4 YRS		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Obs	erved: 2	2012-06-20		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Da	ate:	2012-06-20		Occurrence Rank:	Unknowr	n	
Owner/Manage	er:	JSFS-TOIYAB	E NF	Trend:	Unknowr	n	
Presence:	I	Presumed Exta	int				
Location:							
UPPER AND LO	OWER KIN	INEY LAKES,	1.3 MILES NW OF HIGHWAY 4 A	T EBBETTS PASS, TOIYA	BE NATIOI	NAL FOREST.	
	41 a.m.						
Detailed Locat	tion:						
	tion:						
Ecological: Threats:	uon:						
Ecological: Threats: General: LOWER KINNE	EY LAKE: 1		CTED IN 2001, 12 SUBADULTS ETECTED IN 2002, 1 ADULT AN		5, 2 ADUL ⁻	TS 2008, 1 ADULT 2010, 2 ADI	JLTS 2012
Ecological: Threats: General: LOWER KINNE UPPER KINNE	EY LAKE: 1 Y LAKE: 1	SUBADULT D			5, 2 ADUL ⁻	TS 2008, 1 ADULT 2010, 2 ADI Area (acres):	JLTS 2012 85
Ecological: Threats: General: LOWER KINNE UPPER KINNE PLSS: T08N,	EY LAKE: 1 EY LAKE: 1 , R20E, Se	SUBADULT D	ETECTED IN 2002, 1 ADULT AN	D 1 LARVA 2012.	5, 2 ADUL ⁻		
Ecological: Threats: General: LOWER KINNE UPPER KINNE PLSS: T08N, UTM: Zone-	EY LAKE: 1 EY LAKE: 1 , R20E, Se 11 N42716	SUBADULT D c. 07, NW (M)	ETECTED IN 2002, 1 ADULT ANI Accuracy:	D 1 LARVA 2012. specific area	5, 2 ADUL	Area (acres):	85
UPPER KINNE PLSS: T08N,	EY LAKE: 1 EY LAKE: 1 , R20E, Se 11 N42716	SUBADULT D c. 07, NW (M)	ETECTED IN 2002, 1 ADULT AN Accuracy: Latitude/Longitude:	D 1 LARVA 2012. specific area 38.55963 / -119.82463	5, 2 ADUL ⁻	Area (acres):	85
Ecological: Threats: General: OWER KINNE UPPER KINNE PLSS: T08N, JTM: Zone- County Summany Alpine	EY LAKE: 1 EY LAKE: 1 , R20E, Se 11 N42716	SUBADULT D c. 07, NW (M)	ETECTED IN 2002, 1 ADULT AN Accuracy: Latitude/Longitude: Quad Summary:	D 1 LARVA 2012. specific area 38.55963 / -119.82463	5, 2 ADUL	Area (acres):	85
Ecological: Threats: General: LOWER KINNE UPPER KINNE PLSS: T08N, UTM: Zone- County Summ Alpine Sources:	EY LAKE: 1 IY LAKE: 1 , R20E, Se 11 N42716 hary: CALIFC	SUBADULT D c. 07, NW (M) 94 E253878 94 E253878	ETECTED IN 2002, 1 ADULT AN Accuracy: Latitude/Longitude: Quad Summary:	D 1 LARVA 2012. specific area 38.55963 / -119.82463 7) D SURVEY REPORT FOR		Area (acres): Elevation (feet):	85 8,600
Ecological: Threats: General: LOWER KINNE UPPER KINNE PLSS: T08N, UTM: Zone- ¹	EY LAKE: 1 EY LAKE: 1 , R20E, Se 11 N42716 hary: CALIFC HIGH E MILLIR	SUBADULT D c. 07, NW (M) 94 E253878 94 E253878	ETECTED IN 2002, 1 ADULT ANI Accuracy: Latitude/Longitude: Quad Summary: Ebbetts Pass (381195)	D 1 LARVA 2012. specific area 38.55963 / -119.82463 7) D SURVEY REPORT FOR -22 F FISH AND WILDLIFE) - F	SITE ID 14	Area (acres): Elevation (feet): 1995 FROM "FATS" DATABASE	85 8,600 FOR 200



California Department of Fish and Wildlife



Map Index Num Key Quad:	ber:		207 betts Pass (3	3811957)			EO Index: Element Code:		50207 AAABH013	340	
Occurrence Nu	nber:	163		5011557)			Occurrence Last U	pdated:	2014-10-09		
Scientific Name	: R	ana s	ierrae				Common Name:	Sierra Ne	vada yellow-	legged frog	
Listing Status: CNDDB Elemen	t Ranks	5:	Federal: State: Global: State:	Endanger Threaten G1 S1			Rare Plant Rank: Other Lists:		/L-Watch Lis I-Endangere Sensitive		
General Habitat	:						Micro Habitat:				
ALWAYS ENCO MAY REQUIRE DEVELOPMENT	2 - 4 YR				OF WATER. TADPOL AQUATIC	.ES					
Last Date Obse	rved:	2012	2-06-20				Occurrence Type:	Natural/N	Native occuri	rence	
Last Survey Dat	e:	2012	2-06-20				Occurrence Rank:	Excellen	t		
Owner/Manager	:	USF	S-HUMBOL	DT-TOIYA	BE NF		Trend:	Unknowr	n		
Presence:		Pres	sumed Extar	nt							
Location:											
UNNAMED LAK FOREST.	E BETV	/EEN	SHERROLI	D LAKE AN	ND UPPER KINNEY I	LAKE,	0.8 MILE NW OF HW	Y 4 AT EBI	BETTS PAS	S, TOIYABE NATIO	DNAL
Detailed Location	on:										
THIS SITE IS CA	LAKES	S ID #	<i>‡</i> 15019.								
Ecological:											
							SHORELINE SUBST NO FISH SEEN IN LA			DGE/FORB. FISH (NOT
Threats:											
BD WAS DETEC	TED H	ERE	IN 2008 ANI	D 2010.							
General:											
							'S IN 2001, 2002, 200 G MASSES WERE 0				S AS HIGH AS
PLSS: TO8N, F	20F. S	ec. 0	7. SW (M)		Accuracy:	80 r	neters			Area (acres):	0
,	,		E254080		Latitude/Longitude:		55371 / -119.82208			Elevation (feet):	8,800
County Summa	rv-				Quad Summary:					, , , , , , , , , , , , , , , , , , ,	,
Alpine	.				Ebbetts Pass (38119	57)					
Sources:						.,					
BRA92A0001							INUM ON TWO DECI 4): 369-377. 1992-XX		ECIES OF A	MPHIBIANS IN TH	IE SIERRA
DFG01F0029	CALIF	ORN	IIA DEPART	MENT OF		LD SUF	RVEY REPORT FOR		019 FROM '	'FATS" DATABASI	E FOR 2001
DFG01U0001	MILLI	RON,	C. ET AL. (CALIFORM	NA DEPARTMENT C	OF FISH	I AND WILDLIFE) - F N LAKE SURVEYS 20			TRACKING SYSTE	EM (FATS)
DFW14D0001			IIA DEPART IELDWORK			E - CDI	W AMPHIBIANS - HI	GH MOUN	ITAIN LAKES	S DATABASE, CO	VERING 1995



California Department of Fish and Wildlife



HI DIVERSITI DIST			Ca						
Map Index Num	ber:	50649			EO Index:		50649		
(ey Quad:	ļ	Pacific Valley	(3811958)		Element Code:		AAABH01340		
Occurrence Nu	mber:	178			Occurrence Last U	pdated:	2014-10-16		
cientific Name	e: Ran	a sierrae			Common Name:	Sierra Ne	evada yellow-legge	ed frog	
isting Status:		Federal:	Endangered		Rare Plant Rank:				
		State:	Threatened		Other Lists:	-	VL-Watch List		
NDDB Elemer	nt Ranks:	Global:	G1				N-Endangered -Sensitive		
		State:	S1						
eneral Habita	t:				Micro Habitat:				
	2 - 4 YRS		EW FEET OF WA TE THEIR AQUAT		ES 🗆				
ast Date Obse	rved: 2	012-07-18			Occurrence Type:	Natural/	Native occurrence		
ast Survey Da	te: 2	012-07-18			Occurrence Rank:	Good			
wner/Manage	r: U	SFS-ELDOR	ADO NF		Trend:	Unknow	'n		
resence:	Р	resumed Exta	ant						
ocation:									
5 MILE SW O	MIDDLE	CREEK CAM	PGROUND, BETV	VEEN UPPER E	BLUE LAKE AND LOWER E	BLUE LAK	E, ELDORADO NA	TIONAL FOR	REST.
etailed Locati	on:								
	••••								
OND PROVID	ES DISPEI				OW AREA. COLLECTIONS		ITED HERE WITH	LOCALITIES	PROVIDED
OND PROVID S "BLUE LAKE	ES DISPEI						ITED HERE WITH	LOCALITIES	PROVIDED
POND PROVID S "BLUE LAKE Cological: IABITAT CONS	ES DISPEI ES," "PONE	O NEAR BLUE	E LAKES," AND "C	REEKS FLOW		KE."			
OND PROVID S "BLUE LAKE cological: IABITAT CONS EDGES COVE	ES DISPEI ES," "PONE	O NEAR BLUE	E LAKES," AND "C	REEKS FLOW	ING INTO UPPER BLUE LA	KE."			
POND PROVID S "BLUE LAKE Cological: ABITAT CONS SEDGES COVE	ES DISPEI ES," "PONE BISTS OF A R MOST () NEAR BLUE A MEADOW V DF POND MA	E LAKES," AND "C VITH SMALL PON RGINS.	REEKS FLOW DS (DRIED PR	ING INTO UPPER BLUE LA	NKE." ID MEANE	DERING STREAM;	GRASSES/V	
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OND PROVID S "BLUE LAKE cological: ABITAT CONS EDGES COVE hreats: OSSIBLE THR eneral: OLLECTIONS IGH AS 3 ADL LSS: T09N, TM: Zone-1 ounty Summa lpine ources:	ES DISPEI S," "PONE BISTS OF / R MOST O EAT FROI MADE IN ULTS, 2 SU R18E, Sec 1 N427894	D NEAR BLUE A MEADOW V DF POND MA M TROUT OB 1939, 1940, A BADULTS, 44 . 13 (M) 16 E243534	E LAKES," AND "C RGINS. SERVED TO BE II ND 1941. DETEC METAMORPHS, Accura Latitud Quad 3 Pacific	REEKS FLOW DS (DRIED PR NHABITING TH TED DURING S AND 138 LAR acy: de/Longitude: Summary: Valley (381195	ING INTO UPPER BLUE LA NOR TO MID-SEP 2001) AN HE MEADOW STREAM. BD SURVEYS IN 2001, 2002, 2 VAE WERE OBSERVED IN specific area 38.62198 / -119.94588	AKE." ID MEANE WAS DET 003, 2005, CERTAIN	DERING STREAM; TECTED HERE IN , 2008, 2009, 2010 I YEARS. Area Eleva	; GRASSES/W 2008. 0, 2012. POPL 1 (acres): ation (feet):	VILLOWS OF ULATIONS A 21 8,200
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OND PROVID S "BLUE LAKE cological: ABITAT CONS EDGES COVE hreats: OSSIBLE THR eneral: OLLECTIONS IGH AS 3 ADL LSS: T09N, TM: Zone-1 ounty Summa lpine ources: LV01F0002 LV01F0003	ES DISPEI S," "PONE SISTS OF A R MOST O EAT FROI MADE IN ULTS, 2 SU R18E, Sec 1 N427894 iry: ALVARE ALVARE	D NEAR BLUE A MEADOW V DF POND MA M TROUT OB 1939, 1940, A BADULTS, 44 . 13 (M) 16 E243534 	E LAKES," AND "C NITH SMALL PON RGINS. SERVED TO BE II ND 1941. DETEC D METAMORPHS, Accura Latitud Quad 3 Pacific	REEKS FLOW DS (DRIED PR NHABITING TH TED DURING S AND 138 LAR acy: de/Longitude: Summary: Valley (381195 ND STOKES ASS	ING INTO UPPER BLUE LA IOR TO MID-SEP 2001) AN HE MEADOW STREAM. BD SURVEYS IN 2001, 2002, 2 VAE WERE OBSERVED IN specific area 38.62198 / -119.94588 58), Carson Pass (3811968) SSOCIATES) - FIELD SURVE	AKE." ID MEANE WAS DET 003, 2005 CERTAIN	DERING STREAM; TECTED HERE IN 2008, 2009, 2010 YEARS. Area Eleva	GRASSES/W 2008. 0, 2012. POPL 0 (acres): ation (feet):	VILLOWS OF ULATIONS A 21 8,200
OND PROVID S "BLUE LAKE cological: ABITAT CONS EDGES COVE hreats: OSSIBLE THR contections IGH AS 3 ADU LSS: T09N, TM: Zone-1 county Summa lpine ources: LV01F0002 LV01F0003 AL40S0001	ES DISPEI ES," "PONE BISTS OF / R MOST O EAT FROI MADE IN ULTS, 2 SU R18E, Sec 1 N427894 ary: ALVARE ALVARE CALHOU CALIFO	D NEAR BLUE A MEADOW V DF POND MA M TROUT OB 1939, 1940, A BADULTS, 40 . 13 (M) 46 E243534 	E LAKES," AND "C RGINS. SERVED TO BE II ND 1941. DETEC D METAMORPHS, Accura Latitud Quad Pacific /AREZ (JONES AND TERS (JONES AND TONES N SU #608	REEKS FLOW DS (DRIED PR NHABITING TH TED DURING S AND 138 LAR acy: de/Longitude: Summary: Valley (381195 ND STOKES AS D STOKES ASS 04-6089 1940-0	ING INTO UPPER BLUE LA IOR TO MID-SEP 2001) AN HE MEADOW STREAM. BD SURVEYS IN 2001, 2002, 2 VAE WERE OBSERVED IN specific area 38.62198 / -119.94588 58), Carson Pass (3811968) SSOCIATES) - FIELD SURVE	AKE." ID MEANE WAS DET 003, 2005, CERTAIN CERTAIN	DERING STREAM; TECTED HERE IN , 2008, 2009, 2010 I YEARS. Area Eleva M FOR RANA SIER FOR RANA SIERR	GRASSES/W 2008. 0, 2012. POPL 0 (acres): ation (feet): RRAE 2001-07. RAE 2001-09-1	VILLOWS OF ULATIONS A 21 8,200 7-23 18
OND PROVID S "BLUE LAKE cological: IABITAT CONS EDGES COVE hreats: OSSIBLE THR ceneral: COLLECTIONS IIGH AS 3 ADL LSS: T09N, TM: Zone-1 county Summa Igine County Summa Ipine County Summa Ipine	ES DISPEI ES," "PONE SISTS OF A R MOST O EAT FROI MADE IN 1LTS, 2 SU R18E, Sec 1 N427894 ary: ALVARE ALVARE ALVARE CALHOU CALIFO TO 2013	D NEAR BLUE A MEADOW V DF POND MA M TROUT OB 1939, 1940, A BADULTS, 40 . 13 (M) 46 E243534 	E LAKES," AND "C RGINS. SERVED TO BE II ND 1941. DETEC D METAMORPHS, Accura Latitud Quad 3 Pacific /AREZ (JONES AND ERS (JONES AND FOUN SN SU #608 TMENT OF FISH / C 2014-03-26	REEKS FLOW DS (DRIED PR NHABITING TH TED DURING S AND 138 LAR acy: de/Longitude: Summary: Valley (381195 ND STOKES AS D STOKES AS 0 STOKES AS 0 STOKES AS 0 STOKES AS	ING INTO UPPER BLUE LA NOR TO MID-SEP 2001) AN HE MEADOW STREAM. BD SURVEYS IN 2001, 2002, 2 VAE WERE OBSERVED IN specific area 38.62198 / -119.94588 58), Carson Pass (3811968) SSOCIATES) - FIELD SURVE 8-06	AKE." ID MEANE WAS DET 003, 2005, CERTAIN VEY FORM	DERING STREAM; TECTED HERE IN 2008, 2009, 2010 YEARS. Area Eleva M FOR RANA SIER FOR RANA SIERR	GRASSES/W 2008. 0, 2012. POPL 0 (acres): ation (feet): RRAE 2001-07. RAE 2001-09-1	VILLOWS OI VLATIONS A 21 8,200 7-23 18
OND PROVID S "BLUE LAKE cological: IABITAT CONS EDGES COVE hreats: OSSIBLE THR contections IGH AS 3 ADU LSS: T09N, ITM: Zone-1 county Summa lpine ources: LV01F0002 LV01F0003 AL40S0001 FW14D0001 OO09F0002	ES DISPEI ES," "PONE SISTS OF A R MOST O EAT FROI MADE IN ULTS, 2 SU R18E, Sec 1 N427894 IN427894 IN427894 IN427894 ALVARE ALVARE ALVARE CALHOU CALIFO TO 2013 POOL, A	2) NEAR BLUE A MEADOW V DF POND MA M TROUT OB 1939, 1940, A BADULTS, 44 . 13 (M) 46 E243534 . 13 (M) 46 E243534 	E LAKES," AND "C RGINS. SERVED TO BE II ND 1941. DETEC D METAMORPHS, Accura Latitud Quad 3 Pacific /AREZ (JONES AND ERS (JONES AND FOUN SN SU #608 TMENT OF FISH / C 2014-03-26	REEKS FLOW DS (DRIED PR NHABITING TH TED DURING S AND 138 LAR acy: de/Longitude: Summary: Valley (381195 Valley (381195 O STOKES ASS 0 STOKES ASS 0 STOKES ASS 0 STOKES ASS 0 STOKES ASS 0 AND WILDLIFE) - FIELD SURV	ING INTO UPPER BLUE LA IOR TO MID-SEP 2001) AN HE MEADOW STREAM. BD SURVEYS IN 2001, 2002, 2 VAE WERE OBSERVED IN specific area 38.62198 / -119.94588 58), Carson Pass (3811968) SSOCIATES) - FIELD SURVE 8-06 E - CDFW AMPHIBIANS - HI	AKE." ID MEANE WAS DET 003, 2005, CERTAIN VEY FORM	DERING STREAM; TECTED HERE IN 2008, 2009, 2010 YEARS. Area Eleva M FOR RANA SIER FOR RANA SIERR	GRASSES/W 2008. 0, 2012. POPL 0 (acres): ation (feet): RRAE 2001-07. RAE 2001-09-1	VILLOWS OI VLATIONS A 21 8,200 7-23 18
COND PROVID S "BLUE LAKE Cological: ABITAT CONS EDGES COVE Threats: COSSIBLE THR COSSIBLE THR COLLECTIONS IGH AS 3 ADU CLSS: T09N,	ES DISPEI ES," "PONE BISTS OF / R MOST O EAT FROI MADE IN ULTS, 2 SU R18E, Sec 1 N427894 ary: ALVARE ALVARE CALHOU CALIFO TO 2013 POOL, A SMITH,	2) NEAR BLUE A MEADOW V DF POND MA M TROUT OB 1939, 1940, A BADULTS, 40 . 13 (M) 46 E243534 . 13 (M) 46 E243534 . 13 (M) 46 E243534 . 2, J. & J. ALV 57, J. & S. MY JN, A CALF RNIA DEPAR 5 FIELDWORF A. (ECORP CO R SMITH SI	E LAKES," AND "C RGINS. SERVED TO BE II ND 1941. DETEC METAMORPHS, Accura Latitud Quad 3 Pacific /AREZ (JONES AND FERS (JONES AND HOUN SN SU #608 TMENT OF FISH / C 2014-03-26 DNSULTING, INC.	REEKS FLOW DS (DRIED PR NHABITING TH TED DURING S AND 138 LAR acy: de/Longitude: Summary: Valley (381195 VD STOKES ASS O STOKES ASS O STOKES ASS 0 S	ING INTO UPPER BLUE LA IOR TO MID-SEP 2001) AN HE MEADOW STREAM. BD SURVEYS IN 2001, 2002, 2 VAE WERE OBSERVED IN specific area 38.62198 / -119.94588 58), Carson Pass (3811968) SSOCIATES) - FIELD SURVE 8-06 E - CDFW AMPHIBIANS - HI	AKE." ID MEANE WAS DET 003, 2005, CERTAIN VEY FORM	DERING STREAM; TECTED HERE IN 2008, 2009, 2010 YEARS. Area Eleva M FOR RANA SIER FOR RANA SIERR	GRASSES/W 2008. 0, 2012. POPL 0 (acres): ation (feet): RRAE 2001-07. RAE 2001-09-1	VILLOWS OI VLATIONS A 21 8,200 7-23 18



California Department of Fish and Wildlife



Key Quad:					71086	
	South Lake Ta	ahoe (3811988)	Element Code:	/	AAABH01340	
Occurrence Number:	243		Occurrence Last U	pdated: 2	2014-12-18	
Scientific Name: R	ana sierrae		Common Name:	Sierra Neva	ida yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	CDFW_WL		
CNDDB Element Ranks	s: Global:	G1		IUCN_EN-E		
	State:	S1		_		
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YF DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Observed:	1935-08-18		Occurrence Type:	Natural/Na	tive occurrence	
Last Survey Date:	1935-08-18		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
0.5 MILE NE OF STAR	LAKE, SE OF LA	AKE TAHOE.				
Detailed Location:						
LAKE IS THE HEAD OF		AS "0.5 MI NE STAR LAKE" IN EL IYON, JUST OVER THE COUNTY				OF STAR
Ecological:						
Threats:						
General:						
COLLECTION MADE B	Y R. SMITH ON	18 AUG 1935.				
PLSS: T12N, R19E, S	Sec. 29 (M)	Accuracy:	4/5 mile		Area (acres):	0
UTM: Zone-11 N430	7401 E250044	Latitude/Longitude:	38.87994 / -119.88147		Elevation (feet):	9,000
County Summary:		Quad Summary:				
Alpine, El Dorado		Woodfords (3811977),	Freel Peak (3811978), Min	den (381198	7), South Lake Tahoe (38119	988)
Sources:						



California Department of Fish and Wildlife



Mon Index Number	••• [¬]	20206			EQ Indexe		74007		
Map Index Numbe		0206	(2011057)		EO Index: Element Code:		71087	240	
Key Quad: Occurrence Num		bbetts Pass	(3811957)			ndatadı	AAABH013 2014-12-18		
Occurrence Num	ber: 2	.44			Occurrence Last U	poated:	2014-12-10	>	
Scientific Name:	Rana	a sierrae			Common Name:	Sierra Ne	evada yellow-	legged frog	
Listing Status:		Federal:	Endangered		Rare Plant Rank:				
		State:	Threatened		Other Lists:		WL-Watch Lis		
CNDDB Element	Ranks:	Global:	G1				N-Endangered -Sensitive	L	
		State:	S1						
General Habitat:					Micro Habitat:				
ALWAYS ENCOU MAY REQUIRE 2 DEVELOPMENT.					S 🗆				
Last Date Observ	red: 19	39-05-19			Occurrence Type:	Natural/	Native occurr	ence	
Last Survey Date	: 19	39-05-19			Occurrence Rank:	Unknow	/n		
Owner/Manager:	U	SFS-TOIYAB	E NF		Trend:	Unknow	/n		
Presence:	р.	esumed Exta	ant						
Presence:	PI								
Location: WEST FORK OF S Detailed Location	SILVER (CREEK, 2 MII	ES NORTH OF		, TOIYABE NATIONAL FOI				
Location: WEST FORK OF S Detailed Location COLLECTION LOO Ecological: Threats:	SILVER (CREEK, 2 MII	ES NORTH OF		, TOIYABE NATIONAL FOI BETS PASS" AT 7600 FEE		ΓΙΟΝ.		
Location: WEST FORK OF S Detailed Location COLLECTION LOC Ecological: Threats: General:	SILVER (n: CALITIES	CREEK, 2 MIL	LES NORTH OF	ER CR, 2 MI N EBI	BETS PASS" AT 7600 FEE		ΓΙΟΝ.		
Location: WEST FORK OF S Detailed Location COLLECTION LOO Ecological: Threats: General: A SET OF COLLE	SILVER C 1: CALITIES CTIONS	CREEK, 2 MII S GIVEN AS ' WERE MADE	ES NORTH OF	ER CR, 2 MI N EBI	BETS PASS" AT 7600 FEE			Area (acres):	97
Location: WEST FORK OF S Detailed Location COLLECTION LOG Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2	SILVER C n: CALITIES CTIONS 20E, Sec.	CREEK, 2 MII S GIVEN AS ' WERE MADE	ES NORTH OF W FORK SILVE HERE BY JOH	ER CR, 2 MI N EBI	BETS PASS" AT 7600 FEE Y 1939.			Area (acres): Elevation (feet):	97 7,600
Location: WEST FORK OF S Detailed Location COLLECTION LOC Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11	SILVER C n: CALITIES CTIONS 20E, Sec. N427317	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M)	ES NORTH OF W FORK SILVE HERE BY JOH Accu	ER CR, 2 MI N EBI INSON ON 19 MA	BETS PASS" AT 7600 FEE Y 1939. non-specific area			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOG Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2	SILVER C n: CALITIES CTIONS 20E, Sec. N427317	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M)	ES NORTH OF W FORK SILVE HERE BY JOH Accu Latit Quad	R CR, 2 MI N EBI INSON ON 19 MA uracy: tude/Longitude:	BETS PASS" AT 7600 FEE Y 1939. non-specific area 38.57327 / -119.81094			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOC Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11 I County Summary Alpine	SILVER C n: CALITIES CTIONS 20E, Sec. N427317	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M)	ES NORTH OF W FORK SILVE HERE BY JOH Accu Latit Quad	R CR, 2 MI N EB NSON ON 19 MA uracy: u de/Longitude:	BETS PASS" AT 7600 FEE Y 1939. non-specific area 38.57327 / -119.81094			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOC Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11 I County Summary Alpine Sources:	SILVER C n: CALITIES CTIONS 20E, Sec. N427317	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M) 0 E255118	ES NORTH OF W FORK SILVE HERE BY JOH Accu Latit Ebbe	R CR, 2 MI N EB NSON ON 19 MA uracy: u de/Longitude:	BETS PASS" AT 7600 FEE Y 1939. non-specific area 38.57327 / -119.81094 7)			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOO Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11 I County Summary Alpine Sources: JOH39S0001	SILVER C CALITIES CTIONS 20E, Sec. N427317 /: JOHNSO	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M) 0 E255118	ES NORTH OF W FORK SILVE HERE BY JOH Accu Latit Dua Ebbe	R CR, 2 MI N EB INSON ON 19 MA uracy: ude/Longitude: d Summary: etts Pass (381195)	BETS PASS" AT 7600 FEE Y 1939. non-specific area 38.57327 / -119.81094 7)			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOC Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11 I County Summary Alpine Sources: JOH39S0001	SILVER C CALITIES CTIONS 20E, Sec. N427317 7: JOHNSC JOHNSC	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M) 0 E255118 'N, D JOHN	ES NORTH OF W FORK SILVE HERE BY JOH Accu Latit Ebbe	R CR, 2 MI N EB NSON ON 19 MA uracy: ude/Longitude: d Summary: etts Pass (381195)	BETS PASS" AT 7600 FEE NY 1939. non-specific area 38.57327 / -119.81094 7) 5-19 5-19			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOC Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11 I County Summary Alpine Sources: JOH39S0001 JOH39S0002 JOH39S0003	SILVER C CALITIES CTIONS 20E, Sec. N427317 /: JOHNSO JOHNSO JOHNSO	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M) 0 E255118 'N, D JOHN 'N, D JOHN 'N, D JOHN	LES NORTH OF W FORK SILVE E HERE BY JOH Accu Latit USON #3552 MV ISON #3553 MV	R CR, 2 MI N EB NSON ON 19 MA uracy: ude/Longitude: d Summary: etts Pass (381195) /Z #28577 1939-09	BETS PASS" AT 7600 FEE NY 1939. non-specific area 38.57327 / -119.81094 7) 5-19 5-19 5-19			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOO Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11 I County Summary Alpine Sources: JOH39S0001 JOH39S0003 JOH39S0003	SILVER C CALITIES CTIONS 20E, Sec. N427317 7: JOHNSO JOHNSO JOHNSO JOHNSO	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M) 0 E255118 N, D JOHN N, D JOHN N, D JOHN	LES NORTH OF W FORK SILVE E HERE BY JOH Accu Latit Ebbe ISON #3552 MV ISON #3553 MV ISON #3555 MV	R CR, 2 MI N EB NSON ON 19 MA uracy: cude/Longitude: d Summary: 2 #28577 1939-09 7 #28578 1939-09	BETS PASS" AT 7600 FEE NY 1939. non-specific area 38.57327 / -119.81094 7) 5-19 5-19 5-19 5-19 5-19			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOC Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-11 I County Summary Alpine Sources: JOH39S0001 JOH39S0003 JOH39S0004 JOH39S0005	SILVER C CALITIES CTIONS 20E, Sec. N427317 /: JOHNSO JOHNSO JOHNSO JOHNSO JOHNSO	CREEK, 2 MII S GIVEN AS ' WERE MADE 06 (M) 0 E255118 M, D JOHN N, D JOHN N, D JOHN N, D JOHN	ES NORTH OF W FORK SILVE HERE BY JOH Accu Latit Ebbe ISON #3552 MV ISON #3553 MV ISON #3555 MV ISON #3555 MV	R CR, 2 MI N EB NSON ON 19 MA uracy: ude/Longitude: d Summary: 2 #28577 1939-08 /Z #28578 1939-08 /Z #28579 1939-08 /Z #28580 1939-08	BETS PASS" AT 7600 FEE Y 1939. non-specific area 38.57327 / -119.81094 7) 5-19 5-19 5-19 5-19 5-19 5-19 5-19			. ,	
Location: WEST FORK OF S Detailed Location COLLECTION LOO Ecological: Threats: General: A SET OF COLLE PLSS: T08N, R2 UTM: Zone-111 County Summary Alpine Sources: JOH39S0001 JOH39S0002 JOH39S0003 JOH39S0005 JOH39S0005	SILVER C CALITIES CTIONS 20E, Sec. N427317 /- JOHNSC JOHNSC JOHNSC JOHNSC JOHNSC JOHNSC	CREEK, 2 MIL S GIVEN AS ' WERE MADE 06 (M) 0 E255118 N, D JOHN N, D JOHN N, D JOHN N, D JOHN N, D JOHN	LES NORTH OF W FORK SILVE HERE BY JOH Accu Latit USON #3552 MV ISON #3553 MV ISON #3555 MV ISON #3556 MV ISON #3556 MV	ER CR, 2 MI N EB INSON ON 19 MA uracy: cude/Longitude: d Summary: 2 #28577 1939-08 7 #28578 1939-08 7 #28579 1939-08 7 #28580 1939-08 7 #28580 1939-08 7 #28581 1939-08	BETS PASS" AT 7600 FEE Y 1939. non-specific area 38.57327 / -119.81094 7) 5-19 5-19 5-19 5-19 5-19 5-19 5-19 5-19			. ,	



California Department of Fish and Wildlife



Map Index Num	ber:	36156			EO Index:		71116		
Key Quad:	I	Ebbetts Pass	(3811957)		Element Code:		AAABH0 ⁻	1340	
Occurrence Nur	nber:	259			Occurrence Last U	odated:	2014-12-3	30	
Scientific Name	: Ran	a sierrae			Common Name:	Sierra Ne	evada yellov	v-legged frog	
Listing Status:		Federal:	Endangered		Rare Plant Rank:				
		State:	Threatened		Other Lists:		VL-Watch L		
CNDDB Elemen	t Ranks:	Global:	G1				N-Endanger -Sensitive	ed	
		State:	S1						
General Habitat	:				Micro Habitat:				
	2 - 4 YRS		EW FEET OF WATER. TA TE THEIR AQUATIC	ADPOLES					
Last Date Obser	r ved: 1	965-10-16			Occurrence Type:	Natural/	Native occu	irrence	
Last Survey Dat	t e: 2	001-07-21			Occurrence Rank:	Unknow	n		
Owner/Manager	: U	ISFS-STANIS	LAUS NF, TOIYABE NF		Trend:	Unknow	n		
Presence:	Р	resumed Exta	ant						
Location:									
	BETTS P	ASS, ALONG	HIGHWAY 4 AT BOUND	ARY BETW	VEEN STANISLAUS NAT	IONAL FO	DREST AND	O TOIYABE NATION	AL FORE
VICINITY OF EB		ASS, ALONG	HIGHWAY 4 AT BOUND,	ARY BETW	VEEN STANISLAUS NAT	IONAL FO	DREST AND	D TOIYABE NATION	AL FORE
VICINITY OF EB Detailed Locatic COLLECTION LO	on: OCALITIE	S DESCRIBE	D AS EBBETTS PASS AT						
VICINITY OF EB Detailed Locatic COLLECTION LO MAPPED BY CN	on: OCALITIE	S DESCRIBE	D AS EBBETTS PASS AT						
VICINITY OF EB Detailed Locatic COLLECTION LO MAPPED BY CN Ecological:	on: OCALITIE	S DESCRIBE	D AS EBBETTS PASS AT						
VICINITY OF EB Detailed Locatic COLLECTION LC MAPPED BY CN Ecological: Threats:	on: OCALITIE	S DESCRIBE	D AS EBBETTS PASS AT						
VICINITY OF EB Detailed Locatic COLLECTION LO MAPPED BY CN Ecological: Threats: General: COLLECTED BY	DCALITIE	S DESCRIBE ITERED ON E ER ON 23 JU	D AS EBBETTS PASS AT	T 8050 FT, S ON 2 JUL	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE	0 FT, ANI	0 0.25 MILE	WEST OF EBBET	TS PASS.
VICINITY OF EB Detailed Locatic COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE	DCALITIE IDDB CEN (T. STOR RRAE WE	S DESCRIBE ITERED ON E ER ON 23 JU RE FOUND I	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS	T 8050 FT, S ON 2 JUL HIS VICINI	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE	0 FT, ANI	0 0.25 MILE	WEST OF EBBET	TS PASS.
VICINITY OF EB Detailed Locatic COLLECTION LO MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F	DCALITIE DDB CEN T. STOR RRAE WE	S DESCRIBE ITERED ON E ER ON 23 JU RE FOUND I	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T	T 8050 FT, S ON 2 JUL HIS VICINI 2	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001.	0 FT, ANI	0 0.25 MILE	WEST OF EBBET	TS PASS. N 16 OCT
VICINITY OF EB Detailed Locatic COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11	DCALITIE IDDB CEN T. STOR RRAE WE R20E, Sec 1 N426995	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND [. 18 (M)	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile	0 FT, ANI	0 0.25 MILE	WEST OF EBBET AND BY R. BURY C Area (acres):	TS PASS. IN 16 OCT 0
VICINITY OF EB Detailed Locatic COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summa	DCALITIE IDDB CEN T. STOR RRAE WE R20E, Sec 1 N426995	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND [. 18 (M)	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary:	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile	0 FT, ANI	0 0.25 MILE	WEST OF EBBET AND BY R. BURY C Area (acres):	TS PASS. IN 16 OCT 0
VICINITY OF EB Detailed Locatic COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summar Alpine	DCALITIE IDDB CEN T. STOR RRAE WE R20E, Sec 1 N426995	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND [. 18 (M)	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary:	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile	0 FT, ANI	0 0.25 MILE	WEST OF EBBET AND BY R. BURY C Area (acres):	TS PASS. IN 16 OCT 0
VICINITY OF EB Detailed Locatic COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summar Alpine Sources:	DCALITIE DDB CEN T. STOR RRAE WE 20E, Sec 1 N426995 ry:	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND I . 18 (M) 51 E254920	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa Ebbetts Pass	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary:	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile	0 FT, ANI	0 0.25 MILE	WEST OF EBBET AND BY R. BURY C Area (acres):	TS PASS. IN 16 OCT 0
VICINITY OF EB Detailed Locatio COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summar Alpine Sources: BUR65S0001	DCALITIE DDB CEN T. STOR RRAE WE 20E, Sec 1 N426995 ry: BURY, F	S DESCRIBE ITERED ON E ER ON 23 JU RE FOUND I . 18 (M) 51 E254920 R BURY #3 (D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary:	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile	0 FT, ANI	0 0.25 MILE	WEST OF EBBET AND BY R. BURY C Area (acres):	TS PASS. IN 16 OCT 0
VICINITY OF EB Detailed Locatio COLLECTION LO MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summar Alpine Sources: BUR65S0001 BUR65S0002	DCALITIE IDDB CEN 7 T. STOR RRAE WE 20E, Sec 1 N426995 ry: BURY, F	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND I . 18 (M) 51 E254920 R BURY #3 (R BURY #4 (D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa Ebbetts Pass	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary:	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile	0 FT, ANI	0 0.25 MILE	WEST OF EBBET AND BY R. BURY C Area (acres):	TS PASS. IN 16 OCT 0
VICINITY OF EB Detailed Locatio COLLECTION LO MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summar Alpine Sources: BUR65S0001 BUR65S0003	T. STOR RRAE WE 20E, Sec 1 N426995 ry: BURY, F BURY, F BURY, F CALIFO	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND I . 18 (M) 51 E254920 R BURY #3 (R BURY #3 (R BURY #5 (D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa Ebbetts Pass CM #45135 1965-10-16 CM #45136 1965-10-16 CM #45137 1965-10-16 TMENT OF FISH AND W	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary: (3811957)	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile 38.54424 / -119.81208	0 FT, ANI R ON 28 \) 0.25 Mile JUN 1964, <i>4</i>	WEST OF EBBET	TS PASS. IN 16 OCT 0 8,700
VICINITY OF EB Detailed Locatio COLLECTION LO MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summar Alpine Sources: BUR65S0001 BUR65S0002 BUR65S0003 DFW14D0001	T. STOR RRAE WE 20E, Sec 1 N426995 ry: BURY, F BURY, F BURY, F CALIFO TO 2013	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND I . 18 (M) 51 E254920 R BURY #3 (R BURY #3 (R BURY #5 (RNIA DEPAR FIELDWORK	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa Ebbetts Pass CM #45135 1965-10-16 CM #45136 1965-10-16 CM #45137 1965-10-16 TMENT OF FISH AND W	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary: (3811957)	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile 38.54424 / -119.81208	0 FT, ANI R ON 28 \) 0.25 Mile JUN 1964, <i>4</i>	WEST OF EBBET	TS PASS. IN 16 OCT 0 8,700
VICINITY OF EB Detailed Locatic COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F UTM: Zone-11 County Summar Alpine Sources: BUR65S0001 BUR65S0002 BUR65S0003 DFW14D0001 SCH64S0003	T. STOR RRAE WE 20E, Sec 1 N426999 ry: BURY, F BURY, F BURY, F BURY, F CALIFO TO 2013 SCHUIE	S DESCRIBE ITERED ON E ER ON 23 JU RE FOUND I . 18 (M) 51 E254920 R BURY #3 (R BURY #4 (R BURY #4 (R BURY #5 (RNIA DEPAR FIELDWORK RER, F SCI	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa Ebbetts Pass CM #45135 1965-10-16 CM #45137 1965-10-16 CM #45137 1965-10-16 TMENT OF FISH AND WI (2014-03-26	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary: (3811957) ILDLIFE - C 70-97672 19	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile 38.54424 / -119.81208 CDFW AMPHIBIANS - HI 964-06-28	0 FT, ANI R ON 28 \) 0.25 Mile JUN 1964, <i>4</i>	WEST OF EBBET	TS PASS. IN 16 OCT 0 8,700
Detailed Location COLLECTION LC MAPPED BY CN Ecological: Threats: General: COLLECTED BY 1965. NO R. SIE PLSS: T08N, F	T. STOR RRAE WE 20E, Sec 1 N426995 ry: BURY, F BURY, F BURY, F BURY, F CALIFO TO 2013 SCHUIE STEBBII	S DESCRIBE ITERED ON E ER ON 23 JU ERE FOUND I . 18 (M) 51 E254920 R BURY #4 0 R BURY #4 0 R BURY #5 0 RNIA DEPAR 5 FIELDWORK RER, F SCI NS, R STEE	D AS EBBETTS PASS AT BBETTS PASS. L 1930, BY R. STEBBINS DURING SURVEYS OF T Accuracy: Latitude/Long Quad Summa Ebbetts Pass CM #45135 1965-10-16 CM #45137 1965-10-16 CM #45137 1965-10-16 TMENT OF FISH AND WI (2014-03-26 HUIERER SN CAS #9767	T 8050 FT, S ON 2 JUL HIS VICINI 2 gitude: 3 ary: (3811957) ILDLIFE - C 70-97672 19 1 1954-07-C	EBBETTS PASS AT 873 . 1954, BY F. SCHUIERE ITY ON 20-21 JUL 2001. 2/5 mile 38.54424 / -119.81208 CDFW AMPHIBIANS - Hit 964-06-28 02	0 FT, ANI R ON 28 \) 0.25 Mile JUN 1964, <i>4</i>	WEST OF EBBET	TS PASS. IN 16 OCT 0 8,700



California Department of Fish and Wildlife



Map Index Numbe Key Quad: Occurrence Numb Scientific Name:	r: 70258					
Occurrence Numb			EO Index:		71144	
	Carson Pass (38119	68)	Element Code:		AAABH01340	
Scientific Name:	er: 264		Occurrence Last U	pdated:	2014-12-30	
	Rana sierrae		Common Name:	Sierra Nev	vada yellow-legged frog	
Listing Status:	Federal: Enda	angered	Rare Plant Rank:			
	State: Thre	atened	Other Lists:		/L-Watch List	
CNDDB Element R	anks: Global: G1			USFS_S-	-Endangered Sensitive	
	State: S1					
General Habitat:			Micro Habitat:			
	ITERED WITHIN A FEW FE 4 YRS TO COMPLETE THI		S 🗆			
ast Date Observe	ed: 1957-08-18		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2003-07-30		Occurrence Rank:	Unknowr	1	
Owner/Manager:	USFS-ELDORADO N	F	Trend:	Unknowr	1	
Presence:	Presumed Extant					
Location:						
JUST NE OF LAKE	WINNEMUCCA, 1.5 MILES	SOUTH OF CARSON PAS	SS, ELDORADO NATIONA	L FOREST		
					DN. MAPPED BY CNDDB NON JCCA, PRESUMING THE SIT	
Threats:						
General:						
	ADE BY G. CHRISTMAN ON N 2001, 2002, AND 2003.	I 18 AUG 1957. NO R. SIEF	RRAE WERE FOUND DUR	ING SURV	'EYS OF THESE PONDS AND	OTHER
PLSS: T10N, R18	3E, Sec. 34, NW (M)	Accuracy:	non-specific area		Area (acres):	5
UTM: Zone-11 N	l4284718 E239750	Latitude/Longitude:	38.67283 / -119.99144		Elevation (feet):	9,000
County Summary: Quad Su		Quad Summary:				
County Summary:		Carson Pass (3811968)			
County Summary: Alpine						
Alpine Sources:	CHRISTMAN, G CHRISTM	IAN #654 MVZ #66188 195	7-08-18			
Alpine Sources: CHR57S0001 C	CHRISTMAN, G CHRISTM CHRISTMAN, G CHRISTM					
Alpine Sources: CHR57S0001 C CHR57S0002 C		IAN #655 MVZ #66189 195	7-08-18			



California Department of Fish and Wildlife



Map Index Num Key Quad: Occurrence Nu	I	73981 Pacific Valley 800	(3811958)	EO Index: Element Code:		74981 AAABH01340 2017-03-02	
	mber:	500		Occurrence Last U			
Scientific Name	e: Rana	a sierrae		Common Name:	Sierra Neva	ada yellow-legged frog	
Listing Status:		Federal:	Endangered	Rare Plant Rank:			
		State:	Threatened	Other Lists:		Watch List Endangered	
CNDDB Elemen	t Ranks:	Global:	G1		USFS_S-S		
		State:	S1				
General Habitat	::			Micro Habitat:			
	2 - 4 YRS		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
ast Date Obse	rved: 2)16-09-22		Occurrence Type:	Natural/Na	ative occurrence	
Last Survey Da	te: 20	016-09-22		Occurrence Rank:	Good		
Owner/Manage	r: U	SFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknown		
	-	resumed Exta	int				
Presence:	Р						
Location:							
Location:			ID SEVERAL NEARBY UNNAME	D LAKES, WEST OF SUNS	ET LAKES,	TOIYABE NATIONAL FORE	ST.
Location:	KE, VIRGII			D LAKES, WEST OF SUNS	ET LAKES,	TOIYABE NATIONAL FORE	ST.
Location: FAMARACK LAP Detailed Location MAPPED BY CN	KE, VIRGII on: NDDB ACC	NIA LAKE, AN ORDING TO					
Location: FAMARACK LAI Detailed Location MAPPED BY CN 2016 DETECTION	KE, VIRGII on: NDDB ACC	NIA LAKE, AN ORDING TO	ID SEVERAL NEARBY UNNAME				
Location: TAMARACK LAP Detailed Location MAPPED BY CN 2016 DETECTIC Ecological:	KE, VIRGII on: NDDB ACC	NIA LAKE, AN ORDING TO	ID SEVERAL NEARBY UNNAME				
Location: FAMARACK LAP Detailed Location MAPPED BY CN 2016 DETECTIC Ecological: Fhreats:	KE, VIRGI on: NDDB ACC NN IN VIRC	VIA LAKE, AN ORDING TO SINIA LAKE.	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C				
Cocation: TAMARACK LAN Detailed Location MAPPED BY CN 2016 DETECTION Ecological: Threats: BD WAS DETEC	KE, VIRGI on: NDDB ACC NN IN VIRC	VIA LAKE, AN ORDING TO SINIA LAKE.	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C				
Location: TAMARACK LAH Detailed Location MAPPED BY CN 2016 DETECTIO Ecological: Threats: BD WAS DETEC General: DETECTED IN 2	KE, VIRGII on: NDDB ACC ON IN VIRC CTED HER 2001, 2002	NIA LAKE, AN ORDING TO SINIA LAKE. E IN 2008 AN , 2003, 2005,	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C	A DEPARTMENT OF FISH	AND WILDI	LIFE HIGH MOUNTAIN LAKI	ES DATABA
Location: TAMARACK LAI Detailed Location MAPPED BY CN 2016 DETECTIC Ecological: Threats: BD WAS DETEC General: DETECTED IN 2 AND 48 EGG M	KE, VIRGIN on: NDDB ACCON IN VIRC ON IN VIRC CTED HER 2001, 2002 ASSES WE	VIA LAKE, AN ORDING TO BINIA LAKE. E IN 2008 AN , 2003, 2005, ERE OBSERV	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C ID 2010. 2008, 2009, 2010, 2012, AND 20	A DEPARTMENT OF FISH	AND WILDI	LIFE HIGH MOUNTAIN LAKI	ES DATABA
Location: TAMARACK LAH Detailed Location MAPPED BY CN 2016 DETECTIC Ecological: Threats: BD WAS DETEC General: DETECTED IN 2 AND 48 EGG M/ PLSS: T09N, H	KE, VIRGIN on: NDDB ACC ON IN VIRC CTED HER 2001, 2002 ASSES WE	VIA LAKE, AN ORDING TO BINIA LAKE. E IN 2008 AN , 2003, 2005, ERE OBSERV	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C ID 2010. 2008, 2009, 2010, 2012, AND 20 /ED IN CERTAIN YEARS.	A DEPARTMENT OF FISH	AND WILDI	LIFE HIGH MOUNTAIN LAKE DULTS, 57 SUBADULTS, 345	ES DATABA
Detailed Location MAPPED BY CN 2016 DETECTIC Ecological: Threats: BD WAS DETEC General: DETECTED IN 2 AND 48 EGG M. PLSS: T09N, F	KE, VIRGI on: NDDB ACC ON IN VIRC CTED HER 2001, 2002 ASSES WE R19E, Sec 1 N427760	NIA LAKE, AN ORDING TO SINIA LAKE. E IN 2008 AN , 2003, 2005, ERE OBSERV 28 (M)	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C ID 2010. 2008, 2009, 2010, 2012, AND 20 /ED IN CERTAIN YEARS. Accuracy:	A DEPARTMENT OF FISH 16. POPULATIONS AS HIG specific area	AND WILDI	LIFE HIGH MOUNTAIN LAKE DULTS, 57 SUBADULTS, 345 Area (acres):	ES DATABA LARVAE, 123
Location: TAMARACK LAH Detailed Location MAPPED BY CN 2016 DETECTION Ecological: Threats: BD WAS DETECT General: DETECTED IN 2 AND 48 EGG MA PLSS: T09N, H UTM: Zone-1	KE, VIRGI on: NDDB ACC ON IN VIRC CTED HER 2001, 2002 ASSES WE R19E, Sec 1 N427760	NIA LAKE, AN ORDING TO SINIA LAKE. E IN 2008 AN , 2003, 2005, ERE OBSERV 28 (M)	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C ID 2010. 2008, 2009, 2010, 2012, AND 20 /ED IN CERTAIN YEARS. Accuracy: Latitude/Longitude:	A DEPARTMENT OF FISH 16. POPULATIONS AS HIG specific area 38.61120 / -119.89302	AND WILDI	LIFE HIGH MOUNTAIN LAKE DULTS, 57 SUBADULTS, 345 Area (acres):	ES DATABA LARVAE, 123
Location: TAMARACK LAN Detailed Location MAPPED BY CN 2016 DETECTION Ecological: Threats: BD WAS DETECT General: DETECTED IN 2 AND 48 EGG MA PLSS: TO9N, N UTM: Zone-1 County Summa Alpine	KE, VIRGI on: NDDB ACC ON IN VIRC CTED HER 2001, 2002 ASSES WE R19E, Sec 1 N427760	NIA LAKE, AN ORDING TO SINIA LAKE. E IN 2008 AN , 2003, 2005, ERE OBSERV 28 (M)	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C ID 2010. 2008, 2009, 2010, 2012, AND 20 /ED IN CERTAIN YEARS. Accuracy: Latitude/Longitude: Quad Summary:	A DEPARTMENT OF FISH 16. POPULATIONS AS HIG specific area 38.61120 / -119.89302	AND WILDI	LIFE HIGH MOUNTAIN LAKE DULTS, 57 SUBADULTS, 345 Area (acres):	ES DATABA LARVAE, 123
Location: TAMARACK LAH Detailed Location MAPPED BY CN 2016 DETECTION Ecological: Threats: BD WAS DETECT BD WAS DETECTED IN 2 AND 48 EGG MA PLSS: T09N, H UTM: Zone-1 County Summa Alpine Sources:	KE, VIRGIN on: NDDB ACC ON IN VIRC CTED HER 2001, 2002 ASSES WE R19E, Sec 1 N427760 IN427760	VIA LAKE, AN ORDING TO SINIA LAKE. E IN 2008 AN , 2003, 2005, ERE OBSERV 28 (M) 3 E248098	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C ID 2010. 2008, 2009, 2010, 2012, AND 20 /ED IN CERTAIN YEARS. Accuracy: Latitude/Longitude: Quad Summary:	A DEPARTMENT OF FISH 16. POPULATIONS AS HIG specific area 38.61120 / -119.89302 8)	AND WILDI	LIFE HIGH MOUNTAIN LAKE DULTS, 57 SUBADULTS, 345 Area (acres):	ES DATABA LARVAE, 123
Location: TAMARACK LAH Detailed Location MAPPED BY CN 2016 DETECTION Ecological: Threats: BD WAS DETECTED BD WAS DETECTED IN 2 AND 48 EGG MA PLSS: T09N, H UTM: Zone-1 County Summa	KE, VIRGI on: NDDB ACC ON IN VIRC CTED HER 2001, 2002 ASSES WE R19E, Sec 1 N427760 ry: BELLI, J CALIFOI	VIA LAKE, AN ORDING TO SINIA LAKE. E IN 2008 AN 2003, 2005, ERE OBSERV 28 (M) 3 E248098	ID SEVERAL NEARBY UNNAME DIGITAL DATA PROVIDED BY C ID 2010. 2008, 2009, 2010, 2012, AND 20 (ED IN CERTAIN YEARS. Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (381195 RVEY FORM FOR RANA SIERRA TMENT OF FISH AND WILDLIFE	A DEPARTMENT OF FISH 16. POPULATIONS AS HIG specific area 38.61120 / -119.89302 8) E 2016-09-22	AND WILDI	LIFE HIGH MOUNTAIN LAKE DULTS, 57 SUBADULTS, 345 Area (acres): Elevation (feet):	ES DATABA LARVAE, 123 8,000



California Department of Fish and Wildlife



Map Index Number:	74604		EO Index:		75612	
Key Quad:	Freel Peak (38	811978)	Element Code:		AAABH01340	
Occurrence Number:	333		Occurrence Last U	pdated:	2015-01-07	
Scientific Name:	Rana sierrae		Common Name:	Sierra Ne	evada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	_	VL-Watch List	
CNDDB Element Ran	ks: Global:	G1			I-Endangered ⋅Sensitive	
	State:	S1		_		
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTE MAY REQUIRE 2 - 4 Y DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Observed:	2013-08-12		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-08-12		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-LAKE T/	AHOE BMU	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
HELL HOLE MEADOV	/ ALONG TROUT	CREEK TRIBUTARY, ABOUT 4 I	MILES SE OF MEYERS, SO	OUTH OF I	LAKE TAHOE.	
Detailed Location:						
FELLERS SITE ID #LT	-06.					
Ecological:						
Threats:						
General:						
		2VED 19 AUG 1997. 2 ADULTS A JUN 2013. 1 ADULT, 5 SUBADU			ADPOLES ON 20 JUN 2012. 4	TADPOLE
PLSS: T11N, R18E,	Sec. 01, W (M)	Accuracy:	specific area		Area (acres):	44
UTM: Zone-11 N43	01753 E244356	Latitude/Longitude:	38.82748 / -119.94486		Elevation (feet):	8,350
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				
Sources:						
		EOLOGICAL SURVEY-WESTERN RENCES FROM 1992-2008 2008-		HCENTE	R) - MULTI-SPECIES EXCEL D	ATABASE



California Department of Fish and Wildlife



Map Index Number:	95651	_ /	EO Index:		96787	
Key Quad:	•	ws Res. (3811948)	Element Code:		AAABH01340	
Occurrence Number:	633		Occurrence Last U	pdated:	2015-03-25	
Scientific Name: R	ana sierrae		Common Name:	Sierra Ne	evada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:		VL-Watch List	
CNDDB Element Ranks	s: Global:	G1		_	N-Endangered -Sensitive	
	State:	S1				
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YF DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Observed:	2004-07-28		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2004-07-28		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
	CE OF PACIFIC	CREEK WITH ITS TRIBUTARY F	FROM MARSHALL CANYC	N, STANI	SLAUS NATIONAL FOREST.	
Detailed Location:						
Ecological:						
Threats:						
0					28 11 2004	
				NITY ON 2	20 JUL 2004.	
AT LEAST ONE INDIVID		IND DURING AN ELECTROFISHI				
AT LEAST ONE INDIVID PLSS: T07N, R19E, S	ec. 04, N (M)	Accuracy:	2/5 mile		Area (acres): 0	
AT LEAST ONE INDIVID	ec. 04, N (M)				Area (acres): 0 Elevation (feet): 7,8	00
AT LEAST ONE INDIVID PLSS: T07N, R19E, S	ec. 04, N (M)	Accuracy:	2/5 mile			00
AT LEAST ONE INDIVID PLSS: T07N, R19E, S UTM: Zone-11 N4264	ec. 04, N (M)	Accuracy: Latitude/Longitude: Quad Summary:	2/5 mile	811958)		00



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	95669		EO Index:		96808	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	Element Code: AAA		
Occurrence Number:	636		Occurrence Last U	pdated:	2015-03-20	
Scientific Name: R	ana sierrae		Common Name:	Sierra Ne	evada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	CDFW_WL-Watch List		
CNDDB Element Rank	s: Global:	G1		IUCN_EN-Endangered USFS_S-Sensitive		
	State:	S1				
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YF DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S □			
Last Date Observed:	2012-05-31		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2012-05-31		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-TOIYAE	BE NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
UPPER SUNSET LAKE	, LOWER SUNS	SET LAKE, AND SUMMIT LAKE, T	OIYABE NATIONAL FORE	ST.		
Detailed Location:						
Ecological:						
Threats:						
BD WAS DETECTED H	ERE IN 2010.					
General:						
		AKES IN 2003, 2005, 2008, 2009, DETECTED DURING ANY SURV		L LAKES V	VERE SURVEYED IN ANY ON	E YEAR, BU
PLSS: T09N, R19E, S	ec. 27, N (M)	Accuracy:	specific area		Area (acres):	98
UTM: Zone-11 N427	7471 E249623	Latitude/Longitude:	38.61044 / -119.87548		Elevation (feet):	8,000
County Summary:		Quad Summary:				
Alpine		Ebbetts Pass (381195	7), Pacific Valley (3811958))		

TO 2013 FIELDWORK 2014-03-26



California Department of Fish and Wildlife



Map Index Number:	95670		EO Index:		96810	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AAABH01340	
Occurrence Number:	637		Occurrence Last U	pdated:	2015-03-20	
Scientific Name: R	ana sierrae		Common Name:	Sierra Ne	wada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:		VL-Watch List	
CNDDB Element Ranks	s: Global:	G1		USFS S-	I-Endangered Sensitive	
	State:	S1				
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YF DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	ES 🗆			
Last Date Observed:	2012-09-17		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2012-09-17		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
0.8 MILE EAST OF LOV	VER BLUE LAKE	E DAM, WEST OF TAMARACK LA	AKE, TOIYABE NATIONAL	FOREST.		
Detailed Location:						
Ecological:						
Threats:						
BD WAS DETECTED H	ERE IN 2008.					
General:						
		2009, 2010, AND 2012. POPULA ED IN CERTAIN YEARS.	TIONS AS HIGH AS 46 AD	OULTS, 9 S	UBADULTS, 3 METAMORPHS	, 51 larvae
PLSS: T09N, R19E, S	ec. 29, NW (M)	Accuracy:	specific area		Area (acres):	13
UTM: Zone-11 N427	7113 E246381	Latitude/Longitude:	38.60630 / -119.91254		Elevation (feet):	8,300
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	58)			



California Department of Fish and Wildlife



Map Index Number:	95674		EO Index:	ę	96814		
Key Quad:	Carson Pass ((3811968)	Element Code:	1	AAABH01340		
Occurrence Number:	638		Occurrence Last U	pdated: 2	2015-03-20		
Scientific Name: R	ana sierrae		Common Name:	Sierra Neva	da yellow-legged frog		
Listing Status:	Federal:	Endangered	Rare Plant Rank:				
	State:	Threatened	Other Lists:	_	CDFW_WL-Watch List		
CNDDB Element Ranks	s: Global:	G1		IUCN_EN-E	0		
	State:	S1		_			
General Habitat:			Micro Habitat:				
ALWAYS ENCOUNTER MAY REQUIRE 2 - 4 YF DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆				
Last Date Observed:	2012-07-17		Occurrence Type:	Natural/Na	tive occurrence		
Last Survey Date:	2012-07-17		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknown			
Presence:	Presumed Exta	int					
_ocation:							
PONDS 1 MILE SE OF	WINNEMUCCA	LAKE, AT HEAD OF FORESTDAI	E CREEK, MOKELUMNE	WILDERNES	S, TOIYABE NATIONAL FO	REST.	
Detailed Location:							
Ecological:							
Threats:							
BD WAS DETECTED H	ERE IN 2008 AN	ID 2010.					
General:							
DETECTED IN 2003, 20 EGG MASS WERE DET		AND 2012. POPULATIONS AS H TAIN YEARS.	IGH AS 26 ADULTS, 3 SU	BADULTS, 9	METAMORPHS, 277 LARVA	AE, AND 1	
PLSS: T10N, R18E, S	ec. 35, SW (M)	Accuracy:	specific area		Area (acres):	8	
UTM: Zone-11 N428	3493 E241334	Latitude/Longitude:	38.66226 / -119.97280		Elevation (feet):	8,700	
County Summary:		Quad Summary:					
		Carson Pass (3811968	3)				
Alpine			,				



California Department of Fish and Wildlife



VERSITY			-			
Map Index Number:	95677		EO Index:		96815	
Key Quad:	Carson Pass ((3811968)	Element Code:		AAABH01340	
Occurrence Number:	639		Occurrence Last U	pdated:	2015-03-20	
Scientific Name:	Rana sierrae		Common Name:	Sierra Neva	ada yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	_	-Watch List	
CNDDB Element Ran	ks: Global:	G1		USFS S-S	Endangered ensitive	
	State:	S1				
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTE MAY REQUIRE 2 - 4 Y DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	ES 🗆			
Last Date Observed:	2010-07-10		Occurrence Type:	Natural/Na	ative occurrence	
Last Survey Date:	2012-07-17		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR/	ADO NF, UNKNOWN	Trend:	Unknown		
Presence:	Presumed Exta	int				
Location:						
WEST SIDE OF UPPE	R BLUE LAKE, S	OUTH OF UPPER BLUE LAKE C	AMPGROUND, EDGE OF	MOKELUMN	E WILDERNESS.	
Detailed Location:						
Ecological:						
Threats:						
BD WAS DETECTED	HERE IN 2010.					
General:						
		1 METAMORPH DETECTED 11 NONE FOUND DURING SURVEY		FECTED 23	JUL 2009. 1 ADULT DETECT	ED 1 JUL
PLSS: T09N, R18E,	Sec. 12, SW (M)	Accuracy:	specific area		Area (acres):	153
UTM: Zone-11 N42	80333 E242461	Latitude/Longitude:	38.63415 / -119.95870		Elevation (feet):	8,200
County Summary:		Quad Summary:				
Alpine		Carson Pass (381196	8)			
Sources:						
	IFORNIA DEPAR 2013 FIELDWORK	TMENT OF FISH AND WILDLIFE (2014-03-26	- CDFW AMPHIBIANS - HI	GH MOUNT	AIN LAKES DATABASE, CO	VERING 19
USFNDD0002 U.S.		CE-REGION 5 - NATURAL RESO	URCE INFORMATION SYS	STEM (NRIS) ANIMAL RECORDS FROM	CALIFORN



California Department of Fish and Wildlife



Map Index Number:	95679		EO Index:	9681	6	
Key Quad:	Freel Peak (3	811978)	Element Code:	AAA	BH01340	
Occurrence Number:	640		Occurrence Last U	pdated: 2015	j-03-20	
Scientific Name: F	Rana sierrae		Common Name:	Sierra Nevada y	ellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	CDFW_WL-Wat		
CNDDB Element Rank	s: Global:	G1		IUCN_EN-Enda USFS S-Sensit		
	State:	S1		_		
General Habitat:			Micro Habitat:			
ALWAYS ENCOUNTEF MAY REQUIRE 2 - 4 YI DEVELOPMENT.		EW FEET OF WATER. TADPOLE TE THEIR AQUATIC	S 🗆			
Last Date Observed:	2013-06-27		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	2013-06-27		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
1.4 MILES WEST OF A	RMSTRONG PA	ASS, NW OF HELL HOLE, CARSO	N RANGE, SOUTH OF SO	UTH LAKE TAHO	DE.	
Detailed Location:						
Ecological:						
Threats:						
General:						
1 ADULT ORSERVED		GS AND ADULTS OBSERVED 27	' JUN 2013.			
	Sec $01 NIM (M)$	Accuracy:	specific area		Area (acres):	11
PLSS: T11N, R18E, S		UTM: Zone-11 N4302473 E245013 Latitude/Longitude: 38			Elevation (feet):	8,300
PLSS: T11N, R18E, S		Latitude/Longitude:	38.83415 / -119.93757			,
PLSS: T11N, R18E, S		Latitude/Longitude: Quad Summary:	36.634157-119.93757			,
PLSS: T11N, R18E, S UTM: Zone-11 N430		-	36.634157-119.93757			



California Department of Fish and Wildlife



Map Index Number:	21519		EO Index:		12900	
Key Quad:	Heenan Lake	(3811966)	Element Code:		ABNKC10010	
Occurrence Number:	129		Occurrence Last U	pdated:	1999-06-03	
Scientific Name:	Haliaeetus leucoc	ephalus	Common Name:	bald eagl	e	
Listing Status:	Federal:	Delisted	Rare Plant Rank:			
	State:	Endangered	Other Lists:	BLM_S-S		
CNDDB Element Ran	ks: Global:	G5		CDF_S-S CDFW_F	ensitive P-Fully Protected	
	State:	S3		USFS_S-	-Least Concern Sensitive BCC-Birds of Conservation Cor	icern
General Habitat:			Micro Habitat:			
		O RIVERS FOR BOTH NESTING IIN 1 MILE OF WATER.		ESPECIA	WTH, OR DOMINANT LIVE TR LLY PONDEROSA PINE. ROO	
Last Date Observed:	1997-XX-XX		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1997-XX-XX		Occurrence Rank:	Good		
Owner/Manager:	DFG-HEENAN	LAKE WA	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
_ocation:						
HEENAN LAKE TERR	ITORY; SOUTHW	EST CORNER OF HEENAN LAK	E, SOUTH OF HWY 89 AT	SAGEHEN	N FLAT, ALPINE COUNTY.	
Detailed Location:						
NEST IS IN AN 80-FT	JEFFREY PINE, 7	100 FT ABOVE THE ROAD ON TH	HE WEST SIDE OF THE LA	AKE.		
Ecological:						
	FREY PINE; SUR	ROUNDING HABITAT IS JEFFRE	EY PINE FOREST INTERS	PERSED W	/ITH SAGEBRUSH/BITTERBRI	JSH.
Threats:						
Threats: General: NEST DISCOVERED		TS AND 2 JUVENILES OBSERVE YOUNG FLEDGED IN 1996. 1 YO		FLEDGE	D IN 1993. OCCUPIED/UNSUC	CESSFUL IN
Threats: General: NEST DISCOVERED 1994. 1 YOUNG FLEE	GED IN 1995. 2 Y			FLEDGE	D IN 1993. OCCUPIED/UNSUC	CESSFUL IN
Threats: General: NEST DISCOVERED 1994. 1 YOUNG FLED PLSS: T09N, R21E,	GED IN 1995. 2 Y	YOUNG FLEDGED IN 1996. 1 YO	UNG FLEDGEÓ IN 1997.	FLEDGE		
Threats: General: NEST DISCOVERED 1994. 1 YOUNG FLED PLSS: T09N, R21E,	OGED IN 1995. 2 Y Sec. 10, NW (M)	OUNG FLEDGED IN 1996. 1 YOI Accuracy:	UNG FLEDGED IN 1997. 1/10 mile	FLEDGE	Area (acres):	0
Threats: General: NEST DISCOVERED 1994. 1 YOUNG FLED PLSS: T09N, R21E, UTM: Zone-11 N42	OGED IN 1995. 2 Y Sec. 10, NW (M)	OUNG FLEDGED IN 1996. 1 YO Accuracy: Latitude/Longitude:	UNG FLEDGEĎ IN 1997. 1/10 mile 38.64723 / -119.66468	FLEDGE	Area (acres):	0
Threats: General: NEST DISCOVERED 1994. 1 YOUNG FLED PLSS: T09N, R21E, UTM: Zone-11 N42 County Summary: Alpine	OGED IN 1995. 2 Y Sec. 10, NW (M)	OUNG FLEDGED IN 1996. 1 YO Accuracy: Latitude/Longitude: Quad Summary:	UNG FLEDGEĎ IN 1997. 1/10 mile 38.64723 / -119.66468	FLEDGED	Area (acres):	0
Threats: General: NEST DISCOVERED 1994. 1 YOUNG FLED PLSS: T09N, R21E, UTM: Zone-11 N42 County Summary: Alpine Sources: DFG97U0001 DFG	GED IN 1995. 2 Y Sec. 10, NW (M) 80999 E268100	OUNG FLEDGED IN 1996. 1 YO Accuracy: Latitude/Longitude: Quad Summary:	UNG FLEDGEĎ IN 1997. 1/10 mile 38.64723 / -119.66468 6)		Area (acres): Elevation (feet):	0 7,000
Threats: General: NEST DISCOVERED 1994. 1 YOUNG FLED PLSS: T09N, R21E, UTM: Zone-11 N42 County Summary: Alpine Sources: DFG97U0001 DFG DFG97U0002 DFG	GED IN 1995. 2 Y Sec. 10, NW (M) 80999 E268100 G - NONGAME BIF ORMATION FROM G - NONGAME BIF	YOUNG FLEDGED IN 1996. 1 YOU Accuracy: Latitude/Longitude: Quad Summary: Heenan Lake (381196 RD & MAMMAL CONSERVATION	UNG FLEDGEĎ IN 1997. 1/10 mile 38.64723 / -119.66468 6) PROGRAM - CALIFORNIA	A BALD EA	Area (acres): Elevation (feet): GLE BREEDING TERRITORY	0 7,000



California Department of Fish and Wildlife



Map Index Number:	14425		EO Index:	2	26680	
Key Quad:	South Lake Ta	ahoe (3811988)	Element Code:	A	ABNKC12060	
Occurrence Number:	126		Occurrence Last U	pdated: 1	995-12-07	
Scientific Name: Ad	ccipiter gentilis		Common Name:	northern gos	shawk	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	BLM_S-Sen		
CNDDB Element Ranks	: Global:	G5		CDF_S-Sen CDFW SSC	sitive C-Species of Special Concer	า
	State:	S3		_	east Concern	
General Habitat:			Micro Habitat:			
WITHIN, AND IN VICINI NESTS, AND MAINTAIN		EROUS FOREST. USES OLD SITES.			LOPES, NEAR WATER. RE INE, AND ASPENS ARE TY	
Last Date Observed:	1981-XX-XX		Occurrence Type:	Natural/Nat	tive occurrence	
Last Survey Date:	1981-XX-XX		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Decreasing	J	
Presence:	Presumed Exta	ant				
Location:						
TROUT CREEK.						
Detailed Location:						
Ecological:						
Threats:						
General:						
EYRIE NUMBER ED001	. NEST IN A LC	DGEPOLE ABANDONED BECAU	JSE OF A LAND USE CHA	NGE. (REED)).	
PLSS: T12N, R18E, S	ec. 15, SE (M)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N4308	078 E242265	Latitude/Longitude:	38.88379 / -119.97129		Elevation (feet):	6,320
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978),	, South Lake Tahoe (38119	88)		
Sources:						



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	14394		EO Index:	25	524	
Key Quad:	Carson Pass	(3811968)	Element Code:	AE	BNSB12040	
Occurrence Number:	15		Occurrence Last U	Ipdated: 19	96-02-02	
Scientific Name: S	trix nebulosa		Common Name:	great gray ow	1	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	Endangered	Other Lists:	CDF_S-Sens		
CNDDB Element Rank	s: Global:	G5		IUCN_LC-Lea USFS_S-Sen		
	State:	S1				
General Habitat:			Micro Habitat:			
RESIDENT OF MIXED ON EDGE OF MEADO		ED FIR FOREST HABITAT, IN OF		-	NAGS IN A FOREST WITH IVIDE A COOL SUB-CANC	-
Last Date Observed:	1971-06-XX		Occurrence Type:	Natural/Nativ	ve occurrence	
Last Survey Date:	1979-XX-XX		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
0.3 MILE WEST OF CA	RSON PASS.					
Detailed Location:						
Ecological:						
Threats:						
General: CONFIRMED SIGHTIN SUITABLE HABITAT W		ULT EACH SUMMER FROM 1968 ASS.	B THROUGH 1971. THIS IS	A POSSIBLE	BREEDING AREA, AND TH	IERE IS
PLSS: T10N, R18E, S	Sec. 22, SE (M)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N428	6990 E240562	Latitude/Longitude:	38.69351 / -119.98297		Elevation (feet):	8,200
County Summary:		Quad Summary:				
A la 's s		Carson Pass (3811968	3), Caples Lake (3812061)			
Alpine						

Commercial Version -- Dated August, 30 2020 -- Biogeographic Data Branch

Report Printed on Tuesday, September 15, 2020

1980-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	14638		EO Index:	25522		
Key Quad:	Markleeville (3	3811967)	Element Code:		312040	
Occurrence Number:	19		Occurrence Last U	pdated: 1989-0	08-10	
Scientific Name: S	trix nebulosa		Common Name:	great gray owl		
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	Endangered	Other Lists:	CDF_S-Sensitive	`~~~~~	
CNDDB Element Ranks	s: Global:	G5		IUCN_LC-Least C USFS_S-Sensitive		
	State:	S1				
General Habitat:			Micro Habitat:			
RESIDENT OF MIXED (ON EDGE OF MEADOV		ED FIR FOREST HABITAT, IN OF			S IN A FOREST WITH E A COOL SUB-CANC	-
ast Date Observed:	1979-12-XX		Occurrence Type:	Natural/Native of	courrence	
ast Survey Date:	1984-08-13		Occurrence Rank:	Unknown		
Owner/Manager:	DPR-GROVER	R HOT SPRINGS SP	Trend:	Unknown		
Presence:	Presumed Exta	ant				
_ocation:						
GROVER HOT SPRING	S STATE PARK	X, JUST WEST OF MARKLEEVILL	_E.			
Detailed Location:						
Ecological:						
THE HABITAT IS SURR PERCHES AROUND TH		LD GROWTH WHICH WOULD SU	UPPORT BREEDING. THEI	RE ARE A NUMBE	R OF EXCELLENT HU	NTING
Threats:						
General:						
ONE OWL OBSERVED A NEST LOCATED.	IN BOTH JUNE	AND DECEMBER OF 1979. THIS	S IS A PROBABLE NESTIN	G AREA, BUT NO	PAIRS HAVE BEEN O	BSERVED C
PLSS: T10N, R19E, S	ec. 24 (M)	Accuracy:	1/5 mile		Area (acres):	0
JTM: Zone-11 N428	7153 E252903	Latitude/Longitude:	38.69851 / -119.84130		Elevation (feet):	5,920
County Summary:		Quad Summary:				
Alpine		Markleeville (3811967)			

WIN84R0001 WINTER, J. - GREAT GRAY OWL SURVEY, 1984 1984-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	23972		EO Index:		7168	
Key Quad:	Woodfords (3	811977)	Element Code:		ABNUA01010	
Occurrence Number:	50		Occurrence Last U	pdated:	1993-08-17	
Scientific Name: C	ypseloides niger		Common Name:	black swi	ft	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		SC-Species of Special Concern	า
CNDDB Element Ranks	s: Global:	G4			C-Least Concern WL-Yellow Watch List	
	State:	S2		USFWS_	BCC-Birds of Conservation Con	ncern
General Habitat:			Micro Habitat:			
	N SIERRA NEV	D MONTEREY COUNTIES; ADA; SAN BERNARDINO & SAN		EEP CAN	ES ON CLIFFS BEHIND OR AD YONS AND SEA-BLUFFS ABO	
Last Date Observed:	1992-XX-XX		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1992-XX-XX		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-HUMBC	DLDT-TOIYABE NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
CLOUDBURST CANYO	N, TRIBUTARY	TO THE WEST FORK OF THE C	ARSON RIVER, 2.5 MILES	WSW OF	WOODFORDS.	
Detailed Location:						
ARRIVAL DATES RANG	GE FROM 5-10 M	MAY; DEPARTURE DATES FROM	A 30 AUGUST TO 5 SEPTE	MBER.		
Ecological:						
NESTING HABITAT CO	NSISTS OF A V	VATERFALL.				
Threats:						
General:						
		36, WHEN 4-6 PAIRS WERE EST THROUGH THE 1992 BREEDING				HAVE
PLSS: T10N, R19E, S	ec. 02 (M)	Accuracy:	80 meters		Area (acres):	0
UTM: Zone-11 N4293	3826 E251183	Latitude/Longitude:	38.75809 / -119.86346		Elevation (feet):	6,500
County Summary:		Quad Summary:				
Alpine		Woodfords (3811977)				

KNO93A0001 KNORR, O.A. - BREEDING OF THE BLACK SWIFT IN THE GREAT BASIN. WESTERN BIRDS (24:197-198, 1993) 1993-XX-XX



California Department of Fish and Wildlife



Map Index Number:	14483		EO Index:	25306
Key Quad:	Carson Pass (3811968)	Element Code:	ABPAE33040
Occurrence Number:	60		Occurrence Last U	pdated: 2006-08-16
Scientific Name: E	mpidonax traillii		Common Name:	willow flycatcher
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	Endangered	Other Lists:	IUCN_LC-Least Concern
CNDDB Element Ranks	: Global:	G5		USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern
	State:	S1S2		
General Habitat:			Micro Habitat:	
		.OW, DENSE WILLOWS ON EDG KWATERS; 2000-8000 FT		WILLOW THICKETS FOR NESTING/ROOSTING. RANCHES ARE USED FOR SINGING PERCHES.
Last Date Observed:	1986-06-26		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1986-06-26		Occurrence Rank:	Good
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknown
Presence:	Presumed Exta	nt		
Location:				
FAITH VALLEY, 8 MILE	S WEST OF MAI	RKLEEVILLE, TOIYABE NATION	AL FOREST.	
Detailed Location:				
LOCATION MAPPED IS NATIONAL FOREST IN		H VALLEY LOCATED IN SECTIO	NS 30 AND 31. MALES FC	OUND AT ONLY TWO LOCATIONS IN TOIYABE
Ecological:				
HABITAT IS A LARGE, V GRAZING.	WET MEADOW	WITH EXTENSIVE WILLOW THIC	CKETS; MUCH OF THE ME	EADOW IS APPARENTLY TOO WET FOR LIVESTOCK
Threats:				
General:				
		NG MALES OBSERVED IN 26 JU BSERVED ON 11 JUL 2004.	N 1986. A POSSIBLE FOU	RTH MALE OBSERVED PERCHED ATOP WILLOW IN
PLSS: T10N, R19E, S	ec. 30 (M)	Accuracy:	3/5 mile	Area (acres): 0
UTM: Zone-11 N4285	663 E245073	Latitude/Longitude:	38.68288 / -119.93068	Elevation (feet): 7,500
County Summary:		Quad Summary:		
Alpine		Carson Pass (3811968	3)	
Sources:				
DFG87U0017 DFG - 12-01	NONGAME WIL	DLIFE SECTION - GORDON GO	ULD'S DATABASE PRINT	OUT FOR WILLOW FLYCATCHER SIGHTINGS 1987-
		STATUS AND DISTRIBUTION O IFE MANAGEMENT BRANCH, C		CHER IN CALIFORNIA, 1986. ADMINISTRATIVE
	,	ELD SURVEY FORM FOR EMPI		



California Department of Fish and Wildlife



Map Index Number:	14507		EO Index:		25305
Key Quad:	Carson Pass	(3811968)	Element Code:		ABPAE33040
Occurrence Number:	61		Occurrence Last U	pdated:	2004-12-10
Scientific Name: E	mpidonax traillii		Common Name:	willow fly	vcatcher
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	Endangered	Other Lists:	_	C-Least Concern
CNDDB Element Rank	s: Global:	G5			-Sensitive _BCC-Birds of Conservation Concern
	State:	S1S2		-	_
General Habitat:			Micro Habitat:		
INHABITS EXTENSIVE OF WET MEADOWS, P ELEVATION.	THICKETS OF I ONDS, OR BAC	LOW, DENSE WILLOWS ON EDG KWATERS; 2000-8000 FT		RANCHES	THICKETS FOR NESTING/ROOSTING. ARE USED FOR SINGING
Last Date Observed:	1986-06-26		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1986-06-26		Occurrence Rank:	Unknow	'n
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	<i>i</i> n
Presence:	Presumed Exta	ant			
Location:					
UPPER CHARITY VALL	EY, 8 MILES W	SW OF MARKLEEVILLE, TOIYABI	E NATIONAL FOREST.		
Detailed Location:					
	AT TWO LOCAT	IONS IN TOIYABE NATIONAL FO	REST IN 1986.		
Ecological:					
SURVEY AREA HAS A APPEAR TO BE GRAZI		EADOW WITH AN EXTENSIVE W	ILLOW THICKET; APPAR	ENTLY TO	OO WET FOR GRAZING. AREA DOES NO
Threats:					
General:					
TWO BREEDING MALE	S OBSERVED	ON 26 JUN 1986.			
PLSS: T09N, R19E, S	ec. 05 (M)	Accuracy:	3/5 mile		Area (acres): 0
UTM: Zone-11 N428		Latitude/Longitude:	38.65472 / -119.91642		Elevation (feet): 7,900
County Summary:		Quad Summary:			
Alpine		Carson Pass (3811968))		
Sources:					
	NONGAME WI	LDLIFE SECTION - GORDON GO	JLD'S DATABASE PRINT	OUT FOR	WILLOW FLYCATCHER SIGHTINGS 198
12-01					
		E STATUS AND DISTRIBUTION OI LIFE MANAGEMENT BRANCH, CA			CALIFORNIA, 1986. ADMINISTRATIVE



California Department of Fish and Wildlife



Map Index Number:	210	77			EO Index:		23973	
Key Quad:	Car	son Pass (3	811968)		Element Code:		ABPAE33040	
Occurrence Number:	93				Occurrence Last Up	odated:	2006-08-15	
Scientific Name:	Empido	nax traillii			Common Name:	willow flyc	atcher	
Listing Status:	F	Federal:	None		Rare Plant Rank:			
	5	State:	Endangered		Other Lists:		Least Concern	
CNDDB Element Ran	ks: (Global:	G5			USFS_S-S	Sensitive BCC-Birds of Conservation Cor	ncern
	5	State:	S1S2			001 110_1		loom
General Habitat:					Micro Habitat:			
INHABITS EXTENSIV OF WET MEADOWS, ELEVATION.						ANCHES	HICKETS FOR NESTING/RO ARE USED FOR SINGING	OSTING.
Last Date Observed:	2004	1-07-15			Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2004	I-07-15			Occurrence Rank:	Good		
Owner/Manager:	DFG	-RED LAKE	WA		Trend:	Unknown	I	
Presence:	Pres	umed Extar	t					
Location:								
NORTH AND WEST S	SIDE OF	RED LAKE	, ALONG HIGHWAY 8	88.				
	SIDE OF	RED LAKE	, ALONG HIGHWAY 8	88.				
Detailed Location:					04F0002 SITE IS AT NA	.D27 UTM :	ZONE 10 762699 E, 4287334 I	N.
Detailed Location: MAT04F0001 SITE IS					04F0002 SITE IS AT NA	.D27 UTM .	ZONE 10 762699 E, 4287334 I	N.
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN	AT NAE	D27 UTM ZO	DNE 10 763230 E, 428	37896 N. MAT (5-10 FT.), 40) % MEADOW GRASSES	S AND FOF	RBS. 2 OLD BEAVER DAMS P	ROVIDE 2
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE	AT NAE	D27 UTM ZO	DNE 10 763230 E, 428	37896 N. MAT (5-10 FT.), 40) % MEADOW GRASSES	S AND FOF		ROVIDE 2
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats:	AT NAE I/MEAD(ERAL SI	D27 UTM ZG OW HABIT/ MALL STRE	DNE 10 763230 E, 428 NT; 60 % SALIX SPP. EAMS WITH RUNNING	37896 N. MAT (5-10 FT.), 40 G WATER. ST) % MEADOW GRASSES	S AND FOF	RBS. 2 OLD BEAVER DAMS P	ROVIDE 2
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA	AT NAE I/MEAD(ERAL SI	D27 UTM ZG OW HABIT/ MALL STRE	DNE 10 763230 E, 428 NT; 60 % SALIX SPP. EAMS WITH RUNNING	37896 N. MAT (5-10 FT.), 40 G WATER. ST) % MEADOW GRASSES	S AND FOF	RBS. 2 OLD BEAVER DAMS P	ROVIDE 2
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI	AT NAE I/MEADO ERAL SI A; NO GF ES OBS	D27 UTM ZG OW HABIT/ MALL STRE RAZING, NG BTWN 080	DNE 10 763230 E, 428 T; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC 10-0900 HRS; RESPO	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA) % MEADOW GRASSES FANDING WATER PRES	S AND FOF ENT. DFG UAL SIGH ⁻	RBS. 2 OLD BEAVER DAMS P	ROVIDE 2 5 ACRES.
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI WEST SIDE, 12 AT NO	AT NAE I/MEADO ERAL SI A; NO GF ES OBS ORTH S	D27 UTM ZG OW HABIT/ MALL STRE RAZING, NG S BTWN 080 SIDE) DURII	DNE 10 763230 E, 428 T; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC 10-0900 HRS; RESPO	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL) % MEADOW GRASSES FANDING WATER PRES	S AND FOF ENT. DFG UAL SIGH ⁻	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE	ROVIDE 2 5 ACRES.
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23	D27 UTM ZG OW HABIT/ MALL STRE RAZING, NG S BTWN 080 SIDE) DURII 3, NW (M)	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC 00-0900 HRS; RESPO NG SURVEY 23 JUN	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n) % MEADOW GRASSES FANDING WATER PRES NPED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 (S AND FOF ENT. DFG UAL SIGH ⁻	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004.	ROVIDE 2 5 ACRES. D (10 AT
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI WEST SIDE, 12 AT NO PLSS: T10N, R18E,	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23	D27 UTM ZG OW HABIT/ MALL STRE RAZING, NG S BTWN 080 SIDE) DURII 3, NW (M)	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC 00-0900 HRS; RESPO NG SURVEY 23 JUN	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n ongitude: 3) % MEADOW GRASSES FANDING WATER PRES NPED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 0	S AND FOF ENT. DFG UAL SIGH ⁻	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004. Area (acres):	ROVIDE 2 5 ACRES. D (10 AT 35
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI WEST SIDE, 12 AT NO PLSS: T10N, R18E, UTM: Zone-11 N42	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23	D27 UTM ZG OW HABIT/ MALL STRE RAZING, NG S BTWN 080 SIDE) DURII 3, NW (M)	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC 00-0900 HRS; RESPO NG SURVEY 23 JUN Accuracy: Latitude/Lo Quad Sumi	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n ongitude: 3) % MEADOW GRASSES FANDING WATER PRES NPED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 0	S AND FOF ENT. DFG UAL SIGH ⁻	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004. Area (acres):	ROVIDE 2 5 ACRES. D (10 AT 35
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI WEST SIDE, 12 AT NO PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary:	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23	D27 UTM ZG OW HABIT/ MALL STRE RAZING, NG S BTWN 080 SIDE) DURII 3, NW (M)	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC 00-0900 HRS; RESPO NG SURVEY 23 JUN Accuracy: Latitude/Lo Quad Sumi	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n ongitude: 3 mary:) % MEADOW GRASSES FANDING WATER PRES NPED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 0	S AND FOF ENT. DFG UAL SIGH ⁻	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004. Area (acres):	ROVIDE 2 5 ACRES. D (10 AT 35
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALL WEST SIDE, 12 AT NO PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary: Alpine Sources:	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23 87980 E	D27 UTM Z OW HABIT/ MALL STRE RAZING, NG BTWN 080 BIDE) DURII 3, NW (M) E241478	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC 00-0900 HRS; RESPO NG SURVEY 23 JUN Accuracy: Latitude/Lo Quad Sumi Carson Pas	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n ongitude: 3 mary: s (3811968)) % MEADOW GRASSES FANDING WATER PRES NPED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 0	S AND FOF ENT. DFG UAL SIGH ⁻ JNPAIRED	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004. Area (acres):	ROVIDE 2 5 ACRES. D (10 AT 35
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI WEST SIDE, 12 AT NO PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary: Alpine Sources: HIN91F0001 HIN3	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23 87980 E 287980 E	D27 UTM ZC OW HABIT/ MALL STRE RAZING, NC S BTWN 080 SIDE) DURII 3, NW (M) E241478 D. GIFFORI	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC NO-0900 HRS; RESPO NG SURVEY 23 JUN Accuracy: Latitude/Lo Quad Sumi Carson Pas	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n ongitude: 3 mary: s (3811968) ORM FOR EM	9 % MEADOW GRASSES FANDING WATER PRES PED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 0 non-specific area 88.70268 / -119.97282	S AND FOF ENT. DFG UAL SIGH ⁻ JNPAIRED	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004. Area (acres):	ROVIDE 2 5 ACRES. D (10 AT 35
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI WEST SIDE, 12 AT NO PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary: Alpine Sources: HIN91F0001 HIN2	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23 87980 E Z, D. & I Z, D. & I	D27 UTM ZC OW HABIT/ MALL STRE RAZING, NC BTWN 080 BTWN 080 BTWN 080 BTWN 080 BTWN 080 BTWN 080 BTWN 080 D. GIFFORI D. GIFFORI	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. AMS WITH RUNNING D MOTORIZED VEHIC 00-0900 HRS; RESPO NG SURVEY 23 JUN Accuracy: Latitude/Lo Quad Sumi Carson Pas	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n ongitude: 3 mary: s (3811968) ORM FOR EM ORM FOR EM	9 % MEADOW GRASSES FANDING WATER PRES NPED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 (non-specific area 88.70268 / -119.97282	S AND FOF ENT. DFG UAL SIGH ⁻ JNPAIRED	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004. Area (acres):	ROVIDE 2 5 ACRES. D (10 AT 35
Detailed Location: MAT04F0001 SITE IS Ecological: MONTANE RIPARIAN SMALL PONDS. SEVE Threats: DFG WILDLIFE AREA General: 6 TERRITORIAL MALI WEST SIDE, 12 AT NO PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary: Alpine Sources: HIN91F0001 HIN3 HIN91F0002 HIN3 MAT04F0001 MAT	AT NAL I/MEADO ERAL SI A; NO GF ES OBS ORTH S Sec. 23 287980 E Z, D. & I Z, D. & I Z, D. & I	D27 UTM ZC OW HABIT/ MALL STRE RAZING, NG B BTWN 086 SIDE) DURII 3, NW (M) E241478 D. GIFFORI D. GIFFORI ON, H FIE	DNE 10 763230 E, 428 AT; 60 % SALIX SPP. EAMS WITH RUNNING D MOTORIZED VEHIC NO ODO HRS; RESPO NG SURVEY 23 JUN Accuracy: Latitude/Lo Quad Sumi Carson Pas D - FIELD SURVEY FO D - FIELD SURVEY FORM F	37896 N. MAT (5-10 FT.), 40 G WATER. ST CLES. NDED TO TA 1992. 2 ADUL n ongitude: 3 mary: s (3811968) ORM FOR EM ORM FOR EM	9 % MEADOW GRASSES FANDING WATER PRES PED CALLS & HAD VISI TS OBS 5 JUN 2004. 1 0 non-specific area 88.70268 / -119.97282	AND FOF ENT. DFG UAL SIGH ^T JNPAIRED	RBS. 2 OLD BEAVER DAMS P WILDLIFE AREA, APPROX. 1 FINGS. 22 ADULTS DETECTE MALE OBS 15 JUL 2004. Area (acres):	ROVIDE 2 5 ACRES. D (10 AT 35



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	65844		EO Index:		65923	
Key Quad:	Carson Pass (3811968)	Element Code:		ABPAE33040	
Occurrence Number:	132		Occurrence Last U	pdated:	2006-09-05	
Scientific Name: E	mpidonax traillii		Common Name:	willow fly	catcher	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	Endangered	Other Lists:		C-Least Concern	
CNDDB Element Ranks	s: Global:	G5			-Sensitive _BCC-Birds of Conservation Cor	ncern
	State:	S1S2				
General Habitat:			Micro Habitat:			
		.OW, DENSE WILLOWS ON EDGE KWATERS; 2000-8000 FT		RANCHES	THICKETS FOR NESTING/RO ARE USED FOR SINGING	OSTING.
	2004 06 42		Occurrence Type:	Natural/	Native occurrence	
Last Date Observed:	2004-06-13					
Last Date Observed: Last Survey Date:	2004-06-13		Occurrence Rank:	Exceller	nt	
	2004-06-13	LDT-TOIYABE NF	Occurrence Rank: Trend:	Exceller Unknow	-	
Last Survey Date:	2004-06-13				-	
Last Survey Date: Owner/Manager:	2004-06-13 USFS-HUMBO				-	
Last Survey Date: Owner/Manager: Presence: Location:	2004-06-13 USFS-HUMBO Presumed Exta		Trend:	Unknow	'n	
Last Survey Date: Owner/Manager: Presence: Location:	2004-06-13 USFS-HUMBO Presumed Exta	nt	Trend:	Unknow	'n	
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE	Trend: CRATER LAKE, ELDORA	Unknow	ONAL FOREST.	NG
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location:	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE	Trend: CRATER LAKE, ELDORA	Unknow	ONAL FOREST.	٩G
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI COORDINATES GIVEN Ecological: WILLOW / ASPEN COM	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA IN NE 1/4 OF N	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE	Trend: CRATER LAKE, ELDORA DE OF RED LAKE PEAK, EYERIANA. BEAVER ACT	Unknow	n ONAL FOREST. F HIGHWAY 88." MAPPED USII	
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI COORDINATES GIVEN Ecological: WILLOW / ASPEN COM	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA IN NE 1/4 OF N	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE E 1/4 SEC 14. NANTS: SALIX LEMMONII & S. GE	Trend: CRATER LAKE, ELDORA DE OF RED LAKE PEAK, EYERIANA. BEAVER ACT	Unknow	n ONAL FOREST. F HIGHWAY 88." MAPPED USII	
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI COORDINATES GIVEN Ecological: WILLOW / ASPEN COM MEADOW. NATURAL P Threats: General:	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA IN NE 1/4 OF N IMUNITY. DOMII ONDS AND SPF	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE E 1/4 SEC 14. NANTS: SALIX LEMMONII & S. GE RINGS CONTRIBUTING TO WATER	Trend: CRATER LAKE, ELDORA DE OF RED LAKE PEAK, EYERIANA. BEAVER ACT R.	Unknow	YN ONAL FOREST. F HIGHWAY 88." MAPPED USIF NTRIBUTING TO POOLED WA	TER IN
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI COORDINATES GIVEN Ecological: WILLOW / ASPEN COM MEADOW. NATURAL P Threats: General: BREEDING & NESTING	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA IN NE 1/4 OF N MUNITY. DOMII ONDS AND SPF	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE E 1/4 SEC 14. NANTS: SALIX LEMMONII & S. GE	Trend: CRATER LAKE, ELDORA DE OF RED LAKE PEAK, YERIANA. BEAVER ACT R.	Unknow DO NATH WEST OI	ONAL FOREST. F HIGHWAY 88." MAPPED USI NTRIBUTING TO POOLED WA	TER IN
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI COORDINATES GIVEN Ecological: WILLOW / ASPEN COM MEADOW. NATURAL P Threats: General: BREEDING & NESTING	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA IN NE 1/4 OF N MUNITY. DOMII ONDS AND SPF	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE E 1/4 SEC 14. NANTS: SALIX LEMMONII & S. GE RINGS CONTRIBUTING TO WATER S AND 1 JUVENILE OBSERVED F E, BOTH NESTS FAILED. SECONI	Trend: CRATER LAKE, ELDORA DE OF RED LAKE PEAK, YERIANA. BEAVER ACT R.	Unknow DO NATH WEST OI	ONAL FOREST. F HIGHWAY 88." MAPPED USI NTRIBUTING TO POOLED WA	TER IN
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI COORDINATES GIVEN Ecological: WILLOW / ASPEN COM MEADOW. NATURAL P Threats: General: BREEDING & NESTING BREEDING & NESTING	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA IN NE 1/4 OF N MUNITY. DOMII ONDS AND SPF SITE. 4 ADULT FEMPTED TWIC ec. 14, NE (M)	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE E 1/4 SEC 14. NANTS: SALIX LEMMONII & S. GE RINGS CONTRIBUTING TO WATER S AND 1 JUVENILE OBSERVED F E, BOTH NESTS FAILED. SECONT	Trend: CRATER LAKE, ELDORA DE OF RED LAKE PEAK, EYERIANA. BEAVER ACT R. FROM 13 JUN THROUGH D PAIR SUCCESSFULLY	Unknow DO NATH WEST OI	ONAL FOREST. F HIGHWAY 88." MAPPED USI NTRIBUTING TO POOLED WA 2004. 2 PAIRS, BOTH ATTEMP D 1 YOUNG.	TER IN ED
Last Survey Date: Owner/Manager: Presence: Location: MEADOW BETWEEN R Detailed Location: LOCATION DESCRIPTI COORDINATES GIVEN Ecological: WILLOW / ASPEN COM MEADOW. NATURAL P Threats: General: BREEDING & NESTING BREEDING & NESTING BREEDING. 1 PAIR AT PLSS: T10N, R18E, S	2004-06-13 USFS-HUMBO Presumed Exta ED LAKE PEAK ON AS "RED LA IN NE 1/4 OF N MUNITY. DOMII ONDS AND SPF SITE. 4 ADULT FEMPTED TWIC ec. 14, NE (M)	nt & HWY 88, ABOUT 0.8 MI SE OF (KE PEAK, MEADOW ON EAST SIE E 1/4 SEC 14. NANTS: SALIX LEMMONII & S. GE RINGS CONTRIBUTING TO WATER S AND 1 JUVENILE OBSERVED F E, BOTH NESTS FAILED. SECONT	Trend: CRATER LAKE, ELDORA DE OF RED LAKE PEAK, EYERIANA. BEAVER ACT R. R. ROM 13 JUN THROUGH D PAIR SUCCESSFULLY 80 meters	Unknow DO NATH WEST OI	ONAL FOREST. F HIGHWAY 88." MAPPED USI NTRIBUTING TO POOLED WA 2004. 2 PAIRS, BOTH ATTEMP D 1 YOUNG. Area (acres):	TER IN ED 0

MAT04F0003 MATHEWSON, H. - FIELD SURVEY FORM FOR EMPIDONAX TRAILLII 2004-06-13



California Department of Fish and Wildlife



Map Index Num	nber: î	5001			EO Index:		1499	
(ey Quad:	١	Volf Creek (38	811956)		Element Code:		AFCHA02081	
Occurrence Nu	imber: 8	3			Occurrence Last U	pdated:	1995-12-01	
Scientific Name	e: Once	orhynchus cla	rkii henshaw	<i>i</i> i	Common Name:	Lahontan	cutthroat trout	
_isting Status:		Federal:	Threatene	d	Rare Plant Rank:			
		State:	None		Other Lists:	AFS_TH-	Threatened	
CNDDB Elemer	nt Ranks:	Global:	G4T3					
		State:	S2					
General Habitat	t:				Micro Habitat:			
				RS OF THE LAHON ID CONDITIONS.			NCE OF OTHER SALMONIDS MS FOR SPAWNING.	. REQUIRE
Last Date Obse	erved: 19	983-09-XX			Occurrence Type:	Natural/N	Native occurrence	
Last Survey Da	ate: 19	983-09-XX			Occurrence Rank:	Good		
Owner/Manage	er: U	SFS-HUMBO	LDT-TOIYA	BE NF, PVT	Trend:	Decreas	ing	
Presence:	Р	resumed Exta	int					
_ocation:								
POISON FLAT (CREEK, TF	RIBUTARY TO	EAST FOR	K CARSON RIVER.				
1.0 MILE OCCU		ITAT.						
1.0 MILE OCCU Ecological:	IPIED HAB							
1.0 MILE OCCU Ecological: INTRODUCED F	IPIED HAB		CE CONFIR	MED BY R. WICKWI	IRE IN 1982 ABOVE FALLS	S; TROUT (DNLY FISH FOUND.	
1.0 MILE OCCU Ecological: NTRODUCED F Threats:	IPIED HAB	ON; PRESEN				S; TROUT (DNLY FISH FOUND.	
1.0 MILE OCCU Ecological: NTRODUCED F Threats: DEGRADED BY	IPIED HAB	ON; PRESEN		MED BY R. WICKWI KE, AND OTHER RE		S; TROUT (DNLY FISH FOUND.	
1.0 MILE OCCU Ecological: NTRODUCED F Fhreats: DEGRADED BY General:	IPIED HAB POPULATI 1 LIVESTO	ON; PRESEN CK, BEAVER,	SPORT TA	KE, AND OTHER RE	ECREATION.		DNLY FISH FOUND. IESS AREA HAVE BEEN ACC	UIRED.
1.0 MILE OCCU Ecological: INTRODUCED F Threats: DEGRADED BY General: 1982 POPULAT	IPIED HAB POPULATI 1 LIVESTO 10N ESTIN	ON; PRESEN CK, BEAVER, 1ATE 200 FIS	SPORT TA H. BY 1994	KE, AND OTHER RE	ECREATION.			UIRED. 130
I.0 MILE OCCU Ecological: NTRODUCED F Inreats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, 1	IPIED HAB POPULATI 1 LIVESTO 1 ION ESTIN R21E, Sec.	ON; PRESEN CK, BEAVER, 1ATE 200 FIS	SPORT TA H. BY 1994 A	KE, AND OTHER RE PRIVATE INHOLDIN	ECREATION. IGS IN CARSON-ICEBERG specific area		IESS AREA HAVE BEEN ACC	
1.0 MILE OCCU Ecological: NTRODUCED F Inreats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, 1 UTM: Zone-1	IPIED HAB POPULATI (LIVESTOC (ION ESTIN R21E, Sec. 11 N426513	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M)	SPORT TA H. BY 1994 A L	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: .atitude/Longitude:	ECREATION. IGS IN CARSON-ICEBERG specific area		IESS AREA HAVE BEEN ACC Area (acres):	130
I.0 MILE OCCU Ecological: NTRODUCED F Inreats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, F JTM: Zone-1 County Summa	IPIED HAB POPULATI (LIVESTOC (ION ESTIN R21E, Sec. 11 N426513	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M)	SPORT TA H. BY 1994 A L C	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: .atitude/Longitude: Quad Summary:	ECREATION. IGS IN CARSON-ICEBERG specific area	WILDERN	IESS AREA HAVE BEEN ACC Area (acres): Elevation (feet):	130
Threats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, I	IPIED HAB POPULATI (LIVESTOC (ION ESTIN R21E, Sec. 11 N426513	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M)	SPORT TA H. BY 1994 A L C	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: .atitude/Longitude: Quad Summary:	ECREATION. IGS IN CARSON-ICEBERG specific area 38.50515 / -119.62837	WILDERN	IESS AREA HAVE BEEN ACC Area (acres): Elevation (feet):	130
1.0 MILE OCCU Ecological: INTRODUCED F Threats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, 1 UTM: Zone-1 County Summa Alpine	IPIED HAB POPULATI (LIVESTOC (ION ESTIN R21E, Sec. 1 N426513 ary: BELAND	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M) 9 E270809	SPORT TAI H. BY 1994 L C C R TO STEVE	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: aatitude/Longitude: Quad Summary: Disaster Peak (38119-	ECREATION. IGS IN CARSON-ICEBERG specific area 38.50515 / -119.62837 46), Coleville (3811955), Wo	WILDERN	IESS AREA HAVE BEEN ACC Area (acres): Elevation (feet):	130 7,760
1.0 MILE OCCU Ecological: INTRODUCED F Threats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, 1 UTM: Zone-1 County Summa Alpine BEL83U0001	IPIED HAB POPULATI (LIVESTOO (LIVESTOO (LIVESTOO (LIVESTOO (LAHON) BRODE,	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M) 9 E270809	SPORT TAI	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: .atitude/Longitude: Quad Summary: Disaster Peak (381194 E NICOLA (DFG) IND T STREAMS) 1983->	ECREATION. IGS IN CARSON-ICEBERG specific area 38.50515 / -119.62837 46), Coleville (3811955), We ICATING LAHONTAN CUT XX-XX	OIF Creek (3	IESS AREA HAVE BEEN ACC Area (acres): Elevation (feet): 3811956)	130 7,760 TES.
I.0 MILE OCCU Ecological: NTRODUCED F Fhreats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, 1 JTM: Zone-1 County Summa Alpine BEL83U0001 BRO85U0002	POPULATI POPULATI (LIVESTOC TON ESTIN R21E, Sec. 1 N426513 ary: BELAND (LAHON BRODE, SPECIFI GERSTL ONCORI	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M) 9 E270809 , R LETTEF TAN CUTTHF J COMMEN C NOTES. 19 JNG, E. (CALI	SPORT TAI H. BY 1994 L L C TO STEVE ROAT TROU NTS FROM F 185-08-22 IFORNIA DE GUABONITA	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: atitude/Longitude: Quad Summary: Disaster Peak (381194 E NICOLA (DFG) IND T STREAMS) 1983-> BRODE DURING 198 PARTMENT OF FISI	ECREATION. IGS IN CARSON-ICEBERG specific area 38.50515 / -119.62837 46), Coleville (3811955), Wo MCATING LAHONTAN CUT XX-XX 85 CNDDB SCORECARD R H AND WILDLIFE) - LOCAL	OIF Creek (3 THROAT T REVIEW ME	IESS AREA HAVE BEEN ACC Area (acres): Elevation (feet): 3811956) ROUT STREAM SURVEY DA	130 7,760 TES. RD FOR S:
1.0 MILE OCCU Ecological: INTRODUCED F Threats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, 1 UTM: Zone-1 County Summa Alpine Sources:	POPULATI POPULATI (LIVESTOO TON ESTIM R21E, Sec. 1 N426513 ary: BELAND (LAHON) BRODE, SPECIFI GERSTL ONCOR CONFLU	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M) 9 E270809 , R LETTEF TAN CUTTHF J COMMEN C NOTES. 19 JNG, E. (CALI HYNCHUS A0 JENTUS 1980 JNG, E. (CALI	SPORT TAI H. BY 1994 L L C C C C C C C C C C C C C C C C C	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: atitude/Longitude: Quad Summary: Disaster Peak (38119) E NICOLA (DFG) IND T STREAMS) 1983-> BRODE DURING 198 PARTMENT OF FISI A WHITEI, O. CLARK	ECREATION. IGS IN CARSON-ICEBERG specific area 38.50515 / -119.62837 46), Coleville (3811955), Wo NCATING LAHONTAN CUT XX-XX 85 CNDDB SCORECARD R H AND WILDLIFE) - LOCAL I CLARKI, O. CLARKI HENS	OIF Creek (3 THROAT T REVIEW ME LITIES FOR SHAWI, O.	IESS AREA HAVE BEEN ACC Area (acres): Elevation (feet): 3811956) ROUT STREAM SURVEY DA EETINGS. SEE SA SCORECA	130 7,760 TES. RD FOR S: JINUS
1.0 MILE OCCU Ecological: NTRODUCED F Inreats: DEGRADED BY General: 1982 POPULAT PLSS: T08N, 1 UTM: Zone-1 County Summa Alpine BEL83U0001 BRO85U0002 GER80U0001	POPULATI / LIVESTOO / LIVEST	ON; PRESEN CK, BEAVER, IATE 200 FIS 25, E (M) 9 E270809 , R LETTEF TAN CUTTHF J COMMEN C NOTES. 19 JNG, E. (CALI -YNCHUS A0 JENTUS 1980 JNG, E. (CALI -XX	SPORT TAI H. BY 1994 L L C C C C C C C C C C C C C C C C C	KE, AND OTHER RE PRIVATE INHOLDIN Accuracy: atitude/Longitude: Quad Summary: Disaster Peak (38119) E NICOLA (DFG) IND T STREAMS) 1983-> BRODE DURING 198 SPARTMENT OF FISI PARTMENT OF FISI	ECREATION. IGS IN CARSON-ICEBERG specific area 38.50515 / -119.62837 46), Coleville (3811955), Wo CATING LAHONTAN CUT XX-XX 85 CNDDB SCORECARD R H AND WILDLIFE) - LOCAL I CLARKI, O. CLARKI HENS H AND WILDLIFE) - MAP W H AND WILDLIFE) - FISHE	OIF Creek (3 THROAT T REVIEW ME LITIES FOF SHAWI, O. VITH LOCA RY MANAG	IESS AREA HAVE BEEN ACC Area (acres): Elevation (feet): 3811956) ROUT STREAM SURVEY DA EETINGS. SEE SA SCORECA R ENDANGERED SALMONIDS CLARKI SELENIRIS, SALVEL	130 7,760 TES. RD FOR S: .INUS ENSHAWI.



California Department of Fish and Wildlife



(au Que de	ber:	14666		EO Index:	14863
ey Quad:		Ebbetts Pass	(3811957)	Element Code:	AFCHA02081
ccurrence Nu	mber:	22		Occurrence Last U	Jpdated: 1996-07-10
cientific Name	e: Onc	orhynchus cla	rkii henshawi	Common Name:	Lahontan cutthroat trout
isting Status:		Federal:	Threatened	Rare Plant Rank:	
		State:	None	Other Lists:	AFS_TH-Threatened
NDDB Elemer	t Ranks:	Global:	G4T3		
		State:	S2		
eneral Habitat	:			Micro Habitat:	
			COLD WATERS OF THE LAHC R TEMPS AND CONDITIONS.		TE PRESENCE OF OTHER SALMONIDS. REQUIRE IN STREAMS FOR SPAWNING.
ast Date Obse	rved: 1	995-XX-XX		Occurrence Type:	Introduced Back into Native Hab./Range
ast Survey Da	te: 1	995-XX-XX		Occurrence Rank:	Unknown
wner/Manage	r: L	ISFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknown
resence:	F	resumed Exta	ant		
ocation:					
AYMOND MEA	DOWS C	REEK, 0.2 MI	LE NORTH OF HIGHWAY 4 AI	ND BENCH MARK 7046.	
etailed Location	on:				
	DOWS C	REEK, TRIBU	TARY TO SILVER CREEK.		
cological:					
OUND IN 1990			ON; PRESENCE CONFIRMED FISH IN STREAM.	BY R. WICKWIRE IN 1982 A	BOVE FALLS; NOT FOUND IN 1984 SURVEY; NOT
IPACTS FROM	I LIVESTO	OCK, TIMBER	HARVEST, AND ROAD EROS	SION.	
IPACTS FROM					
IPACTS FROM eneral: AHONTAN CU	TTHROAT	TROUT WEF	RE FOUND DURING A SINGLE		IILE SECTION OF RAYMOND MEADOWS CREEK IN
IPACTS FROM eneral: AHONTAN CU HE FALL OF 1	TTHROAT 995 (PER	TROUT WEF	RE FOUND DURING A SINGLE		IILE SECTION OF RAYMOND MEADOWS CREEK IN Area (acres): 112
IPACTS FROM eneral: AHONTAN CU HE FALL OF 1 LSS: T09N, 1	TTHROAT 995 (PER: R20E (M)	TROUT WEF	RE FOUND DURING A SINGLE ERSTUNG).	E PASS SAMPLING OF A 1 M	
IPACTS FROM eneral: AHONTAN CU HE FALL OF 1 LSS: T09N, I TM: Zone-1	TTHROAT 995 (PER: R20E (M) 1 N42739	TROUT WEF COMM E. G	RE FOUND DURING A SINGLE ERSTUNG). Accuracy:	E PASS SAMPLING OF A 1 M	Area (acres): 112
General: AHONTAN CU HE FALL OF 1 PLSS: T09N, I	TTHROAT 995 (PER: R20E (M) 1 N42739	TROUT WEF COMM E. G	RE FOUND DURING A SINGLE ERSTUNG). Accuracy: Latitude/Longitude	E PASS SAMPLING OF A 1 M specific area e: 38.57963 / -119.82639	Area (acres): 112
APACTS FROM eneral: AHONTAN CU HE FALL OF 1 LSS: T09N, I TM: Zone-1 ounty Summa	TTHROAT 995 (PER: R20E (M) 1 N42739	TROUT WEF COMM E. G	RE FOUND DURING A SINGLE ERSTUNG). Accuracy: Latitude/Longitude Quad Summary:	E PASS SAMPLING OF A 1 M specific area e: 38.57963 / -119.82639	Area (acres): 112
IPACTS FROM eneral: AHONTAN CU HE FALL OF 1 LSS: T09N, I TM: Zone-1 ounty Summa lpine ources:	TTHROAT 995 (PER: R20E (M) 1 N42739 ry: BELANI	TROUT WEF S COMM E. G 18 E253793 D, R LETTEI	RE FOUND DURING A SINGLE ERSTUNG). Accuracy: Latitude/Longitude Quad Summary: Ebbetts Pass (3811	E PASS SAMPLING OF A 1 M specific area e: 38.57963 / -119.82639 957) NDICATING LAHONTAN CUT	Area (acres): 112
APACTS FROM eneral: AHONTAN CU HE FALL OF 1 LSS: T09N, I TM: Zone-1 ounty Summa lpine ources: EL83U0001	TTHROAT 995 (PER: R20E (M) 1 N42739 ry: BELANI (LAHON BRODE	TROUT WEF S COMM E. G 18 E253793 D, R LETTEI TAN CUTTHF	RE FOUND DURING A SINGLE ERSTUNG). Accuracy: Latitude/Longitude Quad Summary: Ebbetts Pass (3811 R TO STEVE NICOLA (DFG) IN ROAT TROUT STREAMS) 198 NTS FROM BRODE DURING 1	E PASS SAMPLING OF A 1 M specific area e: 38.57963 / -119.82639 957) NDICATING LAHONTAN CUT 3-XX-XX	Area (acres): 112 Elevation (feet): 8,320
APACTS FROM eneral: AHONTAN CU HE FALL OF 1 LSS: T09N, I TM: Zone-1 ounty Summa lpine ources: EL83U0001 RO85U0002	TTHROAT 995 (PER: R20E (M) 1 N42739 ry: BELANI (LAHON BRODE SPECIF	TROUT WEF S COMM E. G 18 E253793 D, R LETTEI TAN CUTTHF I, J COMMEI IC NOTES. 19 JNG, E. (CAL	RE FOUND DURING A SINGLE ERSTUNG). Accuracy: Latitude/Longitude Quad Summary: Ebbetts Pass (3811 R TO STEVE NICOLA (DFG) IN ROAT TROUT STREAMS) 198 NTS FROM BRODE DURING 7 985-08-22	E PASS SAMPLING OF A 1 M specific area e: 38.57963 / -119.82639 957) NDICATING LAHONTAN CUT 3-XX-XX 1985 CNDDB SCORECARD F	Area (acres): 112 Elevation (feet): 8,320
MPACTS FROM eneral: AHONTAN CU HE FALL OF 1 LSS: T09N, I TM: Zone-1 county Summa	TTHROAT 995 (PER: R20E (M) 1 N42739 ry: BELANI (LAHON BRODE SPECIF GERSTI 1983-X>	7 TROUT WEF S COMM E. G 18 E253793 0, R LETTEI TAN CUTTHF , J COMMEI IC NOTES. 19 JNG, E. (CAL (-XX	RE FOUND DURING A SINGLE ERSTUNG). Accuracy: Latitude/Longitude Quad Summary: Ebbetts Pass (3811 R TO STEVE NICOLA (DFG) IN ROAT TROUT STREAMS) 198 NTS FROM BRODE DURING 7 985-08-22 IFORNIA DEPARTMENT OF F	E PASS SAMPLING OF A 1 M specific area e: 38.57963 / -119.82639 957) NDICATING LAHONTAN CUT 3-XX-XX 1985 CNDDB SCORECARD F ISH AND WILDLIFE) - MAP V	Area (acres):112Elevation (feet):8,320THROAT TROUT STREAM SURVEY DATES.REVIEW MEETINGS. SEE SA SCORECARD FOR



California Department of Fish and Wildlife



Key Quad: Dccurrence Number: Scientific Name: Ond Listing Status: CNDDB Element Ranks: General Habitat:	Spicer Meador 26 corhynchus cla Federal: State: Global:	ws Res. (3811948) <i>rkii henshawi</i> Threatened None	Element Code: Occurrence Last U Common Name: Rare Plant Rank:		AFCHA02081 1996-07-10 cutthroat trout	
Scientific Name: One Listing Status: CNDDB Element Ranks:	corhynchus cla Federal: State:	Threatened	Common Name:			
Listing Status: CNDDB Element Ranks:	Federal: State:	Threatened		Lahontan	cutthroat trout	
CNDDB Element Ranks:	State:		Rare Plant Rank:			
		None	itare i lant italiti			
	Global:		Other Lists:	AFS_TH-1	Threatened	
∋eneral Habitat:		G4T3				
Seneral Habitat:	State:	S2				
			Micro Habitat:			
		OLD WATERS OF THE LAHONT TEMPS AND CONDITIONS.		-	NCE OF OTHER SALMONIDS. IS FOR SPAWNING.	REQUIRE
_ast Date Observed:	1995-XX-XX		Occurrence Type:	Transpla	nt Outside of Native Hab./Rang	je
_ast Survey Date:	1995-XX-XX		Occurrence Rank:	Fair		
Dwner/Manager: נ	JSFS-STANIS	LAUS NF	Trend:	Unknown	ı	
Presence:	Presumed Exta	int				
_ocation:						
MARSHALL CANYON CF	EEK AND PAR	RT OF PACIFIC CREEK. APPRO	XIMATELY 4.5 MILES SOU	THWEST C	OF EBBETTS PASS, ALPINE (COUNTY.
Detailed Location:						
MARSHALL CANYON CF	REEK IS A TRI	BUTARTY TO PACIFIC CREEK, T	O NORTH FORK MOKELL	JMNE RIVE	ER.	
Ecological:						
HIGH MONTANE CREEK	•					
Threats:						
HYBRIDIZATION AND CO	OMPETITION F	FROM OTHER SALMONIDS DOW	/NSTREAM.			
General:						
PLSS: T08N, R19E (M)		Accuracy:	specific area		Area (acres):	182
JTM: Zone-11 N42647	79 E248291	Latitude/Longitude:	38.49584 / -119.88619		Elevation (feet):	8,000
County Summary:		Quad Summary:				
Alpine		Dardanelles Cone (381 (3811958)	11947), Spicer Meadows Re	es. (381194	l8), Ebbetts Pass (3811957), P	acific Valle
Sources:						
		IFORNIA DEPARTMENT OF FISH				AN
		(SALMO CLARKI HEWSHAWI) II ORNIA DEPARTMENT OF FISH A				



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	34039		EO Index:	17764	4	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	AFCH	IA02081	
Occurrence Number:	27		Occurrence Last U	Ipdated: 1996-	09-09	
Scientific Name: O	ncorhynchus cla	rkii henshawi	Common Name:	Lahontan cutthro	pat trout	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:	AFS_TH-Threate	ened	
CNDDB Element Ranks	: Global:	G4T3				
	State:	S2				
General Habitat:			Micro Habitat:			
		COLD WATERS OF THE LAHONT R TEMPS AND CONDITIONS.	AN CANNOT TOLERA GRAVEL RIFFLES		F OTHER SALMONIDS. R SPAWNING.	REQUIR
Last Date Observed:	1993-XX-XX		Occurrence Type:	Natural/Native c	occurrence	
Last Survey Date:	1993-XX-XX		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
BULL LAKE, 3.6 MILES	SOUTHEAST C	F EBBETTS PASS (HIGHWAY 4)				
Detailed Location:						
BULL LAKE, ALSO THE	Y SPAWN IN IN	LET CREEK.				
Ecological:						
HIGH MONTANE LAKE						
Threats:						
HYBRIDIZATION, SLIGI General:	HILY MIXED W	ITH RAINBOW & PAIUTE CUTTH	KUAT TROUTS.			
		INUED PRESENCE OF CT-L IN	1003			
						0
	ec 26 NIVV (M)	Accuracy:	non-specific area		Area (acres):	6
PLSS: T08N, R20E, S	,		38.51818 / -119.75381		Elevation (feet):	8,620
	,	Latitude/Longitude:				0,020
PLSS: T08N, R20E, S	,	Latitude/Longitude: Quad Summary: Ebbetts Pass (381195				0,020

INFORMATION FOR CDF FIRE PLAN." 1996-04-15



California Department of Fish and Wildlife



Map Index Num	ber: 3	34040		EO Index:		4165	
Key Quad:	ŀ	leenan Lake	(3811966)	Element Code:		AFCHA02081	
Occurrence Nur	mber: 2	28		Occurrence Last U	pdated:	1996-09-09	
Scientific Name	e: Onco	orhynchus cla	rkii henshawi	Common Name:	Lahontan	cutthroat trout	
Listing Status:		Federal:	Threatened	Rare Plant Rank:			
		State:	None	Other Lists:	AFS_TH-	Threatened	
CNDDB Elemen	t Ranks:	Global:	G4T3				
		State:	S2				
General Habitat	:			Micro Habitat:			
			COLD WATERS OF THE LAHONT R TEMPS AND CONDITIONS.			NCE OF OTHER SALMONIDS. MS FOR SPAWNING.	REQUIRES
Last Date Obse	rved: 19	996-06-05		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Dat	te: 19	996-06-05		Occurrence Rank:	Unknow	n	
Owner/Manager	r: D	FG-HEENAN	LAKE WA	Trend:	Unknow	n	
Presence:	Р	resumed Exta	ant				
Detailed Location	on: HISTORIC	CALLY IN HEI	M HIGHWAY 89 AND 3.2 MILES E	Y HAVE BEEN SLIGHTLY I	NTROGRE	SSED WITH RAINBOW) AND I	
Detailed Location HEENAN LAKE, FLOW YEARS T Ecological: OPEN, HIGH MC Threats: GRAZING, POO General: HEENAN CREEN CARSON RIVER STAFF. PLSS: T09N, F	on: HISTORIC HEY ESC DUNTAIN I R WATER K POPULA STRAIN. R21E, Sec.	CALLY IN HEI APE DOWNS RESERVOIR QUALITY (LC TION WAS C THE FISH IN 03 (M)	ENAN CREEK (THESE FISH MAY TREAM INTO MONITOR CREEK (USED AS A BROOD STOCK LAI OW WATER LEVELS AND HIGH ⁻ DBSERVED BY R. WICKWIRE. TH THE LAKE ARE INDEPENDENC Accuracy:	Y HAVE BEEN SLIGHTLY I (IT IS BELIEVED THAT M KE). TEMPERATURES) IN DRC HOUGHT TO BE EXTIRPA E LAKE STRAIN & ARE SI specific area	NTROGRE OST OF TH DUGHT YE TED BY RI	ESSED WITH RAINBOW) AND I HESE FISH ARE CAUGHT BY A ARS. ECENT DROUGHT AND BELIE (EARLY BY AMERICAN RIVER Area (acres):	NGLERS). VED TO BE HATCHER 174
Detailed Location HEENAN LAKE, FLOW YEARS T Ecological: DPEN, HIGH MC Inreats: GRAZING, POO General: HEENAN CREEN CARSON RIVER STAFF. PLSS: T09N, F UTM: Zone-1	on: HISTORIC HEY ESC DUNTAIN I R WATER K POPULA STRAIN. R21E, Sec. 1 N428138	CALLY IN HEI APE DOWNS RESERVOIR QUALITY (LO TION WAS C THE FISH IN	ENAN CREEK (THESE FISH MAY TREAM INTO MONITOR CREEK (USED AS A BROOD STOCK LAI OW WATER LEVELS AND HIGH ⁻ DBSERVED BY R. WICKWIRE. TH THE LAKE ARE INDEPENDENC Accuracy: Latitude/Longitude:	Y HAVE BEEN SLIGHTLY I (IT IS BELIEVED THAT M KE). TEMPERATURES) IN DRO HOUGHT TO BE EXTIRPA E LAKE STRAIN & ARE SI	NTROGRE OST OF TH DUGHT YE TED BY RI	ESSED WITH RAINBOW) AND I HESE FISH ARE CAUGHT BY A ARS. ECENT DROUGHT AND BELIE (EARLY BY AMERICAN RIVER	VED TO BE HATCHER
Detailed Location HEENAN LAKE, FLOW YEARS T Ecological: OPEN, HIGH MC Threats: GRAZING, POO General: HEENAN CREEN CARSON RIVER STAFF. PLSS: T09N, F UTM: Zone-1 County Summa	on: HISTORIC HEY ESC DUNTAIN I R WATER K POPULA STRAIN. R21E, Sec. 1 N428138	CALLY IN HEI APE DOWNS RESERVOIR QUALITY (LC TION WAS C THE FISH IN 03 (M)	ENAN CREEK (THESE FISH MAY TREAM INTO MONITOR CREEK (USED AS A BROOD STOCK LAI OW WATER LEVELS AND HIGH ⁻ DBSERVED BY R. WICKWIRE. TH THE LAKE ARE INDEPENDENC Accuracy: Latitude/Longitude: Quad Summary:	Y HAVE BEEN SLIGHTLY I (IT IS BELIEVED THAT M KE). TEMPERATURES) IN DRC HOUGHT TO BE EXTIRPA E LAKE STRAIN & ARE SI specific area 38.65091 / -119.65387	NTROGRE OST OF TH DUGHT YE TED BY RI	ESSED WITH RAINBOW) AND I HESE FISH ARE CAUGHT BY A ARS. ECENT DROUGHT AND BELIE (EARLY BY AMERICAN RIVER Area (acres):	NGLERS). VED TO BE HATCHER 174
Detailed Location HEENAN LAKE, FLOW YEARS T Ecological: DPEN, HIGH MC Fhreats: GRAZING, POO General: HEENAN CREEN CARSON RIVER STAFF. PLSS: T09N, F JTM: Zone-11 County Summa Alpine	on: HISTORIC HEY ESC DUNTAIN I R WATER K POPULA STRAIN. R21E, Sec. 1 N428138	CALLY IN HEI APE DOWNS RESERVOIR QUALITY (LC TION WAS C THE FISH IN 03 (M)	ENAN CREEK (THESE FISH MAY TREAM INTO MONITOR CREEK (USED AS A BROOD STOCK LAI OW WATER LEVELS AND HIGH ⁻ DBSERVED BY R. WICKWIRE. TH THE LAKE ARE INDEPENDENC Accuracy: Latitude/Longitude:	Y HAVE BEEN SLIGHTLY I (IT IS BELIEVED THAT M KE). TEMPERATURES) IN DRC HOUGHT TO BE EXTIRPA E LAKE STRAIN & ARE SI specific area 38.65091 / -119.65387	NTROGRE OST OF TH DUGHT YE TED BY RI	ESSED WITH RAINBOW) AND I HESE FISH ARE CAUGHT BY A ARS. ECENT DROUGHT AND BELIE (EARLY BY AMERICAN RIVER Area (acres):	VED TO BE HATCHER 174
Detailed Location HEENAN LAKE, FLOW YEARS T Ecological: OPEN, HIGH MC Threats: GRAZING, POO General: HEENAN CREEN CARSON RIVER STAFF. PLSS: T09N, F	on: HISTORIC HEY ESC DUNTAIN I R WATER K POPULA STRAIN. R21E, Sec. 1 N428138 ry: HUNERL	ALLY IN HEI APE DOWNS RESERVOIR QUALITY (LO THE FISH IN 03 (M) 0 E269053	ENAN CREEK (THESE FISH MAY TREAM INTO MONITOR CREEK (USED AS A BROOD STOCK LAI OW WATER LEVELS AND HIGH ⁻ DBSERVED BY R. WICKWIRE. TH THE LAKE ARE INDEPENDENC Accuracy: Latitude/Longitude: Quad Summary:	(HAVE BEEN SLIGHTLY I (IT IS BELIEVED THAT M KE). TEMPERATURES) IN DRC HOUGHT TO BE EXTIRPA E LAKE STRAIN & ARE SI specific area 38.65091 / -119.65387 6) SH AND WILDLIFE) - PERS	NTROGRE OST OF TH DUGHT YE TED BY RI PAWNED Y	ESSED WITH RAINBOW) AND I HESE FISH ARE CAUGHT BY A ARS. ECENT DROUGHT AND BELIE (EARLY BY AMERICAN RIVER Area (acres): Elevation (feet):	VED TO BE HATCHER 174 7,084



California Department of Fish and Wildlife

California Natural Diversity Database



	34042		EO Index:	7	447	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	A	FCHA02081	
Occurrence Number:	29		Occurrence Last U	pdated: 1	996-07-17	
Scientific Name: C	Oncorhynchus cla	rkii henshawi	Common Name:	Lahontan cu	tthroat trout	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:	AFS_TH-Th	reatened	
CNDDB Element Rank	s: Global:	G4T3				
	State:	S2				
General Habitat:			Micro Habitat:			
		OLD WATERS OF THE LAHONT TEMPS AND CONDITIONS.	AN CANNOT TOLERAT GRAVEL RIFFLES I		e of other salmonids. For spawning.	REQUIRE
Last Date Observed:	1995-XX-XX		Occurrence Type:	Transplant	Outside of Native Hab./Rang	e
Last Survey Date:	1995-XX-XX		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknown		
Presence:	Presumed Exta	nt				
Location:						
	1.4 MILES SOUT	TH OF HIGHWAY 4 AND EBBETT	S PASS, TIRBUTARTY TO	NORTH FOR	RK MOKELUMNE RIVER.	
MILK RANCH CREEK,	1.4 MILES SOUT	TH OF HIGHWAY 4 AND EBBETT	S PASS, TIRBUTARTY TO	NORTH FOR	RK MOKELUMNE RIVER.	
MILK RANCH CREEK, Detailed Location:		TH OF HIGHWAY 4 AND EBBETT			RK MOKELUMNE RIVER.	
MILK RANCH CREEK, Detailed Location: MILK RANCH CREEK F Ecological:					RK MOKELUMNE RIVER.	
MILK RANCH CREEK, Detailed Location: MILK RANCH CREEK F Ecological: ALPINE STREAM.					RK MOKELUMNE RIVER.	
MILK RANCH CREEK, Detailed Location: MILK RANCH CREEK F Ecological: ALPINE STREAM. Threats:					RK MOKELUMNE RIVER.	
MILK RANCH CREEK, Detailed Location: MILK RANCH CREEK F Ecological: ALPINE STREAM. Threats: General:	FROM MILK RAN	ICH MEADOW TO MOUTH (CON			RK MOKELUMNE RIVER.	
MILK RANCH CREEK, Detailed Location: MILK RANCH CREEK F Ecological: ALPINE STREAM. Threats: General: 1995 SUMMER SURVE	FROM MILK RAN		FLUENCE OF MOKELUMN			
MILK RANCH CREEK, Detailed Location: MILK RANCH CREEK F Ecological: ALPINE STREAM. Threats: General: 1995 SUMMER SURVE PLSS: T08N, R20E, S	FROM MILK RAN EY DONE BY US Sec. 30 (M)	ICH MEADOW TO MOUTH (CON FS(E. GRESTUNG PERS). Accuracy:	FLUENCE OF MOKELUMN		Area (acres):	107
MILK RANCH CREEK, Detailed Location: MILK RANCH CREEK F Ecological: ALPINE STREAM. Threats: General: 1995 SUMMER SURVE PLSS: T08N, R20E, S	FROM MILK RAN EY DONE BY US Sec. 30 (M)	ICH MEADOW TO MOUTH (CONI FS(E. GRESTUNG PERS).	FLUENCE OF MOKELUMN			107 8,140
Detailed Location: MILK RANCH CREEK F Ecological: ALPINE STREAM. Threats: General: 1995 SUMMER SURVE PLSS: T08N, R20E, S	FROM MILK RAN EY DONE BY US Sec. 30 (M)	ICH MEADOW TO MOUTH (CON FS(E. GRESTUNG PERS). Accuracy:	FLUENCE OF MOKELUMN		Area (acres):	-

SOM96U0001 SOMER, W.L. (CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE) - MEMO TO D. DRAKE, SUBJECT: "SENSITIVE SPECIES INFORMATION FOR CDF FIRE PLAN." 1996-04-15



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Num	ber: E	33518		EO Index:		117165		
Key Quad:	Ν	/larkleeville (3	811967)	Element Code:		AFCHA03060	HA03060	
Occurrence Nur	mber: 1	4		Occurrence Last U	Occurrence Last Updated: 2019-1			
Scientific Name	: Pros	opium william	soni	Common Name:	mountain	whitefish		
Listing Status:		Federal:	None	Rare Plant Rank:				
		State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern		
CNDDB Elemen	t Ranks:	Global:	G5					
		State:	S3					
General Habitat	:			Micro Habitat:				
Last Date Obser	rved: 20	003-XX-XX		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Dat	t e: 20	003-XX-XX		Occurrence Rank:	Unknow	n		
Owner/Manager	: U	SFS, UNKNO	WN	Trend:	Unknow	n		
		•						
Presence:	Pi	resumed Exta	nt					
	Pi	resumed Exta	nt					
Location:			nt E CREEK, AND EAST FORK (CARSON RIVER, NEAR THE	TOWN OF	MARKLEEVILLE.		
Location: HOT SPRINGS (CREEK, M			CARSON RIVER, NEAR THE	TOWN OF	MARKLEEVILLE.		
Location: HOT SPRINGS (Detailed Location MAPPED TO AB	CREEK, M. on: SOUT 5 MII	ARKLEEVILL LES OF HOT	E CREEK, AND EAST FORK (REEKS FROM GROVER HOT	SPRINGS	DOWNSTREAM TO E FK CARSON	I RIVE	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT	CREEK, M. on: SOUT 5 MII	ARKLEEVILL LES OF HOT	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI	REEKS FROM GROVER HOT	SPRINGS	DOWNSTREAM TO E FK CARSON	I RIVE	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological:	CREEK, M. on: SOUT 5 MII	ARKLEEVILL LES OF HOT	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI	REEKS FROM GROVER HOT	SPRINGS	DOWNSTREAM TO E FK CARSON	I RIVE	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats:	CREEK, M. on: SOUT 5 MII	ARKLEEVILL LES OF HOT	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI	REEKS FROM GROVER HOT	SPRINGS	DOWNSTREAM TO E FK CARSON	I RIVE	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats: General: COLLECTED IN	CREEK, M. on: OUT 5 MII 5 MILES (1931. DET	ARKLEEVILL LES OF HOT OF E FK CAR	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI SON RIVER FROM BULLION	REEKS FROM GROVER HOT DOWNSTREAM TO MARKLE VEYS IN THIS GENERAL VIC	SPRINGS EVILLE C	DOWNSTREAM TO E FK CARSON		
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats: General: COLLECTED IN AND 2001. 3 CA	CREEK, M on: OUT 5 MII 5 MILES (1931. DET UGHT BY	ARKLEEVILL LES OF HOT DF E FK CAR TECTED DUR ANGLERS NI	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI SON RIVER FROM BULLION ING ELECTROFISHING SUR ¹	REEKS FROM GROVER HOT DOWNSTREAM TO MARKLE VEYS IN THIS GENERAL VIC	SPRINGS EVILLE C	DOWNSTREAM TO E FK CARSON REEK.	1996,	
Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats: General: COLLECTED IN AND 2001. 3 CA PLSS: T10N, F	CREEK, M. on: OUT 5 MIL 5 MILES (1931. DET UGHT BY R20E, Sec.	ARKLEEVILL LES OF HOT DF E FK CAR TECTED DUR ANGLERS NI	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI SON RIVER FROM BULLION ING ELECTROFISHING SUR' EAR HANGMANS BRIDGE IN	REEKS FROM GROVER HOT DOWNSTREAM TO MARKLE VEYS IN THIS GENERAL VIC 2003. non-specific area	SPRINGS EVILLE C	5 DOWNSTREAM TO E FK CARSON REEK. 983, 1987, 1988, 1993, 1994, 1995, 1	1996,	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats: General: COLLECTED IN AND 2001. 3 CA PLSS: T10N, F	CREEK, M. on: OUT 5 MII 5 MILES (1931. DET UGHT BY R20E, Sec. 1 N428707	ARKLEEVILL LES OF HOT OF E FK CAR TECTED DUR ANGLERS NI 22 (M)	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI SON RIVER FROM BULLION ING ELECTROFISHING SUR EAR HANGMANS BRIDGE IN Accuracy:	REEKS FROM GROVER HOT DOWNSTREAM TO MARKLE VEYS IN THIS GENERAL VIC 2003. non-specific area	SPRINGS EVILLE C	5 DOWNSTREAM TO E FK CARSON REEK. 983, 1987, 1988, 1993, 1994, 1995, 1 Area (acres): 687	1996,	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats: General: COLLECTED IN AND 2001. 3 CA PLSS: T10N, F UTM: Zone-11	CREEK, M. on: OUT 5 MII 5 MILES (1931. DET UGHT BY R20E, Sec. 1 N428707	ARKLEEVILL LES OF HOT OF E FK CAR TECTED DUR ANGLERS NI 22 (M)	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI SON RIVER FROM BULLION ING ELECTROFISHING SUR EAR HANGMANS BRIDGE IN Accuracy: Latitude/Longitude Quad Summary:	REEKS FROM GROVER HOT DOWNSTREAM TO MARKLE VEYS IN THIS GENERAL VIC 2003. non-specific area	SPRINGS EVILLE C	5 DOWNSTREAM TO E FK CARSON REEK. 983, 1987, 1988, 1993, 1994, 1995, 1 Area (acres): 687	1996,	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats: General: COLLECTED IN AND 2001. 3 CA PLSS: T10N, F UTM: Zone-11 County Summan	CREEK, M. on: OUT 5 MII 5 MILES (1931. DET UGHT BY R20E, Sec. 1 N428707	ARKLEEVILL LES OF HOT OF E FK CAR TECTED DUR ANGLERS NI 22 (M)	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI SON RIVER FROM BULLION ING ELECTROFISHING SUR EAR HANGMANS BRIDGE IN Accuracy: Latitude/Longitude Quad Summary:	REEKS FROM GROVER HOT DOWNSTREAM TO MARKLE VEYS IN THIS GENERAL VIC 2003. non-specific area e: 38.69964 / -119.76572	SPRINGS EVILLE C	5 DOWNSTREAM TO E FK CARSON REEK. 983, 1987, 1988, 1993, 1994, 1995, 1 Area (acres): 687	1996,	
Location: HOT SPRINGS (Detailed Location MAPPED TO AB AND TO ABOUT Ecological: Threats: General: COLLECTED IN AND 2001. 3 CA PLSS: T10N, F UTM: Zone-1 ² County Summa	CREEK, M. on: OUT 5 MIL 5 MILES (1931. DET UGHT BY R20E, Sec. 1 N428707 ry: CALIFOF	ARKLEEVILL LES OF HOT OF E FK CAR TECTED DUR ANGLERS NI 22 (M) 8 E259482	E CREEK, AND EAST FORK (SPRINGS/MARKLEEVILLE CI SON RIVER FROM BULLION ING ELECTROFISHING SUR' EAR HANGMANS BRIDGE IN Accuracy: Latitude/Longitude Quad Summary: Heenan Lake (3811	REEKS FROM GROVER HOT DOWNSTREAM TO MARKLE VEYS IN THIS GENERAL VIC 2003. non-specific area e: 38.69964 / -119.76572 966), Markleeville (3811967) RAM (CALIFORNIA DEPARTI	SPRINGS EVILLE C	5 DOWNSTREAM TO E FK CARSON REEK. 983, 1987, 1988, 1993, 1994, 1995, - Area (acres): 687 Elevation (feet): 5,50	1996, 7 00	

TAF31S0006 TAFT, A. - CAS #209462 COLLECTED FROM CARSON RIVER, MARKLEEVILLE 1931-07-XX



California Department of Fish and Wildlife



(ERO)						
Map Index Number:	B4242		EO Index:		117169	
Key Quad:	Carters Station	n (3811976)	Element Code:		AFCHA03060	
Occurrence Number:	15		Occurrence Last U	pdated:	2019-10-18	
Scientific Name:	Prosopium william	osoni	Common Name:	mountain	n whitefish	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SSC-Species of Special Concern	
CNDDB Element Ran	ks: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
Last Date Observed:	2008-08-26		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2008-08-26		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
EAST FORK CARSON FOREST.	RIVER, FROM T	HE CA/NV STATE LINE TO ABO	UT 4 MILES UPSTREAM C	OF BORDE	R, HUMBOLDT-TOIYABE NATI	ONAL
Detailed Location:						
Ecological:						
Threats:						
General:						
1 CAUGHT BY AN AN AUG 2008.	GLER IN THE LO	WER CANYON OF EAST FORK (CARSON RIVER IN 2003.	1 CAUGHT	ALONG THIS SECTION OF R	VER ON 20
PLSS: T11N, R20E,	Sec. 34 (M)	Accuracy:	non-specific area		Area (acres):	308
UTM: Zone-11 N42	94671 E264134	Latitude/Longitude:	38.76925 / -119.71486		Elevation (feet):	5,200
County Summary:		Quad Summary:				
Alpine		Carters Station (38119	076)			
Sources:						
	IFORNIA DEPAR ER 2003-XX-XX	TMENT OF FISH AND GAME - 20	003 ANGLER SURVEY BO	X DATA S	UMMARIES FOR EAST FORK (CARSON



California Department of Fish and Wildlife



Map Index Number:	B4301		EO Index:		117196	
Key Quad:	Ebbetts Pass (3811957)	Element Code:		AFCHA03060	
Occurrence Number:	16		Occurrence Last U	Occurrence Last Updated: 2019-10-2		
Scientific Name: F	Prosopium williams	soni	Common Name:	mountain	whitefish	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concerr	n
CNDDB Element Rank	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
Last Date Observed:	1983-10-28		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1995-11-01		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-HUMBOL	DT-TOIYABE NF	Trend:	Unknow	n	
Presence:	Presumed Extar	nt				
Location:						
SILVER CREEK, HUME	BOLDT-TOIYABE	NATIONAL FOREST.				
Detailed Location:						
		VN. MAPPED BY CNDDB NON-8 E CONFLUENCE WITH EAST FO		/ILES OF	SILVER CREEK FROM SILVER	R CREEK
Ecological:						
Threats:						
General:						
DETECTED SOMEWHI SUBSEQUENT ELECT		'ER CREEK DURING AN ELECT VEY ON 1 NOV 1995.	ROFISHING SURVEY ON	28 OCT 19	983. NONE FOUND DURING A	
PLSS: T09N, R20E, S	Sec. 22 (M)	Accuracy:	non-specific area		Area (acres):	332
UTM: Zone-11 N427	7645 E259816	Latitude/Longitude:	38.61483 / -119.75862		Elevation (feet):	6,300
County Summary:		Quad Summary:				
Alpine		Wolf Creek (3811956),	Ebbetts Pass (3811957), H	leenan Lal	ke (3811966)	



California Department of Fish and Wildlife



Map Index Number:	B4302		EO Index:		117229	
Key Quad:	Wolf Creek (3	811956)	Element Code:		AFCHA03060	
Occurrence Number:	17		Occurrence Last U	pdated:	2019-10-24	
Scientific Name: P	Prosopium william	soni	Common Name:	mountain	whitefish	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	n
CNDDB Element Rank	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
Last Date Observed:	1994-09-28		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1994-09-28		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	int				
Location:						
WOLF CREEK, NEAR I	TS CONFLUENC	CE WITH THE CARSON RIVER, H	IUMBOLDT-TOIYABE NAT	IONAL FC	DREST.	
Detailed Location:						
LOCALITY DESCRIBE	D AS "WOLF CR	EEK" AS WELL AS "WOLF CREE	K AT CARSON." MAPPED	BY CNDD	OB ALONG THE LOWER 1 MILE	OF WOL
Detailed Location: LOCALITY DESCRIBED CREEK. Ecological:	D AS "WOLF CR	EEK" AS WELL AS "WOLF CREE	K AT CARSON." MAPPED	BY CNDD	B ALONG THE LOWER 1 MILE	OF WOL
LOCALITY DESCRIBED CREEK. Ecological:	D AS "WOLF CR	EEK" AS WELL AS "WOLF CREE	K AT CARSON." MAPPED	BY CNDD	B ALONG THE LOWER 1 MILE	OF WOLI
LOCALITY DESCRIBED CREEK. Ecological: Threats:	D AS "WOLF CR	EEK" AS WELL AS "WOLF CREE	K AT CARSON." MAPPED	BY CNDD	B ALONG THE LOWER 1 MILE	of Woli
LOCALITY DESCRIBED CREEK. Ecological: Threats: General:		EEK" AS WELL AS "WOLF CREE AN ELECTROFISHING SURVEY		BY CNDD	B ALONG THE LOWER 1 MILE	OF WOLI
LOCALITY DESCRIBED CREEK. Ecological: Threats: General:	CINITY DURING			BY CNDD	B ALONG THE LOWER 1 MILE Area (acres):	e of woll
LOCALITY DESCRIBED CREEK. Ecological: Threats: General: DETECTED IN THIS VI PLSS: T09N, R21E, S	CINITY DURING	AN ELECTROFISHING SURVEY	' ON 28 SEP 1994.	BY CNDD		
LOCALITY DESCRIBED CREEK. Ecological: Threats: General: DETECTED IN THIS VI PLSS: T09N, R21E, S UTM: Zone-11 N427	CINITY DURING Sec. 20, SE (M)	AN ELECTROFISHING SURVEY Accuracy:	ON 28 SEP 1994. non-specific area	BY CNDD	Area (acres):	84
LOCALITY DESCRIBED CREEK. Ecological: Threats: General: DETECTED IN THIS VI PLSS: T09N, R21E, S	CINITY DURING Sec. 20, SE (M)	AN ELECTROFISHING SURVEY Accuracy: Latitude/Longitude:	ON 28 SEP 1994. non-specific area	BY CNDD	Area (acres):	84



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B3514		EO Index:	11543	1	
Key Quad:	Woodfords (38	811977)	Element Code:	AFCJ	C02160	
Occurrence Number:	15		Occurrence Last U	Occurrence Last Updated: 2019-08-02		
Scientific Name: C	atostomus platyr	rhynchus	Common Name:	mountain sucker		
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Spe	cies of Special Concerr	า
CNDDB Element Rank	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
RESTRICTED TO THE	LAHONTAN DR.	AINAGE SYSTEM.	GENERALLY OCCU IN AREAS WITH DE		ABITATS. ABUNDANC	E GREATES
Last Date Observed:	1995-10-16		Occurrence Type:	Natural/Native o	ccurrence	
Last Survey Date:	2005-10-28		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-HUMBO	DLDT-TOIYABE NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
_ocation:						
VEST FORK CARSON	RIVER IN WES	T CARSON CANYON, HUMBOLD	T-TOIYABE NATIONAL FO	DREST.		
Detailed Location:						
		RK OF THE CARSON RIVER, 38. IGTH IN WEST CARSON CANYO				HE RIVER.
Ecological:						
C. TAHOENSIS DETEC	TED HERE ON	SURVEYS IN 1989, 1991, 1993, 1	1994, 1995, 1996, AND 200	95,		
Threats:						
General:						
DETECTED IN THIS VI	CINITY DURING	ELECTROFISHING SURVEYS C	ON 27 SEP 1994 AND 16 O	CT 1995.		
PLSS: T11N, R19E, S	Sec. 32 (M)	Accuracy:	non-specific area		Area (acres):	337
UTM: Zone-11 N429	5324 E250369	Latitude/Longitude:	38.77134 / -119.87336		Elevation (feet):	6,400
County Summary:		Quad Summary:				
Alpine		Woodfords (3811977),	Freel Peak (3811978)			

HERITAGE AND WILD TROUT PROGRAM DEPLETION ELECTROFISH SURVEY DATA 1975-2012 2015-12-03



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B3518		EO Index:		115434	
Key Quad:	Markleeville (3	3811967)	Element Code:	Element Code:AFCJCOccurrence Last Updated:2019-0		
Occurrence Number:	16		Occurrence Last U			
Scientific Name: Ca	atostomus platyr	rhynchus	Common Name:	mountain	sucker	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concer	n
CNDDB Element Ranks	: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
RESTRICTED TO THE I	_AHONTAN DR/	AINAGE SYSTEM.	GENERALLY OCCU IN AREAS WITH DE		-LIKE HABITATS. ABUNDANG 'ER.	CE GREATES
Last Date Observed:	1995-10-18		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2001-08-29		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS, UNKNC	OWN	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
HOT SPRINGS CREEK,	MARKLEEVILL	E CREEK, AND EAST FORK CAP	SON RIVER, NEAR THE	TOWN OF	MARKLEEVILLE.	
Detailed Location:						
		SPRINGS/MARKLEEVILLE CREE				RSON RIVE
Ecological:						
Threats:						
General:						
DETECTED DURING EL	ECTROFISHIN	G SURVEYS IN THIS GENERAL	VICINITY IN 1983, 1987, 19	988, 1993,	1994, AND 1995.	
PLSS: T10N, R20E, S	ec. 22 (M)	Accuracy:	non-specific area		Area (acres):	687
UTM: Zone-11 N4287	078 E259482	Latitude/Longitude:	38.69964 / -119.76572		Elevation (feet):	5,500
County Summary:		Quad Summary:				
A la ha a		Heenan Lake (381196	6), Markleeville (3811967)			
Alpine						

HERITAGE AND WILD TROUT PROGRAM DEPLETION ELECTROFISH SURVEY DATA 1975-2012 2015-12-03



California Department of Fish and Wildlife



Map Index Number:	62684		EO Index:	(62721	
Key Quad:	Freel Peak (38	811978)	Element Code:	Element Code:AMACOccurrence Last Updated:2005-0		
Occurrence Number:	18		Occurrence Last U			
Scientific Name: M	lyotis thysanode	s	Common Name:	fringed myc	otis	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	BLM_S-Ser		
CNDDB Element Ranks	s: Global:	G4		USFS S-Se	east Concern ensitive	
	State:	S3		WBWG_H-I	High Priority	
General Habitat:			Micro Habitat:			
		PTIMAL HABITATS ARE PINYON OOD & HARDWOOD-CONIFER		'	IGS OR CREVICES FOR MA	TERNITY
Last Date Observed:	2002-06-25		Occurrence Type:	Natural/Na	tive occurrence	
Last Survey Date:	2002-06-25		Occurrence Rank:	Excellent		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
ALONG MEADOW CRE	EK, ABOUT 0.8	MILE NORTHWEST OF SCOTT	S LAKE, ELDORADO NATIO	ONAL FORE	ST.	
Detailed Location:						
Ecological:						
	RRIDOR, STREA	AM HAS POOLS. WILLOW THICH	KETS ALSO PRESENT.			
Threats:						
MOUNTAIN BIKE TRAI	L NEARBY.					
General:						
1 NON-BREEDING ADU	JLT DETECTED	25 JUN 2002.				
PLSS: T11N, R18E, S	Sec. 27, NE (M)	Accuracy:	1/10 mile		Area (acres):	0
UTM: Zone-11 N429	5702 E241239	Latitude/Longitude:	38.77211 / -119.97845		Elevation (feet):	7,875
County Summary:		Quad Summary:				
		Freel Peak (3811978)			
El Dorado		110011 Cak (0011070)			



California Department of Fish and Wildlife



Map Index Number:	68617		EO Index:		69003		
Key Quad:	Caples Lake (3812061)	Element Code: AM/		AMACC01110	MACC01110	
Occurrence Number:	95		Occurrence Last U	Occurrence Last Updated: 2007-03			
Scientific Name: A	Ayotis volans		Common Name:	long-legg	jed myotis		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	_	C-Least Concern		
CNDDB Element Rank	s: Global:	G5		WBWG_I	H-High Priority		
	State:	S3					
General Habitat:			Micro Habitat:				
		FOREST HABITATS ABOVE 4000 OSTS; CAVES AND MINES ARE			LLY UNDER BARK OR IN HOLL EVICES OR BUILDINGS.	OW TREE	
Last Date Observed:	2001-08-02		Occurrence Type:	Natural/	Native occurrence		
Last Survey Date:	2001-08-02		Occurrence Rank:	Good			
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	'n		
Presence:	Presumed Exta	ant					
Location:							
EL DORADO NATIONA	L FOREST, VIC	INITY OF MEISS LAKE, ROUND LA	AKE, AND EL DORADO/A	LPINE CC	OUNTY LINE.		
Detailed Location:							
	D IN SECTION 4	ACCORDING TO T-R-S DATA PR	ROVIDED BY SOURCE.				
I LOT ID TIZ C. WAFFE							
Ecological:							
Ecological: MEDIUM POND. Threats:							
Ecological: MEDIUM POND. Threats: CATTLE GRAZING.							
Ecological: MEDIUM POND. Threats: CATTLE GRAZING. General:							
Ecological: MEDIUM POND. Threats: CATTLE GRAZING. General:	L, 2 & 21 AUG, 8	& 14 SEP. 2001. 1 MALE OBSER\	VED ON 2 AUG 2001.				
Ecological: MEDIUM POND. Threats: CATTLE GRAZING. General: SITE SURVEYED 7 JU		& 14 SEP. 2001. 1 MALE OBSER\ Accuracy:	/ED ON 2 AUG 2001. non-specific area		Area (acres):	698	
Ecological: MEDIUM POND. Threats: CATTLE GRAZING. General: SITE SURVEYED 7 JU PLSS: T10N, R18E, S		Accuracy:			Area (acres): Elevation (feet):	698 8,500	
Ecological: MEDIUM POND. Threats: CATTLE GRAZING. General: SITE SURVEYED 7 JU PLSS: T10N, R18E, S UTM: Zone-10 N429	Sec. 04 (M)	Accuracy:	non-specific area				
Ecological: MEDIUM POND. Threats: CATTLE GRAZING. General: SITE SURVEYED 7 JU PLSS: T10N, R18E, S	Sec. 04 (M)	Accuracy: Latitude/Longitude: Quad Summary:	non-specific area 38.74213 / -120.00792	aples Lake		8,500	



California Department of Fish and Wildlife



Map Index Number:	60984		EO Index:		61020	
Key Quad:	Markleeville (3	3811967)	Element Code:	Element Code:		
Occurrence Number:	12		Occurrence Last U	Occurrence Last Updated:		
Scientific Name:	asionycteris noct	ivagans	Common Name:	silver-hair	red bat	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		-Least Concern	
CNDDB Element Rank	s: Global:	G5		WBWG_N	M-Medium Priority	
	State:	S3S4				
General Habitat:			Micro Habitat:			
PRIMARILY A COASTA OVER STREAMS, PON		NE FOREST DWELLER, FEEDING USHY AREAS.		DPECKEF	, BENEATH EXFOLIATING BA R HOLES, AND RARELY UNDE	
Last Date Observed:	1947-08-27		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1947-08-27		Occurrence Rank:	Unknow	n	
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	int				
Location:						
MARKLEEVILLE.						
Detailed Location:						
EXACT LOCATION NO METERS (ABOUT 0.20		PED ACCORDING TO LAT/LONG	G COORDINATES PROVID	ED BY MA	NIS WITH AN UNCERTAINTY	OF 322
Ecological:						
Threats:						
General:						
ONE MALE SPECIMEN	COLLECTED 2	7 AUG 1947 BY W. RUSSELL AT	"MARKLEEVILLE" (MVZ #	107376).		
PLSS: T10N, R20E, S	Sec. 21 (M)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N428	6691 E258094	Latitude/Longitude:	38.69578 / -119.78152		Elevation (feet):	5,550
		Quad Summary:				
County Summary: Alpine		Markleeville (3811967)			



California Department of Fish and Wildlife



Map Index Number:	70027		EO Index:		70880		
Key Quad:	Carson Pass	(3811968)	Element Code:	Element Code: AMAEA0102L Occurrence Last Updated: 2007-09-25		IAEA0102L	
Occurrence Number:	87		Occurrence Last U				
Scientific Name: C)chotona princep	s schisticeps	Common Name:	gray-heade	ed pika		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_NT-	Near Threatened		
CNDDB Element Rank	s: Global:	G5T2T4					
	State:	S2S4					
General Habitat:	General Habitat:						
ABOVE THE TREELINE	E UP TO THE LI	AT HIGHER ELEVATIONS, OFTE MIT OF VEGETATION. AT LOWE AS WITHIN FORESTS OR NEAR			LLY ON MINE TAILINGS. PRE	EFERS	
Last Date Observed:	1956-09-17		Occurrence Type:	Natural/N	ative occurrence		
Last Survey Date:	1956-09-17		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-HUMBC	LDT-TOIYABE NF	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
CRATER LAKE.							
Detailed Location:							
MAPPED ACCORDING	TO COORDINA	TES PROVIDED BY MANIS.					
Ecological:							
Threats:							
General:							
ON 17 SEP 1956, K. PC	DEHLMANN COL	LECTED 1 MALE SPECIMEN (U	MNH #14162).				
PLSS: T10N, R18E, S	Sec. 11 (M)	Accuracy:	4/5 mile		Area (acres):	0	
UTM: Zone-11 N429	0266 E241346	Latitude/Longitude:	38.72322 / -119.97519		Elevation (feet):	8,591	
		Quad Summary:					
County Summary:		Carson Pass (3811968	3)				
County Summary: Alpine		Caison Fass (3011900	-)				



California Department of Fish and Wildlife



Map Index Number:	79833		EO Index:	80823
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	AMAEA0102L
Occurrence Number:	150		Occurrence Last Update	d: 2010-09-02
Scientific Name:	Ochotona princep	s schisticeps	Common Name: gray-	headed pika
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists: IUCN	I_NT-Near Threatened
CNDDB Element Ran	ks: Global:	G5T2T4		
	State:	S2S4		
General Habitat:			Micro Habitat:	
BOVE THE TREELIN	NE UP TO THE LIN	AT HIGHER ELEVATIONS, OFT MIT OF VEGETATION. AT LOWE AS WITHIN FORESTS OR NEAR	R TALUS-MEADOW INTERF	IONALLY ON MINE TAILINGS. PREFERS FACE.
Last Date Observed:	2005-06-23		Occurrence Type: Natu	ural/Native occurrence
Last Survey Date:	2005-06-23		Occurrence Rank: Unk	nown
Owner/Manager:	USFS-STANIS	LAUS NF	Trend: Unk	nown
Presence:	Presumed Exta	ant		
_ocation:				
0.2 MI SW OF EBBET	TS PEAK, 9.3 MI S	SSW OF HWY 89 AT HWY 4, ST	ANISLAUS NATIONAL FOREST.	
Detailed Location:				
	IAPPED TO PRO	VIDED COORDINATES. NMMNH	SPECIMENS MAPPED GENERA	ALLY TO STATED LOCATION, "EBBETTS PAS
Coological.				
-				
Threats:				
Threats: General: 14 INDIVIDUALS (8 FI			J. HAFNER & R.M. SULIVAN ON 2 25 BY K. GALBREATH (CUMV #20	2 JUL 1988 (NMMNH #836-846). 3 INDIVIDUAL 0594 & 20683-4).
Threats: General: 14 INDIVIDUALS (8 FI (1 MALE, 1 FEMALE,	1 UNKNOWN SE>			
Threats: General: 14 INDIVIDUALS (8 FI (1 MALE, 1 FEMALE, PLSS: T08N, R20E,	1 UNKNOWN SE>	X) COLLECTED ON 23 JUNE 200	05 BY K. GALBREATH (CUMV #20 1/10 mile	0594 & 20683-4).
Threats: General: 14 INDIVIDUALS (8 FI 1 MALE, 1 FEMALE, PLSS: T08N, R20E, JTM: Zone-11 N42	1 UNKNÓWN SE> Sec. 18, E (M)	X) COLLECTED ON 23 JUNE 200 Accuracy:	05 BY K. GALBREATH (CUMV #20 1/10 mile	0594 & 20683-4). Area (acres): 0
Threats: General: 14 INDIVIDUALS (8 FI 1 MALE, 1 FEMALE, PLSS: T08N, R20E, JTM: Zone-11 N42 County Summary:	1 UNKNÓWN SE> Sec. 18, E (M)	X) COLLECTED ON 23 JUNE 200 Accuracy: Latitude/Longitude:	05 BY K. GALBREATH (CUMV #20 1/10 mile 38.54581 / -119.81620	0594 & 20683-4). Area (acres): 0
Threats: General: 4 INDIVIDUALS (8 FI 1 MALE, 1 FEMALE, PLSS: T08N, R20E, JTM: Zone-11 N42 County Summary:	1 UNKNÓWN SE> Sec. 18, E (M)	X) COLLECTED ON 23 JUNE 200 Accuracy: Latitude/Longitude: Quad Summary:	05 BY K. GALBREATH (CUMV #20 1/10 mile 38.54581 / -119.81620	0594 & 20683-4). Area (acres): 0
Threats: General: 4 INDIVIDUALS (8 FI 1 MALE, 1 FEMALE, PLSS: T08N, R20E, JTM: Zone-11 N42 County Summary: Alpine Sources:	1 UNKNÓWN SE> Sec. 18, E (M) 70137 E254566	X) COLLECTED ON 23 JUNE 200 Accuracy: Latitude/Longitude: Quad Summary:	05 BY K. GALBREATH (CUMV #20 1/10 mile 38.54581 / -119.81620 57)	0594 & 20683-4). Area (acres): 0
Threats: General: 14 INDIVIDUALS (8 FI 1 MALE, 1 FEMALE, PLSS: T08N, R20E, JTM: Zone-11 N42 County Summary: Alpine Sources: GAL05S0001 GAL	1 UNKNÓWN SE> Sec. 18, E (M) 70137 E254566 	X) COLLECTED ON 23 JUNE 200 Accuracy: Latitude/Longitude: Quad Summary: Ebbetts Pass (381195	05 BY K. GALBREATH (CUMV #20 1/10 mile 38.54581 / -119.81620 57) EBBETTS PASS 2005-06-23	0594 & 20683-4). Area (acres): 0
(1 MALE, 1 FEMALE, PLSS: T08N, R20E, UTM: Zone-11 N42 County Summary: Alpine Sources: GAL05S0001 GAL GAL05S0002 GAL	1 UNKNÓWN SE> Sec. 18, E (M) 70137 E254566 .BREATH, K CU .BREATH, K CU	X) COLLECTED ON 23 JUNE 200 Accuracy: Latitude/Longitude: Quad Summary: Ebbetts Pass (381195 JMV #20594 COLLECTED NEAR	05 BY K. GALBREATH (CUMV #20 1/10 mile 38.54581 / -119.81620 57) EBBETTS PASS 2005-06-23 EBBETTS PASS 2005-06-23	0594 & 20683-4). Area (acres): 0
Threats: General: 14 INDIVIDUALS (8 FI (1 MALE, 1 FEMALE, PLSS: T08N, R20E, UTM: Zone-11 N42 County Summary: Alpine Sources: GAL05S0001 GAL GAL05S0002 GAL	1 UNKNÓWN SE> Sec. 18, E (M) 70137 E254566 .BREATH, K CU .BREATH, K CU .BREATH, K CU	X) COLLECTED ON 23 JUNE 200 Accuracy: Latitude/Longitude: Quad Summary: Ebbetts Pass (381195 JMV #20594 COLLECTED NEAR JMV #20683 COLLECTED NEAR JMV #20684 COLLECTED NEAR	05 BY K. GALBREATH (CUMV #20 1/10 mile 38.54581 / -119.81620 57) EBBETTS PASS 2005-06-23 EBBETTS PASS 2005-06-23	0594 & 20683-4). Area (acres): 0 Elevation (feet): 8,900



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	80263		EO Index:	81	1242		
Key Quad:	Freel Peak (3	811978)	Element Code:	A	MAEA0102L		
Occurrence Number:	170		Occurrence Last Up	odated: 20	010-10-05		
Scientific Name:	Ochotona princep	s schisticeps	Common Name:	gray-headed	pika		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_NT-Ne	ear Threatened		
CNDDB Element Ran	ks: Global:	G5T2T4					
	State:	S2S4					
General Habitat:			Micro Habitat:				
ABOVE THE TREELIN	NE UP TO THE LI	AT HIGHER ELEVATIONS, OFTI MIT OF VEGETATION. AT LOWE AS WITHIN FORESTS OR NEAR			Y ON MINE TAILINGS. PR	EFERS	
Last Date Observed:	2007-11-18		Occurrence Type:	Natural/Nati	ve occurrence		
Last Survey Date:	2007-11-18		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-HUMBC	DLDT-TOIYABE NF	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
1.6 MI E OF LUTHER	PASS RD (HWY 8	39) AT CARSON PASS HWY (HW	/Y 88), 2.3 MI W OF CARY F	PEAK, TOIYA	BE NF.		
Detailed Location:							
MAPPED TO PROVID FACING SLOPE."	ED COORDINAT	ES AND LOCATION LISTED AS "	CARSON PASS AREA, 1/2	MI W OF HOI	RSETHIEF CYN TRLHD, S	R 88, S-	
Ecological:							
HABITAT CONSISTEI ROCKS OF CONSIST		ASED "BOULDER STREAMS" (L/ E).	ANDFORMS CHARACTERIZ	ZED BY HIGH	ILY SORTED, SHATTERED), ANGULAF	
Threats:							
General:							
FRESH PELLETS AN	D URINE FOUND	DURING A 30 MIN RAPID ASSE	SSMENT SURVEY. DATA N	IOTES "ABUN	NDANT PIKA, GRANARIES	."	
PLSS: T11N, R19E,	Sec. 31, N (M)	Accuracy:	80 meters		Area (acres):	0	
UTM: Zone-11 N42	96072 E248964	Latitude/Longitude:	38.77767 / -119.88977		Elevation (feet):	6,782	
County Summary:		Quad Summary:					
Alpine		Freel Peak (3811978)					

Sources:

MIL09D0001 MILLAR, C. (U.S. FOREST SERVICE-PACIFIC SOUTHWEST RESEARCH STATION) - TABULAR DATA FOR PIKA SITES AND PELLET COLLECTIONS. DATA PUBLISHED IN ARCTIC, ANTARCTIC, & ALPINE RESEARCH, VOL 42, 2010, PP. 76-88. 2009-11-05



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	80264		EO Index:		81246
Key Quad:	Woodfords (3	811977)	Element Code:		AMAEA0102L
Occurrence Number:	171		Occurrence Last Up	odated:	2010-10-05
Scientific Name:	Ochotona princep	os schisticeps	Common Name:	gray-heade	d pika
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	IUCN_NT-I	Near Threatened
CNDDB Element Ran	ks: Global:	G5T2T4			
	State:	S2S4			
General Habitat:			Micro Habitat:		
ABOVE THE TREELIN	NE UP TO THE LI	Y AT HIGHER ELEVATIONS, OF MIT OF VEGETATION. AT LOW AS WITHIN FORESTS OR NEAI	ER TALUS-MEADOW IN		LY ON MINE TAILINGS. PREFERS
Last Date Observed:	2007-08-11		Occurrence Type:	Natural/Na	ative occurrence
Last Survey Date:	2007-08-11		Occurrence Rank:	Unknown	
Owner/Manager:	USFS-HUMBC	OLDT-TOIYABE NF	Trend:	Unknown	
Presence:	Presumed Exta	ant			
Location:					
1 MI S OF CARY PEA	K, 1.5 MI W OF S	STATE ROUTE 89 AT CARSON I	PASS HWY (SR 88), TOIYABI	E NF.	
Detailed Location:					
MAPPED TO PROVID FACING SLOPE"	ED COORDINAT	ES AND LOCATION LISTED AS	S "CARSON PASS AREA, 1 M	I W OF WO	ODFORDS; CRYSTAL SPG RD, SR 88
Ecological:					
HABITAT CONSISTEI ROCKS OF CONSIST			LANDFORMS CHARACTERIZ	ZED BY HIG	HLY SORTED, SHATTERED, ANGUL
Threats:					
General:					
FRESH PELLETS AN	D URINE FOUND	DURING A 30 MIN RAPID ASS	ESSMENT SURVEY. DATA N	IOTES "ABI	JNDANT PIKA, GRANARIES."
	Sec. 01, NW (M)	Accuracy:	80 meters		Area (acres): 0
PLSS: T10N, R19E,		Latitude/Longitude	: 38.76452 / -119.84880		Elevation (feet): 5,993
	94500 E252479				
PLSS: T10N, R19E, UTM: Zone-11 N42 County Summary:	94500 E252479	Quad Summary:			
UTM: Zone-11 N42	94500 E252479	Quad Summary: Woodfords (3811977	7)		

MIL09D0001 MILLAR, C. (U.S. FOREST SERVICE-PACIFIC SOUTHWEST RESEARCH STATION) - TABULAR DATA FOR PIKA SITES AND PELLET COLLECTIONS. DATA PUBLISHED IN ARCTIC, ANTARCTIC, & ALPINE RESEARCH, VOL 42, 2010, PP. 76-88. 2009-11-05



California Department of Fish and Wildlife



Map Index Number:	80266		EO Index:		81250
Key Quad:	Carson Pass (3	3811968)	Element Code:		AMAEA0102L
Occurrence Number:	172		Occurrence Last Up	odated:	2010-10-05
Scientific Name: C	Ochotona princeps	schisticeps	Common Name:	gray-head	ded pika
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	IUCN_NT	-Near Threatened
CNDDB Element Rank	s: Global:	G5T2T4			
	State:	S2S4			
General Habitat:			Micro Habitat:		
ABOVE THE TREELINE	E UP TO THE LIM	AT HIGHER ELEVATIONS, OFTE IIT OF VEGETATION. AT LOWER S WITHIN FORESTS OR NEAR			ALLY ON MINE TAILINGS. PREFERS E.
Last Date Observed:	2008-08-13		Occurrence Type:	Natural/I	Native occurrence
Last Survey Date:	2008-08-13		Occurrence Rank:	Unknow	n
Owner/Manager:	USFS-ELDORA	DO NF	Trend:	Unknow	n
Presence:	Presumed Extar	nt			
Location:					
IN THE VICINITY OF E	LEPHANTS BACK	K, 1.5 MI NE OF ROUND TOP, BO	ORDER OF EL DORADO A	ND TOIY	ABE NATIONAL FORESTS.
Detailed Location:					
	D COORDINATE	S AND LOCATION LISTED AS "C	CARSON PASS, ELEPHAN	IT'S HEAD	, VOLCANIC BRECCIA SLOPES OF PK.
Ecological:					
		ANIC BASED "BOULDER STREA _AST SIZE). M. FLAVIVENTRIS S			ED BY HIGHLY SORTED, SHATTERED,
Threats:					
General:	D AT 3 SITES AL	ONG WITH FRESH PELLETS, U	RINE, AND HAYPILES.		
General: PIKA WERE OBSERVE		ONG WITH FRESH PELLETS, UN	RINE, AND HAYPILES. 80 meters		Area (acres): 0
Threats: General: PIKA WERE OBSERVE PLSS: T10N, R18E, S UTM: Zone-11 N428	Sec. 27, SE (M)				Area (acres): 0 Elevation (feet): 9,260
General: PIKA WERE OBSERVE PLSS: T10N, R18E, S UTM: Zone-11 N428	Sec. 27, SE (M)	Accuracy:	80 meters		()
General: PIKA WERE OBSERVE PLSS: T10N, R18E, S	Sec. 27, SE (M)	Accuracy: Latitude/Longitude:	80 meters 38.68086 / -119.98419		()



California Department of Fish and Wildlife

California Natural Diversity Database



lap Index Number:	80270		EO Index:		81258	
(ey Quad:	Carson Pass (3811968)	Element Code:		AMAEA0102L	
Occurrence Number:	173		Occurrence Last Up	odated:	2010-10-05	
Scientific Name: O	chotona princep	s schisticeps	Common Name:	gray-head	ded pika	
isting Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_NT	-Near Threatened	
NDDB Element Ranks	s: Global:	G5T2T4				
	State:	S2S4				
eneral Habitat:			Micro Habitat:			
BOVE THE TREELINE	UP TO THE LIN	AT HIGHER ELEVATIONS, OFTEI /IT OF VEGETATION. AT LOWER \S WITHIN FORESTS OR NEAR			ALLY ON MINE TAILINGS. PREF E.	ERS
ast Date Observed:	2007-11-18		Occurrence Type:	Natural/I	Native occurrence	
ast Survey Date:	2007-11-18		Occurrence Rank:	Unknow	n	
wner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	n	
resence:	Presumed Exta	nt				
ocation:						
7 MI NW OF MARKLE	EVILLE PEAK, 5	5.3 MI SSE OF CARSON PASS HV	VY (88) AT BLUE LAKES F	RD, TOIYA	BE NF.	
etailed Location:						
IAPPED TO PROVIDE	D COORDINATE	ES AND LOCATION LISTED AS "C	ARSON PASS AREA, ABO	OVE FAIT	H VALLEY, BLUE LK RD, ASPEN	N CAMP."
cological:						
IABITAT CONSISTED		BASED "BOULDER STREAMS" (LA).	ANDFORMS CHARACTER		HIGHLT SORTED, SHATTERED), ANGULA
IABITAT CONSISTED (COCKS OF CONSISTE)			ANDFORMS CHARACTER		NIGHLT SOKTED, SHATTERED), ANGULA
IABITAT CONSISTED (COCKS OF CONSISTE) (hreats:			ANDFORMS CHARACTER		NIGHLT SOKTED, SHATTERED), ANGULA
ABITAT CONSISTED (OCKS OF CONSISTE) hreats: eneral: RESH PELLETS, URIN	NT CLAST SIZE NE, AND HAYPIL					
ABITAT CONSISTED (OCKS OF CONSISTEI hreats: eneral: RESH PELLETS, URIN CTIVE PIKA SIGN; GR	NT CLAST SIZE NE, AND HAYPIL RANARIES.").			A NOTES "W-FACING SLOPE, A	
ABITAT CONSISTED (OCKS OF CONSISTE) hreats: eneral: RESH PELLETS, URIN CTIVE PIKA SIGN; GR	NT CLAST SIZE NE, AND HAYPIL RANARIES." Sec. 31, NW (M)). .ES FOUND DURING A 30 MIN RA	APID ASSESSMENT SURV		A NOTES "W-FACING SLOPE, A Area (acres):	BUNDAN
ROCKS OF CONSISTEI (hreats: General: (RESH PELLETS, URIN (CTIVE PIKA SIGN; GR (LSS: T10N, R19E, S	NT CLAST SIZE NE, AND HAYPIL RANARIES." Sec. 31, NW (M)). .ES FOUND DURING A 30 MIN RA Accuracy:	APID ASSESSMENT SUR		A NOTES "W-FACING SLOPE, A Area (acres):	BUNDAN ⁻ 0

MIL09D0001 MILLAR, C. (U.S. FOREST SERVICE-PACIFIC SOUTHWEST RESEARCH STATION) - TABULAR DATA FOR PIKA SITES AND PELLET COLLECTIONS. DATA PUBLISHED IN ARCTIC, ANTARCTIC, & ALPINE RESEARCH, VOL 42, 2010, PP. 76-88. 2009-11-05



California Department of Fish and Wildlife



Map Index Number:	80301		EO Index:		81257
Key Quad:	Heenan Lake	(3811966)	Element Code:		AMAEA0102L
Occurrence Number:	174		Occurrence Last U	pdated:	2010-10-06
Scientific Name: C	chotona princep	s schisticeps	Common Name:	gray-head	ded pika
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	IUCN_NT	C-Near Threatened
CNDDB Element Rank	s: Global:	G5T2T4			
	State:	S2S4			
General Habitat:			Micro Habitat:		
ABOVE THE TREELINE	E UP TO THE LI	AT HIGHER ELEVATIONS, OFTE MIT OF VEGETATION. AT LOWEF AS WITHIN FORESTS OR NEAR			ALLY ON MINE TAILINGS. PREFERS E.
ast Date Observed:	2007-11-18		Occurrence Type:	Natural/I	Native occurrence
ast Survey Date:	2007-11-18		Occurrence Rank:	Unknow	n
Dwner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	n
Presence:	Presumed Exta	ant			
ocation:					
MI W LEVIATHAN PE	AK, 5.4 MI ENE	OF HWY 4 AT HWY 89 (VICINITY	OF MONITOR PASS), TO	IYABE NA	TIONAL PARK.
Detailed Location:					
	D COORDINATI	ES AND LOCATION LISTED AS "N	MONITOR PASS RANGE, I	MONITOR	PASS PLATEAU, FLAT INSELBERG/TOP
cological:					
	OF SMALL, DAF	RK-VOLCANIC BASED TOR (ROC	K OUTCROP) SURROUNI	DED BY S	AGE FLATS.
hreats:					
General: RESH PELLETS, URII ACTIVE PIKA SITE."	NE, AND HAYPII	LES FOUND DURING A 30 MIN R	APID ASSESSMENT SUR	VEY. DAT	A NOTES "ENORMOUSLY ABUNDANT,
PLSS: T10N, R21E, S	Sec. 25, SW (M)	Accuracy:	80 meters		Area (acres): 0
UTM: Zone-11 N428	4729 E271248	Latitude/Longitude:	38.68162 / -119.62977		Elevation (feet): 8,329
County Summary:		Quad Summary:			
		Heenan Lake (3811966	3)		
Alpine			-)		



California Department of Fish and Wildlife

California Natural Diversity Database



Key Quad:	Heenan Lake (3811966)	Element Carles			
N			Element Code:		AMAEA0102L	
Occurrence Number:	175		Occurrence Last Up	odated:	2010-10-06	
Scientific Name: Oc	hotona princeps	schisticeps	Common Name:	gray-heade	ed pika	
isting Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_NT-N	Near Threatened	
CNDDB Element Ranks:	: Global:	G5T2T4				
	State:	S2S4				
General Habitat:			Micro Habitat:			
BOVE THE TREELINE	UP TO THE LIM	AT HIGHER ELEVATIONS, OFTE IIT OF VEGETATION. AT LOWEI S WITHIN FORESTS OR NEAR			LY ON MINE TAILINGS. PR	EFERS
ast Date Observed:	2008-08-16		Occurrence Type:	Natural/Na	ative occurrence	
ast Survey Date:	2008-08-16		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-HUMBOL	DT-TOIYABE NF	Trend:	Unknown		
Presence:	Presumed Extar	nt				
ocation:						
.4 MI SW OF LEVIATHA	AN PEAK, 5.4 MI	I E OF HWY 4 AT HWY 89 (VICIN	NITY OF MONITOR PASS),	TOIYABE N	NATIONAL PARK.	
Detailed Location:						
		S AND LOCATION LISTED AS " WEDGE SUMMIT REGION"	MONITOR PASS RANGE, S	SUMMIT PL	ATEAU, S OF SR 89, NEAR	W EDGE
Ecological:						
HABITAT CONSISTED O ANGULAR ROCKS OF C		NIC BASED "BOULDER STREAN _AST SIZE).	MS" (LANDFORMS CHARA	CTERIZED	BY HIGHLY SORTED, SHAT	TERED,
Threats:						
General:						
FRESH PELLETS AND U EXPOSED."	JRINE FOUND E	DURING A 30 MIN RAPID ASSES	SSMENT SURVEY. DATA N	IOTES "ABI	JNDANT SIGN WITH PROCH	(S OPENL)
PLSS: T10N, R21E, Se	ec. 36, SW (M)	Accuracy:	specific area		Area (acres):	7
JTM: Zone-11 N42829	973 E271500	Latitude/Longitude:	38.66588 / -119.62630		Elevation (feet):	8,331
		Quad Summary:				
County Summary:		-				

MIL09D0001 MILLAR, C. (U.S. FOREST SERVICE-PACIFIC SOUTHWEST RESEARCH STATION) - TABULAR DATA FOR PIKA SITES AND PELLET COLLECTIONS. DATA PUBLISHED IN ARCTIC, ANTARCTIC, & ALPINE RESEARCH, VOL 42, 2010, PP. 76-88. 2009-11-05



California Department of Fish and Wildlife



Map Index Number: Key Quad:	82037 Carson Pass (3811968)	EO Index: Element Code:		83016 AMAEA0102L	
Occurrence Number:	234		Occurrence Last U	pdated:	2011-03-15	
Scientific Name: C)chotona princep	s schisticeps	Common Name:	gray-head	led pika	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_NT	-Near Threatened	
CNDDB Element Rank	s: Global:	G5T2T4				
	State:	S2S4				
General Habitat:			Micro Habitat:			
ABOVE THE TREELINE	E UP TO THE LI	AT HIGHER ELEVATIONS, OFTEN /IT OF VEGETATION. AT LOWER \S WITHIN FORESTS OR NEAR	N TALUS SLOPES, OG TALUS-MEADOW IN		ALLY ON MINE TAILINGS. PRE E.	FERS
Last Date Observed:	1974-10-09		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	1974-10-09		Occurrence Rank:	Unknown	1	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown	1	
Presence:	Presumed Exta	nt				
Location:						
1.2 MI SE OF ROUND	TOP, ABOUT 3 N	II S OF CARSON PASS, MOKELU	ME WILDERNESS.			
Detailed Location:						
	N STATED AS "	3 MI SOUTH OF CARSON PASS."				
Ecological:						
Ecological: Threats:						
Ecological: Threats: General:			-0 (100 (47) 01 0 007	7.4		
Ecological: Threats: General: EDWARD W. WEST CO		A (UC DAVIS WILDLIFE FISHERIE	ES #6244Z) ON 9 OCT 19	74.		
Ecological: Threats: General: EDWARD W. WEST CO PLSS: T09N, R18E, S	Sec. 03 (M)	Accuracy:	ES #6244Z) ON 9 OCT 19 1 mile	74.	Area (acres):	0
Ecological: Threats: General: EDWARD W. WEST CO PLSS: T09N, R18E, S	Sec. 03 (M)	Accuracy:		74.	Area (acres): Elevation (feet):	0 7,570
Ecological: Threats: General: EDWARD W. WEST CO PLSS: T09N, R18E, S	Sec. 03 (M)	Accuracy:	1 mile	74.	. ,	
Ecological: Threats: General: EDWARD W. WEST CO PLSS: T09N, R18E, S UTM: Zone-11 N428	Sec. 03 (M)	Accuracy: Latitude/Longitude: Quad Summary:	1 mile	74.	. ,	



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	81753 Pacific Valley 363	(3811958)	EO Index: Element Code: Occurrence Last U	pdated:	82718 AMAEA0102L 2011-08-23	
Scientific Name: O	chotona princep	s schisticeps	Common Name:	gray-head	ded pika	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_NT	-Near Threatened	
CNDDB Element Rank	s: Global:	G5T2T4				
	State:	S2S4				
General Habitat:			Micro Habitat:			
ABOVE THE TREELINE	UP TO THE LI	AT HIGHER ELEVATIONS, OFTE MIT OF VEGETATION. AT LOWEI AS WITHIN FORESTS OR NEAR			ALLY ON MINE TAILINGS. PRE E.	EFERS
Last Date Observed:	2011-08-14		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2011-08-14		Occurrence Rank:	Unknow	า	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	า	
Presence:	Presumed Exta	ant				
Location:						
IN THE VICINITY OF G	RANITE LAKE, 1	1.4 MI WSW OF UPPER BLUE LA	KE DAM, ABOUT 5.2 MI S	SE OF CAR	RSON PASS.	
Detailed Location:						
MAPPED TO PROVIDE WILDERNESS."	D COORDINATI	ES AND LOCATION LISTED AS "	SLOPE ABOVE NW TIP OF	GRANITE	E LAKE, OUTSIDE MOKELUMI	ME
Ecological:						
Threats:						
General:						
		RESH SCAT 9 SEP 2010 IDENTIF N CUTTINGS) PRESENT DURING			BY D. WRIGHT. D. WRIGHT C	ONFIRMED
PLSS: T09N, R18E, S	Sec. 23, NW (M)	Accuracy:	80 meters		Area (acres):	0
UTM: Zone-11 N4278	8926 E241924	Latitude/Longitude:	38.62133 / -119.96434		Elevation (feet):	8,800
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	8)			
•						
Sources:						
	A, M. (CALIFOR	NIA DEPARTMENT OF FISH AND	D WILDLIFE) - FIELD SUR	/EY FORM	FOR OCHOTONA PRINCEPS	5 2010-09-0



California Department of Fish and Wildlife

California Natural Diversity Database



	44762		EO Index:	8303	88	
Key Quad:	Pacific Valley	(3811958)	Element Code:	AMA	EA0102L	
Occurrence Number:	366		Occurrence Last U	pdated: 2011	-03-21	
Scientific Name:	Ochotona princep	s schisticeps	Common Name:	gray-headed pik	a	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_NT-Near	Threatened	
CNDDB Element Ran	ks: Global:	G5T2T4				
	State:	S2S4				
General Habitat:			Micro Habitat:			
ABOVE THE TREELIN	IE UP TO THE LI	AT HIGHER ELEVATIONS, OFTE MIT OF VEGETATION. AT LOWEF AS WITHIN FORESTS OR NEAR			DN MINE TAILINGS. PRE	FERS
Last Date Observed:	1943-09-11		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	1943-09-12		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
		LOOKOUT PK, 4.3 MI NE OF MT F	REBA RD (HWY 207) AT E	BBETTS PASS S	SCENIC BYWAY (HWY 4).
JUST E OF WHEELER						
	(FR, 4 101 W OF 1					
Detailed Location: EXACT LOCATION UN	NK, MAPPED TO	FIELD NOTE DESCCAMP "4 MI ATING THE STANISLAUS FROM 1				
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE	NK, MAPPED TO					
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE Ecological: HABITAT CONSISTEE THAN 50 FT ACROSS	NK, MAPPED TO E DIVIDE SEPARA		THE MOKELUME RIVER F	ACIFIC CREEK	W/ PIKA "IN ROCKS AB	BOVE CAM
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE Ecological: HABITAT CONSISTEE THAN 50 FT ACROSS BRUSH."	NK, MAPPED TO E DIVIDE SEPARA	ATING THE STANISLAUS FROM T	THE MOKELUME RIVER F	ACIFIC CREEK	W/ PIKA "IN ROCKS AB	BOVE CAM
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE Ecological: HABITAT CONSISTED	NK, MAPPED TO E DIVIDE SEPARA O OF "AN AREA C	ATING THE STANISLAUS FROM T	THE MOKELUME RIVER F	ACIFIC CREEK	W/ PIKA "IN ROCKS AB	BOVE CAM
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE Ecological: HABITAT CONSISTEE THAN 50 FT ACROSS BRUSH." Threats: General: A PIKA WAS HEARD E	NK, MAPPED TO E DIVIDE SEPAR O OF "AN AREA C AND 20 FEET U BY A.H. MILLER /	ATING THE STANISLAUS FROM T	THE MOKELUME RIVER-F PE AT THE BASE OF A SM NDED FROM TWO LARG 1 SEP 1943. NOTES STAT	ACIFIC CREEK" MALL GRANITE (E BOULDERS P/	W/ PIKA "IN ROCKS AB CLIFF. THE SLIDE WAS ARTIALLY COVERED BY ALLS WERE OFTEN HEA	SOVE CAM NO MORE (PRUNUS ARD FROM
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE Ecological: HABITAT CONSISTEE THAN 50 FT ACROSS BRUSH." Threats: General: A PIKA WAS HEARD E THE CAMP LOCATION	NK, MAPPED TO DIVIDE SEPAR/ O OF "AN AREA C AND 20 FEET U BY A.H. MILLER / N AT DUSK, DAW	ATING THE STANISLAUS FROM T OF ROCKS OF LARGE TALUS TYP P AND DOWN. THE ANIMAL BOU AT DUSK ON 10 AND SEEN ON 11	THE MOKELUME RIVER-F PE AT THE BASE OF A SM NDED FROM TWO LARG 1 SEP 1943. NOTES STAT	ACIFIC CREEK" MALL GRANITE (E BOULDERS P/	W/ PIKA "IN ROCKS AB CLIFF. THE SLIDE WAS ARTIALLY COVERED BY ALLS WERE OFTEN HEA	SOVE CAM NO MORE (PRUNUS ARD FROM
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE Ecological: HABITAT CONSISTEE THAN 50 FT ACROSS BRUSH." Threats: General: A PIKA WAS HEARD E THE CAMP LOCATION PLSS: T08N, R18E,	NK, MAPPED TO DIVIDE SEPAR/ O OF "AN AREA C AND 20 FEET U BY A.H. MILLER / N AT DUSK, DAW	ATING THE STANISLAUS FROM T OF ROCKS OF LARGE TALUS TYP P AND DOWN. THE ANIMAL BOU AT DUSK ON 10 AND SEEN ON 1 'N, AND OCCASIONALLY NIGHT.	THE MOKELUME RIVER-F PE AT THE BASE OF A SM NDED FROM TWO LARG 1 SEP 1943. NOTES STAT SITE VISITED AGAIN ON	ACIFIC CREEK" MALL GRANITE (E BOULDERS P/	W/ PIKA "IN ROCKS AB CLIFF. THE SLIDE WAS ARTIALLY COVERED BY ALLS WERE OFTEN HE/ UT NO DETECTION WA	NO MORE (PRUNUS ARD FROM S MADE.
Detailed Location: EXACT LOCATION UN DRAINAGE," "ON THE Ecological: HABITAT CONSISTEE THAN 50 FT ACROSS BRUSH." Threats: General: A PIKA WAS HEARD E THE CAMP LOCATION PLSS: T08N, R18E,	NK, MAPPED TO E DIVIDE SEPAR O OF "AN AREA C AND 20 FEET U BY A.H. MILLER A N AT DUSK, DAW Sec. 25 (M)	ATING THE STANISLAUS FROM T OF ROCKS OF LARGE TALUS TYP P AND DOWN. THE ANIMAL BOU AT DUSK ON 10 AND SEEN ON 1 ⁻ /N, AND OCCASIONALLY NIGHT. Accuracy:	THE MOKELUME RIVER-F PE AT THE BASE OF A SM NDED FROM TWO LARG 1 SEP 1943. NOTES STAT SITE VISITED AGAIN ON 1 mile	ACIFIC CREEK" MALL GRANITE (E BOULDERS P/	W/ PIKA "IN ROCKS AB CLIFF. THE SLIDE WAS ARTIALLY COVERED BY ALLS WERE OFTEN HE/ UT NO DETECTION WAS Area (acres):	NO MORE (PRUNUS ARD FROM S MADE. 0

Sources:

MIL43U0001

MILLER, A. (MUSEUM OF VERTEBRATE ZOOLOGY) - SECTION 14 FROM JOURNAL AND CATALOG OF MILLER, A.H. FROM ALPINE CO., CALIF. SEPT. 1943 1943-09-12



California Department of Fish and Wildlife



Map Index Number:	A4576		EO Index:		106268	
Key Quad:	Heenan Lake	(3811966)	Element Code:		AMAEA0102L	
Occurrence Number:	370		Occurrence Last U	pdated:	2017-05-10	
Scientific Name: 0	Ochotona princep	s schisticeps	Common Name:	gray-head	ded pika	
Listing Status:	Federal:	None	Rare Plant Rank:	Rare Plant Rank:		
	State:	None	Other Lists:	IUCN_NT	F-Near Threatened	
CNDDB Element Rank	s: Global:	G5T2T4				
	State:	S2S4				
General Habitat:			Micro Habitat:			
ABOVE THE TREELINI	E UP TO THE LIN	AT HIGHER ELEVATIONS, OFTE MIT OF VEGETATION. AT LOWE AS WITHIN FORESTS OR NEAR			ALLY ON MINE TAILINGS. PRE E.	FERS
Last Date Observed:	2014-XX-XX		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2014-XX-XX		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknow	n	
Presence:	Presumed Exta	nt				
Location:						
ABOUT 1.0 MILES W C	OF MONITOR PA	SS AND 3.2 MILES NE OF LOOP	PE, TOIYABE NF.			
Detailed Location:						
	ED COORDINATE	ES. PLOT 3609, CAMERA B.				
Ecological:						
JUNIPER HABITAT. Threats:						
General:						
	RA TRAP BETWE	EEN 14 JUL AND 1 AUG 2014.				
PLSS: T10N, R21E, S	Sec. 35, NE (M)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N428	4117 E270510	Latitude/Longitude:	38.67592 / -119.63805		Elevation (feet):	8,240
		Quad Summary:				
County Summary:			6)			
County Summary: Alpine		Heenan Lake (381196	0)			



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	14394 Carson Pass (3 1	3811968)	EO Index: Element Code: Occurrence Last U	58795 AMAEB03041 Jpdated: 2004-12-21
Scientific Name: L	epus townsendii t	ownsendii	Common Name:	western white-tailed jackrabbit
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Rank		G5T5		
	State:	S3?		
General Habitat:			Micro Habitat:	
SAGEBRUSH, SUBALF & PERENNIAL GRASSI		UNIPER, ALPINE DWARF SHR		H SCATTERED SHRUBS & EXPOSED FLAT-TOPP STANDS OF TREES, BRUSH & HERBACEOUS
Last Date Observed:	1922-02-27		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1922-02-27		Occurrence Rank:	Unknown
Owner/Manager:	USFS-ELDORA	DO NF	Trend:	Unknown
Presence:	Presumed Extar	nt		
Location:				
CARSON VALLEY.				
Detailed Location:				
Ecological:				
Threats:				
General:				
ONE MALE SPECIMEN	I COLLECTED 27	FEB 1922 BY E. BASSMAN AN	ND J. DIXON AT "CARSON V	VALLEY." DEPOSITED AT MVZ #32793.
PLSS: T10N, R18E, S	Sec. 22 (M)	Accuracy:	1 mile	Area (acres): 0
UTM: Zone-11 N428	6990 E240562	Latitude/Longitude:	38.69351 / -119.98297	Elevation (feet): 8,200
County Summary:		Quad Summary:		
Alpine		Carson Pass (381196	68), Caples Lake (3812061)	



California Department of Fish and Wildlife



Map Index Number:	58760		EO Index:	5879	6	
Key Quad:	Woodfords (3	811977)	Element Code:	AMA	MAEB03041	
Occurrence Number:	2		Occurrence Last U	pdated: 2004	-12-20	
Scientific Name:	epus townsendii	townsendii	Common Name:	western white-ta	iled jackrabbit	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-Sp	ecies of Special Concerr	n
CNDDB Element Rank	s: Global:	G5T5				
	State:	S3?				
General Habitat:			Micro Habitat:			
SAGEBRUSH, SUBALF & PERENNIAL GRASS		JUNIPER, ALPINE DWARF SHRU			HRUBS & EXPOSED FL EES, BRUSH & HERBAC	-
Last Date Observed:	1915-02-13		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	1915-02-13		Occurrence Rank:	Unknown		
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
WOODFORDS.						
Detailed Location:						
Ecological:						
Threats:						
General:						
ONE MALE SPECIMEN	I COLLECTED 1	3 FEB 1915 BY G. MERRILL & F.	HOLDEN AT "WOODFORD	DS." DEPOSITED	AT MVZ #21309.	
PLSS: T11N, R19E, S	Sec. 35 (M)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N429	5671 E254687	Latitude/Longitude:	38.77567 / -119.82383		Elevation (feet):	5,600
County Summary:		Quad Summary:				
Alpine		Woodfords (3811977)				
Sources:						



California Department of Fish and Wildlife



Map Index Number:	95046		EO Index:		96174	
Key Quad:	Carson Pass	(3811968)	Element Code:		AMAFA01013	
Occurrence Number:	96		Occurrence Last U	Occurrence Last Updated: 2015-01-28		
Scientific Name: A	plodontia rufa ca	alifornica	Common Name:	Sierra Nevada mountain beaver		
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		SSC-Species of Special Concern	n
CNDDB Element Rank	s: Global:	G5T3T4		IUCN_LC	C-Least Concern	
	State:	S2S3				
General Habitat:			Micro Habitat:			
		OUS TREES & SHRUBS, WET SO ERRA NEVADA & EAST SLOPE.			RY FOR FOOD & COVER. BUI ANT SUPPLY OF WATER.	RROWS INT
Last Date Observed:	1980-04-01		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1980-04-01		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS		Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
CARSON PASS.						
Detailed Location:						
	Y DESCRIBED	ONLY AS "CARSON PASS."				
Ecological:						
Threats:						
General: COLLECTION MADE IN						
			4 mile		A === (=====)-	0
PLSS: T10N, R18E, S	· · /	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N428	110 E240068	Latitude/Longitude:	38.69444 / -119.98869		Elevation (feet):	8,000
County Summary:		Quad Summary:				
Alpine		Carson Pass (3811968	3), Caples Lake (3812061)			
Sources:						



California Department of Fish and Wildlife



Map Index Num	nber:	95047				EO Index:		96175	
Key Quad:		Freel Peak (38	311978)			Element Code:		AMAFA01013	
Occurrence Nu	umber:	97				Occurrence Last U	pdated:	2015-01-28	
Scientific Name	e: Aplo	odontia rufa ca	lifornica			Common Name:	Sierra Ne	vada mountain beaver	
isting Status:		Federal:	None			Rare Plant Rank:			
		State:	None			Other Lists:		SC-Species of Special Concern	
CNDDB Elemer	nt Ranks:	Global:	G5T3T4				IUCN_LC	-Least Concern	
		State:	S2S3						
General Habita	it:					Micro Habitat:			
				S & SHRUBS, WE ADA & EAST SLOF				Y FOR FOOD & COVER. BURRON NT SUPPLY OF WATER.	WS INT
ast Date Obse	erved: 1	894-09-10				Occurrence Type:	Natural/	Native occurrence	
Last Survey Da	ate: 1	894-09-10				Occurrence Rank:	Unknow	n	
Owner/Manage	er: l	JSFS, DFG, U	NKNOWN			Trend:	Unknow	n	
Presence:	F	Presumed Exta	int						
Location:									
HOPE VALLEY.									
-									
Detailed Locati	ion:								
Detailed Locati	ion: Ion unkn			CALITIES DESCR	RIBED C	ONLY AS "HOPE VALLE	Y." MAPPI	ED BY CNDDB NON-SPECIFICALL	Y
Detailed Locati EXACT LOCAT ACROSS THE E	ion: Ion unkn			CALITIES DESCR	RIBED (ONLY AS "HOPE VALLE	Y." MAPPI	ED BY CNDDB NON-SPECIFICALL	Y
Detailed Locati EXACT LOCATI ACROSS THE E Ecological:	ion: Ion unkn			CALITIES DESCR	RIBED (ONLY AS "HOPE VALLE	y." Mappi	ED BY CNDDB NON-SPECIFICALL	Y
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats:	ion: Ion unkn			OCALITIES DESCR	RIBED (ONLY AS "HOPE VALLE	Y." MAPPI	ED BY CNDDB NON-SPECIFICALL	Y
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats: General:	ion: ION UNKN EXTENT C	F THE VALLE	Υ.	CALITIES DESCR			Y." MAPPI	ED BY CNDDB NON-SPECIFICALL	Y
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE	ion: ION UNKN EXTENT C	F THE VALLE	Υ.		EP 189		Y." MAPPI		Y 322
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N,	ion: ION UNKN EXTENT C E KNOWN R18E, Sec	F THE VALLE	Υ.	CTIONS FROM S	SEP 189 r	94.	Y." MAPPI	Area (acres) : 3,3	
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, UTM: Zone-1	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952	F THE VALLE FROM A SET :. 25 (M)	Υ.	ECTIONS FROM S	EP 189 r i de: 3	94. non-specific area	Y." MAPPI	Area (acres) : 3,3	322
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, UTM: Zone-1 County Summa	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952	F THE VALLE FROM A SET :. 25 (M)	Υ.	ECTIONS FROM S Accuracy: Latitude/Longitud Quad Summary:	EP 189 r de: 3	94. non-specific area	Y." MAPPI	Area (acres) : 3,3	322
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952	F THE VALLE FROM A SET :. 25 (M)	Υ.	ECTIONS FROM S Accuracy: Latitude/Longitud Quad Summary:	EP 189 r de: 3	94. non-specific area 38.76945 / -119.93572	Y." MAPPI	Area (acres) : 3,3	322
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa Alpine Sources:	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952 ary:	F THE VALLE FROM A SET 5. 25 (M) 37 E244943	Y. OF COLLE	ECTIONS FROM S Accuracy: Latitude/Longitud Quad Summary: Carson Pass (381	SEP 189 r d e: 3 11968),	94. non-specific area 38.76945 / -119.93572		Area (acres): 3,3 Elevation (feet): 7,0	322
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa Alpine Sources: STE94S0007	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952 ary: STEPHI	F THE VALLE FROM A SET :. 25 (M) 37 E244943 ENS, F STEI	PHENS #1	ECTIONS FROM SI Accuracy: Latitude/Longitude Quad Summary: Carson Pass (381 870 USNM #67851	EP 189 r de: 3 11968), 1 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978)	ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0	322
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa Alpine Sources: STE94S0007 STE94S0008	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952 ary: STEPHI STEPHI	F THE VALLE FROM A SET 5. 25 (M) 37 E244943 ENS, F STEI	PHENS #1	ECTIONS FROM S Accuracy: Latitude/Longitud Quad Summary: Carson Pass (381 870 USNM #67851 875 USNM #67852	EP 189 r de: 3 11968), 1 COLL 2 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978) _ECTED FROM HOPE V/	ALLEY 189 ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0 94-09-06 94-09-07	322
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa Alpine Sources: STE94S0007 STE94S0008 STE94S0009	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952: ary: STEPHI STEPHI STEPHI	F THE VALLE FROM A SET 2. 25 (M) 37 E244943 ENS, F STEI ENS, F STEI	PHENS #1 PHENS #1 PHENS #1	CTIONS FROM S Accuracy: Latitude/Longitud Quad Summary: Carson Pass (381 870 USNM #67851 875 USNM #67852 878 USNM #67853	EP 189 r de: 3 11968), 1 COLL 2 COLL 3 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978) LECTED FROM HOPE V/	ALLEY 189 ALLEY 189 ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0 14-09-06 14-09-07 14-09-08	322
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa Alpine Sources: STE94S0007 STE94S0009 STE94S0010	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952 ary: STEPHI STEPHI STEPHI STEPHI	F THE VALLE FROM A SET 5. 25 (M) 37 E244943 ENS, F STE ENS, F STE ENS, F STE ENS, F STE	PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1	CTIONS FROM SI Accuracy: Latitude/Longitue Quad Summary: Carson Pass (381 870 USNM #67851 875 USNM #67853 878 USNM #67853	EP 189 r de: 3 11968), 1 COLL 2 COLL 3 COLL 4 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978) ECTED FROM HOPE V/ ECTED FROM HOPE V/	ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0 94-09-06 94-09-07 94-09-08 94-09-08	322
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa Alpine Sources: STE94S0007 STE94S0008 STE94S0009 STE94S0010 STE94S0011	ion: ION UNKN EXTENT O E KNOWN R18E, Sed 11 N42952 ary: STEPHI STEPHI STEPHI STEPHI STEPHI	F THE VALLE FROM A SET 5. 25 (M) 37 E244943 ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI	PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1	CTIONS FROM S Accuracy: Latitude/Longitud Quad Summary: Carson Pass (381 870 USNM #67851 875 USNM #67852 878 USNM #67853 879 USNM #67854 880 USNM #67855	EP 189 r de: 3 11968), 1 COLL 2 COLL 3 COLL 4 COLL 5 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978) ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/	ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0 04-09-06 04-09-07 04-09-08 04-09-08 04-09-08	322
Detailed Locati EXACT LOCAT ACROSS THE E Ecological: Threats: General: DCCURRENCE PLSS: T11N, JTM: Zone-1 County Summa Alpine Sources: STE94S0007 STE94S0008 STE94S0009 STE94S0010 STE94S0011 STE94S0012	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952 ary: STEPHI STEPHI STEPHI STEPHI STEPHI STEPHI	F THE VALLE FROM A SET 2. 25 (M) 37 E244943 ENS, F STE ENS, F STE ENS, F STE ENS, F STE ENS, F STE ENS, F STE	PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1	CTIONS FROM SI Accuracy: Latitude/Longitud Quad Summary: Carson Pass (381 870 USNM #67851 875 USNM #67852 878 USNM #67853 879 USNM #67854 880 USNM #67855	EP 189 r de: 3 11968), 1 COLL 2 COLL 3 COLL 5 COLL 6 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978) ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/	ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0 14-09-06 14-09-07 14-09-08 14-09-08 14-09-08	322
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats: General: OCCURRENCE PLSS: T11N,	ion: ION UNKN EXTENT C E KNOWN R18E, Sec 11 N42952 ary: STEPHI STEPHI STEPHI STEPHI STEPHI STEPHI	F THE VALLE FROM A SET 5. 25 (M) 37 E244943 ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI	PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1	ECTIONS FROM SI Accuracy: Latitude/Longitud Quad Summary: Carson Pass (381 870 USNM #67852 875 USNM #67852 879 USNM #67854 880 USNM #67855 881 USNM #67856 890 USNM #67857	EP 189 r de: 3 11968), 1 COLL 2 COLL 3 COLL 5 COLL 6 COLL 7 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978) ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/	ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0 04-09-06 04-09-07 04-09-08 04-09-08 04-09-08 04-09-08 04-09-08 04-09-08	322
Detailed Locati EXACT LOCATI ACROSS THE E Ecological: Threats: General: OCCURRENCE PLSS: T11N, UTM: Zone-1 County Summa Alpine Sources: STE94S0007 STE94S0008 STE94S0009 STE94S0010 STE94S0011 STE94S0012 STE94S0013	ion: ION UNKN EXTENT O E KNOWN R18E, Sed 11 N42952 ary: STEPHI STEPHI STEPHI STEPHI STEPHI STEPHI STEPHI	F THE VALLE FROM A SET 2. 25 (M) 37 E244943 ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI ENS, F STEI	PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1 PHENS #1	CTIONS FROM SI Accuracy: Latitude/Longitud Quad Summary: Carson Pass (381 870 USNM #67851 875 USNM #67852 878 USNM #67853 879 USNM #67855 880 USNM #67855 881 USNM #67855 890 USNM #67857	EP 189 r de: 3 11968), 1 COLL 2 COLL 3 COLL 5 COLL 5 COLL 6 COLL 7 COLL 8 COLL	94. non-specific area 38.76945 / -119.93572 Freel Peak (3811978) ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/ ECTED FROM HOPE V/	ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189 ALLEY 189	Area (acres): 3,3 Elevation (feet): 7,0 14-09-06 14-09-07 14-09-08 14-09-08 14-09-08 14-09-08 14-09-08 14-09-08	322



California Department of Fish and Wildlife



Map Index Number:	A5715		EO Index:	10745	8	
Key Quad:	Woodfords (3	811977)	Element Code:	AMAF	AMAFJ01010	
Occurrence Number:	334		Occurrence Last U	pdated: 2017-0	08-04	
Scientific Name: E	rethizon dorsatu	ım	Common Name:	North American p	orcupine	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_LC-Least C	Concern	
CNDDB Element Rank	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
	ERED OBSER	A NEVADA, CASCADE, AND CO VATIONS FROM FORESTED AR		CONIFEROUS AN	ID MIXED WOODLANE) HABITAT
Last Date Observed:	1921-06-25		Occurrence Type:	Natural/Native of	ccurrence	
Last Survey Date:	1921-06-25		Occurrence Rank:	Unknown		
Owner/Manager:	UNKNOWN, P	νντ	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
FREDERICKSBURG, N	OF PAYNESVI	LLE.				
Detailed Location:						
		RANCH, FREDERICKSBURG." B Y TO FREDERICKSBURG.	RUNS RANCH COULD NOT	BE ACCURATEL	Y LOCATED AND THE	REFORE
Ecological:						
Threats:						
General:						
1 PORCUPINE COLLE	CTED (MVZ# 32	376) ON 25 JUN 1921 BY R. HU	NT.			
PLSS: T11N, R20E, S	Sec. 7 (M)	Accuracy:	1 mile		Area (acres):	1,987
UTM: Zone-11 N430	1458 E258063	Latitude/Longitude:	38.82869 / -119.78705		Elevation (feet):	5,077
County Summary:		Quad Summary:				
Alpine		Woodfords (3811977)			



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A5716		EO Index:		107459		
Key Quad:	Freel Peak (3	811978)	Element Code:	Element Code: AN			
Occurrence Number:	335		Occurrence Last U	Occurrence Last Updated: 2017-		7-08-04	
Scientific Name: E	rethizon dorsatu	m	Common Name:	North Ame	erican porcupine		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_LC-	Least Concern		
CNDDB Element Rank	s: Global:	G5					
	State:	S3					
General Habitat:			Micro Habitat:				
	ERED OBSER	A NEVADA, CASCADE, AND COA /ATIONS FROM FORESTED ARE		CONIFER	DUS AND MIXED WOODLANI	D HABITAT	
Last Date Observed:	2011-09-27		Occurrence Type:	Natural/N	lative occurrence		
Last Survey Date:	2011-09-27		Occurrence Rank:	Unknown	I		
Owner/Manager:	USFS-TOIYAB	BE NF	Trend:	Unknown	I		
Presence:	Presumed Exta	ant					
Location:							
NEAR HEADWATERS	OF WILLOW CR	EEK, 2.6 MI SW OF JOBS PEAK,	3.4 MI NNE OF SORENSE	NS.			
Detailed Location:							
MAPPED ACCORDING	TO THE PROV	IDED COORDINATES FOR THE (CAMERA STATION.				
Ecological:							
OPEN WHITE BARK PI	NE WITH LOW	SHRUBS, SAGEBRUSH, PINE MA	AT MANZANITA.				
Threats:							
General:							
1 ADULT PORCUPINE	DETECTED WIT	TH A BAITED CAMERA STATION	ON 27 SEP 2011.				
PLSS: T11N, R19E, S	ec. 17, NW (M)	Accuracy:	1/10 mile		Area (acres):	18	
UTM: Zone-11 N430	1047 E250127	Latitude/Longitude:	38.82278 / -119.87822		Elevation (feet):	9,122	
County Summary:		Quad Summary:					
Alpine		Freel Peak (3811978)					

CDFW-REGION 2 2016-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A5717		EO Index:	1	07460		
Key Quad:	Freel Peak (38	811978)	Element Code:	A	AMAFJ01010		
Occurrence Number:	336		Occurrence Last U	Occurrence Last Updated: 201		017-08-04	
Scientific Name: E	rethizon dorsatu	m	Common Name:	North Ameri	can porcupine		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_LC-Le	east Concern		
CNDDB Element Rank	s: Global:	G5					
	State:	S3					
General Habitat:			Micro Habitat:				
	ERED OBSER	A NEVADA, CASCADE, AND COA /ATIONS FROM FORESTED ARE		CONIFEROL	JS AND MIXED WOODLANE	HABITAT	
Last Date Observed:	2014-10-05		Occurrence Type:	Natural/Nat	tive occurrence		
Last Survey Date:	2014-10-05		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-TOIYAB	E NF, UNKNOWN	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
ALONG HWY 89, ABOU	JT 0.6 MI E OF H	HWY 88, 1.3 MI N OF PICKETT PI	EAK, SORENSENS.				
Detailed Location:							
MAPPED ACCORDING	TO THE PROV	IDED COORDINATES. LOCATIO	N DESCRIBED AS "NEAR S	SORENSONS	S RESORT, HWY 89."		
Ecological:							
Threats:							
POTENTIAL THREAT D	OUE TO VEHICL	E COLLISIONS.					
General:							
		KILL ON 5 OCT 2014; SAMPLE TA					
PLSS: T11N, R18E, S		Accuracy:	non-specific area		Area (acres):	24	
UTM: Zone-11 N429	5793 E247377	Latitude/Longitude:	38.77471 / -119.90793		Elevation (feet):	6,945	
County Summary:		Quad Summary:					
Alpine		Freel Peak (3811978)					

CDFW-REGION 2 2016-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A5725		EO Index:		107468		
Key Quad:	Freel Peak (3	811978)	Element Code:	Element Code: AMA		IAFJ01010	
Occurrence Number:	337		Occurrence Last U	pdated:	2017-08-04		
Scientific Name: E	rethizon dorsatu	m	Common Name:	North Am	erican porcupine		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_LC	C-Least Concern		
CNDDB Element Rank	s: Global:	G5					
	State:	S3					
General Habitat:			Micro Habitat:				
	TERED OBSER\	A NEVADA, CASCADE, AND COA /ATIONS FROM FORESTED ARE		CONIFER	OUS AND MIXED WOODLANI	O HABITAT	
Last Date Observed:	2003-06-01		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	2003-06-01		Occurrence Rank:	Unknow	n		
Owner/Manager:	DFG		Trend:	Unknow	n		
Presence:	Presumed Exta	ant					
Location:							
JUST N OF HWY 88 AT	- HWY 89, 1.7 M	I SE OF THOMPSON PEAK, 2.8 M	I ENE OF SCOTTS LAKE	, HOPE VA	ALLEY.		
Detailed Location:							
MAPPED ACCORDING	TO THE PROV	IDED COORDINATES. LOCATION	N DESCRIBED AS "HOPE '	VALLEY."			
Ecological:							
Threats:							
General:							
1 PORCUPINE OBSER	VED ALIVE ON	1 JUN 2003; OBSERVED AT NIG	HT.				
PLSS: T11N, R18E, S	Sec. 24 (M)	Accuracy:	1/5 mile		Area (acres):	70	
UTM: Zone-11 N429	6453 E246413	Latitude/Longitude:	38.78037 / -119.91926		Elevation (feet):	7,078	
County Summary:		Quad Summary:					
Alpine		Freel Peak (3811978)					
Alpine							

CDFW-REGION 2 2016-XX-XX



California Department of Fish and Wildlife



Map Index Number:	A5735		EO Index:	107478
Key Quad:	Carson Pass ((3811968)	Element Code:	AMAFJ01010
Occurrence Number:	338		Occurrence Last Updated:	2017-08-28
Scientific Name: E	Erethizon dorsatui	m	Common Name: North A	merican porcupine
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists: IUCN_L	-C-Least Concern
CNDDB Element Rank	s: Global:	G5		
	State:	S3		
General Habitat:			Micro Habitat:	
	TERED OBSERV	NEVADA, CASCADE, AND COAST ATIONS FROM FORESTED AREAS		ROUS AND MIXED WOODLAND HABITAT
Last Date Observed:	2011-08-06		Occurrence Type: Natura	I/Native occurrence
Last Survey Date:	2011-08-06		Occurrence Rank: Unkno	wn
Owner/Manager:	USFS-TOIYAB	E NF	Trend: Unkno	wn
Presence:	Presumed Exta	int		
Location:				
	RATER LAKE, 1.9	9 MI SSW OF HWY 88 AT BLUE LAI	KES RD, 2 MI NNE OF RED LAKI	E DAM, HOPE VALLEY.
ABOUT 1.2 MI E OF CF	RATER LAKE, 1.9	9 MI SSW OF HWY 88 AT BLUE LAI	KES RD, 2 MI NNE OF RED LAKI	E DAM, HOPE VALLEY.
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING				E DAM, HOPE VALLEY. "STATE ROUTE 88, [1.5 MI] WEST OF BLU
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD."				
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD." Ecological:				
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD." Ecological: Threats:	G TO THE PROVI	DED COORDINATES (2 SETS) ANI		
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD." Ecological: Threats: POTENTIAL THREAT I General:	TO THE PROVI	DED COORDINATES (2 SETS) AND E COLLISIONS.	D LOCATION DESCRIPTION OF	"STATE ROUTE 88, [1.5 MI] WEST OF BLU
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD." Ecological: Threats: POTENTIAL THREAT I General:	TO THE PROVI	DED COORDINATES (2 SETS) ANI	D LOCATION DESCRIPTION OF	"STATE ROUTE 88, [1.5 MI] WEST OF BLU
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD." Ecological: Threats: POTENTIAL THREAT I General: 1 PORCUPINE OBSER	G TO THE PROVI DUE TO VEHICLI RVED AS ROADK	DED COORDINATES (2 SETS) AND E COLLISIONS. CILL ON 3 JUL 2010. 1 PORCUPINE	D LOCATION DESCRIPTION OF	"STATE ROUTE 88, [1.5 MI] WEST OF BLU
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD." Ecological: Threats: POTENTIAL THREAT I General: 1 PORCUPINE OBSER PLSS: T10N, R18E, S	G TO THE PROVI DUE TO VEHICLI RVED AS ROADK	DED COORDINATES (2 SETS) AND E COLLISIONS. CILL ON 3 JUL 2010. 1 PORCUPINE Accuracy: r	D LOCATION DESCRIPTION OF	"STATE ROUTE 88, [1.5 MI] WEST OF BLU 6 AUG 2011.
ABOUT 1.2 MI E OF CF Detailed Location: MAPPED ACCORDING LAKES RD." Ecological: Threats: POTENTIAL THREAT I General: 1 PORCUPINE OBSER PLSS: T10N, R18E, S UTM: Zone-11 N429	G TO THE PROVI DUE TO VEHICLI RVED AS ROADK Sec. 12, W (M)	DED COORDINATES (2 SETS) AND E COLLISIONS. CILL ON 3 JUL 2010. 1 PORCUPINE Accuracy: r	D LOCATION DESCRIPTION OF OBSERVED AS ROADKILL ON ("STATE ROUTE 88, [1.5 MI] WEST OF BLU 6 AUG 2011. Area (acres): 65
Detailed Location: MAPPED ACCORDING LAKES RD." Ecological: Threats: POTENTIAL THREAT I General: 1 PORCUPINE OBSER PLSS: T10N, R18E, S	G TO THE PROVI DUE TO VEHICLI RVED AS ROADK Sec. 12, W (M)	DED COORDINATES (2 SETS) AND E COLLISIONS. (ILL ON 3 JUL 2010. 1 PORCUPINE Accuracy: r Latitude/Longitude: 3	D LOCATION DESCRIPTION OF OBSERVED AS ROADKILL ON ("STATE ROUTE 88, [1.5 MI] WEST OF BLU 6 AUG 2011. Area (acres): 65



California Department of Fish and Wildlife



Map Index Number:	A5745		EO Index:		107488		
Key Quad:	Carson Pass	(3811968)	Element Code:			IAFJ01010 17-08-07	
Occurrence Number:	340		Occurrence Last U				
Scientific Name: E	rethizon dorsatu	т	Common Name:	North Am	erican porcupine		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_LC	-Least Concern		
CNDDB Element Rank	s: Global:	G5					
	State:	S3					
eneral Habitat:			Micro Habitat:				
	FERED OBSER	A NEVADA, CASCADE, AND COA (ATIONS FROM FORESTED ARE		CONIFER	OUS AND MIXED WOODLANE) HABITAT.	
ast Date Observed:	2013-05-17		Occurrence Type:	Natural/I	Native occurrence		
ast Survey Date:	2013-05-17		Occurrence Rank:	Unknow	n		
wner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	n		
resence:	Presumed Exta	ant					
ocation:							
UST W OF CARSON F	PASS, ABOUT 0	2 MI NW OF HWY 88 AT RED VIS	STA RD, 1.3 MI S OF RED	LAKE PEA	NK.		
etailed Location:							
		ORDINATES AND LOCATION DE RSON PASS AREA." EXACT LOC					
cological:							
IEADOW.							
hreats:							
eneral:							
ADULT MALE PORCU	JPINE COLLEC	TED (CAS# 26643) IN OCT 1980 E	3Y R. BANDAR. 1 LARGE	PORCUPI	NE OBSERVED ON 17 MAY 20	13.	
PLSS: T10N, R18E, S	Sec. 22, SW (M)	Accuracy:	1/10 mile		Area (acres):	18	
JTM: Zone-11 N428	7214 E239843	Latitude/Longitude:	38.69531 / -119.99132		Elevation (feet):	8,527	
County Summary:		Quad Summary:					
lpine		Carson Pass (3811968	3)				
ources:							
BAN80S0020 BANE	DAR, R CAS M	AMMAL #26643 COLLECTED AT	THE CARSON PASS ARE	A 1980-10	-XX		
		SIERRA ENVIRONMENTAL RES ENTAL RESOURCE CENTER (200		CUPINE SI	GHTING DATA FROM THE CE	NTRAL	



California Department of Fish and Wildlife

California Natural Diversity Database



Man Inday Number	A6287		EO Index:		108041		
Map Index Number:		(2011057)	Element Code:				
Key Quad: Occurrence Number:	Ebbetts Pass 371	(3611957)				AMAFJ01010	
Occurrence Number.	3/1		Occurrence Last O	pualeu.	2017-09-08		
Scientific Name: E	rethizon dorsatu	т	Common Name:	North Arr	nerican porcupine		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_LC	C-Least Concern		
CNDDB Element Ranks	s: Global:	G5					
	State:	S3					
General Habitat:			Micro Habitat:				
	ERED OBSER	A NEVADA, CASCADE, AND COA /ATIONS FROM FORESTED ARE		CONIFER	OUS AND MIXED WOODLANE	D HABITAT.	
ast Date Observed:	2010-08-12		Occurrence Type:	Natural/	Native occurrence		
ast Survey Date:	2010-08-12		Occurrence Rank:	Unknow	'n		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknow	'n		
Presence:	Presumed Exta	ant					
ocation:							
BOUT 2.7 MI E OF RA	YMOND PEAK,	3.8 MI SW OF HWY 4 AT WOLF (CREEK RD, NEAR HISTOI	RICAL SIL	VER MOUNTAIN.		
Detailed Location:							
APPED ACCORDING	TO THE PROV	DED COORDINATES.					
cological:							
SIERRA MIXED CONIF	ER.						
hreats:							
General:							
		RE FOUND AND COLLECTED, IN THE CDFW REGION 2 HEADQUA			OF THE UPPER AND LOWER	MANDIBLE,	
PLSS: T09N, R20E, S	ec. 28, NW (M)	Accuracy:	1/10 mile		Area (acres):	18	
JTM: Zone-11 N4276	6045 E257698	Latitude/Longitude:	38.59985 / -119.78236		Elevation (feet):	6,735	
County Summary:		Quad Summary:					
Alpine		Ebbetts Pass (3811957	7)				
Sources:							

OVE10F0001 OVERMAN, E. - FIELD SURVEY FORM FOR ERETHIZON DORSATUM 2010-08-12



California Department of Fish and Wildlife



Map Index Number:	A6196		EO Index:	107950
Key Quad:	Freel Peak (38	811978)	Element Code:	AMAFJ01010
Occurrence Number:	446		Occurrence Last Updat	ed: 2017-09-01
Scientific Name: E	Erethizon dorsatu	m	Common Name: No	th American porcupine
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists: IUC	CN_LC-Least Concern
CNDDB Element Rank	s: Global:	G5		
	State:	S3		
General Habitat:			Micro Habitat:	
	TERED OBSERV	A NEVADA, CASCADE, AND COA /ATIONS FROM FORESTED ARE		NIFEROUS AND MIXED WOODLAND HABITAT.
Last Date Observed:	2016-10-01		Occurrence Type: Na	atural/Native occurrence
Last Survey Date:	2016-10-01		Occurrence Rank: Ur	nknown
0	USFS-LAKE T		Trend: Ur	ıknown
owner/wanager:	USFS-LARE I			
•	Presumed Exta			
Presence:				
Presence: Location:	Presumed Exta	ant		NTERSECTION, SOUTH LAKE TAHOE.
Presence: Location: ALONG PIONEER TRA	Presumed Exta	ant		
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING	Presumed Exta	ant /I SSW OF HEKPA DR INTERSE(CTION, 1.4 MI NE OF HWY 50	NTERSECTION, SOUTH LAKE TAHOE.
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK	Presumed Exta	ant /I SSW OF HEKPA DR INTERSE(CTION, 1.4 MI NE OF HWY 50	
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological:	Presumed Exta	ant /I SSW OF HEKPA DR INTERSE(CTION, 1.4 MI NE OF HWY 50	NTERSECTION, SOUTH LAKE TAHOE.
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological: Threats:	Presumed Exta NL, ABOUT 0.5 M TO THE PROVI KE TAHOE."	ant /II SSW OF HEKPA DR INTERSEC	CTION, 1.4 MI NE OF HWY 50	NTERSECTION, SOUTH LAKE TAHOE.
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological: Threats: POTENTIAL THREAT D	Presumed Exta NL, ABOUT 0.5 M TO THE PROVI KE TAHOE."	ant /II SSW OF HEKPA DR INTERSEC	CTION, 1.4 MI NE OF HWY 50	NTERSECTION, SOUTH LAKE TAHOE.
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological: Threats: POTENTIAL THREAT E General:	Presumed Exta NIL, ABOUT 0.5 M TO THE PROVI KE TAHOE."	ant /II SSW OF HEKPA DR INTERSEC	CTION, 1.4 MI NE OF HWY 50	NTERSECTION, SOUTH LAKE TAHOE. PIONEER TRAIL BETWEEN BUSCH WAY & ELP
Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological: Threats: POTENTIAL THREAT D General:	Presumed Exta NIL, ABOUT 0.5 M TO THE PROVI E TAHOE." DUE TO VEHICL	ant /II SSW OF HEKPA DR INTERSEC IDED COORDINATES AND LOCA E COLLISIONS.	CTION, 1.4 MI NE OF HWY 50	NTERSECTION, SOUTH LAKE TAHOE. PIONEER TRAIL BETWEEN BUSCH WAY & ELP
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological: Threats: POTENTIAL THREAT D General: 1 PORCUPINE OBSER PLSS: T12N, R18E, S	Presumed Exta NIL, ABOUT 0.5 M TO THE PROVI E TAHOE." DUE TO VEHICL EVED AS ROADK Sec. 21, NE (M)	ant /II SSW OF HEKPA DR INTERSEC IDED COORDINATES AND LOCA E COLLISIONS. KILL ON 1 OCT 2016; FOUND FRE	CTION, 1.4 MI NE OF HWY 50 TION DESCRIPTION OF "ON I	NTERSECTION, SOUTH LAKE TAHOE. PIONEER TRAIL BETWEEN BUSCH WAY & ELI Y HIT THE PREVIOUS NIGHT.
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological: Threats: POTENTIAL THREAT D General: 1 PORCUPINE OBSER PLSS: T12N, R18E, S UTM: Zone-11 N430	Presumed Exta NIL, ABOUT 0.5 M TO THE PROVI E TAHOE." DUE TO VEHICL EVED AS ROADK Sec. 21, NE (M)	ant /II SSW OF HEKPA DR INTERSEC IDED COORDINATES AND LOCA E COLLISIONS. KILL ON 1 OCT 2016; FOUND FRE Accuracy:	CTION, 1.4 MI NE OF HWY 50 TION DESCRIPTION OF "ON F ESH IN THE MORNING, LIKEL" non-specific area	NTERSECTION, SOUTH LAKE TAHOE. PIONEER TRAIL BETWEEN BUSCH WAY & ELI Y HIT THE PREVIOUS NIGHT. Area (acres): 10
Presence: Location: ALONG PIONEER TRA Detailed Location: MAPPED ACCORDING CLUB DRIVE IN S. LAK Ecological: Threats: POTENTIAL THREAT D General: 1 PORCUPINE OBSER PLSS: T12N, R18E, S	Presumed Exta NIL, ABOUT 0.5 M TO THE PROVI E TAHOE." DUE TO VEHICL EVED AS ROADK Sec. 21, NE (M)	ant /II SSW OF HEKPA DR INTERSEC IDED COORDINATES AND LOCA E COLLISIONS. KILL ON 1 OCT 2016; FOUND FRE Accuracy: Latitude/Longitude:	CTION, 1.4 MI NE OF HWY 50 TION DESCRIPTION OF "ON F ESH IN THE MORNING, LIKEL" non-specific area	NTERSECTION, SOUTH LAKE TAHOE. PIONEER TRAIL BETWEEN BUSCH WAY & ELF Y HIT THE PREVIOUS NIGHT. Area (acres): 10



California Department of Fish and Wildlife



Key Quad: Occurrence Num Scientific Name: Listing Status: CNDDB Element	ber:	Carson Pass 506 thizon dorsatu		Element Code: Occurrence Last U		AMAFJ01010
Scientific Name: Listing Status:				Occurrence Last U	pdated:	
Listing Status:	Ere	thizon dorsatu			•	2017-09-29
-			111	Common Name:	North Ame	rican porcupine
CNDDB Element		Federal:	None	Rare Plant Rank:		
CNDDB Element		State:	None	Other Lists:	IUCN_LC-I	Least Concern
	Ranks:	Global:	G5			
		State:	S3			
General Habitat:				Micro Habitat:		
	SCATTE	RED OBSER\	A NEVADA, CASCADE, AND COA /ATIONS FROM FORESTED ARI		CONIFERC	OUS AND MIXED WOODLAND HABITA
Last Date Observ	/ed: 2	2014-10-01		Occurrence Type:	Natural/Na	ative occurrence
Last Survey Date	: 2	2014-10-01		Occurrence Rank:	Unknown	
Owner/Manager:	ι	JSFS-TOIYAB	BE NF	Trend:	Unknown	
Presence:	F	Presumed Exta	ant			
Location:						
ABOUT 1.1 MI WS	SW OF H	HWY 88 AT BL	LUE LAKES RD, 1.3 MI NE OF ST	EVENS PEAK, 1.4 MI S O	F SCOTTS L	AKE.
Detailed Locatior	า:					
VAPPED ACCOR	DING T	O THE PROV	IDED COORDINATES AND LOCA	ATION DESCRIPTION OF "	NEAR SCO	TTS LAKE ROAD, ALPINE COUNTY."
Ecological:						
	VHITE F	IR TREE.				
Threats:						
			A TREE ON 1 OCT 2014. ENCOL		, ANIMAL PI	
PLSS: T10N, R1		. ,	Accuracy:	2/5 mile		Area (acres): 280
UTM: Zone-11	N42925	45 E242612	Latitude/Longitude:	38.7441 / -119.9615		Elevation (feet): 7,743
County Summary	/:		Quad Summary:			
Alpine			Carson Pass (381196	8)		
Sources:						
		SON, S. (CAL REGION 2 20 ⁻		H AND WILDLIFE-REGION	2) - PORCL	JPINE SIGHTINGS DATABASE FROM
			ORNIA DEPARTMENT OF FISH			3550 FROM



California Department of Fish and Wildlife



Map Index Number:	B3536		EO Index:		115456	
Key Quad:	Freel Peak (38	811978)	Element Code:			
Occurrence Number:	509		Occurrence Last U	Occurrence Last Updated: 2019		
Scientific Name: E	rethizon dorsatu	m	Common Name:	North Am	nerican porcupine	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_LC	C-Least Concern	
CNDDB Element Ranks	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
	ERED OBSER	A NEVADA, CASCADE, AND COA ATIONS FROM FORESTED ARE		CONIFER	OUS AND MIXED WOODLANE) HABITAT
Last Date Observed:	2017-06-15		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2017-06-15		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
NORTH SIDE OF HWY	89, ABOUT 1.8	MI NW OF LUTHER PASS & 2.4 I	MI ENE OF ALPINE CAMPO	GROUND.		
Detailed Location:						
MAPPED TO PROVIDE	D COORDINATI	ES. IN LAKE TAHOE BASIN MAN	AGEMENT UNIT.			
Ecological:						
NEAR GRASS LAKE. D	ETECTED BY S	POTTED OWL SURVEY CREW.				
Threats:						
General:						
1 INDIVIDUAL OF UNK	NOWN AGE OB	SERVED IN A TREE ON 15 JUN	2017.			
PLSS: T11N, R18E, S	sec. 15, NW (M)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N4298	8795 E241617	Latitude/Longitude:	38.80006 / -119.97528		Elevation (feet):	7,966
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				
Sources:						
WIL17F0012 WILS	ON, J. ET AL I	FIELD SURVEY FORM FOR ERE	THIZON DORSATUM 2017	-06-15		
		REST SERVICE) - 2017 PORCU AND PHOTOS) 2017-XX-XX	PINE SIGHTINGS REPORT	ED BY LC	OWER TAHOE BASIN MANAGE	EMENT UN



California Department of Fish and Wildlife



	B3537		EO Index:		115457	
Key Quad:	Freel Peak (38	811978)	Element Code:		AMAFJ01010	
Occurrence Number:	510		Occurrence Last Up	Occurrence Last Updated: 2019-08-08		
Scientific Name: E	Erethizon dorsatu	m	Common Name:	North Ame	rican porcupine	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_LC-I	Least Concern	
CNDDB Element Rank	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
	TERED OBSERV	A NEVADA, CASCADE, AND COA ATIONS FROM FORESTED ARE		CONIFERC	OUS AND MIXED WOODLAND) HABITAT
Last Date Observed:	2017-10-30		Occurrence Type:	Natural/N	ative occurrence	
Last Survey Date:	2017-10-30		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
	N CREEK, ABOL	JT 1.5 MI E OF ZAPOTEC DR AT	CHIBCHA ST IN MEYERS,	2.5 MI SE	OF THE TAHOE AIRPORT.	
TRIBUTARY TO SAXO	N CREEK, ABOL	JT 1.5 MI E OF ZAPOTEC DR AT	CHIBCHA ST IN MEYERS,	2.5 MI SE	OF THE TAHOE AIRPORT.	
Location: TRIBUTARY TO SAXOI Detailed Location: MAPPED TO PROVIDE			CHIBCHA ST IN MEYERS,	2.5 MI SE	OF THE TAHOE AIRPORT.	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE			CHIBCHA ST IN MEYERS,	2.5 MI SE	OF THE TAHOE AIRPORT.	
TRIBUTARY TO SAXO	D COORDINATE		CHIBCHA ST IN MEYERS, 3	2.5 MI SE	OF THE TAHOE AIRPORT.	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological:	D COORDINATE		CHIBCHA ST IN MEYERS, :	2.5 MI SE	OF THE TAHOE AIRPORT.	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats:	D COORDINATE		CHIBCHA ST IN MEYERS, 3	2.5 MI SE (OF THE TAHOE AIRPORT.	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats: General:	D COORDINATE			2.5 MI SE ⁽	OF THE TAHOE AIRPORT.	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats: General:	ED COORDINATE T CREEK. ED WALKING TH	ES.		2.5 MI SE (OF THE TAHOE AIRPORT. Area (acres):	5
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats: General: 1 JUVENILE OBSERVE	ED COORDINATE T CREEK. ED WALKING TH Sec. 26, NW (M)	ES. ROUGH FOREST ON 30 OCT 20	17.	2.5 MI SE ⁽		5 6,902
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats: General: 1 JUVENILE OBSERVE PLSS: T12N, R18E, S	ED COORDINATE T CREEK. ED WALKING TH Sec. 26, NW (M)	ES. ROUGH FOREST ON 30 OCT 20 Accuracy:	17. 80 meters	2.5 MI SE (Area (acres):	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats: General: 1 JUVENILE OBSERVE PLSS: T12N, R18E, S UTM: Zone-11 N430	ED COORDINATE T CREEK. ED WALKING TH Sec. 26, NW (M)	ES. ROUGH FOREST ON 30 OCT 20 Accuracy: Latitude/Longitude:	17. 80 meters	2.5 MI SE (Area (acres):	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats: General: 1 JUVENILE OBSERVE PLSS: T12N, R18E, S UTM: Zone-11 N4303 County Summary:	ED COORDINATE T CREEK. ED WALKING TH Sec. 26, NW (M)	ES. ROUGH FOREST ON 30 OCT 20 Accuracy: Latitude/Longitude: Quad Summary:	17. 80 meters	2.5 MI SE (Area (acres):	
TRIBUTARY TO SAXO Detailed Location: MAPPED TO PROVIDE Ecological: FOREST NEAR TROUT Threats: General: 1 JUVENILE OBSERVE PLSS: T12N, R18E, S UTM: Zone-11 N4303 County Summary: El Dorado Sources:	ED COORDINATE T CREEK. ED WALKING TH Sec. 26, NW (M) 5485 E242586	ES. ROUGH FOREST ON 30 OCT 20 Accuracy: Latitude/Longitude: Quad Summary:	17. 80 meters 38.86055 / -119.96663	2.5 MI SE (Area (acres):	



California Department of Fish and Wildlife



Map Index Number: Key Quad:	B3615 Echo Lake (38	812071)	EO Index: Element Code:	n doto di	115533 AMAFJ01010	
Occurrence Number:	513		Occurrence Last U	•	2019-08-08	
Scientific Name: E	rethizon dorsatu	m	Common Name:	North Ame	erican porcupine	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_LC	-Least Concern	
CNDDB Element Ranks	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
	ERED OBSER	A NEVADA, CASCADE, AND COA /ATIONS FROM FORESTED ARE		CONIFER	OUS AND MIXED WOODLANI	Ο ΗΑΒΙΤΑΤ
Last Date Observed:	2017-08-16		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2017-08-16		Occurrence Rank:	Unknowr	1	
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknowr	ı	
Presence:	Presumed Exta	ant				
Location:						
HWY 89 ABOUT 1.1 AIF	R MILES SE OF	ALPINE CAMPGROUND & 2.9 AI	R MILES W OF LUTHER P	PASS.		
Detailed Location:						
MAPPED TO PROVIDE	D COORDINAT	ES.				
Ecological:						
	RAILHEAD.					
Threats:						
VEHICLE STRIKES. General:						
1 OBSERVED DEAD O		ALIC 2017				
			00			-
PLSS: T11N, R18E, S		Accuracy:	80 meters		Area (acres):	5
UTM: Zone-10 N4297	400 E/604/0	Latitude/Longitude:	38.78743 / -120.00123		Elevation (feet):	7,259
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978),	Echo Lake (3812071)			
Sources:						
		JRVEY FORM FOR ERETHIZON				



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B3623		EO Index:		116537		
Key Quad:	Freel Peak (38	11978)	Element Code:		AMAFJ01010		
Occurrence Number:	516		Occurrence Last U	Occurrence Last Updated: 2019-		08-08	
Scientific Name: E	rethizon dorsatur	n	Common Name:	North Am	erican porcupine		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_LC	C-Least Concern		
CNDDB Element Ranks	s: Global:	G5					
	State:	S3					
General Habitat:			Micro Habitat:				
	FERED OBSERV	NEVADA, CASCADE, AND COA ATIONS FROM FORESTED ARE		CONIFER	OUS AND MIXED WOODLAN	D HABITA	
Last Date Observed:	2017-XX-XX		Occurrence Type:	Natural/I	Native occurrence		
Least Sumiau Data	2017-XX-XX		Occurrence Rank:	Unknow	n		
Last Survey Date:	20.1. / 0.1.0.						
-	USFS-LAKE TA	HOE BMU	Trend:	Unknow	n		
Last Survey Date: Owner/Manager: Presence: Location:			Trend:	Unknow	n		
Owner/Manager: Presence: Location: ABOUT 1.6 MI E OF PIG Detailed Location: MAPPED TO PROVIDE Ecological: SPECIMEN FOUND NE Threats: POSSIBLE VEHICLE S ^T General:	USFS-LAKE TA Presumed Exta ONEER TRAIL A D COORDINATE AR MOUNTAIN TRIKES (MOUNT MOUNTAIN BIK Sec. 23, SW (M)	nt T GARBAGE DUMP RD & 2.2 MI ES. BIKING TRAIL (SIDEWINDER TR	NW OF FOUNTAIN PLACE RAIL).			5 6,656	
Owner/Manager: Presence: Location: ABOUT 1.6 MI E OF PIO Detailed Location: MAPPED TO PROVIDE Ecological: SPECIMEN FOUND NE Threats: POSSIBLE VEHICLE S General: 1 FOUND DEAD NEAR PLSS: T12N, R18E, S	USFS-LAKE TA Presumed Exta ONEER TRAIL A D COORDINATE AR MOUNTAIN TRIKES (MOUNT MOUNTAIN BIK Sec. 23, SW (M)	nt T GARBAGE DUMP RD & 2.2 MI ES. BIKING TRAIL (SIDEWINDER TR FAIN BIKES). ING TRAIL PRIOR TO 17 AUG 20 Accuracy:	NW OF FOUNTAIN PLACE RAIL). 017. 80 meters		ΛEYERS. Area (acres):		
Owner/Manager: Presence: Location: ABOUT 1.6 MI E OF PIO Detailed Location: MAPPED TO PROVIDE Ecological: SPECIMEN FOUND NE Threats: POSSIBLE VEHICLE ST General: 1 FOUND DEAD NEAR PLSS: T12N, R18E, S UTM: Zone-11 N4300	USFS-LAKE TA Presumed Exta ONEER TRAIL A D COORDINATE AR MOUNTAIN TRIKES (MOUNT MOUNTAIN BIK Sec. 23, SW (M)	nt T GARBAGE DUMP RD & 2.2 MI S. BIKING TRAIL (SIDEWINDER TR AIN BIKES). ING TRAIL PRIOR TO 17 AUG 20 Accuracy: Latitude/Longitude:	NW OF FOUNTAIN PLACE RAIL). 017. 80 meters		ΛEYERS. Area (acres):		

STAFF (EXCEL FILE AND PHOTOS) 2017-XX-XX



California Department of Fish and Wildlife



Map Index Numb	er:	14506			EO Index:		23759		
Key Quad:		Carson Pass ((3811968)		Element Code:		AMAJA03	012	
Occurrence Num	ber:	3			Occurrence Last U	pdated:	2013-10-2	23	
Scientific Name:	Vulp	es vulpes nec	cator		Common Name:	Sierra Ne	vada red fo	x	
Listing Status:		Federal:	Proposed	Endangered	Rare Plant Rank:				
		State:	Threatene	ed	Other Lists:	USFS_S-	Sensitive		
CNDDB Element	Ranks:	Global:	G5T1T2						
		State:	S1						
General Habitat:					Micro Habitat:				
	D IN A VA			OOWN TO THE SIERR ROM WET MEADOWS		ORESTS IN			
Last Date Observ	ved: 1	973-10-XX			Occurrence Type:	Natural/N	Native occu	rrence	
Last Survey Date	e: 1	973-10-XX			Occurrence Rank:	Unknowr	า		
Owner/Manager:	U	SFS-HUMBO	DLDT-TOIYA	BE NF	Trend:	Unknowr	า		
Presence:	Р	resumed Exta	ant						
Location:									
VICINITY OF FAIT	TH VALL	EY ALONG W	VEST FORK	CARSON RIVER, TO	IYABE NATIONAL FORES	Т.			
Detailed Location	n:								
					RIBED LOCATION AS "BE" DDB AT FAITH VALLEY A				TY VALLEYS.
Ecological:									
					ORIC RANGE. DNA ANAL IS VULPES VULPES NEC				
Threats:									
General:									
					ENFELL BY LASSEN NAT			OGIST GARY SMIT	H ON 29 MAR
PLSS: T10N, R	19E, Sec	. 29 (M)		Accuracy:	1 mile			Area (acres):	0
UTM: Zone-11	N428496	6 E245866	I	Latitude/Longitude:	38.67683 / -119.92131			Elevation (feet):	7,560
County Summary	y:			Quad Summary:					
Alpine				Carson Pass (3811968	3)				
Sources:									
				CE-LASSEN NATION RY SMITH ON 3-29-9	AL FOREST) - LASSEN NA 0. 1990-08-01	TIONAL F	OREST'S S	IERRA NEVADA RE	ED FOX
	BY SCH		TE TO CRE	ATE 1977 REPORT S	LIST OF LOCALITIES OF TATUS OF SIX FURBEAR				



California Department of Fish and Wildlife



	75936 Davida sellas (2	EO Index:		76940	
Key Quad:		Cone (3811947)	Element Code:	ndatadı	AMAJA03012	
Occurrence Number:	113		Occurrence Last U	poateo:	2009-07-23	
Scientific Name: V	ulpes vulpes neo	cator	Common Name:	Sierra Nev	vada red fox	
Listing Status:	Federal:	Proposed Endangered	Rare Plant Rank:			
	State:	Threatened	Other Lists:	USFS_S-S	Sensitive	
CNDDB Element Ranks	s: Global:	G5T1T2				
	State:	S1				
General Habitat:			Micro Habitat:			
	VARIETY OF H	ASCADES DOWN TO THE SIERF ABITATS FROM WET MEADOWS		ORESTS IN	ID ROCKY AREAS FOR COVE TERSPERSED WITH MEADO	
Last Date Observed:	1990-08-XX		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	1990-08-XX		Occurrence Rank:	Unknown	I	
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown	I	
Presence:	Presumed Exta	ant				
Location:						
HIGHLAND LAKES, AB	OUT 4 MILES S	OUTH OF EBBETTS PASS, STAN	NISLAUS NATIONAL FORE	ST.		
Detailed Location:						
LOCATION DESCRIBE	D AS "ALPINE (CO, HIGHLAND LAKES - S OF EB	BETTS PASS." MAPPED E	BY CNDDB	TO ENCOMPASS THE HIGHL	AND LAKE
LOCATION DESCRIBE	D AS "ALPINE C	CO, HIGHLAND LAKES - S OF EB	BETTS PASS." MAPPED E	BY CNDDB	TO ENCOMPASS THE HIGHL	AND LAKE
LOCATION DESCRIBE COMPLEX. Ecological: PRESUMED TO BE SN	RED FOX BAS	ED UPON ELEVATION AND HIST	ORIC RANGE. DNA ANAL	YSIS MUST	BE DONE ORDER TO CONC	CLUSIVELY
LOCATION DESCRIBE COMPLEX. Ecological: PRESUMED TO BE SN DETERMINE IF A RED	RED FOX BAS		ORIC RANGE. DNA ANAL	YSIS MUST	BE DONE ORDER TO CONC	CLUSIVELY
LOCATION DESCRIBE COMPLEX. Ecological: PRESUMED TO BE SN DETERMINE IF A RED Threats:	RED FOX BAS	ED UPON ELEVATION AND HIST	ORIC RANGE. DNA ANAL	YSIS MUST	BE DONE ORDER TO CONC	CLUSIVELY
COMPLEX. Ecological: PRESUMED TO BE SN	RED FOX BAS	ED UPON ELEVATION AND HIST I THE SIERRA NEVADA REGION	ORIC RANGE. DNA ANAL	YSIS MUST	BE DONE ORDER TO CONC	CLUSIVELY
LOCATION DESCRIBE COMPLEX. Ecological: PRESUMED TO BE SN DETERMINE IF A RED Threats: General:	RED FOX BAS FOX FOUND IN D IN AUG 1990	ED UPON ELEVATION AND HIST I THE SIERRA NEVADA REGION	ORIC RANGE. DNA ANAL	YSIS MUST	BE DONE ORDER TO CONC	CLUSIVELY
LOCATION DESCRIBE COMPLEX. Ecological: PRESUMED TO BE SN DETERMINE IF A RED Threats: General: INDIVIDUAL OBSERVE PLSS: T7.5N, R20E, S	RED FOX BAS FOX FOUND IN D IN AUG 1990 Sec. 05 (M)	ED UPON ELEVATION AND HIST I THE SIERRA NEVADA REGION	ORIC RANGE. DNA ANAL IS VULPES VULPES NEC,	YSIS MUST	FBE DONE ORDER TO CONC AN INTRODUCED SUBSPECIE	CLUSIVELY ES.
LOCATION DESCRIBE COMPLEX. Ecological: PRESUMED TO BE SN DETERMINE IF A RED Threats: General: INDIVIDUAL OBSERVE PLSS: T7.5N, R20E, S UTM: Zone-11 N426	RED FOX BAS FOX FOUND IN D IN AUG 1990 Sec. 05 (M)	ED UPON ELEVATION AND HIST I THE SIERRA NEVADA REGION Accuracy:	ORIC RANGE. DNA ANAL IS VULPES VULPES NEC	YSIS MUST	T BE DONE ORDER TO CONC AN INTRODUCED SUBSPECIE Area (acres):	CLUSIVELY ES. 0
LOCATION DESCRIBE COMPLEX. Ecological: PRESUMED TO BE SN DETERMINE IF A RED Threats: General: INDIVIDUAL OBSERVE PLSS: T7.5N, R20E, S	RED FOX BAS FOX FOUND IN D IN AUG 1990 Sec. 05 (M)	ED UPON ELEVATION AND HIST I THE SIERRA NEVADA REGION Accuracy: Latitude/Longitude: Quad Summary:	ORIC RANGE. DNA ANAL IS VULPES VULPES NEC	YSIS MUS ATOR OR A	T BE DONE ORDER TO CONC AN INTRODUCED SUBSPECIE Area (acres):	CLUSIVELY ES. 0



California Department of Fish and Wildlife



Map Index Number:	A4604		EO Index:		106297		
Key Quad:	Freel Peak (3	811978)	Element Code:		AMAJF01014		
Occurrence Number:	194		Occurrence Last Up	pdated:	2017-05-10		
Scientific Name: A	lartes caurina sie	errae	Common Name:	Sierra mart	en		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	USFS_S-S	ensitive		
CNDDB Element Rank	s: Global:	G5T3					
	State:	S3					
General Habitat:			Micro Habitat:				
		MORE THAN 40% CROWN ND CASCADE MOUNTAINS.			NT-AGED STANDS, PARTICI AGS WHICH PROVIDE CAVIT		
Last Date Observed:	2012-07-XX		Occurrence Type:	Natural/Na	ative occurrence		
Last Survey Date:	2012-07-XX		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
ABOUT 1.5 MILES NW	OF HELL HOLE	AND 1.7 MILES SE OF AZTEC W	AY AT IROQUOIS CIRCLE	IN MEYER	S.		
Detailed Location:							
MAPPED TO PROVIDE	D COORDINATI	ES. PLOT 3330, CAMERA A.					
Ecological:							
RED FIR FOREST.							
Threats:							
General:							
DETECTED BY CAME	RA TRAP BETW	EEN 16 AND 30 JUL 2012.					
PLSS: T12N, R18E, S	Sec. 35, NW (M)	Accuracy:	80 meters		Area (acres):	5	
	3684 E242714	Latitude/Longitude:	38.84438 / -119.96448		Elevation (feet):	8,520	
UTM: Zone-11 N430		Quad Summary:					
UTM: Zone-11 N430 County Summary:							
		Freel Peak (3811978)					



California Department of Fish and Wildlife



Map Index Number:	A4606		EO Index:		106298		
Key Quad:	Freel Peak (38	811978)	Element Code:		AMAJF01014		
Occurrence Number:	195		Occurrence Last U	pdated:	2017-05-10	2017-05-10	
Scientific Name: A	lartes caurina sie	errae	Common Name:	Sierra ma	arten		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	USFS_S-	Sensitive		
CNDDB Element Rank	s: Global:	G5T3					
	State:	S3					
General Habitat:			Micro Habitat:				
		MORE THAN 40% CROWN ND CASCADE MOUNTAINS.			ENT-AGED STANDS, PARTICU NAGS WHICH PROVIDE CAVIT		
Last Date Observed:	2010-XX-XX		Occurrence Type:	Natural/N	Native occurrence		
Last Survey Date:	2010-XX-XX		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-TOIYAB	E NF	Trend:	Unknow	n		
Presence:	Presumed Exta	ant					
Location:							
ABOUT 0.5 MILES SW	OF SCOTTS LA	KE AND 1.75 MILES NNE OF STI	EVENS PEAK, TOIYABE NA	ATIONAL F	FOREST.		
Detailed Location:							
MAPPED TO PROVIDE	D COORDINATI	ES. PLOT 3530, CAMERA B.					
Ecological:							
SIERRAN MIXED CON	IFER FOREST.						
Threats:							
General:							
		EEN 21 SEP AND 5 OCT 2010.					
PLSS: T10N, R18E, S	,	Accuracy:	80 meters		Area (acres):	5	
UTM: Zone-11 N429	4108 E241637	Latitude/Longitude:	38.75788 / -119.97329		Elevation (feet):	8,577	
County Summary:		Quad Summary:					
		Freel Peak (3811978)					
Alpine							



California Department of Fish and Wildlife



Map Index Number:	A4609		EO Index:		106301		
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		AMAJF01014		
Occurrence Number:	198		Occurrence Last U	Occurrence Last Updated: 2017-0		5-10	
Scientific Name: <i>N</i>	lartes caurina sie	errae	Common Name:	Sierra ma	arten		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	USFS_S-	-Sensitive		
CNDDB Element Rank	s: Global:	G5T3					
	State:	S3					
General Habitat:			Micro Habitat:				
		MORE THAN 40% CROWN ND CASCADE MOUNTAINS.			ENT-AGED STANDS, PARTICU NAGS WHICH PROVIDE CAVIT		
Last Date Observed:	2013-07-XX		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	2013-07-XX		Occurrence Rank:	Unknow	'n		
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	'n		
Presence:	Presumed Exta	int					
Location:							
ABOUT 0.9 MILES SW	OF REYNOLDS	PEAK AND 1.1 MILES NORTH O	F THE ELBOW ON CA-4 (G	GNIS), STA	ANISLAUS NF.		
Detailed Location:							
MAPPED TO PROVIDE	D SHAPEFILE. I	PLOT 3777, CAMERA A.					
Ecological:							
LODGEPOLE PINE FO	REST. SIGNS O	F CATTLE IN AREA.					
Threats:							
General:							
DETECTED BY CAMER	RA TRAP BETWE	EEN 16 AND 29 JUL 2013.					
PLSS: T08N, R19E, S	Sec. 2, NE (M)	Accuracy:	80 meters		Area (acres):	5	
UTM: Zone-11 N427	2840 E251788	Latitude/Longitude:	38.56937 / -119.84901		Elevation (feet):	8,606	
County Summary:		Quad Summary:					
A la la a		Ebbetts Pass (381195	7)				
Alpine							



California Department of Fish and Wildlife



Map Index Number:	A4610		EO Index:		106302	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AMAJF01014	
Occurrence Number:	199		Occurrence Last U	pdated:	2017-05-10	
Scientific Name: A	lartes caurina sie	errae	Common Name:	Sierra ma	arten	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	USFS_S-	Sensitive	
CNDDB Element Rank	s: Global:	G5T3				
	State:	S3				
General Habitat:			Micro Habitat:			
		MORE THAN 40% CROWN ND CASCADE MOUNTAINS.			ENT-AGED STANDS, PARTIC NAGS WHICH PROVIDE CAVI	
Last Date Observed:	2013-07-XX		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-07-XX		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	n	
Presence:	Presumed Exta	int				
Location:						
W SIDE CLOVER VALL	EY, ABOUT 1.1	MILES SSE OF TWIN LAKES DA	AM AND 1.75 MILES SW OF	TAMARA	CK LAKE, ELDORADO NF.	
Detailed Location:						
MAPPED TO PROVIDE	D SHAPEFILE.	PLOT 3787, CAMERA B.				
Ecological:						
RED FIR FOREST.						
Threats:						
General:						
		EEN 15 AND 29 JUL 2013.				
PLSS: T09N, R19E, S	,	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N427	5433 E245288	Latitude/Longitude:	38.59087 / -119.92447		Elevation (feet):	7,921
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	58)			



California Department of Fish and Wildlife



Map Index Number:	A4612		EO Index:		106303	
Key Quad:	Pacific Valley	(3811958)	Element Code:		AMAJF01014	
Occurrence Number:	200		Occurrence Last U	pdated:	2017-05-10	
Scientific Name: N	lartes caurina sie	errae	Common Name:	Sierra ma	arten	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	USFS_S-	-Sensitive	
CNDDB Element Rank	s: Global:	G5T3				
	State:	S3				
General Habitat:			Micro Habitat:			
-		MORE THAN 40% CROWN ND CASCADE MOUNTAINS.			ENT-AGED STANDS, PARTICI NAGS WHICH PROVIDE CAVIT	
Last Date Observed:	2013-XX-XX		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2013-XX-XX		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
ABOUT 1.4 MILES NW	OF MOSQUITO	LAKE AND 2.4 MILES ENE OF W	VHEELER LAKE, STANISLA	AUS NATIO	ONAL FOREST.	
Detailed Location:						
MAPPED TO PROVIDE	D SHAPEFILE.	PLOT 3858, CAMERA A.				
Ecological:						
RED FIR FOREST.						
Threats:						
General:						
DETECTED BY CAMER	RA TRAP BETWI	EEN 24 JUL AND 7 AUG 2013.				
PLSS: T08N, R19E, S	Sec. 19, SW (M)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N426	8103 E243883	Latitude/Longitude:	38.52449 / -119.9379		Elevation (feet):	8,041
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	8)			



California Department of Fish and Wildlife



Map Index Number:	A4613		EO Index:		106305
Key Quad:	Pacific Valley (38	11958)	Element Code:		AMAJF01014
Occurrence Number:	201		Occurrence Last Up	pdated:	2017-05-12
Scientific Name: M	artes caurina sierra	е	Common Name:	Sierra ma	rten
Listing Status:	Federal: N	lone	Rare Plant Rank:		
	State: N	lone	Other Lists:	USFS_S-S	Sensitive
CNDDB Element Ranks	s: Global: G	G5T3			
	State: S	33			
General Habitat:			Micro Habitat:		
		RE THAN 40% CROWN CASCADE MOUNTAINS.			ENT-AGED STANDS, PARTICULARLY OLD IAGS WHICH PROVIDE CAVITIES FOR
_ast Date Observed:	2011-XX-XX		Occurrence Type:	Natural/N	lative occurrence
Last Survey Date:	2011-XX-XX		Occurrence Rank:	Unknowr	1
Owner/Manager:	USFS-STANISLAU	JS NF	Trend:	Unknowr	1
Presence:	Presumed Extant				
Detailed Location: MAPPED TO PROVIDE Ecological: 2011: LODGEPOLE PIN Fhreats: General: I DETECTED BY CAME PLSS: T08N, R19E, S JTM: Zone-11 N4267	D SHAPEFILES. 20 IE FOREST. ERA TRAP 10 MAR ec. 30, SW (M)	011: PLOT 3920, CAMERA B. 2003. DETECTED BY CAMER Accuracy: Latitude/Longitude:			STANISLAUS NATIONAL FOREST. ICT 2011. Area (acres): 13 Elevation (feet): 7,997
County Summary:		Quad Summary:			
Alpine		Pacific Valley (3811958	3)		
Sources:					
	OREST SERVICE-		JRCE INFORMATION SYS	TEM (NRI	S) ANIMAL RECORDS FROM CALIFORNIA
WRI16D0001 WRIG	HT, D. (CALIFORN				DETECTIONS FROM ECOREGIONAL



California Department of Fish and Wildlife



Map Index Numbe	er: 1	4474		EO Index:	23722		
Key Quad:	Р	acific Valley	(3811958)	Element Code:	AMAJF01021	l	
Occurrence Num	ber: 3			Occurrence Last U	Jpdated: 2010-04-14		
cientific Name:	Peka	nia pennanti		Common Name:	fisher - West Coast DPS	;	
isting Status:		Federal:	Endangered	Rare Plant Rank:			
-		State:	Threatened	Other Lists:	BLM_S-Sensitive		
NDDB Element	Ranks:	Global:	G5T2T3Q		CDFW_SSC-Species of USFS_S-Sensitive	Special Concern	
		State:	S2S3				
eneral Habitat:				Micro Habitat:			
			GES OF CONIFEROUS FOI /ITH HIGH PERCENT CANO		SNAGS, LOGS AND ROCK LARGE AREAS OF MATU		
ast Date Observ	red: 19	69-07-24		Occurrence Type:	Natural/Native occurren	nce	
ast Survey Date	: 19	69-07-24		Occurrence Rank:	Unknown		
wner/Manager:	P١	/Τ		Trend:	Unknown		
resence:	Pr	esumed Exta	nt				
ocation:	LAKE & L	OWER BLUE	E LAKE, ABOUT 10 MI SW (DF MARKLEEVILLE, PRIVATE	PARCEL WITHIN ELDOR	ADO NATIONAL	FOREST.
ocation: ETWEEN TWIN		OWER BLUE	E LAKE, ABOUT 10 MI SW (OF MARKLEEVILLE, PRIVATE	PARCEL WITHIN ELDOR	ADO NATIONAL	FOREST.
ocation: ETWEEN TWIN Detailed Location DESCRIBED AS	n: T9N R19I	E S30, 8200 I		/ER BLUE LAKE" & "T9N R19E			
ocation: ETWEEN TWIN etailed Location ESCRIBED AS " ONTOUR BETW	n: T9N R19I	E S30, 8200 I	T, BETWEEN TWIN & LOV	/ER BLUE LAKE" & "T9N R19E			
ocation: ETWEEN TWIN etailed Location ESCRIBED AS " ONTOUR BETW cological:	n: T9N R19I /EEN TWI	E S30, 8200 I N LAKE & LO	T, BETWEEN TWIN & LOV	/ER BLUE LAKE" & "T9N R19E			
ocation: ETWEEN TWIN ESCRIBED AS " ONTOUR BETW cological: ODGEPOLE PIN	n: T9N R19I /EEN TWI	E S30, 8200 I N LAKE & LO	T, BETWEEN TWIN & LOV	/ER BLUE LAKE" & "T9N R19E			
ocation: ETWEEN TWIN ESCRIBED AS " ONTOUR BETW cological: ODGEPOLE PIN hreats:	n: T9N R19I /EEN TWI	E S30, 8200 I N LAKE & LO	T, BETWEEN TWIN & LOV	/ER BLUE LAKE" & "T9N R19E			
ocation: ETWEEN TWIN DESCRIBED AS " CONTOUR BETW COLOGICAL: ODGEPOLE PIN hreats: General: WO RECORDS I	n: T9N R19I VEEN TWI E FORES	E S30, 8200 N LAKE & LO ST. /IPF/UCB DA	T, BETWEEN TWIN & LOV DWER BLUE LAKE WITHIN TABASE: ONE FOR A SIGF	/ER BLUE LAKE" & "T9N R19E	S30, LITTLE TWIN LAKE	." MAPPED TO 8 DATE, WITH A N	3200 FT IOTE THAT
ocation: ETWEEN TWIN etailed Location ESCRIBED AS " ONTOUR BETW cological: ODGEPOLE PIN hreats: eneral: WO RECORDS I MAY BE THE SAU	n: T9N R19J /EEN TWI E FORES IN SCHEM ME SIGH	E S30, 8200 I N LAKE & LO T. MPF/UCB DA TING AS THI	T, BETWEEN TWIN & LOV DWER BLUE LAKE WITHIN TABASE: ONE FOR A SIGF	/ER BLUE LAKE" & "T9N R19E SECTION 30. ITING ON 24 JUL 1969 & ANO	S30, LITTLE TWIN LAKE THER AT AN UNKNOWN I G & BURKETT DATABAS	." MAPPED TO 8 DATE, WITH A N	3200 FT IOTE THAT
ocation: ETWEEN TWIN etailed Location ESCRIBED AS " ONTOUR BETW cological: ODGEPOLE PIN hreats: eneral: WO RECORDS I MAY BE THE SAI	n: T9N R19I /EEN TWI E FORES IN SCHEM ME SIGH I9E, Sec.	E S30, 8200 I N LAKE & LO T. MPF/UCB DA TING AS THI	T, BETWEEN TWIN & LOV DWER BLUE LAKE WITHIN TABASE: ONE FOR A SIGH ONE MADE ON 7/24/69."	/ER BLUE LAKE" & "T9N R19E SECTION 30. ITING ON 24 JUL 1969 & ANO SAME DATA CITED IN 1987-DI non-specific area	S30, LITTLE TWIN LAKE THER AT AN UNKNOWN I G & BURKETT DATABAS Ar	." MAPPED TO 8 DATE, WITH A N SES AS ONE RE	200 FT IOTE THAT CORD.
ocation: ETWEEN TWIN Detailed Location DESCRIBED AS " CONTOUR BETW Cological: ODGEPOLE PIN hreats: General: WO RECORDS I MAY BE THE SAU USS: T09N, R1 ITM: Zone-11	n: T9N R19I /EEN TWI E FORES IN SCHEM ME SIGH I9E, Sec. N427749	E S30, 8200 I N LAKE & LO ST. //PF/UCB DA TING AS THI 30, NW (M)	T, BETWEEN TWIN & LOW DWER BLUE LAKE WITHIN TABASE: ONE FOR A SIGH ONE MADE ON 7/24/69." Accuracy:	VER BLUE LAKE" & "T9N R19E SECTION 30. ITING ON 24 JUL 1969 & ANO SAME DATA CITED IN 1987-DI non-specific area Inde: 38.60922 / -119.93425	S30, LITTLE TWIN LAKE THER AT AN UNKNOWN I G & BURKETT DATABAS Ar	." MAPPED TO 8 DATE, WITH A N SES AS ONE RE rea (acres):	0TE THAT CORD. 93
ocation: ETWEEN TWIN Detailed Location DESCRIBED AS " CONTOUR BETW Cological: ODGEPOLE PIN hreats: General: WO RECORDS I MAY BE THE SAU USS: T09N, R1 ITM: Zone-11 County Summary	n: T9N R19I /EEN TWI E FORES IN SCHEM ME SIGH I9E, Sec. N427749	E S30, 8200 I N LAKE & LO ST. //PF/UCB DA TING AS THI 30, NW (M)	T, BETWEEN TWIN & LOW WER BLUE LAKE WITHIN TABASE: ONE FOR A SIGH ONE MADE ON 7/24/69." Accuracy: Latitude/Longitu	/ER BLUE LAKE" & "T9N R19E SECTION 30. ITING ON 24 JUL 1969 & ANO SAME DATA CITED IN 1987-DI non-specific area Ide: 38.60922 / -119.93425	S30, LITTLE TWIN LAKE THER AT AN UNKNOWN I G & BURKETT DATABAS Ar	." MAPPED TO 8 DATE, WITH A N SES AS ONE RE rea (acres):	000 FT OTE THAT CORD. 93
ocation: ETWEEN TWIN Detailed Location DESCRIBED AS " CONTOUR BETW Cological: ODGEPOLE PIN hreats: Seneral: WO RECORDS I MAY BE THE SAU UAY BE THE SAU LSS: T09N, R1 ITM: Zone-11 County Summary Ipine	n: T9N R19I /EEN TWI E FORES IN SCHEM ME SIGH I9E, Sec. N427749	E S30, 8200 I N LAKE & LO ST. //PF/UCB DA TING AS THI 30, NW (M)	T, BETWEEN TWIN & LOV DWER BLUE LAKE WITHIN TABASE: ONE FOR A SIGH ONE MADE ON 7/24/69." Accuracy: Latitude/Longitu Quad Summary:	/ER BLUE LAKE" & "T9N R19E SECTION 30. ITING ON 24 JUL 1969 & ANO SAME DATA CITED IN 1987-DI non-specific area Ide: 38.60922 / -119.93425	S30, LITTLE TWIN LAKE THER AT AN UNKNOWN I G & BURKETT DATABAS Ar	." MAPPED TO 8 DATE, WITH A N SES AS ONE RE rea (acres):	0TE THAT CORD. 93
ocation: ETWEEN TWIN ESCRIBED AS " ONTOUR BETW cological: ODGEPOLE PIN hreats: seneral: WO RECORDS I MAY BE THE SAI LSS: T09N, R1 TM: Zone-11 founty Summary lpine ources: UR97D0001	n: T9N R19 /EEN TWI E FORES IN SCHEN ME SIGH 19E, Sec. N427749 /: BURKET	E S30, 8200 I N LAKE & LO ST. MPF/UCB DA TING AS THI 30, NW (M) 7 E244500	TABASE: ONE FOR A SIGH OWER BLUE LAKE WITHIN TABASE: ONE FOR A SIGH ONE MADE ON 7/24/69." Accuracy: Latitude/Longitu Quad Summary: Pacific Valley (38	VER BLUE LAKE" & "T9N R19E SECTION 30. ATING ON 24 JUL 1969 & ANO SAME DATA CITED IN 1987-DI non-specific area ade: 38.60922 / -119.93425 11958)	S30, LITTLE TWIN LAKE	." MAPPED TO 8 DATE, WITH A N SES AS ONE RE rea (acres): levation (feet):	OTE THAT CORD. 93 8,200
ocation: ETWEEN TWIN Detailed Location DESCRIBED AS " ONTOUR BETW Cological: ODGEPOLE PIN hreats: General: WO RECORDS I MAY BE THE SAI USS: T09N, R1 ITM: Zone-11 County Summary Ipine County Summary Ipine COUNTS COUNTS	n: T9N R19 (EEN TW) E FORES NN SCHEN ME SIGH 19E, Sec. N427749 7: BURKET OBSERV DFG - NC	E S30, 8200 I N LAKE & LO T. MPF/UCB DA TING AS THI 30, NW (M) 7 E244500 T, E. (CALIFO ATIONS (VEI	TABASE: ONE FOR A SIGH TABASE: ONE FOR A SIGH ONE MADE ON 7/24/69." Accuracy: Latitude/Longitu Quad Summary: Pacific Valley (38 DRNIA DEPARTMENT OF F RY SIMILAR TO DFG87U00 .DLIFE SECTION - GORDO	VER BLUE LAKE" & "T9N R19E SECTION 30. ATING ON 24 JUL 1969 & ANO SAME DATA CITED IN 1987-DI non-specific area ade: 38.60922 / -119.93425 11958)	S30, LITTLE TWIN LAKE	." MAPPED TO 8 DATE, WITH A N SES AS ONE RE rea (acres): levation (feet):	NOTE THAT CORD. 93 8,200 AL
Cocation: BETWEEN TWIN Detailed Location DESCRIBED AS " CONTOUR BETW CONTOUR BETW CONTOUR BETW COOGEPOLE PIN Threats: General: WO RECORDS I MAY BE THE SAI PLSS: T09N, R1 JTM: Zone-11 JTM: Zone-11 County Summary Npine Sources: BUR97D0001 DFG87U0015 SCH77R0002	n: T9N R19I /EEN TWI E FORES IN SCHEM ME SIGH 19E, Sec. N427749 /: BURKET OBSERV DFG - NC BUR97D0 SCHEMP	E S30, 8200 I N LAKE & LO T. MPF/UCB DA TING AS THI 30, NW (M) 7 E244500 T, E. (CALIFC ATIONS (VEI DNGAME WIL D001). 1987-C F, P. & M. W	TABASE: ONE FOR A SIGH TABASE: ONE FOR A SIGH ONE MADE ON 7/24/69." Accuracy: Latitude/Longitu Quad Summary: Pacific Valley (38 DRNIA DEPARTMENT OF F RY SIMILAR TO DFG87U00 .DLIFE SECTION - GORDO 19-17 HITE - STATUS OF SIX FUI	/ER BLUE LAKE" & "T9N R19E SECTION 30. ITING ON 24 JUL 1969 & ANO SAME DATA CITED IN 1987-DI non-specific area Inde: 38.60922 / -119.93425 I1958) ISH AND WILDLIFE) - BIOS LA 15). 1997-02-XX	S30, LITTLE TWIN LAKE	." MAPPED TO 8 DATE, WITH A N SES AS ONE RE rea (acres): levation (feet):	AL



California Department of Fish and Wildlife



Map Inde	ex Number:	14430		EO Index:		23721	
Key Qua	ad:	Pacific Valley	(3811958)	Element Code:	Element Code: A		
Occurre	nce Number:	4		Occurrence Last U	pdated:	2010-04-14	
Scientifie	ic Name: Pe	ekania pennanti		Common Name:	fisher - W	/est Coast DPS	
Listing S	Status:	Federal:	Endangered	Rare Plant Rank:			
		State:	Threatened	Other Lists:	BLM_S-S		
CNDDB I	Element Ranks	: Global:	G5T2T3Q			SC-Species of Special Concern	
		State:	S2S3				
Seneral	Habitat:			Micro Habitat:			
	CIDUOUS-RIPA		GES OF CONIFEROUS FOREST VITH HIGH PERCENT CANOPY			GS AND ROCKY AREAS FOR (REAS OF MATURE, DENSE FC	
ast Date	te Observed:	1979-XX-XX		Occurrence Type:	Natural/	Native occurrence	
_ast Sur	rvey Date:	1979-XX-XX		Occurrence Rank:	Unknow	n	
					1.1.1.1		
	Manager:	USFS-ELDORA	ADO NF, PVT	Trend:	Unknow	n	
Owner/M	•	USFS-ELDORA Presumed Exta		Trend:	Unknow	n	
Owner/M Presence	e:			Trend:	Unknow	n	
Owner/M Presence .ocation	e: n:	Presumed Exta					FOREST.
Owner/M Presence ocation /ICINITY	e: n:	Presumed Exta	int				FOREST.
Dwner/M Presence ocation /ICINITY Detailed	re: n: Y OF MEADOW I Location: ON DESCRIBED	Presumed Exta	int	& ABOUT 12 MI SW OF M	ARKLEEV	ILLE, ELDORADO NATIONAL I	
Owner/M Presence ocation /ICINITY Detailed .OCATIC	e: n: Y OF MEADOW I Location: ON DESCRIBED cal:	Presumed Exta	9 MI SE OF KIRKWOOD (TOWN)	& ABOUT 12 MI SW OF M	ARKLEEV	ILLE, ELDORADO NATIONAL I	
Dwner/M Presence ocation /ICINITY Detailed OCATIC Ecologic	e: n: Y OF MEADOW I Location: ON DESCRIBED cal: :	Presumed Exta	9 MI SE OF KIRKWOOD (TOWN)	& ABOUT 12 MI SW OF M	ARKLEEV	ILLE, ELDORADO NATIONAL I	
Owner/M Presence Jocation /ICINITY Detailed OCATIC Ecologic Threats: General:	re: n: Y OF MEADOW I Location: ON DESCRIBED cal: :	Presumed Exta LAKE, ABOUT 9 DAS "T9N R18E	nnt 9 MI SE OF KIRKWOOD (TOWN) E SEC 26, MEADOW LAKE." MAP	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI	ARKLEEV CH INCLL	'ILLE, ELDORADO NATIONAL I IDES MOST OF MEADOW LAK	E.
Owner/M Presence Ocation /ICINITY Detailed OCATIC Cologic Chreats: General: FISHEF	re: n: Y OF MEADOW I Location: ON DESCRIBED cal: : : R OBSERVED /	Presumed Exta LAKE, ABOUT 9 D AS "T9N R18E AT CLOSE RAN	9 MI SE OF KIRKWOOD (TOWN)	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI 1979, AND REPORTED IN	ARKLEEV CH INCLL	'ILLE, ELDORADO NATIONAL I IDES MOST OF MEADOW LAK	E.
Owner/M Presence Location VICINITY Detailed LOCATIC Ecologic Threats: General: 1 FISHEF CITED IN	re: n: Y OF MEADOW I Location: ON DESCRIBED cal: : : R OBSERVED /	Presumed Exta LAKE, ABOUT 9 D AS "T9N R18E AT CLOSE RAN T DATABASE. A	INT 9 MI SE OF KIRKWOOD (TOWN) E SEC 26, MEADOW LAKE." MAP GE BY SCHLITZKUS & BERG IN	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI 1979, AND REPORTED IN	ARKLEEV CH INCLL	'ILLE, ELDORADO NATIONAL I IDES MOST OF MEADOW LAK	E.
Owner/M Presence Location VICINITY Detailed LOCATIC Ecologic Threats: General: 1 FISHEF CITED IN PLSS:	R OBSERVED / N THE BURKET	Presumed Exta LAKE, ABOUT S D AS "T9N R18E AT CLOSE RAN T DATABASE. A ec. 26 (M)	9 MI SE OF KIRKWOOD (TOWN) SEC 26, MEADOW LAKE." MAP GE BY SCHLITZKUS & BERG IN ALSO CITED IN THE 1987-DFG E	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI 1979, AND REPORTED IN NATABASE.	ARKLEEV CH INCLL	'ILLE, ELDORADO NATIONAL I IDES MOST OF MEADOW LAK GION 2'S OCT 1979 MONTHLY	E. REPORT, AS
Dwner/M Presence Location /ICINITY Detailed LOCATIC Ecologic Chreats: General: I FISHEF CITED IN PLSS: JTM:	re: Y OF MEADOW I Location: ON DESCRIBED cal: : R OBSERVED / N THE BURKET T09N, R18E, S	Presumed Exta LAKE, ABOUT S D AS "T9N R18E AT CLOSE RAN T DATABASE. A ec. 26 (M)	INT 9 MI SE OF KIRKWOOD (TOWN) 5 SEC 26, MEADOW LAKE." MAP GE BY SCHLITZKUS & BERG IN ALSO CITED IN THE 1987-DFG E Accuracy:	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI 1979, AND REPORTED IN ATABASE. non-specific area	ARKLEEV CH INCLL	'ILLE, ELDORADO NATIONAL I IDES MOST OF MEADOW LAK GION 2'S OCT 1979 MONTHLY Area (acres):	E. REPORT, AS 644
Dwner/M Presence Jocation /ICINITY Detailed OCATIC Cologic Threats: General: FISHEF CITED IN PLSS: JTM: County S	R OBSERVED A N THE BURKET TO9N, R18E, S Zone-11 N4276	Presumed Exta LAKE, ABOUT S D AS "T9N R18E AT CLOSE RAN T DATABASE. A ec. 26 (M)	9 MI SE OF KIRKWOOD (TOWN) SEC 26, MEADOW LAKE." MAP GE BY SCHLITZKUS & BERG IN ALSO CITED IN THE 1987-DFG D Accuracy: Latitude/Longitude:	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI 1979, AND REPORTED IN DATABASE. non-specific area 38.60267 / -119.96528	ARKLEEV CH INCLL	'ILLE, ELDORADO NATIONAL I IDES MOST OF MEADOW LAK GION 2'S OCT 1979 MONTHLY Area (acres):	E. REPORT, AS 644
Owner/M Presence Occation /ICINITY Detailed OCATIC Cologic Threats: General: FISHEF CITED IN PLSS: JTM: County S Alpine	e: Y OF MEADOW I Location: ON DESCRIBED cal: : R OBSERVED / N THE BURKET T09N, R18E, S Zone-11 N4276 Summary:	Presumed Exta LAKE, ABOUT S D AS "T9N R18E AT CLOSE RAN T DATABASE. A ec. 26 (M)	INT 9 MI SE OF KIRKWOOD (TOWN) E SEC 26, MEADOW LAKE." MAP GE BY SCHLITZKUS & BERG IN ALSO CITED IN THE 1987-DFG D Accuracy: Latitude/Longitude: Quad Summary:	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI 1979, AND REPORTED IN DATABASE. non-specific area 38.60267 / -119.96528	ARKLEEV CH INCLL	'ILLE, ELDORADO NATIONAL I IDES MOST OF MEADOW LAK GION 2'S OCT 1979 MONTHLY Area (acres):	E. REPORT, AS 644
Dwner/M Presence Location /ICINITY Detailed LOCATIC Ecologic Threats: General: I FISHEF CITED IN PLSS: JTM:	e: Y OF MEADOW I Location: ON DESCRIBED cal: : R OBSERVED / N THE BURKET T09N, R18E, S Zone-11 N4276 Summary: : : : : : : : : : : : : :	Presumed Exta LAKE, ABOUT 9 D AS "T9N R18E AT CLOSE RAN T DATABASE. A ec. 26 (M) 9857 E241775 ETT, E. (CALIFO	INT 9 MI SE OF KIRKWOOD (TOWN) E SEC 26, MEADOW LAKE." MAP GE BY SCHLITZKUS & BERG IN ALSO CITED IN THE 1987-DFG D Accuracy: Latitude/Longitude: Quad Summary:	& ABOUT 12 MI SW OF M PED TO SECTION 26 WHI 1979, AND REPORTED IN DATABASE. non-specific area 38.60267 / -119.96528 8)	ARKLEEV CH INCLU	VILLE, ELDORADO NATIONAL I VIDES MOST OF MEADOW LAK GION 2'S OCT 1979 MONTHLY Area (acres): Elevation (feet):	E. REPORT, AS 644 7,840



California Department of Fish and Wildlife



Map Index Num	ber: 1	4340			EO Index:		23704	
Key Quad:	E	Echo Lake (38	812071)		Element Code:		AMAJF01021	
Occurrence Nur	nber: 2	21			Occurrence Last U	pdated:	2010-04-14	
Scientific Name	: Peka	nia pennanti			Common Name:	fisher - W	est Coast DPS	
Listing Status:		Federal:	Endangere	d	Rare Plant Rank:			
		State:	Threatened	ł	Other Lists:	BLM_S-S		
CNDDB Element	t Ranks:	Global:	G5T2T3Q				SC-Species of Special Concerr Sensitive	า
		State:	S2S3					
General Habitat:	:				Micro Habitat:			
				NIFEROUS FOREST ERCENT CANOPY			GS AND ROCKY AREAS FOR REAS OF MATURE, DENSE FO	
Last Date Obser	r ved: 19	967-03-XX			Occurrence Type:	Natural/I	Native occurrence	
Last Survey Dat	: e: 19	967-03-XX			Occurrence Rank:	Unknow	n	
Owner/Manager	: U	SFS-ELDOR	ADO NF		Trend:	Unknow	n	
Presence:	Pi	resumed Exta						
VICINITY OF ALI	PINE CAM	IPGROUND /	ALONG UPPE				DRADO NATIONAL FOREST. PINE CAMPGROUND IN SEC	TION 17.
VICINITY OF ALI Detailed Locatio LOCATION DES Ecological: MIXED CONIFER Threats: General:	PINE CAM on: CRIBED A R FOREST	IPGROUND / S "NEAR ALI -	ALONG UPPE					TION 17.
VICINITY OF ALI Detailed Locatio LOCATION DESE Ecological: MIXED CONIFER Threats: General: FISHER OBSER	PINE CAM on: CRIBED A R FOREST VED IN M/	IPGROUND / S "NEAR ALI ARCH 1967.	ALONG UPPE PINE CAMPG					TION 17.
VICINITY OF ALI Detailed Locatio LOCATION DESE Ecological: MIXED CONIFER Threats: General: FISHER OBSER PLSS: T11N, F	PINE CAM on: CRIBED A R FOREST VED IN M/ R18E, Sec.	IPGROUND / S "NEAR ALI ARCH 1967.	ALONG UPPE PINE CAMPG	ROUND, T11N R18	E S17.' MAPPED TO VICIN		PINE CAMPGROUND IN SEC	
Detailed Location LOCATION DESE Ecological: MIXED CONIFER Threats: General: FISHER OBSER PLSS: T11N, R	PINE CAM on: CRIBED A R FOREST VED IN M/ R18E, Sec.) N429823	IPGROUND / S "NEAR ALI - - ARCH 1967. 17 (M)	ALONG UPPE PINE CAMPG Ad La	ROUND, T11N R18	E S17.' MAPPED TO VICIN		PINE CAMPGROUND IN SEC	0
VICINITY OF ALI Detailed Locatio LOCATION DES Ecological: MIXED CONIFER Threats: General: FISHER OBSER PLSS: T11N, R UTM: Zone-10 County Summar	PINE CAM on: CRIBED A R FOREST VED IN M/ R18E, Sec.) N429823	IPGROUND / S "NEAR ALI - - ARCH 1967. 17 (M)	ALONG UPPE PINE CAMPG Ad La	ROUND, T11N R18 ccuracy: atitude/Longitude: uad Summary:	E S17.' MAPPED TO VICIN		PINE CAMPGROUND IN SEC	0
VICINITY OF ALL Detailed Location COCATION DESE Ecological: MIXED CONIFER Threats: General: FISHER OBSER PLSS: T11N, R UTM: Zone-10 County Summar El Dorado	PINE CAM on: CRIBED A R FOREST VED IN M/ R18E, Sec.) N429823	IPGROUND / S "NEAR ALI - - ARCH 1967. 17 (M)	ALONG UPPE PINE CAMPG Ad La	ROUND, T11N R18 ccuracy: atitude/Longitude: uad Summary:	E S17.' MAPPED TO VICIN 1 mile 38.79490 / -120.01907		PINE CAMPGROUND IN SEC	0
VICINITY OF ALI Detailed Locatio LOCATION DESE Ecological: MIXED CONIFER Threats: General: FISHER OBSER' PLSS: T11N, R UTM: Zone-10 County Summar El Dorado Sources:	PINE CAM on: CRIBED A R FOREST VED IN M/ R18E, Sec. N429823 ry: BURKET	IPGROUND / .S "NEAR ALI .ARCH 1967. 17 (M) 8 E758892 T, E. (CALIFO	ALONG UPPE PINE CAMPG Ad La CRNIA DEPA	ROUND, T11N R18 ccuracy: atitude/Longitude: uad Summary: reel Peak (3811978),	E S17.' MAPPED TO VICIN 1 mile 38.79490 / -120.01907 Echo Lake (3812071) AND WILDLIFE) - BIOS LAY	IITY OF AL	PINE CAMPGROUND IN SEC	0 6,500
VICINITY OF ALI Detailed Locatio LOCATION DESE Ecological: MIXED CONIFER Threats: General: FISHER OBSER' PLSS: T11N, F UTM: Zone-10 County Summar El Dorado Sources: BUR97D0001	PINE CAM on: CRIBED A R FOREST VED IN M/ R18E, Sec. O N429823 ry: BURKET OBSERV DFG - NO	IPGROUND / S "NEAR ALI - - ARCH 1967. 17 (M) 8 E758892 T, E. (CALIFO /ATIONS (VE	ALONG UPPE PINE CAMPG Ad La CAMPG Ad La CAMPG Fr ORNIA DEPA RY SIMILAR LDLIFE SECT	ROUND, T11N R18 ccuracy: atitude/Longitude: uad Summary: reel Peak (3811978), RTMENT OF FISH / TO DFG87U0015).	E S17.' MAPPED TO VICIN 1 mile 38.79490 / -120.01907 Echo Lake (3812071) AND WILDLIFE) - BIOS LAY 1997-02-XX	ITY OF AL	PINE CAMPGROUND IN SEC Area (acres): Elevation (feet):	0 6,500 CAL
VICINITY OF ALI Detailed Locatio LOCATION DESE Ecological: MIXED CONIFER Threats: General: FISHER OBSER PLSS: T11N, R UTM: Zone-10	PINE CAM on: CRIBED A R FOREST VED IN M/ R18E, Sec. 0 N429823 ry: BURKET OBSERV DFG - NC BUR97D SCHEMF	IPGROUND / S "NEAR ALI - - - - - - - - - - - - - - - - - - -	ALONG UPPE PINE CAMPG Ad La <u>Q</u> GRNIA DEPA RY SIMILAR LDLIFE SECT 09-17 /HITE - STAT	ROUND, T11N R18 ccuracy: atitude/Longitude: uad Summary: reel Peak (3811978), RTMENT OF FISH A TO DFG87U0015). 7 FION - GORDON GC US OF SIX FURBEA	E S17.' MAPPED TO VICIN 1 mile 38.79490 / -120.01907 Echo Lake (3812071) AND WILDLIFE) - BIOS LAY 1997-02-XX DULD'S DATABASE PRINT	YER DS30 OUT OF F HE MOUN	PINE CAMPGROUND IN SEC Area (acres): Elevation (feet):	0 6,500 CAL /IILAR TO



California Department of Fish and Wildlife



Map Index Number:	14612		EO Index:	233	62	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	AM	AJF03010	
Occurrence Number:	1		Occurrence Last U	pdated: 198	9-08-10	
Scientific Name: G	ulo gulo		Common Name:	California wolv	erine	
Listing Status:	Federal:	Proposed Threatened	Rare Plant Rank:			
	State:	Threatened	Other Lists:	CDFW_FP-Ful	5	
CNDDB Element Ranks	s: Global:	G4		IUCN_NT-Nea USFS_S-Sens		
	State:	S1				
General Habitat:			Micro Habitat:			
		NTAINS AND THE SIERRA NEVA I ELEVATION HABITATS.			AVES, LOGS, BURROW OPEN AREAS. CAN TR/	
Last Date Observed:	1936-XX-XX		Occurrence Type:	Natural/Native	e occurrence	
Last Survey Date:	1936-XX-XX		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown		
Presence:	Presumed Ext	ant				
Location:						
WILLOW MEADOW, NE	OF LOOKOUT	PEAK; ALSO AT HERMIT VALLE	EY.			
Detailed Location:						
Ecological:						
Threats:						
General:						
ONE OBSERVATION.						
PLSS: T08N, R19E, S	ec. 23, SE (M)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N4268	3224 E251275	Latitude/Longitude:	38.52768 / -119.85324		Elevation (feet):	8,000
County Summary:		Quad Summary:				
Alpine		Ebbetts Pass (381195	57)			



California Department of Fish and Wildlife



Map Index Number:	15005		EO Index:	23354		
Key Quad:	Coleville (381	1955)	Element Code:	AMAJF	03010	
Occurrence Number:	4		Occurrence Last U	pdated: 1989-08	3-10	
Scientific Name: G	ulo gulo		Common Name:	California wolverine	9	
Listing Status:	Federal:	Proposed Threatened	Rare Plant Rank:			
	State:	Threatened	Other Lists:	CDFW_FP-Fully P		
CNDDB Element Ranks	s: Global:	G4		IUCN_NT-Near The USFS_S-Sensitive	reatened	
	State:	S1				
General Habitat:			Micro Habitat:			
		NTAINS AND THE SIERRA NEVA ELEVATION HABITATS.			ES, LOGS, BURROWS EN AREAS. CAN TRA	
Last Date Observed:	1966-08-XX		Occurrence Type:	Natural/Native occ	currence	
Last Survey Date:	1966-08-XX		Occurrence Rank:	Unknown		
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
MINERAL MTN AREA C	OF POISON FLA	AT.				
Detailed Location:						
Ecological:						
Threats:						
General:						
PLSS: T08N, R21E, S	,	•	1 mile		Area (acres):	0
UTM: Zone-11 N4268	5657 E271128	Latitude/Longitude:	38.50990 / -119.62489		Elevation (feet):	8,080
County Summary:		Quad Summary:				
Alpine		Lost Cannon Peak (38	311945), Disaster Peak (381	1946), Coleville (38	11955), Wolf Creek (3	811956)
Sources:						



California Department of Fish and Wildlife



Map Index Number:	14966		EO Index:		23358	
Key Quad:	Wolf Creek (3	3811956)	Element Code:		AMAJF03010	
Occurrence Number:	5		Occurrence Last U	pdated:	1989-08-10	
Scientific Name: G	iulo gulo		Common Name:	California	wolverine	
Listing Status:	Federal:	Proposed Threatened	Rare Plant Rank:			
	State:	Threatened	Other Lists:		P-Fully Protected	
CNDDB Element Rank	s: Global:	G4		IUCN_NT USFS_S-	-Near Threatened Sensitive	
	State:	S1				
General Habitat:			Micro Habitat:			
		NTAINS AND THE SIERRA NEVAI ELEVATION HABITATS.			SES CAVES, LOGS, BURROWS IORE OPEN AREAS. CAN TRA	
Last Date Observed:	1967-XX-XX		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	1967-XX-XX		Occurrence Rank:	Unknow	n	
Owner/Manager:	UNKNOWN		Trend:	Unknowi	n	
Presence:	Presumed Exta	ant				
Location:						
SNOWSLIDE CANYON	, APPROX 3-3.5	5 MILES W OF ALPINE/MONO CC	OUNTY LINE.			
Detailed Location:						
Ecological:						
Threats:						
General:						
PLSS: T08N, R21E, S	Sec. 02, SW (M)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N427	1538 E269406	Latitude/Longitude:	38.56240 / -119.64656		Elevation (feet):	7,250
County Summary:		Quad Summary:				
Alpine		Wolf Creek (3811956)				
Sources:						



California Department of Fish and Wildlife



Map Index Number:	14387		EO Index:		23361		
Key Quad:	Pacific Valley	(3811958)	Element Code:		AMAJF03010		
Occurrence Number:	6		Occurrence Last U	pdated:	1989-08-10		
Scientific Name: G	ulo gulo		Common Name:	California	a wolverine		
Listing Status:	Federal:	Proposed Threatened	Rare Plant Rank:				
	State:	Threatened	Other Lists:	CDFW_FP-Fully Protected			
CNDDB Element Ranks	Ranks: Global:	G4			Γ-Near Threatened -Sensitive		
	State:	S1		_			
General Habitat:			Micro Habitat:				
		ITAINS AND THE SIERRA NEVA ELEVATION HABITATS.		NEEDS WATER SOURCE. USES CAVES, LOGS, BURROWS AND DEN AREA. HUNTS IN MORE OPEN AREAS. CAN TRA			
_ast Date Observed:	1967-XX-XX		Occurrence Type:	Natural/	Natural/Native occurrence		
ast Survey Date:	1967-XX-XX		Occurrence Rank:	Unknow	'n		
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n		
Presence:	Presumed Exta	ant					
_ocation:							
SE SLOPE OF MINERA	L MTN IN SNO	W CANYON (?) APPROX 1-1.5 M	ILES N-NW OF MEADOW L	.K.			
Detailed Location:							
Ecological:							
Threats:							
General:							
PLSS: T09N, R18E, S	ec. 27, NW (M)	Accuracy:	1 mile		Area (acres):	0	
JTM: Zone-11 N4277	7596 E239967	Latitude/Longitude:	38.60879 / -119.98630		Elevation (feet):	8,200	
County Summary:		Quad Summary:					
Soundy Summary.				051)			
Alpine		Pacific Valley (381195	o8), Mokelumne Peak (3812)	051)			



California Department of Fish and Wildlife



Map Index Number:	A4561		EO Index:		106254	
Key Quad:	Caples Lake (3812061)	Element Code:	Element Code: AMAJF		
Occurrence Number:	537		Occurrence Last U	pdated:	2017-05-08	
Scientific Name: 7	axidea taxus		Common Name:	American I	badger	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		C-Species of Special Concerr	ı
CNDDB Element Rank	CNDDB Element Ranks: Global: G5			IUCN_LC-	Least Concern	
	State:	S3				
General Habitat:			Micro Habitat:			
MOST ABUNDANT IN I AND HERBACEOUS H		AGES OF MOST SHRUB, FORE FRIABLE SOILS.			RIABLE SOILS AND OPEN, REYS ON BURROWING ROD	ENTS. DIC
Last Date Observed:	2014-XX-XX		Occurrence Type:	Natural/N	ative occurrence	
Last Survey Date:	2014-XX-XX		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
ABOUT 0.9 MILES NW	OF CARSON PA	ASS & 1.2 MILES SW OF RED LA	KE PEAK, ELDORADO NA	TIONAL FO	REST.	
Detailed Location:						
MAPPED TO PROVIDE	D SHAPEFILE.	PLOT 3602, CAMERA B.				
Ecological:						
LODGEPOLE PINE FO	REST.					
Threats:						
General:						
DETECTED BY CAME	RA TRAP BETWI	EEN 20 AUG AND 3 SEP 2014.				
PLSS: T10N, R18E, S	Sec. 21, NE (M)	Accuracy:	80 meters		Area (acres):	5
		Latitude/Longitude:	38.70107 / -120.0012		Elevation (feet):	8,541
UTW. 2011e-10 19420		Quad Summary:				
County Summary:		-				
		Carson Pass (3811968	3), Caples Lake (3812061)			



California Department of Fish and Wildlife



Map Index Number: 1444 Key Quad: Free	40 el Peak (3811978)		EO Index: Element Code:	16175 CTT51110CA
Occurrence Number: 8			Occurrence Last Up	
Scientific Name: Sphagnu	um Bog		Common Name:	Sphagnum Bog
Listing Status: F	Federal: None		Rare Plant Rank:	
S	State: None		Other Lists:	
CNDDB Element Ranks: G	Global: G3			
S	State: S1.2			
General Habitat:			Micro Habitat:	
Last Date Observed: 1985-	-08-12		Occurrence Type:	Natural/Native occurrence
Last Survey Date: 1985-	-08-12		Occurrence Rank:	Excellent
Owner/Manager: USFS	S-LAKE TAHOE BM	U	Trend:	Unknown
Presence: Presu	umed Extant			
Location:				
GRASS LAKE, ELDORADO NA	ATIONAL FOREST.			
Detailed Location:				
IN 4 SECTIONS.				
Ecological:				
				ADUS (?) MORE WIDESPREAD. OPEN WATER E PER PAYLOR. WATER PH 5.5. 3 TYPES
Threats:				
THREATENED BY WINTER S	ALT RUNOFF FROI	M ROAD.		
General:				
WILL BE PROPOSED AS RNA AND ADDRESS THE PRESEN			BEODATA/VEGCAMP/NAT	URAL_COMM_BACKGROUND.ASP TO INTERPRET
PLSS: T11N, R18E, Sec. 23,	s, NW (M)	Accuracy:	specific area	Area (acres): 292
UTM: Zone-11 N4297755 E	242759	Latitude/Longitude:	38.79104 / -119.96175	Elevation (feet): 7,720
County Summary:		Quad Summary:		
El Dorado		Freel Peak (3811978)		
Sources:				
BIT85U0004 BITTMAN, R	R. & N. MCCARTEN	- TRIP REPORT, GRAS	S LAKE, OSGOOD SWAM	P. 1985-08-12
HOO77R0001 HOOD, L I	INVENTORY OF CA	LIFORNIA NATURAL A	REAS, CALIFORNIA NATU	RAL AREAS COORDINATING COUNCIL 1977-XX-XX
REE81U0001 REED, S L 1981-XX-XX		RRY REED TO MARK I	MOORE DELINEATING 4 A	REAS IN LAKE TAHOE BASIN MANAGEMENT AREA.
SOD88U0001 SODERBER	RG, H LETTER TO	JOYCE MULAOKA ABO	OUT SITE ASSESSMENT O	DF GRASS LAKE. 1988-09-08
USF84U0001 U.S. FORES	ST SERVICE - A SUI	MMARY OF RESEARCH	HNATURAL AREA STATUS	S 1984-11-XX



California Department of Fish and Wildlife



Map Index Number:	95047		EO Index:	99882	
Key Quad:	Freel Peak (3	8811978)	Element Code:	IIHYM24250	
Occurrence Number:	159		Occurrence Last U	pdated: 2015-12-09	
Scientific Name: B	Bombus occident	alis	Common Name:	western bumble bee	
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	Candidate Endangered	Other Lists:	USFS_S-Sensitive	
CNDDB Element Rank	s: Global:	G2G3			
	State:	S1			
General Habitat:			Micro Habitat:		
		ECIES HAS DECLINED A TO SOUTHERN B.C., PERHAPS	3		
Last Date Observed:	1948-07-18		Occurrence Type:	Natural/Native occurrence	
Last Survey Date:	1948-07-18		Occurrence Rank:	Unknown	
Owner/Manager:	USFS, DFG, L	JNKNOWN	Trend:	Unknown	
Presence:	Presumed Ext	ant			
Location:					
HOPE VALLEY.					
Detailed Location:					
EXACT LOCATION UN	KNOWN. MAPP	ED BY CNDDB NON-SPECIFICA	LLY ACROSS THE EXTEN	T OF HOPE VALLEY, SOUTH OF L	AKE TAHOE.
Ecological:					
Threats:					
General:					
COLLECTED 18 JUL 19	948.				
PLSS: T11N, R18E, S	Sec. 25 (M)	Accuracy:	non-specific area	Area (acres	s): 3,322
UTM: Zone-11 N429	5287 E244943	Latitude/Longitude:	38.76945 / -119.93572	Elevation (i	feet): 7,100
		Quad Summary:			
County Summary:					
County Summary: Alpine		Carson Pass (381196	8), Freel Peak (3811978)		



California Department of Fish and Wildlife



Map Index Number:	95047		EO Index:	98257		
Key Quad:	Freel Peak (3	811978)	Element Code:	IIHYM24460		
Occurrence Number:	20		Occurrence Last U	pdated: 2015-07-28		
Scientific Name: B	ombus morrison	ni	Common Name:	Morrison bumble bee		
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_VU-Vulnerable		
CNDDB Element Rank	s: Global:	G4G5				
	State:	S1S2				
General Habitat:			Micro Habitat:			
FROM THE SIERRA-CA		ES EASTWARD ACROSS THE		ERA INCLUDE CIRSIUM, CLEOME, HELIANT THAMNUS, AND MELILOTUS.	HUS,	
Last Date Observed:	1935-09-11		Occurrence Type:	Natural/Native occurrence		
Last Survey Date:	1935-09-11		Occurrence Rank:	Unknown		
Owner/Manager:	USFS, DFG, U	INKNOWN	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
HOPE VALLEY.						
Detailed Location:						
	KNOWN. MAPP	ED BY CNDDB NON-SPECIFICA	LLY ACROSS THE EXTEN	T OF HOPE VALLEY, SOUTH OF LAKE TAHC	DE.	
Ecological:						
Threats:						
General:						
COLLECTED 11 SEP 1	935.					
PLSS: T11N, R18E, S	sec. 25 (M)	Accuracy:	non-specific area	Area (acres): 3,3	22	
UTM: Zone-11 N429	5287 E244943	Latitude/Longitude:	38.76945 / -119.93572	Elevation (feet): 7,0	000	
		Quad Summary:				
County Summary:						
County Summary: Alpine		Carson Pass (381196	8), Freel Peak (3811978)			



California Department of Fish and Wildlife



Map Index Number:	58760		EO Index:	98260			
Key Quad:	Woodfords (3	811977)	Element Code:	IIHYM24	1460		
Occurrence Number:	21		Occurrence Last U	Occurrence Last Updated: 2015-07-28			
Scientific Name: B	ombus morrison	ni	Common Name:	Morrison bumble be	96		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	IUCN_VU-Vulnerab	ble		
CNDDB Element Rank	s: Global:	G4G5					
	State:	S1S2					
General Habitat:			Micro Habitat:				
FROM THE SIERRA-CA		ES EASTWARD ACROSS THE		IERA INCLUDE CIRS OTHAMNUS, AND M	SIUM, CLEOME, HEL ELILOTUS.	IANTHUS,	
Last Date Observed:	1962-10-18		Occurrence Type:	Natural/Native occ	Natural/Native occurrence		
Last Survey Date:	1962-10-18		Occurrence Rank:	Unknown	Unknown		
Owner/Manager:	USFS-TOIYAE	BE NF, UNKNOWN	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
WOODFORDS.							
Detailed Location:							
EXACT LOCATION UN	KNOWN. MAPP	ED BY CNDDB IN GENERAL V	ICINITY OF WOODFORDS, A	ALONG WEST FORM	CARSON RIVER.		
Ecological:							
Threats:							
General:							
COLLECTED 18 OCT 1	962.						
PLSS: T11N, R19E, S	Sec. 35 (M)	Accuracy:	1 mile		Area (acres):	0	
UTM: Zone-11 N429	5671 E254687	Latitude/Longitude	:: 38.77567 / -119.82383		Elevation (feet):	5,600	
County Summary:		Quad Summary:					
County Cummary.							
Alpine		Woodfords (381197	7)				



California Department of Fish and Wildlife



	97040		EO Index:	9	8281	
Key Quad:	Topaz Lake (3	3811965)	Element Code:	II	HYM24460	
Occurrence Number:	22		Occurrence Last U	pdated: 2	015-07-30	
Scientific Name: B	ombus morrisoni	i	Common Name:	Morrison bur	nble bee	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN_VU-V	ulnerable	
CNDDB Element Ranks	s: Global:	G4G5				
	State:	S1S2				
General Habitat:			Micro Habitat:			
FROM THE SIERRA-CA		ES EASTWARD ACROSS THE	FOOD PLANT GEN LUPINUS, CHRYSC		E CIRSIUM, CLEOME, HELI. AND MELILOTUS.	ANTHUS,
Last Date Observed:	1981-09-01		Occurrence Type:	Natural/Nat	ive occurrence	
Last Survey Date:	1981-09-01		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-TOYIAB	E NF	Trend:	Unknown		
		nt				
Presence:	Presumed Exta	arre				
Presence: Location:	Presumed Exta	111				
Location:		un.				
Location: MONITOR PASS SUMM		un.				
Location: MONITOR PASS SUMM Detailed Location:	ЛIT.	IONITOR PASS. COLLECTION F	ROM EAST OF MONITOR	PASS ALSO /	ATTRIBUTED TO THIS LOC	ATION.
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C	ЛIT.		ROM EAST OF MONITOR	PASS ALSO /	ATTRIBUTED TO THIS LOC	ATION.
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C	ЛIT.		ROM EAST OF MONITOR	PASS ALSO /	ATTRIBUTED TO THIS LOC	ATION.
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C Ecological:	ЛIT.		ROM EAST OF MONITOR	PASS ALSO /	ATTRIBUTED TO THIS LOC	ATION.
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C Ecological: Threats:	/IT. ENTERED AT M	IONITOR PASS. COLLECTION F	ROM EAST OF MONITOR	PASS ALSO /	ATTRIBUTED TO THIS LOC	ATION.
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C Ecological: Threats: General:	/IT. ENTERED AT M 1958 AND 1 SEF	IONITOR PASS. COLLECTION F	ROM EAST OF MONITOR 3/5 mile	PASS ALSO /	ATTRIBUTED TO THIS LOC Area (acres):	ATION.
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C Ecological: Threats: General: COLLECTED 21 SEPT PLSS: T10N, R21E, S	AIT. ENTERED AT M 1958 AND 1 SEF Sec. 36 (M)	IONITOR PASS. COLLECTION F		PASS ALSO /		-
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C Ecological: Threats: General: COLLECTED 21 SEPT PLSS: T10N, R21E, S	AIT. ENTERED AT M 1958 AND 1 SEF Sec. 36 (M)	IONITOR PASS. COLLECTION F PT 1981. Accuracy:	3/5 mile	PASS ALSO /	Area (acres):	0
Location: MONITOR PASS SUMM Detailed Location: MAPPED BY CNDDB C Ecological: Threats: General: COLLECTED 21 SEPT PLSS: T10N, R21E, S UTM: Zone-11 N4284	AIT. ENTERED AT M 1958 AND 1 SEF Sec. 36 (M)	IONITOR PASS. COLLECTION F PT 1981. Accuracy: Latitude/Longitude: Quad Summary:	3/5 mile	PASS ALSO /	Area (acres):	0



California Department of Fish and Wildlife



/lap Index Nur	nber:	45649			EO Index:		45649		
(ey Quad:		Woodfords (3	811977)		Element Code:		IILEPJ605	56	
Occurrence Nu	Imber:	1			Occurrence Last Up	odated:	2019-11-1	3	
cientific Nam	e: Spe	yeria nokomis	carsonensis		Common Name:	Carson V	alley silvers	pot	
isting Status:		Federal:	None		Rare Plant Rank:				
		State:	None		Other Lists:				
NDDB Eleme	nt Ranks:	Global:	G3T1T2						
		State:	S1						
eneral Habita	it:				Micro Habitat:				
				THE CARSON RANG RTHERN ALPINE CO		TED COL	ONIES.		
ast Date Obs	erved: 2	009-08-23			Occurrence Type:	Natural/	Native occu	rrence	
ast Survey Da	ate: 2	009-08-23			Occurrence Rank:	Unknow	n		
wner/Manage	er: F	VT, UNKNOV	VN		Trend:	Unknow	n		
resence:	F	resumed Exta	ant						
ocation:									
CINITY OF F	OOTHILL F	RD, 4 AIR MIL	ES SOUTH O	OF NEVADA STATE	ROUTE 207, NEAR THE AL	PINE/DO	UGLAS CO	UNTY LINE.	
etailed Locat	ion:								
YPE LOCALIT	Y: "NEVAD		S COUNTY; (CARSON VALLEY, S	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGI		OUTE 206, 3		OF NEVADA
YPE LOCALIT TATE ROUTE	Y: "NEVAD		S COUNTY; (CARSON VALLEY, S	COSSA RANCH. NEVADA		OUTE 206, 3		OF NEVADA
YPE LOCALIT TATE ROUTE cological: IAPPED FEAT ND UNPLOW	Y: "NEVAL 207, 1463	M, T12N R19 UDES SANFO	S COUNTY; (E S26 ON US DRD'S SCOS	CARSON VALLEY, S SGS FREEL PEAK C. SA RANCH & PURS	COSSA RANCH. NEVADA	-E." RICULTUF	RAL HABITA	3.6 MILES SOUTH	RESSIONS
YPE LOCALII TATE ROUTE cological: APPED FEAT ND UNPLOW hreats:	Y: "NEVAL 207, 1463	M, T12N R19 UDES SANFO	S COUNTY; (E S26 ON US DRD'S SCOS	CARSON VALLEY, S SGS FREEL PEAK C. SA RANCH & PURS	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGI HIA-FOOTHILL SITES. AGF	-E." RICULTUF	RAL HABITA	3.6 MILES SOUTH	RESSIONS
YPE LOCALII TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & J	Y: "NEVAL 207, 1463 URE INCL ED FIELDS	M, T12N R19 UDES SANFO ON RANCH HOUSED AT	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY.	CARSON VALLEY, S SGS FREEL PEAK C SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGI HIA-FOOTHILL SITES. AGF	LE." RICULTUF S ON CAL	RAL HABITA IFORNIA SI 224 FEMALI	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1	RESSIONS ER.
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DU	Y: "NEVAL 207, 1463 URE INCL ED FIELDS	M, T12N R19 UDES SANFO ON RANCH HOUSED AT	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS	CARSON VALLEY, S SGS FREEL PEAK C SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGI HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXIST OGY. PARATYPES: (432 M	LE." RICULTUF S ON CAL	RAL HABITA IFORNIA SI 224 FEMALI	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1	RESSIONS ER.
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DU LSS: T12N,	Y: "NEVAL 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUN R19E, Sec	M, T12N R19 UDES SANFO ON RANCH HOUSED AT	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS EYS IN 2004, A	CARSON VALLEY, S GS FREEL PEAK C SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGI HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXIST OGY. PARATYPES: (432 M O 9 ADULTS PHOTOGRAPI	LE." RICULTUF S ON CAL	RAL HABITA IFORNIA SI 224 FEMALI	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009.	RESSIONS ER. 964-1989.
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DU LSS: T12N, TM: Zone-	Y: "NEVAL 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUN R19E, Sec 11 N43066	M, T12N R19 UDES SANFO ON RANCH HOUSED AT IMER SURVE . 26, NW (M)	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS SYS IN 2004, A L	CARSON VALLEY, S SGS FREEL PEAK C SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO ccuracy:	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGL HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXIST OGY. PARATYPES: (432 M D 9 ADULTS PHOTOGRAPI 3/5 mile	LE." RICULTUF S ON CAL	RAL HABITA IFORNIA SI 224 FEMALI	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009. Area (acres):	RESSIONS ER. 964-1989. 0
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DU LSS: T12N, TM: Zone- ounty Summ	Y: "NEVAL 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUN R19E, Sec 11 N43066 ary:	M, T12N R19 UDES SANFO ON RANCH HOUSED AT IMER SURVE . 26, NW (M)	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS EYS IN 2004, A L C	CARSON VALLEY, S SGS FREEL PEAK C. SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO ccuracy: atitude/Longitude:	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGL HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXIST OGY. PARATYPES: (432 M D 9 ADULTS PHOTOGRAPH 3/5 mile 38.87461 / -119.81966	LE." RICULTUF S ON CAL	RAL HABITA IFORNIA SI 224 FEMALI	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009. Area (acres):	RESSIONS ER. 964-1989. 0
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DL LSS: T12N, TM: Zone- ounty Summ Ipine, Nevada	Y: "NEVAL 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUN R19E, Sec 11 N43066 ary:	M, T12N R19 UDES SANFO ON RANCH HOUSED AT IMER SURVE . 26, NW (M)	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS EYS IN 2004, A L C	CARSON VALLEY, S SGS FREEL PEAK C. SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO ccuracy: atitude/Longitude:	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGL HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXIST OGY. PARATYPES: (432 M D 9 ADULTS PHOTOGRAPH 3/5 mile 38.87461 / -119.81966	LE." RICULTUF S ON CAL	RAL HABITA IFORNIA SI 224 FEMALI	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009. Area (acres):	RESSIONS ER. 964-1989. 0
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DL LSS: T12N, TM: Zone- ounty Summ lpine, Nevada ources:	Y: "NEVAI 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUN R19E, Sec 11 N43066 ary: State BROCK	M, T12N R19 UDES SANFO ON RANCH HOUSED AT IMER SURVE . 26, NW (M) I1 E255389	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS SYS IN 2004, L G OF SPEYEI	CARSON VALLEY, S GS FREEL PEAK C. SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO ccuracy: atitude/Longitude: tuad Summary: /oodfords (3811977),	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGL HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXIST OGY. PARATYPES: (432 M D 9 ADULTS PHOTOGRAPH 3/5 mile 38.87461 / -119.81966	LE." RICULTUF S ON CAL MALES & 2 HED ON 2	RAL HABITA IFORNIA SI 224 FEMALI 23 AUGUST	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009. Area (acres): Elevation (feet):	RESSIONS ER. 964-1989. 0 4,800
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DL LSS: T12N, TM: Zone- ounty Summ pine, Nevada purces: RO08I0001	Y: "NEVAI 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUN R19E, Sec 11 N43066 ary: State BROCK ACCES EMMEL	M, T12N R19 UDES SANFO ON RANCH HOUSED AT IMER SURVE . 26, NW (M) 11 E255389	S COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS SYS IN 2004, L C G OF SPEYEI TTP://WWW. - SYSTEMA	CARSON VALLEY, S SGS FREEL PEAK C SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO ccuracy: atitude/Longitude: atitude/Longitu	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGE HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXIST OGY. PARATYPES: (432 M D 9 ADULTS PHOTOGRAP 3/5 mile 38.87461 / -119.81966 Minden (3811987)	LE." RICULTUF S ON CAL MALES & 2 HED ON 2	RAL HABITA IFORNIA SI 224 FEMALE 23 AUGUST PECIMENS)	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009. Area (acres): Elevation (feet):	RESSIONS ER. 1964-1989. 0 4,800
YPE LOCALIT TATE ROUTE cological: APPED FEAT ND UNPLOW hreats: eneral: OLOTYPE & A ETECTED DL LSS: T12N, TM: Zone- ounty Summ lpine, Nevada ources: RO08I0001 MM98B0001	Y: "NEVAL 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUM R19E, Sec 11 N43066 ary: State BROCK ACCES: EMMEL FLORID LANE, J	M, T12N R19 UDES SANFO ON RANCH HOUSED AT IMER SURVE . 26, NW (M) 11 E255389 . J PHOTOS SED FROM H . T. (EDITOR) A. 878 PP. 19 PHOTOS C	COUNTY; (E S26 ON US DRD'S SCOS PROPERTY. ALLYN MUS SYS IN 2004, L COF SPEYEI TTP://WWW. - SYSTEMA 198-XX-XX DF SPEYERI.	CARSON VALLEY, S SGS FREEL PEAK C. SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO cccuracy: atitude/Longitude: tuad Summary: Voodfords (3811977), RIA NOKOMIS CARS BUTTERFLIESOFAN TICS OF WESTERN	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGI HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXISTS OGY. PARATYPES: (432 M D 9 ADULTS PHOTOGRAPH 3/5 mile 38.87461 / -119.81966 Minden (3811987) SONENSIS TOPOTYPES (P MERICA.COM 2008-XX-XX NORTH AMERICAN BUTTI	LE." RICULTUF S ON CAL MALES & 2 HED ON 2	RAL HABITA IFORNIA SI 224 FEMALE 23 AUGUST PECIMENS) MARIPOSA	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009. Area (acres): Elevation (feet):	RESSIONS ER. 1964-1989. 0 4,800 RANCH, /ILLE,
TATE ROUTE cological: IAPPED FEAT ND UNPLOW hreats: eeneral: OLOTYPE & J ETECTED DU LSS: T12N,	Y: "NEVAI 207, 1463 URE INCL ED FIELDS ALLOTYPE IRING SUM R19E, Sec 11 N43066 ary: State BROCK ACCESS EMMEL FLORID LANE, J HTTP:// SANFO	M, T12N R19 UDES SANFO ON RANCH HOUSED AT IMER SURVE . 26, NW (M) 11 E255389 . J PHOTOS SED FROM H . T. (EDITOR) A. 878 PP. 19 PHOTOS C WWW.BUTTE	S COUNTY; (E S26 ON US PROPERTY. ALLYN MUS SYS IN 2004, L COF SPEYEN S OF SPEYEN TTP://WWW. - SYSTEMA 098-XX-XX DF SPEYEN. RFLIESOFA EADSHEET (CARSON VALLEY, S SGS FREEL PEAK C. SA RANCH & PURS UNCLEAR IF ANY S SEUM OF ENTOMOL 2005, & 2006. UP TO ccuracy: atitude/Longitude: euad Summary: Voodfords (3811977), RIA NOKOMIS CARSO BUTTERFLIESOFAN TICS OF WESTERN A NOKOMIS CARSO MERICA.COM 2009-	COSSA RANCH. NEVADA ALIF-NEV 15' QUADRANGI HIA-FOOTHILL SITES. AGF SUITABLE HABITAT EXISTS OGY. PARATYPES: (432 M D 9 ADULTS PHOTOGRAPH 3/5 mile 38.87461 / -119.81966 Minden (3811987) SONENSIS TOPOTYPES (P MERICA.COM 2008-XX-XX NORTH AMERICAN BUTTI	LE." RICULTUF S ON CAL MALES & 2 HED ON 2 PINNED SI ERFLIES. D HABITA	RAL HABITA IFORNIA SI 224 FEMALE 23 AUGUST PECIMENS) MARIPOSA T AT SCOS	3.6 MILES SOUTH AT WITH WET DEP IDE OF THE BORD ES), COLLECTED 1 2009. Area (acres): Elevation (feet): 9 FROM SCOSSA R A PRESS. GAINESA	RESSIONS ER. 1964-1989. 0 4,800 RANCH, /ILLE, SSED FROM



California Department of Fish and Wildlife



Map Index Number:	B4361		EO Index:	117291	
Key Quad:	Heenan Lake	(3811966)	Element Code:	IILEPJ6056	
Occurrence Number:	8		Occurrence Last U	pdated: 2019-11-04	
Scientific Name: S	Speyeria nokomis	s carsonensis	Common Name:	Carson Valley silverspot	
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:		
CNDDB Element Rank	s: Global:	G3T1T2			
	State:	S1			
General Habitat:			Micro Habitat:		
		RN BASE OF THE CARSON RAN ADA TO NORTHERN ALPINE C		ATED COLONIES.	
Last Date Observed:	2006-XX-XX		Occurrence Type:	Natural/Native occurrence	
Last Survey Date:	2006-XX-XX		Occurrence Rank:	Unknown	
Owner/Manager:	DFW-HEENAN	I LAKE WA	Trend:	Unknown	
Presence:	Presumed Exta	ant			
Location:					
BAGLEY VALLEY, ABC	OUT 0.25 MI S O	F HEENAN RESERVOIR.			
Detailed Location:					
	NATES GIVEN F	OR "BAGLEY VALLEY" SITE.			
Ecological:					
Threats:					
General:					
DETECTED DURING 2	006 SURVEYS.				
PLSS: T09N, R21E, S	Sec. 10, NW (M)	Accuracy:	1/5 mile	Area (acres)	: 70
UTM: Zone-11 N428	0429 E268417	Latitude/Longitude:	38.64218 / -119.66086	Elevation (fe	et): 7,113
County Summary:		Quad Summary:			
Alpine		Heenan Lake (38119	966)		
Sources:					



California Department of Fish and Wildlife



Map Index Number:	B4371		EO Index:	117299			
Key Quad:	Woodfords (38	311977)	Element Code:	Element Code: IILEPJ6056			
Occurrence Number:	9		Occurrence Last U	pdated: 2019-11	-07		
Scientific Name: S	peyeria nokomis	carsonensis	Common Name:	Carson Valley silve	rspot		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G3T1T2					
	State:	S1					
General Habitat:			Micro Habitat:				
		N BASE OF THE CARSON RANG ADA TO NORTHERN ALPINE CO		TED COLONIES.			
Last Date Observed:	2006-XX-XX		Occurrence Type:	Natural/Native occ	urrence		
Last Survey Date:	2006-XX-XX		Occurrence Rank:	Unknown			
Owner/Manager:	UNKNOWN		Trend:	Unknown			
Presence:	Presumed Exta	nt					
Location:							
VICINITY OF CARSON	RIVER, ABOUT	1.4 MI NE OF CA-88 AT CARSON	N RIVER RD & 1.6 MI SW C	OF PAYNESVILLE.			
Detailed Location:							
		TES GIVEN FOR "CARSON RIVE E GIVEN COORDINATES.	R RD SPRINGS" SITE. SP	RINGS ON USGS T	OPO AND VISIBLE I	N AIR	
Ecological:							
Threats:							
General:							
DETECTED DURING 2	006 SURVEYS.						
PLSS: T11N, R19E, S	Sec. 25, N (M)	Accuracy:	1/5 mile		Area (acres):	70	
UTM: Zone-11 N429	7185 E257060	Latitude/Longitude:	38.78995 / -119.79708		Elevation (feet):	5,453	
County Summary:		Quad Summary:					
Alpine		Woodfords (3811977)					
Alpine							



California Department of Fish and Wildlife



Map Index Number:	B4373		EO Index:	117301			
Key Quad:	Woodfords (3	3811977)	Element Code:	IILEPJ6056			
Occurrence Number:	11		Occurrence Last Up	Occurrence Last Updated: 2019-11-08			
Scientific Name:	Speyeria nokomi	s carsonensis	Common Name:	Carson Valley silverspot			
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G3T1T2					
	State:	S1					
General Habitat:			Micro Habitat:				
		RN BASE OF THE CARSON RAN VADA TO NORTHERN ALPINE C		ED COLONIES.			
Last Date Observed:	2006-XX-XX		Occurrence Type:	Natural/Native occurrence			
Last Survey Date:	2006-XX-XX		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-HUMB	OLDT-TOIYABE NF	Trend:	Unknown			
Presence:	Presumed Ext	ant					
Location:							
DIAMOND VALLEY, A	BOUT 0.6 MI WN	W OF THE INTXN OF DIAMOND	VALLEY RD & AIRPORT RD	; 2.3 MI W OF THE INTXN OF CA-88	& CA-89.		
Detailed Location:							
MAPPED GENERALLY	TO COORDIN	ATES GIVEN FOR "DIAMOND VA	LLEY SEEPS" SITE.				
Ecological:							
Threats:							
General:							
DETECTED DURING 2	2006 SURVEYS.						
DIOD TIAN DOOD	Sec. 31, NW (M)	Accuracy:	1/5 mile	Area (acres):	70		
PLSS: 111N, R20E, 3		Latitude/Longitude:	38.7745 / -119.78163	Elevation (feet)	5,467		
UTM: Zone-11 N429	5429 E258350	County Summary: Quad Summary:					
UTM: Zone-11 N429	5429 E258350	Quad Summary:					
UTM: Zone-11 N429	15429 E258350	Quad Summary: Woodfords (3811977))				



California Department of Fish and Wildlife



Map Index Number:	B4374		EO Index:		117302		
Key Quad:	Woodfords (38	311977)	Element Code:		IILEPJ6056		
Occurrence Number:	12		Occurrence Last U	Occurrence Last Updated: 2019-11-08			
Scientific Name: S	peyeria nokomis	carsonensis	Common Name:	Carson Val	lley silverspot		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G3T1T2					
	State:	S1					
General Habitat:			Micro Habitat:				
		N BASE OF THE CARSON RANG ADA TO NORTHERN ALPINE CO		TED COLO	NIES.		
Last Date Observed:	2006-XX-XX		Occurrence Type:	Natural/Na	ative occurrence		
Last Survey Date:	2006-XX-XX		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknown			
Presence:	Presumed Exta	int					
Location:							
NORTHWEST CORNER	R OF THE INTER	RSECTION OF FREDRICKSBURG	G LN AND CA-88, CARSON	VALLEY.			
Detailed Location:							
		DINATES GIVEN FOR "FREDRIC AIR PHOTOS WHEN PLOTTED IN				DATASET	
Ecological:							
Threats:							
General:							
DETECTED DURING 2	006 SURVEYS.						
	Sec. 7, NW (M)	Accuracy:	1/5 mile		Area (acres):	70	
PLSS: T11N, R20E, S		Latitude/Longitude:	38.832 / -119.78113		Elevation (feet):	4,963	
	1810 E258588						
UTM: Zone-11 N430	1810 E258588	Quad Summary:					
PLSS: T11N, R20E, S UTM: Zone-11 N430 County Summary: Alpine	1810 E258588	-					



California Department of Fish and Wildlife



	mber:	B4375		EO Index:	117	303	
Key Quad:		Woodfords (38	811977)	Element Code:	IILE	PJ6056	
Occurrence Nu	umber:	13		Occurrence Last Up	Occurrence Last Updated: 2019-11-0		
Scientific Nam	ne: Spe	yeria nokomis	carsonensis	Common Name:	Carson Valley	silverspot	
Listing Status:	:	Federal:	None	Rare Plant Rank:			
		State:	None	Other Lists:			
CNDDB Eleme	ent Ranks:	Global:	G3T1T2				
		State:	S1				
General Habita	at:			Micro Habitat:			
-		-	RN BASE OF THE CARSON RAN ADA TO NORTHERN ALPINE CO		TED COLONIE:	S.	
Last Date Obs	erved: 2	2006-XX-XX		Occurrence Type:	Natural/Native	occurrence	
ast Survey Da	ate: 2	2006-XX-XX		Occurrence Rank:	Unknown		
Owner/Manage	er: F	PVT		Trend:	Unknown		
Presence:	F	Presumed Exta	ant				
-ocation:							
	SW OF CA	-88 WHERE I	T CROSSES THE NV BORDER 8	1.1 MI NNW OF THE INTX	N OF FOOTHIL	L RD & FREDRICKSBUR	G LN.
ABOUT 0.9 MI		-88 WHERE I	T CROSSES THE NV BORDER 8	& 1.1 MI NNW OF THE INTX	N OF FOOTHIL	L RD & FREDRICKSBUR	G LN.
ABOUT 0.9 MI Detailed Locat MAPPED GENI	tion:		T CROSSES THE NV BORDER 8 DINATES GIVEN FOR "GANSBE	-	N OF FOOTHIL	L RD & FREDRICKSBUR	G LN.
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological:	tion: IERALLY TO	O UTM COOR	DINATES GIVEN FOR "GANSBE	-	N OF FOOTHIL	L RD & FREDRICKSBUR	G LN.
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE	tion: IERALLY TO	O UTM COOR		-	N OF FOOTHIL	L RD & FREDRICKSBUR	G LN.
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats:	tion: IERALLY TO	O UTM COOR	DINATES GIVEN FOR "GANSBE	-	N OF FOOTHIL	L RD & FREDRICKSBUR	G LN.
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Fhreats: General:	tion: IERALLY TO E CHARAC	O UTM COOR	DINATES GIVEN FOR "GANSBE AGRICULTURAL.	-	N OF FOOTHIL	L RD & FREDRICKSBUR	G LN.
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats: General: DETECTED DU	tion: IERALLY TO E CHARAC URING 200	O UTM COOR TERIZED AS 4 AND 2006 S	DINATES GIVEN FOR "GANSBE AGRICULTURAL. SURVEYS.	RG SEEP" SITE.	N OF FOOTHIL		-
Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats: General: DETECTED DU PLSS: T11N,	tion: IERALLY TO E CHARAC URING 200 , R19E, Sec	O UTM COOR TERIZED AS / 4 AND 2006 S 5. 1, NW (M)	DINATES GIVEN FOR "GANSBE AGRICULTURAL. SURVEYS. Accuracy:	RG SEEP" SITE.	N OF FOOTHIL	Area (acres):	70
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats: General: DETECTED DU PLSS: T11N,	tion: IERALLY TO E CHARAC URING 200 , R19E, Sec	O UTM COOR TERIZED AS 4 AND 2006 S	DINATES GIVEN FOR "GANSBE AGRICULTURAL. SURVEYS.	RG SEEP" SITE.	N OF FOOTHIL		-
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats: General: DETECTED DU PLSS: T11N, UTM: Zone-	tion: IERALLY TO E CHARAC URING 200 , R19E, Sec .11 N43030	O UTM COOR TERIZED AS / 4 AND 2006 S 5. 1, NW (M)	DINATES GIVEN FOR "GANSBE AGRICULTURAL. SURVEYS. Accuracy:	RG SEEP" SITE.	N OF FOOTHIL	Area (acres):	70
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats: General: DETECTED DL PLSS: T11N, UTM: Zone- County Summ	tion: IERALLY TO E CHARAC URING 200 , R19E, Sec .11 N43030	O UTM COOR TERIZED AS / 4 AND 2006 S 5. 1, NW (M)	DINATES GIVEN FOR "GANSBE AGRICULTURAL. SURVEYS. Accuracy: Latitude/Longitude:	NG SEEP" SITE. 1/5 mile 38.84313 / -119.79425	N OF FOOTHIL	Area (acres):	70
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats: General: DETECTED DU PLSS: T11N,	tion: IERALLY TO E CHARAC URING 200 , R19E, Sec .11 N43030	O UTM COOR TERIZED AS / 4 AND 2006 S 5. 1, NW (M)	DINATES GIVEN FOR "GANSBE AGRICULTURAL. SURVEYS. Accuracy: Latitude/Longitude: Quad Summary:	NG SEEP" SITE. 1/5 mile 38.84313 / -119.79425	N OF FOOTHIL	Area (acres):	70
ABOUT 0.9 MI Detailed Locat MAPPED GENI Ecological: HABITAT TYPE Threats: General: DETECTED DL PLSS: T11N, UTM: Zone- County Summ Alpine	tion: IERALLY TO E CHARAC URING 200 , R19E, Sec .11 N43030 hary: SANFO	O UTM COOR TERIZED AS / 4 AND 2006 S 5. 1, NW (M) 80 E257487	DINATES GIVEN FOR "GANSBE AGRICULTURAL. URVEYS. Accuracy: Latitude/Longitude: Quad Summary: Woodfords (3811977) EADSHEET OF 2004-2006 SURV	RG SEEP" SITE. 1/5 mile 38.84313 / -119.79425		Area (acres): Elevation (feet):	70 4,988



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B4382		EO Index:	117310	
Key Quad:	Woodfords (3	8811977)	Element Code:	IILEPJ6056	
Occurrence Number:	18		Occurrence Last U	odated: 2019-11-08	
Scientific Name: S	Speyeria nokomis	s carsonensis	Common Name:	Carson Valley silverspot	
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:		
CNDDB Element Rank	s: Global:	G3T1T2			
	State:	S1			
General Habitat:			Micro Habitat:		
		RN BASE OF THE CARSON R /ADA TO NORTHERN ALPINE		TED COLONIES.	
Last Date Observed:	2006-XX-XX		Occurrence Type:	Natural/Native occurrence	
Last Survey Date:	2006-XX-XX		Occurrence Rank:	Unknown	
Owner/Manager:	UNKNOWN		Trend:	Unknown	
Presence:	Presumed Ext	ant			
Location:					
VICINITY OF CA-88 AT	EMIGRANT TR	AIL, JUST NORTH OF WOOD	FORDS.		
Detailed Location:					
MAPPED GENERALLY	TO COORDINA	ATES GIVEN FOR "WOODFOR	RDS EAST MEADOW" SITE.		
Ecological:					
Threats:					
General:					
DETECTED DURING S	URVEYS IN 200	06.			
PLSS: T11N, R19E, S	Sec. 26, SW (M)	Accuracy:	1/5 mile	Area (acres):	70
UTM: Zone-11 N429	6515 E255044	Latitude/Longitud	le: 38.78337 / -119.82003	Elevation (feet):	5,682
County Summary:		Quad Summary:			
Alpine		Woodfords (38119	77)		

CARSONENSIS 2006-XX-XX



California Department of Fish and Wildlife



Map Index Number:	60694		EO Index:		60730			
Key Quad:	Markleeville (3811967)	Element Code:	Element Code: IILEP				
Occurrence Number:	1		Occurrence Last U	Occurrence Last Updated: 2005-03-24				
Scientific Name: E	uphydryas edith	a monoensis	Common Name:	Mono che	eckerspot butterfly			
Listing Status:	Federal:	None	Rare Plant Rank:					
	State:	None	Other Lists:	USFS_S-	-Sensitive			
CNDDB Element Rank	s: Global:	G5T2T3						
	State:	S1S2						
General Habitat:			Micro Habitat:					
Last Date Observed:	1988-04-05		Occurrence Type:	Natural/I	Native occurrence			
Last Survey Date:	1988-04-05		Occurrence Rank:	Unknow	n			
Owner/Manager:	UNKNOWN		Trend:	Unknow	n			
Presence:	Presumed Ext	ant						
Location:								
AIRPORT ROAD AT IN	DIAN CREEK R	ESERVOIR.						
Detailed Location:								
Ecological:								
Threats:								
General:								
		VIS BOHART MUSEUM OF ENTO						
PLSS: T10N, R20E, S	()	Accuracy:	1/10 mile		Area (acres):	0		
UTM: Zone-11 N429	1552 E258581	Latitude/Longitude:	38.73967 / -119.77762		Elevation (feet):	5,610		
County Summary:		Quad Summary:						
Alpine		Markleeville (3811967	<i>(</i>)					
Sources:								



California Department of Fish and Wildlife



	B5122		EO Index:	118060			
Key Quad:	Freel Peak (3	811978)	Element Code:	IITRI77010			
Occurrence Number:	15		Occurrence Last Up	Occurrence Last Updated: 2020-02-20			
Scientific Name:	Desmona bethula		Common Name:	amphibious caddisfly			
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:				
CNDDB Element Ran	ks: Global:	G2G3					
	State:	S2S3					
General Habitat:			Micro Habitat:				
		AMS IN OPEN, WET MEADOWS D SECOND ORDER STREAMS.		VAE LEAVE THE WATER AT NIGHT T TION AND RETURN TO WATER AT S			
Last Date Observed:	2013-08-13		Occurrence Type:	Natural/Native occurrence			
Last Survey Date:	2013-08-13		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-HUMBC	DLDT-TOIYABE NF	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
		OF THE STEVENS PEAK SUM	IT AND 1.6 MI NE OF MEI	SS LAKE.			
SIEVENS CREEK, AI							
,							
Detailed Location:		TATION CODE 634S13209, MAP	PED TO PROVIDED COOR	RDINATES.			
Detailed Location: TAHOE AMBIENT BIO		TATION CODE 634S13209, MAP	PED TO PROVIDED COOR	RDINATES.			
Detailed Location: TAHOE AMBIENT BIC Ecological:		STATION CODE 634S13209, MAP	PED TO PROVIDED COOR	RDINATES.			
Detailed Location: TAHOE AMBIENT BIC Ecological: Threats:		TATION CODE 634S13209, MAP	PED TO PROVIDED COOR	RDINATES.			
Detailed Location: TAHOE AMBIENT BIC Ecological: Threats: General:	DASSESSMENT S		PED TO PROVIDED COOR	RDINATES.			
Detailed Location:	DASSESSMENT S D ON 13 AUG 201		PED TO PROVIDED COOR	RDINATES. Area (acres):	18		
Detailed Location: TAHOE AMBIENT BIO Ecological: Threats: General: 2 LARVAE DETECTE PLSS: T10N, R18E,	DASSESSMENT S D ON 13 AUG 201	3.					
Detailed Location: TAHOE AMBIENT BIO Ecological: Threats: General: 2 LARVAE DETECTE PLSS: T10N, R18E, UTM: Zone-11 N42	DASSESSMENT S D ON 13 AUG 201 Sec. 3, SW (M)	3. Accuracy:	1/10 mile	Area (acres):			
Detailed Location: TAHOE AMBIENT BIC Ecological: Threats: General: 2 LARVAE DETECTE PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary:	DASSESSMENT S D ON 13 AUG 201 Sec. 3, SW (M)	3. Accuracy: Latitude/Longitude:	1/10 mile	Area (acres):			
Detailed Location: TAHOE AMBIENT BIO Ecological: Threats: General: 2 LARVAE DETECTE PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary: Alpine	DASSESSMENT S D ON 13 AUG 201 Sec. 3, SW (M)	3. Accuracy: Latitude/Longitude: Quad Summary:	1/10 mile	Area (acres):			
Detailed Location: TAHOE AMBIENT BIO Ecological: Threats: General: 2 LARVAE DETECTE PLSS: T10N, R18E, UTM: Zone-11 N42 County Summary: Alpine Sources: CEDNDD0002 CAL	DON 13 AUG 201 Sec. 3, SW (M) 93497 E239989	13. Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	1/10 mile 38.7519 / -119.992 RK (CEDEN) - EXTRACT O	Area (acres):): 8,544		



California Department of Fish and Wildlife



Occurrence Number: 11 Scientific Name: Helodium Listing Status: Fe St CNDDB Element Ranks: Gi General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS-	el Peak (3811978) <i>m blandowii</i> Federal: None State: None State: S2 BALPINE CONIFE -09-24 -09-24 S-LAKE TAHOE E umed Extant	e e EROUS FOREST.	EO Index: Element Code: Occurrence Last U Common Name: Rare Plant Rank: Other Lists: Micro Habitat: MOSS GROWING O AMONG LEAF LITT Occurrence Type: Occurrence Rank: Trend:	pdated: 201 Blandow's bog 2B.3 USFS_S-Sens	MUS3C010 4-06-27 moss itive ESPECIALLY UNDER W M.	ILLOWS
Occurrence Number: 11 Scientific Name: Helodium Listing Status: Fe St CNDDB Element Ranks: Gi General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	m blandowii Federal: None State: None State: G4 State: S2 BALPINE CONIFE -09-24 -09-24 S-LAKE TAHOE E umed Extant	e e EROUS FOREST.	Occurrence Last U Common Name: Rare Plant Rank: Other Lists: Micro Habitat: MOSS GROWING O AMONG LEAF LITT Occurrence Type: Occurrence Rank:	pdated: 201 Blandow's bog 2B.3 USFS_S-Sens DN DAMP SOIL ER. 1490-3050 Natural/Native Excellent	4-06-27 moss itive ESPECIALLY UNDER W M.	ILLOWS
Scientific Name: Helodium Listing Status: Fe St CNDDB Element Ranks: GI St General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	Federal: None State: None Slobal: G4 State: S2 BALPINE CONIFE -09-24 -09-24 S-LAKE TAHOE E umed Extant	EROUS FOREST.	Common Name: Rare Plant Rank: Other Lists: Micro Habitat: MOSS GROWING C AMONG LEAF LITT Occurrence Type: Occurrence Rank:	Blandow's bog 2B.3 USFS_S-Sens DN DAMP SOIL ER. 1490-3050 Natural/Native Excellent	moss itive ESPECIALLY UNDER W M.	ILLOWS
Listing Status: Fe St CNDDB Element Ranks: GI St General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	Federal: None State: None Slobal: G4 State: S2 BALPINE CONIFE -09-24 -09-24 S-LAKE TAHOE E umed Extant	EROUS FOREST.	Rare Plant Rank: Other Lists: Micro Habitat: MOSS GROWING C AMONG LEAF LITT Occurrence Type: Occurrence Rank:	2B.3 USFS_S-Sens ON DAMP SOIL ER. 1490-3050 Natural/Native Excellent	itive ESPECIALLY UNDER W M.	ILLOWS
St CNDDB Element Ranks: GI St General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Date Observed: 2009-0 Cowner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	State: None Slobal: G4 State: S2 BALPINE CONIFE -09-24 -09-24 S-LAKE TAHOE E umed Extant	EROUS FOREST.	Other Lists: Micro Habitat: MOSS GROWING C AMONG LEAF LITT Occurrence Type: Occurrence Rank:	USFS_S-Sens ON DAMP SOIL ER. 1490-3050 Natural/Native Excellent	ESPECIALLY UNDER W M.	ILLOWS
CNDDB Element Ranks: GI St General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE	Global: G4 State: S2 BALPINE CONIFE -09-24 -09-24 S-LAKE TAHOE E umed Extant	EROUS FOREST.	Micro Habitat: MOSS GROWING C AMONG LEAF LITT Occurrence Type: Occurrence Rank:	DN DAMP SOIL ER. 1490-3050 Natural/Native Excellent	ESPECIALLY UNDER W M.	ILLOWS
St General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	State: S2 BALPINE CONIFE -09-24 -09-24 S-LAKE TAHOE E umed Extant		MOSS GROWING C AMONG LEAF LITT Occurrence Type: Occurrence Rank:	ER. 1490-3050 Natural/Native Excellent	М.	ILLOWS
General Habitat: MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	-09-24 -09-24 S-LAKE TAHOE E umed Extant		MOSS GROWING C AMONG LEAF LITT Occurrence Type: Occurrence Rank:	ER. 1490-3050 Natural/Native Excellent	М.	ILLOWS
MEADOWS AND SEEPS, SUB/ Last Date Observed: 2009-0 Last Survey Date: 2009-0 Owner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: IN THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE	-09-24 -09-24 S-LAKE TAHOE B umed Extant		MOSS GROWING C AMONG LEAF LITT Occurrence Type: Occurrence Rank:	ER. 1490-3050 Natural/Native Excellent	М.	ILLOWS
Last Date Observed: 2009-0 Last Survey Date: 2009-0 Downer/Manager: USFS- Presence: Presur Location: Double of GRASS LAKE SOUTH END OF GRASS LAKE Detailed Location: N THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE	-09-24 -09-24 S-LAKE TAHOE B umed Extant		AMONG LEAF LITT Occurrence Type: Occurrence Rank:	ER. 1490-3050 Natural/Native Excellent	М.	ILLOWS
Last Survey Date: 2009-0 Dwner/Manager: USFS- Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: N N THE WEST 1/2 OF THE NE SCOLOGICAL: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Threats: HYDROLOGIC CHANGES. General: SPATCHES WERE IDENTIFIEI	-09-24 S-LAKE TAHOE E umed Extant	BMU	Occurrence Rank:	Excellent	e occurrence	
Owner/Manager: USFS Presence: Presur Jocation: Presur SOUTH END OF GRASS LAKE Detailed Location: N THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUL PINUS CONTORTA, AULACON Fireats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	S-LAKE TAHOE E umed Extant	BMU				
Presence: Presur Location: SOUTH END OF GRASS LAKE Detailed Location: N THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACOM Fhreats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE	umed Extant	BMU	Trend:	Unknown		
Location: SOUTH END OF GRASS LAKE Detailed Location: N THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACON Threats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE						
SOUTH END OF GRASS LAKE Detailed Location: N THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACON Fhreats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI						
Detailed Location: N THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACON Fhreats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE!						
N THE WEST 1/2 OF THE NE Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACON I'hreats: HYDROLOGIC CHANGES. General:		TELY 0.7 AIR MILE WNW O	OF LUTHER PASS, LAKE T	AHOE BASIN N	ANAGEMENT UNIT.	
Ecological: HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACON Fhreats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI						
HELODIUM PRESENT ON MUI PINUS CONTORTA, AULACON Fhreats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIEI	1/4 OF SECTIO	N 23.				
PINUS CONTORTA, AULACON Threats: IYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE!						
Fhreats: HYDROLOGIC CHANGES. General: 5 PATCHES WERE IDENTIFIE						
General:						,
5 PATCHES WERE IDENTIFIE						
JUGURRENGE REDLZA.	ED RANGING FR	ROM JUST 20 X 20 INCHES	6 (80% COVER) TO 6 FEE	T BY 1 FOOT (′	10% COVER) IN 2009. LTI	BMU
PLSS: T11N, R18E, Sec. 23,	, NE (M)	Accuracy:	80 meters		Area (acres):	0
JTM: Zone-11 N4297515 E2	242961	Latitude/Longitude:	38.78893 / -119.95933		Elevation (feet):	7,600
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				
Sources:		(())				



California Department of Fish and Wildlife



Map Index Number:	92936		EO Index:		94083	
Key Quad:	Freel Peak (38119	978)	Element Code:		NBMUS3C010	
Occurrence Number:	12		Occurrence Last U	pdated:	2014-06-27	
Scientific Name: H	lelodium blandowii		Common Name:	Blandow's	s bog moss	
Listing Status:	Federal: No	one	Rare Plant Rank:	2B.3		
	State: No	one	Other Lists:	USFS_S-	Sensitive	
CNDDB Element Rank	s: Global: G4	4				
	State: S2	2				
General Habitat:			Micro Habitat:			
MEADOWS AND SEEF	PS, SUBALPINE CON	IIFEROUS FOREST.	MOSS GROWING C AMONG LEAF LITTI		SOIL, ESPECIALLY UNDER WI 3050 M.	LLOWS
Last Date Observed:	2010-09-29		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2010-09-29		Occurrence Rank:	Excellen	ıt	
Owner/Manager:	USFS-LAKE TAHO	DE BMU	Trend:	Unknow	n	
Presence:	Presumed Extant					
Location:						
SOUTH SIDE OF THE	NORTH END OF GRA	ASS LAKE, APPROX 1.3 AIR I	MILES NW OF LUTHER P.	ASS, LAKI	E TAHOE BASIN MANAGEMEN	IT UNIT.
	NORTH END OF GR	ASS LAKE, APPROX 1.3 AIR I	MILES NW OF LUTHER P	ASS, LAKI	E TAHOE BASIN MANAGEMEN	IT UNIT.
Detailed Location:		ASS LAKE, APPROX 1.3 AIR I A. NEAR THE COMMON CORI		,		IT UNIT.
Detailed Location: GRASS LAKE RESEAF				,		IT UNIT.
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTC	RCH NATURAL AREA DRTA AND SALIX EA	A. NEAR THE COMMON CORI	NER OF SECTIONS 14, 15	5, 22, & 23		
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTC	RCH NATURAL AREA DRTA AND SALIX EA	A. NEAR THE COMMON CORI	NER OF SECTIONS 14, 15	5, 22, & 23	3.	
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats:	RCH NATURAL AREA DRTA AND SALIX EA ANTHONIOIDES, AN	A. NEAR THE COMMON CORI STWOODIAE. ASSOCIATED ID CAREX SP. NORTHERN A	NER OF SECTIONS 14, 15	5, 22, & 23	3.	
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D	RCH NATURAL AREA DRTA AND SALIX EA ANTHONIOIDES, AN	A. NEAR THE COMMON CORI STWOODIAE. ASSOCIATED ID CAREX SP. NORTHERN A	NER OF SECTIONS 14, 15	5, 22, & 23	3.	
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats: HYDROLOGIC CHANG General: A 4 X 8 METER PATCH	RCH NATURAL AREA ORTA AND SALIX EA ANTHONIOIDES, AN GES AND CLIMATE C 1 WITH 30% COVER	A. NEAR THE COMMON CORI STWOODIAE. ASSOCIATED ID CAREX SP. NORTHERN A CHANGE. OBSERVED AT WEST END C	NER OF SECTIONS 14, 15 WITH VACCINIUM ULIGIN SPECT, 1% SLOPE.	5, 22, & 23 NOSUM, A	3.	HAGNUM
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats: HYDROLOGIC CHANG General:	RCH NATURAL AREA ORTA AND SALIX EA ANTHONIOIDES, AN GES AND CLIMATE C H WITH 30% COVER BMU OCCURRENCE	A. NEAR THE COMMON CORI STWOODIAE. ASSOCIATED ID CAREX SP. NORTHERN A CHANGE. OBSERVED AT WEST END C	NER OF SECTIONS 14, 15 WITH VACCINIUM ULIGIN SPECT, 1% SLOPE.	5, 22, & 23 NOSUM, A	9. ULACOMNIUM PALUSTRE, SP	HAGNUM
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats: HYDROLOGIC CHANG General: A 4 X 8 METER PATCH PRESENT IN 2010. LTI PLSS: T11N, R18E, S	RCH NATURAL AREA ORTA AND SALIX EA ANTHONIOIDES, AN GES AND CLIMATE C H WITH 30% COVER BMU OCCURRENCE	A. NEAR THE COMMON CORI ASTWOODIAE. ASSOCIATED ND CAREX SP. NORTHERN A CHANGE. OBSERVED AT WEST END C HEBL2B.	NER OF SECTIONS 14, 19 WITH VACCINIUM ULIGIN SPECT, 1% SLOPE. DF OCCURRENCE IN 2009	5, 22, & 23 NOSUM, A	3. ULACOMNIUM PALUSTRE, SP PLE HUMMOCKS WHERE HELC	HAGNUM DDIUM IS
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats: HYDROLOGIC CHANG General: A 4 X 8 METER PATCH PRESENT IN 2010. LTI PLSS: T11N, R18E, S	RCH NATURAL AREA ORTA AND SALIX EA ANTHONIOIDES, AN GES AND CLIMATE C H WITH 30% COVER BMU OCCURRENCE Sec. 15, SE (M)	A. NEAR THE COMMON CORI STWOODIAE. ASSOCIATED ND CAREX SP. NORTHERN A CHANGE. OBSERVED AT WEST END C HEBL2B. Accuracy:	NER OF SECTIONS 14, 19 WITH VACCINIUM ULIGIN SPECT, 1% SLOPE. DF OCCURRENCE IN 2009 specific area	5, 22, & 23 NOSUM, A	3. ULACOMNIUM PALUSTRE, SP PLE HUMMOCKS WHERE HELC Area (acres):	PHAGNUM DDIUM IS 18
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats: HYDROLOGIC CHANG General: A 4 X 8 METER PATCH PRESENT IN 2010. LTI PLSS: T11N, R18E, S UTM: Zone-11 N429	RCH NATURAL AREA ORTA AND SALIX EA ANTHONIOIDES, AN GES AND CLIMATE C H WITH 30% COVER BMU OCCURRENCE Sec. 15, SE (M)	A. NEAR THE COMMON CORN STWOODIAE. ASSOCIATED ND CAREX SP. NORTHERN A CHANGE. OBSERVED AT WEST END C HEBL2B. Accuracy: Latitude/Longitude:	NER OF SECTIONS 14, 19 WITH VACCINIUM ULIGIN SPECT, 1% SLOPE. DF OCCURRENCE IN 2009 specific area	5, 22, & 23 NOSUM, A	3. ULACOMNIUM PALUSTRE, SP PLE HUMMOCKS WHERE HELC Area (acres):	PHAGNUM DDIUM IS 18
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats: HYDROLOGIC CHANG General: A 4 X 8 METER PATCH PRESENT IN 2010. LTI PLSS: T11N, R18E, S UTM: Zone-11 N429 County Summary:	RCH NATURAL AREA ORTA AND SALIX EA ANTHONIOIDES, AN GES AND CLIMATE C H WITH 30% COVER BMU OCCURRENCE Sec. 15, SE (M)	A. NEAR THE COMMON COR STWOODIAE. ASSOCIATED ID CAREX SP. NORTHERN A CHANGE. OBSERVED AT WEST END C HEBL2B. Accuracy: Latitude/Longitude: Quad Summary:	NER OF SECTIONS 14, 19 WITH VACCINIUM ULIGIN SPECT, 1% SLOPE. DF OCCURRENCE IN 2009 specific area	5, 22, & 23 NOSUM, A	3. ULACOMNIUM PALUSTRE, SP PLE HUMMOCKS WHERE HELC Area (acres):	PHAGNUM DDIUM IS 18
Detailed Location: GRASS LAKE RESEAF Ecological: UNDER PINUS CONTO SP., DESCHAMPSIA D Threats: HYDROLOGIC CHANG General: A 4 X 8 METER PATCH PRESENT IN 2010. LTI PLSS: T11N, R18E, S UTM: Zone-11 N429 County Summary: El Dorado Sources: ENG10F0013 ENGI	RCH NATURAL AREA ORTA AND SALIX EA ANTHONIOIDES, AN GES AND CLIMATE C H WITH 30% COVER BMU OCCURRENCE Sec. 15, SE (M) 7985 E242087	A. NEAR THE COMMON CORN STWOODIAE. ASSOCIATED ND CAREX SP. NORTHERN A CHANGE. OBSERVED AT WEST END C HEBL2B. Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	NER OF SECTIONS 14, 19 WITH VACCINIUM ULIGIN SPECT, 1% SLOPE. DF OCCURRENCE IN 2009 specific area 38.79291 / -119.96956	5, 22, & 23 NOSUM, A 9. MULTIP	3. ULACOMNIUM PALUSTRE, SP PLE HUMMOCKS WHERE HELC Area (acres):	PHAGNUM DDIUM IS 18 7,600



California Department of Fish and Wildlife



Map Index Number:	92937		EO Index:		94084	
Key Quad:	Freel Peak (38	11078)	Element Code:		94084 NBMUS3C010	
Occurrence Number:	13		Occurrence Last Updated:		2014-06-27	
Occurrence Number.	15		Occurrence Last o	puateu.	2014-00-27	
Scientific Name: H	lelodium blandow	ii	Common Name:	Blandow's	bog moss	
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3		
	State:	None	Other Lists:	USFS_S-S	Sensitive	
CNDDB Element Rank	s: Global:	G4				
	State:	S2				
General Habitat:			Micro Habitat:			
MEADOWS AND SEEP	S, SUBALPINE (CONIFEROUS FOREST.	MOSS GROWING (AMONG LEAF LITT		OIL, ESPECIALLY UNDER W 050 M.	ILLOWS
Last Date Observed:	2011-08-04		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2011-08-04		Occurrence Rank:	Good		
Owner/Manager:	USFS-LAKE TA	HOE BMU	Trend:	Unknown	1	
Presence:	Presumed Exta	nt				
Location:						
JUST NW OF ARMSTR	ONG PASS AT T	THE HEAD OF TROUT CREEK, L	AKE TAHOE BASIN MANA	GEMENT U	JNIT.	
Detailed Location:						
IN THE NORTH 1/2 OF	THE NE 1/4 OF	SECTION 1.				
Ecological:						
		OUTLET. DOMINANTS INCLUD				TA, CARE
Threats:						
General:						
5% COVER IN A 7 X 8	METER AREA IN	2009, 1% COVER IN A 7 X 8 ME	TER AREA IN 2011. LTBN	U OCCUR	RENCE HEBL1.	
PLSS: T11N, R18E, S	Sec. 01, NE (M)	Accuracy:	specific area		Area (acres):	8
UTM: Zone-11 N430	2563 E246952	Latitude/Longitude:	38.83551 / -119.91529		Elevation (feet):	8,580
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				
Sources:						
ENG11F0009 ENG	ELHARDT, B. & C	C. MCKERNAN - FIELD SURVEY	FORM FOR HELODIUM B	LANDOWII	2011-08-04	
	RES, C. & R. NIC DIUM BLANDOV	HOLS (U.S. FOREST SERVICE-L VII 2009-07-30	_AKE TAHOE BASIN MAN	AGEMENT	UNIT) - FIELD SURVEY FORM	M FOR



California Department of Fish and Wildlife



Map Index Number:	58555		EO Index:	45438
Key Quad:	Freel Peak (38	311978)	Element Code:	NBMUS4L020
Occurrence Number:	3		Occurrence Last Up	odated: 2005-08-03
Scientific Name: A	Meesia triquetra		Common Name:	three-ranked hump moss
Listing Status:	Federal:	None	Rare Plant Rank:	4.2
	State:	None	Other Lists:	
CNDDB Element Rank	s: Global:	G5		
	State:	S4		
General Habitat:			Micro Habitat:	
		EPS, UPPER MONTANE CONIFEROUS FOREST.		N MESIC SOIL. SATURATED BOGS, FENS, SEEF CONIFEROUS TO SUBALPINE FORESTS. 1300-2
Last Date Observed:	2004-09-21		Occurrence Type:	Natural/Native occurrence
ast Survey Date:	2004-09-21		Occurrence Rank:	Good
Owner/Manager:	USFS-ELDORA	ADO NF	Trend:	Unknown
Presence:	Presumed Exta	Int		
Location:				
Detailed Location:		9 WEST OF LUTHER PASS. GONS ON THE NORTH SIDE OF	F GRASS LAKE: WESTERN	SMALL POLY FROM 2003 OBSERVATION, AND
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A	AS THREE POLY OLYS FROM 200 AREA. GROWING	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND	SE 1/4 SECTION 15 TO NW	1/4 OF THE NE 1/4 OF SECTION 23.
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION F	AS THREE POLY OLYS FROM 200 AREA. GROWING	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S	SE 1/4 SECTION 15 TO NW	1/4 OF THE NE 1/4 OF SECTION 23.
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION E Threats:	AS THREE POLY DLYS FROM 200 AREA. GROWING BECOMES THICK	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S 3 JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO	SE 1/4 SECTION 15 TO NW D TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA	1/4 OF THE NE 1/4 OF SECTION 23. 11XED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS.
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION B Threats: NO DISTURBANCES V	AS THREE POLY DLYS FROM 200 AREA. GROWING BECOMES THICK	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S 3 JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO	SE 1/4 SECTION 15 TO NW D TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA	1/4 OF THE NE 1/4 OF SECTION 23.
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION E Threats: NO DISTURBANCES V General: AREA NORTH OF GRA	AS THREE POLYO DLYS FROM 2000 AREA. GROWING BECOMES THICP WHERE M. TRIQU	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL	SE 1/4 SECTION 15 TO NW D TREES AT EDGE, INTERM CULTURE, M. TRIQUETRA - AREA CAN BE DISTURBE	1/4 OF THE NE 1/4 OF SECTION 23. 11XED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS.
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN WHEN VEGETATION B Threats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND.	AS THREE POLY OLYS FROM 200 AREA. GROWING BECOMES THICK WHERE M. TRIQU ASS LAKE SURV	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL	SE 1/4 SECTION 15 TO NW D TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA - AREA CAN BE DISTURBE	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFI
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION E Threats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND. PLSS: T11N, R18E, S	AS THREE POLY OLYS FROM 200 AREA. GROWING BECOMES THICK WHERE M. TRIQU ASS LAKE SURV	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH ANI	SE 1/4 SECTION 15 TO NW O TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA . AREA CAN BE DISTURBE D WEST SIDE OF AREA NC	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFI T SURVEYED; MORE PLANTS WILL LIKELY BE
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION E Threats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND. PLSS: T11N, R18E, S UTM: Zone-11 N429	AS THREE POLYO DLYS FROM 2000 AREA. GROWING BECOMES THICH WHERE M. TRIQU ASS LAKE SURVI Sec. 14, S (M)	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH ANI Accuracy:	SE 1/4 SECTION 15 TO NW O TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA . AREA CAN BE DISTURBE D WEST SIDE OF AREA NC specific area	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFI T SURVEYED; MORE PLANTS WILL LIKELY BE Area (acres): 24
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION E Threats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND. PLSS: T11N, R18E, S	AS THREE POLYO DLYS FROM 2000 AREA. GROWING BECOMES THICH WHERE M. TRIQU ASS LAKE SURVI Sec. 14, S (M)	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH ANI Accuracy: Latitude/Longitude:	SE 1/4 SECTION 15 TO NW D TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA AREA CAN BE DISTURBE D WEST SIDE OF AREA NO specific area 38.79517 / -119.96527	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFI T SURVEYED; MORE PLANTS WILL LIKELY BE Area (acres): 24
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION E Threats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND. PLSS: T11N, R18E, S UTM: Zone-11 N429 County Summary: El Dorado	AS THREE POLYO DLYS FROM 2000 AREA. GROWING BECOMES THICH WHERE M. TRIQU ASS LAKE SURVI Sec. 14, S (M)	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH ANI Accuracy: Latitude/Longitude: Quad Summary:	SE 1/4 SECTION 15 TO NW D TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA AREA CAN BE DISTURBE D WEST SIDE OF AREA NO specific area 38.79517 / -119.96527	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFI T SURVEYED; MORE PLANTS WILL LIKELY BE Area (acres): 24
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN WHEN VEGETATION E Threats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND. PLSS: T11N, R18E, S JTM: Zone-11 N429 County Summary: El Dorado Sources:	AS THREE POLY OLYS FROM 200 AREA. GROWING BECOMES THICK WHERE M. TRIQU ASS LAKE SURV Sec. 14, S (M) 08224 E242468	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH ANI Accuracy: Latitude/Longitude: Quad Summary:	SE 1/4 SECTION 15 TO NW O TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA . AREA CAN BE DISTURBE D WEST SIDE OF AREA NC specific area 38.79517 / -119.96527	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFI IT SURVEYED; MORE PLANTS WILL LIKELY BE Area (acres): 24 Elevation (feet): 7,700
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION B Fineats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND. PLSS: T11N, R18E, S JTM: Zone-11 N429 County Summary: El Dorado Sources: GRO03F0001 GRO	AS THREE POLY DLYS FROM 200 AREA. GROWING BECOMES THICK WHERE M. TRIQU ASS LAKE SURV Sec. 14, S (M) 08224 E242468	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH ANI Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	SE 1/4 SECTION 15 TO NW O TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA AREA CAN BE DISTURBE D WEST SIDE OF AREA NC specific area 38.79517 / -119.96527	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFI IT SURVEYED; MORE PLANTS WILL LIKELY BE Area (acres): 24 Elevation (feet): 7,700
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION E Threats: NO DISTURBANCES V General: AREA NORTH OF GRATOUND. PLSS: T11N, R18E, S JTM: Zone-11 N429 County Summary: El Dorado Sources: GRO03F0001 GRO GRO04F0008 GRO	AS THREE POLY DLYS FROM 200 AREA. GROWING BECOMES THICK WHERE M. TRIQU ASS LAKE SURV Sec. 14, S (M) 08224 E242468	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH AND Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	SE 1/4 SECTION 15 TO NW O TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA . AREA CAN BE DISTURBE D WEST SIDE OF AREA NC specific area 38.79517 / -119.96527 FOR MEESIA TRIQUETRA 2	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFINT SURVEYED; MORE PLANTS WILL LIKELY BE Area (acres): 24 Elevation (feet): 7,700
Detailed Location: MAPPED BY CNDDB A LARGER EASTERN PO Ecological: WET MEADOW / FEN A WHEN VEGETATION B Threats: NO DISTURBANCES V General: AREA NORTH OF GRA FOUND. PLSS: T11N, R18E, S UTM: Zone-11 N429 County Summary: El Dorado Sources: GRO03F0001 GRO GRO04F0008 GRO KOCNDS0003 KOC NOR00U0001 NOR	AS THREE POLY DLYS FROM 2000 AREA. GROWING BECOMES THICK WHERE M. TRIQU ASS LAKE SURV Sec. 14, S (M) 98224 E242468 VSS, S. & A. HARI SS, S. & A. HARI SS, S FIELD SI H & STEBBINS - RIS, D. & J. SHE'	GONS ON THE NORTH SIDE OF 4 SURVEYS. EXTENDS FROM S G JUST OUTSIDE SHRUBS AND KER, AND VERY DENSE MONOO JETRA GROWS, BUT GENERAL EYED IN 2004, BUT SOUTH ANI Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978) DMAN - FIELD SURVEY FORM F URVEY FORM FOR MEESIA TR KOCH #2316 HERBARIUM UNK	SE 1/4 SECTION 15 TO NW O TREES AT EDGE, INTERN CULTURE, M. TRIQUETRA AREA CAN BE DISTURBE O WEST SIDE OF AREA NO specific area 38.79517 / -119.96527 FOR MEESIA TRIQUETRA 2 IQUETRA 2004-09-21 NOWN (NOR00U001) XXX ARD A BRYOFLORA OF CA	1/4 OF THE NE 1/4 OF SECTION 23. IIXED WITH SPHAGNUM AND DREPANOCLADUS DISAPPEARS. D BY ORV TRESPASS, CATTLE, & FOOT TRAFFINT SURVEYED; MORE PLANTS WILL LIKELY BE Area (acres): 24 Elevation (feet): 7,700



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	62175		EO Index:	62	211	
Key Quad:	Freel Peak (38	11978)	Element Code:	NE	3MUS4L020	
Occurrence Number:	7		Occurrence Last Up	dated: 20	05-08-03	
Scientific Name: A	leesia triquetra		Common Name:	hree-ranked	hump moss	
Listing Status:	Federal:	None	Rare Plant Rank:	4.2		
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G5				
	State:	S4				
General Habitat:			Micro Habitat:			
		EPS, UPPER MONTANE ONIFEROUS FOREST.			L. SATURATED BOGS, FE S TO SUBALPINE FORES	
Last Date Observed:	2004-10-05		Occurrence Type:	Natural/Nativ	/e occurrence	
Last Survey Date:	2004-10-05		Occurrence Rank:	Excellent		
Owner/Manager:	USFS-LAKE TA	HOE BMU	Trend:	Unknown		
Presence:	Presumed Exta	nt				
Location:						
ABOUT 3.2 MILES SOU	JTHWEST OF FR	EEL PEAK, AT HELL HOLE.				
Detailed Location:						
LOCATED IN WEST-CE SECTION 1.	ENTRAL AREA O	F HELL HOLE (UTM ZONE 10, 7	65251E, 4301983N, NAD27)	. MAPPED IN	I THE NW 1/4 OF THE SW	/ 1/4 OF
Ecological:						
		VITH BRYUM, CAREX VESICAR DTHER BRYOPHYTES IN SCAT		OCHARIS, J	UNCUS, MIMULUS PRIMU	JLOIDES, AI
Threats:						
General:						
GROWING IN VERY SO	CATTERED PATO	CHES IN 2004; ENTIRE AREA NO	OT SURVEYED.			
PLSS: T11N, R18E, S	Sec. 01, SW (M)	Accuracy:	specific area		Area (acres):	1
UTM: Zone-11 N430	1863 E244322	Latitude/Longitude:	38.82846 / -119.94529		Elevation (feet):	7,700
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				

GR004F0007 GROSS, S. - FIELD SURVEY FORM FOR MEESIA TRIQUETRA 2004-10-05



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	27942		EO Index:	20513
Key Quad:	Caples Lake (3812061)	Element Code:	PDAST20065
Occurrence Number:	3		Occurrence Last Upo	dated: 2011-09-30
Scientific Name: C	haenactis dougla	asii var. alpina	Common Name: a	alpine dusty maidens
Listing Status:	Federal:	None	Rare Plant Rank: 2	2B.3
	State:	None	Other Lists:	
CNDDB Element Rank	s: Global:	G5T5		
	State:	S2		
General Habitat:			Micro Habitat:	
ALPINE BOULDER ANI	D ROCK FIELD.		OPEN, SUBALPINE T SUBSTRATE. 2362-3	O ALPINE GRAVEL AND CREVICES; GRANITIC 3355 M.
Last Date Observed:	2006-08-XX		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2006-08-XX		Occurrence Rank:	Unknown
Owner/Manager:	USFS-ELDOR/	ADO NF	Trend:	Unknown
Presence:	Presumed Exta	nt		
Location:				
NORTHWEST FACE O	ROUND TOP A	BOUT 2 KM SW FROM WINNEM	IUCCA LAKE AT 9600 FEET	ELEVATION, SSW OF CARSON PASS.
Detailed Location:				
MAPPED BY CNDDB C	N THE NW SLO	PE OF ROUND TOP, CENTERED	NEAR THE 9600 FOOT EL	EVATION LINE, AS DESCRIBED BY TAYLOR.
Ecological:				
ON ALPINE TALUS.				
Threats:				
General:				
		R THIS OCCURRENCE IS A 1974 OTO BY BERRY FROM ROUND		PECIMEN ANNOTATED TO C. DOUGLASII VAR. TED HERE.
PLSS: T10N, R18E, S	ec. 33 (M)	Accuracy:	2/5 mile	Area (acres): 0
UTM: Zone-10 N428	4051 E760463	Latitude/Longitude:	38.66675 / -120.00635	Elevation (feet): 9,600
0		Quad Summary:		
County Summary:				
County Summary: Alpine		Carson Pass (3811968	3), Caples Lake (3812061)	

TAY74S0001 TAYLOR, D. - TAYLOR #5019 DAV #65808 1974-09-09



California Department of Fish and Wildlife



Map Index Number:	27943		EO Index:		20727	
Key Quad:	Freel Peak (381197	8)	Element Code:		PDAST20065	
Occurrence Number:	4		Occurrence Last Up	odated:	2013-02-27	
Scientific Name:	Chaenactis douglasii va	r. alpina	Common Name:	alpine du	sty maidens	
Listing Status:	Federal: Nor	ne	Rare Plant Rank:	2B.3		
	State: Nor	ne	Other Lists:			
CNDDB Element Rank	s: Global: G5	Г5				
	State: S2					
General Habitat:			Micro Habitat:			
ALPINE BOULDER AN	D ROCK FIELD.		OPEN, SUBALPINE SUBSTRATE. 2362		IE GRAVEL AND CREVICES; (GRANITIC
Last Date Observed:	2009-07-25		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2009-07-25		Occurrence Rank:	Fair		
Owner/Manager:	USFS-LAKE TAHOE	BMU	Trend:	Unknow	n	
Presence:	Presumed Extant					
Location:						
FREEL PEAK, NEAR S	UMMIT.					
Detailed Location:						
Ecological:						
OPEN, BARREN SUBA	LPINE / ALPINE. ALS	O OCCURS WITH THE RAR	E DRABA ASTEROPHORA	A VAR. AS	STEROPHORA AT THIS SITE.	
Threats:						
	ANT HAD BEEN DUG	OUT FROM EITHER OCCL	JRRENCE #4 OR #12), TRA	AMPLING	FROM RECREATION.	
		CURRENCE AND OCCURF LOR (1970) AND GREENHO			LECTIONS FROM NEAR SUM ED TO THIS SITE.	MIT OF
PLSS: T12N, R18E, S	Sec. 25, SE (M)	Accuracy:	80 meters		Area (acres):	0
UTM: Zone-11 N430	4937 E248199	Latitude/Longitude:	38.85724 / -119.90181		Elevation (feet):	10,700
County Summary:		Quad Summary:				
Alpine, El Dorado		Freel Peak (3811978)				
Sources:						
BEY09F0001 BEYI	ER, C. (U.S. FOREST S	SERVICE) - FIELD SURVEY	FORM FOR CHAENACTIS	DOUGLA	ASII VAR. ALPINA 2009-07-25	
DETU9F0001 DETI		RVATION RECORD FOR CH	AENACTIS DOUGLASII V	AR. ALPIN	IA, CALFLORA ID #JGR23866	2006-07-0
	ENHOUSE, J OBSEF					
GRE06U0001 GRE		2123 UC #907772 1945-08-	12			
GRE06U0001 GRE ROB45S0008 ROB	BINS, G ROBBINS #					



California Department of Fish and Wildlife



Map Index Num	ber: 2	27944			EO Index:		20728	
Key Quad:	F	Freel Peak (38	311978)		Element Code:		PDAST20065	
Occurrence Nu	mber: (5			Occurrence Last U	pdated:	2013-03-05	
Scientific Name	e: Cha	enactis dougla	asii var. alpi	ina	Common Name:	alpine du	usty maidens	
Listing Status:		Federal:	None		Rare Plant Rank:	2B.3		
		State:	None		Other Lists:			
CNDDB Elemen	t Ranks:	Global:	G5T5					
		State:	S2					
General Habitat	:				Micro Habitat:			
ALPINE BOULD	ER AND R	OCK FIELD.			OPEN, SUBALPINE SUBSTRATE. 2362		NE GRAVEL AND CREVICES;	GRANITIC
Last Date Obse	rved: 2	012-09-25			Occurrence Type:	Natural/	Native occurrence	
Last Survey Dat	te: 20	012-09-25			Occurrence Rank:	Good		
Owner/Manager	r: U	SFS			Trend:	Unknow	'n	
Presence:	Р	resumed Exta	int					
Location:								
ON NORTHWES	ST SLOPE	AND SOUTH	SLOPE OF	F JOBS SISTER.				
		AND SOUTH	SLOPE OF	F JOBS SISTER.				
Detailed Location 2 POLYGONS M	on: 1APPED B	ASED ON 20 [.]	11 AND 20 ²	12 SURVEYS. IN 201	2, PLANTS WERE VERY SF SLOPE") ALONG SADDLE T		SCATTERED THROUGHOUT	A LARGE
Detailed Location 2 POLYGONS M AREA, FROM W	on: 1APPED B	ASED ON 20 [.]	11 AND 20 ²	12 SURVEYS. IN 201				A LARGE
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC	on: IAPPED B VESTERN I CING ALPI	ASED ON 20 [.] POLYGON (C NE SCREE S	11 AND 20' N WEST R LOPES, LC	12 SURVEYS. IN 201 ATHER THAN "NW S	G GRANITE. ASSOCIATED	OWARDS		GIDA,
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S	on: IAPPED B VESTERN I CING ALPI	ASED ON 20 [.] POLYGON (C NE SCREE S	11 AND 20' N WEST R LOPES, LC	12 SURVEYS. IN 201 ATHER THAN "NW S	G GRANITE. ASSOCIATED	OWARDS	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL	GIDA,
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats:	DN: IAPPED B /ESTERN I CING ALPI CHASTENS	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM	11 AND 20 ⁷ IN WEST R LOPES, LC ION NEWB	12 SURVEYS. IN 201 ATHER THAN "NW S	G GRANITE. ASSOCIATED	OWARDS	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL	GIDA,
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN	DN: IAPPED B /ESTERN I CING ALPI CHASTENS	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM	11 AND 20 ⁷ IN WEST R LOPES, LC ION NEWB	12 SURVEYS. IN 201 ATHER THAN "NW S	G GRANITE. ASSOCIATED	OWARDS	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL	GIDA,
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE	DING ALPI CING ALPI CHASTERN IGE, OFF	ASED ON 20 [;] POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE	11 AND 20 ⁷ IN WEST R LOPES, LC ION NEWB G. OF PEAK	12 SURVEYS. IN 201 ATHER THAN "NW S DOSE DECOMPOSIN BERRYI, ETC. THE R/	G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOF ANTS ESTIMATED IN 2012;	OWARDS WITH PIN RA VAR. A POP EST	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL	GIDA, S HERE. PARSELY
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL	DN: MAPPED B VESTERN CING ALPI CHASTENS MGE, OFF MGE, OFF MGE, OFF MGE, OFF	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI	11 AND 20 N WEST R LOPES, LC ION NEWB 3. OF PEAK E SLOPES.	12 SURVEYS. IN 201 ATHER THAN "NW S DOSE DECOMPOSIN BERRYI, ETC. THE R/	G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOF ANTS ESTIMATED IN 2012;	OWARDS WITH PIN RA VAR. A POP EST	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR	GIDA, S HERE. PARSELY
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL PLSS: T12N, F	DN: MAPPED B ESTERN I CING ALPI CHASTENS IGE, OFF BSERVED LANTS AC R19E, Sec	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI	11 AND 20' N WEST R LOPES, LC ION NEWB 3. OF PEAK E SLOPES.	12 SURVEYS. IN 201 ATHER THAN "NW S DOSE DECOMPOSIN BERRYI, ETC. THE R/ IN 2011. 150-200 PL/ . COLLECTIONS FRC	SLOPE") ALONG SADDLE T G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOF ANTS ESTIMATED IN 2012; DM "JOBS SISTER" AND "JO Specific area	OWARDS WITH PIN RA VAR. A POP EST	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR 'IMATE DIFFICULT DUE TO SF ER PEAK'' ARE ATTRIBUTED F	GIDA, S HERE. PARSELY HERE.
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL PLSS: T12N, F UTM: Zone-1	DN: MAPPED B VESTERN I CING ALPI SHASTENS IGE, OFF ASSERVED LANTS AC R19E, Sec 1 N430523	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI	11 AND 20 N WEST R LOPES, LC ION NEWB 3. OF PEAK E SLOPES.	12 SURVEYS. IN 201. ATHER THAN "NW S DOSE DECOMPOSIN BERRYI, ETC. THE R/ IN 2011. 150-200 PL/ COLLECTIONS FRO	SLOPE") ALONG SADDLE T G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOF ANTS ESTIMATED IN 2012; DM "JOBS SISTER" AND "JO Specific area	OWARDS WITH PIN RA VAR. A POP EST	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR IMATE DIFFICULT DUE TO SF ER PEAK" ARE ATTRIBUTED I Area (acres):	GIDA, S HERE. PARSELY HERE. 10
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL PLSS: T12N, F UTM: Zone-1 County Summa	on: IAPPED B ESTERN I CING ALPI CHASTENS IGE, OFF BSERVED ANTS AC R19E, Sec 1 N430523 ry:	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI	11 AND 20' N WEST R LOPES, LC ION NEWB 3. OF PEAK E SLOPES.	12 SURVEYS. IN 201 ATHER THAN "NW S DOSE DECOMPOSIN BERRYI, ETC. THE R/ IN 2011. 150-200 PL/ . COLLECTIONS FRC Accuracy: Latitude/Longitude:	G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOR ANTS ESTIMATED IN 2012; DM "JOBS SISTER" AND "JO specific area 38.86037 / -119.88434	OWARDS WITH PIN RA VAR. A POP EST	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR IMATE DIFFICULT DUE TO SF ER PEAK" ARE ATTRIBUTED I Area (acres):	GIDA, S HERE. PARSELY HERE. 10
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL SCATTERED PL PLSS: T12N, F UTM: Zone-1 County Summa Alpine, El Dorado	on: IAPPED B ESTERN I CING ALPI CHASTENS IGE, OFF BSERVED ANTS AC R19E, Sec 1 N430523 ry:	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI	11 AND 20' N WEST R LOPES, LC ION NEWB 3. OF PEAK E SLOPES.	12 SURVEYS. IN 201. ATHER THAN "NW S DOSE DECOMPOSIN ERRYI, ETC. THE R/ IN 2011. 150-200 PL/ . COLLECTIONS FRC Accuracy: Latitude/Longitude: Quad Summary:	G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOR ANTS ESTIMATED IN 2012; DM "JOBS SISTER" AND "JO specific area 38.86037 / -119.88434	OWARDS WITH PIN RA VAR. A POP EST	S FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR IMATE DIFFICULT DUE TO SF ER PEAK" ARE ATTRIBUTED I Area (acres):	GIDA, S HERE. PARSELY HERE. 10
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Fhreats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL PLSS: T12N, F UTM: Zone-1 County Summa Alpine, El Dorado Sources:	on: IAPPED B ESTERN I CING ALPI CHASTENS IGE, OFF ASSERVED ANTS AC R19E, Sec 1 N430523 ry: 0	ASED ON 20 POLYGON (C NE SCREE S E, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI . 31, NE (M) 36 E249726	11 AND 20' N WEST R LOPES, LC ION NEWB 3. OF PEAK E SLOPES.	12 SURVEYS. IN 201. ATHER THAN "NW S DOSE DECOMPOSIN BERRYI, ETC. THE R/ IN 2011. 150-200 PL/ COLLECTIONS FRO Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOR ANTS ESTIMATED IN 2012; DM "JOBS SISTER" AND "JO specific area 38.86037 / -119.88434	OWARDS WITH PIN & VAR. A POP EST DBS SISTE	FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR "IMATE DIFFICULT DUE TO SF ER PEAK" ARE ATTRIBUTED I Area (acres): Elevation (feet):	GIDA, S HERE. PARSELY HERE. 10
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL PLSS: T12N, F	on: MAPPED B VESTERN I CING ALPI HASTENS IGE, OFF SSERVED LANTS AC R19E, Sec 1 N430523 ry: 0 CHRIST	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI . 31, NE (M) 36 E249726	11 AND 20 N WEST R LOPES, LC ION NEWB S. OF PEAK E SLOPES.	12 SURVEYS. IN 201. ATHER THAN "NW S DOSE DECOMPOSIN BERRYI, ETC. THE R/ IN 2011. 150-200 PL/ COLLECTIONS FRO Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOR ANTS ESTIMATED IN 2012; OM "JOBS SISTER" AND "JO specific area 38.86037 / -119.88434	OWARDS WITH PIN & VAR. A POP EST DBS SISTE	FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR "IMATE DIFFICULT DUE TO SF ER PEAK" ARE ATTRIBUTED I Area (acres): Elevation (feet):	GIDA, S HERE. PARSELY HERE. 10
Detailed Location 2 POLYGONS M AREA, FROM W Ecological: NW- AND S-FAC POLYGONUM S Threats: CLIMATE CHAN General: 100 PLANTS OE SCATTERED PL PLSS: T12N, F UTM: Zone-1 County Summa Alpine, El Dorado Sources: CHR11F0051	DN: APPED B VESTERN I CING ALPI CING ALPI CHASTENS IGE, OFF ANTS AC R19E, Sec 1 N430523 ry: O CHRIST HARDH/	ASED ON 20 POLYGON (C NE SCREE S SE, PENSTEM TRAIL HIKING ON S SLOPE ROSS SCREI . 31, NE (M) 36 E249726 IE, K FIELD	11 AND 20 N WEST R LOPES, LC ION NEWB 3. OF PEAK E SLOPES.	12 SURVEYS. IN 201. ATHER THAN "NW S DOSE DECOMPOSIN ERRYI, ETC. THE R/ IN 2011. 150-200 PL/ COLLECTIONS FRO Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	G GRANITE. ASSOCIATED ARE DRABA ASTEROPHOR ANTS ESTIMATED IN 2012; OM "JOBS SISTER" AND "JO specific area 38.86037 / -119.88434	OWARDS WITH PIN & VAR. A POP EST DBS SISTE	FREEL PEAK. NUS ALBICAULIS, HULSEA AL STEROPHORA ALSO OCCUR "IMATE DIFFICULT DUE TO SF ER PEAK" ARE ATTRIBUTED I Area (acres): Elevation (feet):	GIDA, S HERE. PARSELY HERE. 10



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	63123		EO Index:	632	215	
Key Quad:	Carson Pass	(3811968)	Element Code:	PD	AST20065	
Occurrence Number:	8		Occurrence Last U	pdated: 200	05-11-07	
Scientific Name: Cl	haenactis dougla	asii var. alpina	Common Name:	alpine dusty m	aidens	
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3		
	State:	None	Other Lists:			
CNDDB Element Ranks	: Global:	G5T5				
	State:	S2				
General Habitat:			Micro Habitat:			
ALPINE BOULDER AND	ROCK FIELD.		OPEN, SUBALPINE SUBSTRATE. 2362		RAVEL AND CREVICES; (GRANITIC
Last Date Observed:	1967-09-03		Occurrence Type:	Natural/Nativ	e occurrence	
Last Survey Date:	1967-09-03		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
ABOUT 1 MILE NORTH	WEST OF CAR	SON PASS, SOUTHWEST SHOU	LDER OF RED LAKE PEAK	۲.		
Detailed Location:						
		THWEST SHOULDER OF A PEA Æ PEAK IMMEDIATELY NORTH;				
Ecological:						
Threats:						
General:						
ONLY SOURCE OF INF	ORMATION FO	R THIS SITE IS A 1967 KYHOS C	OLLECTION. NEEDS FIEL	DWORK.		
PLSS: T10N, R18E, S	ec. 15 (M)	Accuracy:	2/5 mile		Area (acres):	0
	140 E220422	Latitude/Longitude:	38.70630 / -119.99660		Elevation (feet):	9,000
UTM: Zone-11 N4288	0449 EZ394Z3					-,
	9449 E239423	Quad Summary:				

KYH67S0001 KYHOS, D. - KYHOS #67-91 DAV #19677, UC #1777701, RSA #670077 1967-09-03



California Department of Fish and Wildlife

California Natural Diversity Database



	73337		EO Index:		74304	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		PDAST20065	
Occurrence Number:	10		Occurrence Last Up	odated:	2009-01-06	
Scientific Name: Ch	haenactis dougla	asii var. alpina	Common Name:	alpine dus	sty maidens	
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3		
	State:	None	Other Lists:			
CNDDB Element Ranks	: Global:	G5T5				
	State:	S2				
General Habitat:			Micro Habitat:			
ALPINE BOULDER AND	ROCK FIELD.		OPEN, SUBALPINE SUBSTRATE. 2362-		IE GRAVEL AND CREVICES; G	RANITIC
Last Date Observed:	1941-08-11		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	1941-08-11		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-STANIS	LAUS NF	Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
PEAK EAST OF EBBET	TS PASS.					
Detailed Location:						
	NOWN. MAPPI	ED BY CNDDB AS BEST GUESS		ELEVATIO	ON AREA JUST EAST OF EBBE	ETTS PAS
		IN INFORMATION ON COLLECTION	UN LABEL.			
BASED ON LOCATION		IN INFORMATION ON COLLECTI	ON LABEL.			
EXACT LOCATION UNK BASED ON LOCATION Ecological: Threats:		IN INFORMATION ON COLLECTI	UN LABEL.			
BASED ON LOCATION Ecological: Threats:		IN INFORMATION ON COLLECTI	UN LABEL.			
BASED ON LOCATION A Ecological: Threats: General: ONLY SOURCE OF INFO	AND ELEVATIC	R THIS SITE IS A 1941 DEARING	-	N. ID NEEI	DS VERIFICATION; MOREFIEL	D NOTES
BASED ON LOCATION / Ecological: Threats: General: ONLY SOURCE OF INFO THAT THIS MAY BE C. /	AND ELEVATIC ORMATION FO ALPIGENA. NEI	R THIS SITE IS A 1941 DEARING	-	N. ID NEEI	DS VERIFICATION; MOREFIEL Area (acres):	D NOTES
BASED ON LOCATION / Ecological: Threats: General: ONLY SOURCE OF INFO THAT THIS MAY BE C. / PLSS: T08N, R20E, So	AND ELEVATIC ORMATION FO ALPIGENA. NEI ec. 17 (M)	R THIS SITE IS A 1941 DEARING EDS FIELDWORK.	& DEARING COLLECTION	N. ID NEEI		
BASED ON LOCATION / Ecological: Threats: General: ONLY SOURCE OF INFO THAT THIS MAY BE C. / PLSS: T08N, R20E, Se	AND ELEVATIC ORMATION FO ALPIGENA. NEI ec. 17 (M)	R THIS SITE IS A 1941 DEARING EDS FIELDWORK. Accuracy:	& DEARING COLLECTION 3/5 mile	N. ID NEEI	Area (acres):	0

DEA41S0002 DEARING, H. & M. DEARING - DEARING #5661 SBBG #7885 1941-08-11



California Department of Fish and Wildlife



Map Index Number:	73338		EO Index:	74	305	
Key Quad:	Freel Peak (38	311978)	Element Code:	PD	DAST20065	
Occurrence Number:	11		Occurrence Last U	pdated: 20	09-01-06	
Scientific Name: C	haenactis dougla	osii var. alpina	Common Name:	alpine dusty n	naidens	
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3		
	State:	None	Other Lists:			
CNDDB Element Ranks	s: Global:	G5T5				
	State:	S2				
General Habitat:			Micro Habitat:			
ALPINE BOULDER AND	O ROCK FIELD.		OPEN, SUBALPINE SUBSTRATE. 2362		RAVEL AND CREVICES; (GRANITIC
Last Date Observed:	2006-09-12		Occurrence Type:	Natural/Nativ	ve occurrence	
Last Survey Date:	2006-09-12		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-LAKE TA	AHOE BMU	Trend:	Unknown		
Presence:	Presumed Exta	nt				
Location:						
HWY 89, 1.2 MILES WE	ST OF THE ALF	INE COUNTY LINE, NEAR LUTH	IER PASS AND GRASS LA	KE.		
Detailed Location:						
MAPPED BY CNDDB ~	1.2 ROAD MILES	S WEST OF THE ALPINE COUNT	Y LINE.			
Ecological:						
	T MEADOW. GI	ROWING IN AN OPEN, DRY, FLA	T, ROCKY AREA.			
Threats:						
General:						
MENTIONED AS "COM	MON" IN 2006. N	IEEDS FIELDWORK.				
PLSS: T11N, R18E, S	ec. 14, SW (M)	Accuracy:	non-specific area		Area (acres):	36
UTM: Zone-11 N4298	3356 E242484	Latitude/Longitude:	38.79636 / -119.96513		Elevation (feet):	7,750
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				



California Department of Fish and Wildlife

California Natural Diversity Database



Aap Index Number:	82708		EO Index:		83711	
Key Quad:	Freel Peak (38	811978)	Element Code:		PDAST20065	
Occurrence Number:	12		Occurrence Last Up	dated:	2011-05-27	
cientific Name: C	haenactis dougla	asii var. alpina	Common Name:	alpine du	sty maidens	
isting Status:	Federal:	None	Rare Plant Rank:	2B.3		
	State:	None	Other Lists:			
NDDB Element Ranks	s: Global:	G5T5				
	State:	S2				
General Habitat:			Micro Habitat:			
LPINE BOULDER AND	O ROCK FIELD.		OPEN, SUBALPINE SUBSTRATE. 2362-		NE GRAVEL AND CREVICES; GR	RANITIC
ast Date Observed:	2009-07-25		Occurrence Type:	Natural/	Native occurrence	
ast Survey Date:	2009-07-25		Occurrence Rank:	Fair		
wner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknow	'n	
resence:	Presumed Exta	ant				
ocation:						
LONG THE TAHOE RI	M TRAIL JUST	NW OF FREEL PEAK.				
etailed Location:						
cological:						
PEN, BARREN SUBAI	_PINE / ALPINE					
hreats:						
	ANT HAD BEEN	I DUG OUT FROM EITHER OCC	URRENCE #4 OR #12), TRA	MPLING	FROM RECREATION.	
						AK 10.00
					COLLECTION FROM "FREEL PE T" ARE ALSO ATTRIBUTED HEF	
PLSS: T12N, R18E, S	ec. 25, NE (M)	Accuracy:	80 meters		Area (acres):	0
JTM: Zone-11 N4305	5585 E247490	Latitude/Longitude:	38.86287 / -119.91021		Elevation (feet):	9,500
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				
Sources:						
BEY09F0001 BEYE	R, C. (U.S. FOR	EST SERVICE) - FIELD SURVEY	FORM FOR CHAENACTIS	DOUGLA	ASII VAR. ALPINA 2009-07-25	
/AT0610006 MATS	ON, S PHOTO	OS OF CHAENACTIS DOUGLASI	II VAR. ALPINA, CALPHOTO	OS ID #00	00 0000 0706 1585-1587 2006-07	'- 01

TAY70S0004 TAYLOR, D. - TAYLOR #681 JEPS #89305 1970-08-23



California Department of Fish and Wildlife



Map Index Number:	79524		EO Index:	80497
Key Quad:	Markleeville (38	811967)	Element Code:	PDAST2R0K0
Occurrence Number:	20		Occurrence Last Updated	: 2015-12-16
Scientific Name:	Crepis runcinata		Common Name: fiddlel	eaf hawksbeard
isting Status:	Federal:	None	Rare Plant Rank: 2B.2	
	State:	None	Other Lists:	
NDDB Element Ranl	ks: Global:	G5		
	State:	S3		
eneral Habitat:			Micro Habitat:	
IOJAVEAN DESERT	SCRUB, PINYON	AND JUNIPER WOODLAND.	MOIST, ALKALINE VALLE	Y BOTTOMS. 380-3110 M.
ast Date Observed:	2010-08-03		Occurrence Type: Natu	ral/Native occurrence
ast Survey Date:	2010-08-03		Occurrence Rank: Good	t
wner/Manager:	DPR-GROVER	HOT SPRINGS SP	Trend: Unkr	nown
resence:	Presumed Extar	nt		
ocation:				
ROVER HOT SPRIN	GS STATE PARK;	APPROXIMATELY 0.20 AIR MIL	E EAST OF SODA SPRING.	
etailed Location:				
ESTERN SIDE OF P	ARK. MAPPED BY	Y CNDDB IN THE NE 1/4 OF THE	SW 1/4 SECTION 24 ACCORDI	NG TO 2010 DEAN COORDINATES.
cological:				
HELYPODIUM CRIS				I IDAHOENSE, JUNCUS ARCTICUS, . GROWING ON EDGES OF DRAINAGES.
hreats:				
onerel.				
HOUSANDS OF PLA		IN 2010. A 1966 HOWELL COLLE HIS WOULD BE C. RUNCINATA S		PRINGS" IS ALSO ATTRIBUTED TO THIS SITI
HOUSANDS OF PLA SUBSPECIES ARE	RECOGNIZED, TH			PRINGS" IS ALSO ATTRIBUTED TO THIS SITI Area (acres): 0
HOUSANDS OF PLA SUBSPECIES ARE PLSS: T10N, R19E,	RECOGNIZED, TH	HIS WOULD BE C. RUNCINATA S	SSP. HALLII.	PRINGS" IS ALSO ATTRIBUTED TO THIS SITE Area (acres): 0 Elevation (feet): 5,878
HOUSANDS OF PLA SUBSPECIES ARE LSS: T10N, R19E, TM: Zone-11 N428	RECOGNIZED, TH Sec. 24, SW (M)	HIS WOULD BE C. RUNCINATA S Accuracy:	SSP. HALLII. 80 meters	Area (acres): 0
HOUSANDS OF PLA SUBSPECIES ARE LSS: T10N, R19E, TM: Zone-11 N428 ounty Summary:	RECOGNIZED, TH Sec. 24, SW (M)	HIS WOULD BE C. RUNCINATA S Accuracy: Latitude/Longitude:	SSP. HALLII. 80 meters	Area (acres): 0
HOUSANDS OF PLA SUBSPECIES ARE LSS: T10N, R19E, TM: Zone-11 N428 ounty Summary: Ipine	RECOGNIZED, TH Sec. 24, SW (M)	HIS WOULD BE C. RUNCINATA S Accuracy: Latitude/Longitude: Quad Summary:	SSP. HALLII. 80 meters	Area (acres): 0
HOUSANDS OF PLA SUBSPECIES ARE LSS: T10N, R19E, TM: Zone-11 N428 ounty Summary: Ipine ources:	RECOGNIZED, TH Sec. 24, SW (M) 37025 E252746	HIS WOULD BE C. RUNCINATA S Accuracy: Latitude/Longitude: Quad Summary:	SSP. HALLII. 80 meters 38.69731 / -119.84305	Area (acres): 0
HOUSANDS OF PLA SUBSPECIES ARE LSS: T10N, R19E, TM: Zone-11 N428 ounty Summary: Ipine ources: EA10F0027 DEA	RECOGNIZED, TH Sec. 24, SW (M) 37025 E252746 N, E FIELD SUR	HIS WOULD BE C. RUNCINATA S Accuracy: Latitude/Longitude: Quad Summary: Markleeville (3811967)	SSP. HALLII. 80 meters 38.69731 / -119.84305 INATA 2010-06-29	Area (acres): 0
HOUSANDS OF PLA SUBSPECIES ARE LSS: T10N, R19E, TM: Zone-11 N428 county Summary: lpine ources: EA10F0027 DEA EA10S0001 DEA	RECOGNIZED, TH Sec. 24, SW (M) 37025 E252746 N, E FIELD SUR N, E. ET AL DE/	HIS WOULD BE C. RUNCINATA S Accuracy: Latitude/Longitude: Quad Summary: Markleeville (3811967) RVEY FORM FOR CREPIS RUNC	SSP. HALLII. 80 meters 38.69731 / -119.84305 INATA 2010-06-29 2010-06-29	Area (acres): 0
F SUBSPECIES ARE PLSS: T10N, R19E, JTM: Zone-11 N428 County Summary: Npine Sources: DEA10F0027 DEA DEA10S0001 DEA DEA10S0002 DEA	RECOGNIZED, TH Sec. 24, SW (M) 37025 E252746 N, E FIELD SUR N, E. ET AL DE/ N, E. ET AL DE/	HIS WOULD BE C. RUNCINATA S Accuracy: Latitude/Longitude: Quad Summary: Markleeville (3811967) RVEY FORM FOR CREPIS RUNC AN #6302 DAV #86682 & #97157	SSP. HALLII. 80 meters 38.69731 / -119.84305 INATA 2010-06-29 2010-06-29 2	Area (acres): 0



California Department of Fish and Wildlife

California Natural Diversity Database



Kite::::::::::::::::::::::::::::::::::::	Map Index Number:	58010		EO Index:		58035		
Scientific Name: Cryptantha crymophila Common Name: subalpine cryptantha Listing Status: Federal: None Rare Plant Rank: 18.3 State: None Other Lists: Common Name: 18.3 CNDDB Element Ranks: Global: G3 State: S3 General Habitat: State: S3 ON DRY TALUS OF VOLCANIC FORMATION. 2680-3295 M. Last Date Observed: 1960-08-06 OR URY TALUS OF VOLCANIC FORMATION. 2680-3295 M. Last Date Observed: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Survey Date: 1960-08-06 Occurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Presence: Presumed Extant Unknown Federation Location: RAYMOND PEAK. Detailed Location: Unknown MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Trend: View (acces): 280 DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Ecological: State: State: State: State: State: State:	Key Quad:	Ebbetts Pass	(3811957)	Element Code:		PDBOR0A0R0		
Listing Status: Federal: None Rare Plant Rank: 18.3 State: None Other Lists: ChDDB Element Ranks: Global: G3 State: S3 General Habitat: S1BaLPINE CONIFEROUS FOREST. ON DRY TALUS OF VOLCANIC FORMATION. 2680-3295 M. Last Date Observed: 1960-08-06 Last Date Observed: 1960-08-06 Last Survey Date: 1960-08-06 Last Survey Date: 1960-08-06 Cocurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Presence: Presumed Extant Location: RAYMOND PEAK. Detailed Location: MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary: Quad Summary:	Occurrence Number:	6		Occurrence Last U	pdated:	2019-01-02		
State: None Other Lists: CNDDB Element Ranks: Global: G3 State: S3 General Habitat: Site: SUBALPINE CONIFEROUS FOREST. ON DRY TALUS OF VOLCANIC FORMATION. 2680-3295 M. Last Date Observed: 1960-08-06 Last Date Observed: 1960-08-06 Conver/Manage: USFS-HUMBOLDT-TOIYABE NF Presence: Presumed Extant Location: Unknown RAYMOND PEAK. Presumed Extant Location: RAYMOND PEAK. Bother Lists: Unknown MAPPED BY CNDBD AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FET. Ecological: Data Mathematical Structure	Scientific Name: C	ryptantha crymo	phila	Common Name:	subalpine	e cryptantha		
CNDDB Element Ranks: Global: G3 State: S3 General Habitat: Micro Habitat: SUBALPINE CONIFEROUS FOREST. ON DRY TALUS OF VOLCANIC FORMATION. 2680-3295 M. Last Date Observed: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Date Observed: 1960-08-06 Occurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIVAEE NF Occurrence Rank: Unknown Presence: Presumed Extant Unknown Presence: Unknown Detailed Location: NEVENTION D PAK. Detailed Location IS 9000 FET. Ecological: Damp TALUS. ASSOCIATED WITH PRIMULA SP. Area (acres): Z80 Concy: 1960-NAROCILECTION NEEDS FIELDWORK. Area (acres): 280 UTM: Zone-11 N427613 E253278 Accuracy: 2/5 mile Area (acres): 280 Contry Summary: Quad Summary: Quad Summary: 240 Elevation (feet): 9.000	Listing Status:	Federal:	None	Rare Plant Rank:	1B.3			
State: S3 Micro Habitat: General Habitat: SUBALPINE CONIFEROUS FOREST. Micro Habitat: ON DRY TALUS OF VOLCANIC FORMATION. 2680-3295 M. State: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Date Observed: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Survey Date: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Survey Date: 1960-08-06 Occurrence Type: Natural/Native occurrence Dawner/Manager: USFS-HUMBOLDT-TOIYBE NF Occurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYBE NF Trend: Unknown Dawner/Manager: Dresumed Extant Location: NAPPED BY CNDDB AS BEST GUESS AROUND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: Area (acres): 280 General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLS: Type: Area (acres): 280 UTM: Zone-11 M4276613 E253278 Quad Summary: Zimate: <th colsp<="" td=""><td></td><td>State:</td><td>None</td><td>Other Lists:</td><td></td><td></td><td></td></th>	<td></td> <td>State:</td> <td>None</td> <td>Other Lists:</td> <td></td> <td></td> <td></td>		State:	None	Other Lists:			
General Habitat: Micro Habitat: SUBALPINE CONIFEROUS FOREST. ON DRY TALUS OF VOLCANIC FORMATION. 2680-3295 M. Last Date Observed: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Survey Date: 1960-08-06 Occurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Presence: Presumed Extant Unknown	CNDDB Element Rank	s: Global:	G3					
SUBALPINE CONIFEROUS FOREST. ON DRY TALUS OF VOLCANIC FORMATION. 2680-3295 M. Last Date Observed: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Survey Date: 1960-08-06 Occurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Presence: Presumed Extant Unknown Image: Comparison of the comparison of		State:	S3					
Last Date Observed: 1960-08-06 Occurrence Type: Natural/Native occurrence Last Survey Date: 1960-08-06 Occurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Presence: Presumed Extant Unknown Location: RAYMOND PEAK. Intervention Presence: Presumed Extant Intervention Location: RAYMOND PEAK. Intervention MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary: Quad Summary: Quad Summary: V15 V19.211	General Habitat:			Micro Habitat:				
Last Survey Date: 1960-08-06 Occurrence Rank: Unknown Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Presence: Presumed Extant Unknown Location: RAYMOND PEAK. Trend: Unknown Patialed Location: VILL VILL VILL VILL MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. VILL VIL	SUBALPINE CONIFER	OUS FOREST.		ON DRY TALUS OF	VOLCAN	IC FORMATION. 2680-3295 M		
Owner/Manager: USFS-HUMBOLDT-TOIYABE NF Trend: Unknown Presence: Presumed Extant Image: Content of Con	Last Date Observed:	1960-08-06		Occurrence Type:	Natural/	Native occurrence		
Presence: Presumed Extant Location: RAYMOND PEAK. RAYMOND PEAK. Detailed Location: MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Secondaria Coological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: Secondaria ONLY SOURCE IS 1960 HARDHAM COLLECTION STELDWORK. Secondaria PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000	Last Survey Date:	1960-08-06		Occurrence Rank:	Unknow	'n		
Location: RAYMOND PEAK. Detailed Location: MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 County Summary: Quad Summary:	Owner/Manager:	USFS-HUMBC	DLDT-TOIYABE NF	Trend:	Unknow	'n		
RAYMOND PEAK. Detailed Location: MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary:	Presence:	Presumed Exta	ant					
Detailed Location: MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 County Summary: Quad Summary:	Location:							
MAPPED BY CNDDB AS BEST GUESS AROUND RAYMOND PEAK. GIVEN ELEVATION IS 9000 FEET. Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary:	RAYMOND PEAK.							
Ecological: DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 County Summary: Quad Summary:	Detailed Location:							
DAMP TALUS. ASSOCIATED WITH PRIMULA SP. Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary:	MAPPED BY CNDDB A	S BEST GUESS	AROUND RAYMOND PEAK. GI	/EN ELEVATION IS 9000 F	EET.			
Threats: General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. Area (acres): 280 PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary: Cuad Summary: Cu	Ecological:							
General: ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary:		ATED WITH PR	IMULA SP.					
ONLY SOURCE IS 1960 HARDHAM COLLECTION. NEEDS FIELDWORK. PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary: Quad Summary: 245 245								
PLSS: T09N, R19E, Sec. 25, E (M) Accuracy: 2/5 mile Area (acres): 280 UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary: Quad Summary: 2/5 mile Area (acres): 280								
UTM: Zone-11 N4276613 E253278 Latitude/Longitude: 38.60375 / -119.83326 Elevation (feet): 9,000 County Summary: Quad Summary: Quad Summary: Particular (feet): 9,000	ONLY SOURCE IS 196) HARDHAM CC	DLLECTION. NEEDS FIELDWORF	Κ.				
County Summary: Quad Summary:	PLSS: T09N, R19E, S	ec. 25, E (M)	Accuracy:	2/5 mile		Area (acres):	280	
	UTM: Zone-11 N427	6613 E253278	Latitude/Longitude:	38.60375 / -119.83326		Elevation (feet):	9,000	
Alpine Ebbetts Pass (3811957)	County Summary:		Quad Summary:					
	Alpine		Ebbetts Pass (381195	7)				



California Department of Fish and Wildlife



Map Index Number:	58013		EO Index:		58038	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		PDBOR0A0R0	
Occurrence Number:	7	()	Occurrence Last U	pdated:	2004-11-09	
Scientific Name: C	ryptantha crymo	phila	Common Name:	subalpine	e cryptantha	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.3		
-	State:	None	Other Lists:			
CNDDB Element Ranks	s: Global:	G3				
	State:	S3				
General Habitat:			Micro Habitat:			
SUBALPINE CONIFER	OUS FOREST.		ON DRY TALUS OF	VOLCAN	IC FORMATION. 2680-3295	M.
Last Date Observed:	1975-09-07		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1975-09-07		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-ELDOR/	ADO NF, TOIYABE NF	Trend:	Unknow	'n	
Owner/Manager: Presence:	USFS-ELDORA Presumed Exta		Trend:	Unknow	'n	
-			Trend:	Unknow	'n	
Presence: Location: PEAK APPROXIMATEL	Presumed Exta			Unknow	'n	
Presence: Location: PEAK APPROXIMATEL Detailed Location:	Presumed Exta	int		Unknow	'n	
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological:	Presumed Exta	INT HEAST OF WET MEADOWS RES	SERVOIR.		'n	
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-A	Presumed Exta	int	SERVOIR.		'n	
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-AI Threats:	Presumed Exta	INT HEAST OF WET MEADOWS RES	SERVOIR.		'n	
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-AI Threats: General:	Presumed Exta Y 1 MILE SOUT	INT HEAST OF WET MEADOWS RES RUB COMMUNITY. ASSOCIATE	SERVOIR.		'n	
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-AI Threats: General: ONLY SOURCE IS 1975	Presumed Exta Y 1 MILE SOUT LPINE SAGE SC 5 TAYLOR COLL	INT HEAST OF WET MEADOWS RES RUB COMMUNITY. ASSOCIATE .ECTION. NEEDS FIELDWORK.	SERVOIR. D WITH ARTEMISIA ARBL			
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-AU Threats: General: ONLY SOURCE IS 1975 PLSS: T09N, R19E, S	Presumed Exta Y 1 MILE SOUT LPINE SAGE SC 5 TAYLOR COLL Sec. 25, SW (M)	INT HEAST OF WET MEADOWS RES RUB COMMUNITY. ASSOCIATE LECTION. NEEDS FIELDWORK. Accuracy:	SERVOIR. D WITH ARTEMISIA ARBU 1/10 mile		Area (acres):	0
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-AI Threats: General: ONLY SOURCE IS 1975	Presumed Exta Y 1 MILE SOUT LPINE SAGE SC 5 TAYLOR COLL Sec. 25, SW (M)	INT HEAST OF WET MEADOWS RES RUB COMMUNITY. ASSOCIATE .ECTION. NEEDS FIELDWORK.	SERVOIR. D WITH ARTEMISIA ARBL			
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-AU Threats: General: ONLY SOURCE IS 1975 PLSS: T09N, R19E, S	Presumed Exta Y 1 MILE SOUT LPINE SAGE SC 5 TAYLOR COLL Sec. 25, SW (M)	INT HEAST OF WET MEADOWS RES RUB COMMUNITY. ASSOCIATE LECTION. NEEDS FIELDWORK. Accuracy:	SERVOIR. D WITH ARTEMISIA ARBU 1/10 mile		Area (acres):	
Presence: Location: PEAK APPROXIMATEL Detailed Location: Ecological: ROCKY SUBALPINE-AI Threats: General: ONLY SOURCE IS 1975 PLSS: T09N, R19E, S UTM: Zone-11 N4275	Presumed Exta Y 1 MILE SOUT LPINE SAGE SC 5 TAYLOR COLL Sec. 25, SW (M)	INT HEAST OF WET MEADOWS RES RUB COMMUNITY. ASSOCIATE .ECTION. NEEDS FIELDWORK. Accuracy: Latitude/Longitude:	SERVOIR. D WITH ARTEMISIA ARBU 1/10 mile 38.59698 / -119.84751		Area (acres):	



California Department of Fish and Wildlife



Map Index Number:	58018		EO Index:	58043		
Key Quad:	Pacific Valley	(3811958)	Element Code:	PDBOF	R0A0R0	
Occurrence Number:	8		Occurrence Last U	pdated: 2019-0	1-04	
Scientific Name: C	ryptantha crymo	pphila	Common Name:	subalpine cryptant	ha	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.3		
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G3				
	State:	S3				
General Habitat:			Micro Habitat:			
SUBALPINE CONIFER	OUS FOREST.		ON DRY TALUS OF	VOLCANIC FORM	ATION. 2680-3295 M.	
Last Date Observed:	1962-08-06		Occurrence Type:	Natural/Native oc	currence	
Last Survey Date:	1962-08-06		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
3 AIR MILES DUE WES	T OF PACIFIC	GRADE SUMMIT (MOSQUITO LA	AKE).			
Detailed Location:						
"DUE WEST OF SAND	Y MEADOW, N (OF EBBETS PASS ROAD (CA-4)	, ON RIDGE BETWEEN NO	RTH FORK STANIS	SLAUS AND NORTH F	ORK
Ecological:	GIVEN ELEVA	ATION IS 8800 FEET. MAPPED É	SY CNDDB AS A BEST GUE	55.		
•		E OF RIDGE ON MIOCENE VOLO				
Threats:						
General:						
	2 STEBBINS CC	DLLECTION. NEEDS FIELDWOR	K.			
PLSS: T08N, R18E, S	Sec. 35 (M)	Accuracy:	3/5 mile		Area (acres):	776
UTM: Zone-11 N426		Latitude/Longitude:			Elevation (feet):	8,800
		-				0,000
County Summary: Quad Summ						
Alpine		Pacific Valley (38119)	58)			



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	58020		EO Index:		58045
Key Quad:	Freel Peak (38	311978)	Element Code:		PDBOR0A0R0
Occurrence Number:	9		Occurrence Last U	pdated:	2019-01-02
Scientific Name: C	ryptantha crymor	ohila	Common Name:	subalpine	e cryptantha
Listing Status:	Federal:	None	Rare Plant Rank:	1B.3	
	State:	None	Other Lists:		
CNDDB Element Ranks	s: Global:	G3			
	State:	S3			
eneral Habitat:			Micro Habitat:		
	OUS FOREST.		ON DRY TALUS OF	VOLCAN	IC FORMATION. 2680-3295 M.
ast Date Observed:	2013-08-12		Occurrence Type:	Natural/	Native occurrence
ast Survey Date:	2013-08-12		Occurrence Rank:	Unknow	'n
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	'n
resence:	Presumed Exta	nt			
ocation:					
	ATION JUST EA	ST OF PICKETT PEAK, ABOV	E HOPE VALLEY.		
ON COLUMNAR FORM	ATION JUST EA	ST OF PICKETT PEAK, ABOV	E HOPE VALLEY.		
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIO	AK ~500 M SE 0		PEAK. PLANTS FOUND WITH		INE FACE OF NARROW, STEEP RIDGELI S; POINT IS AT W EDGE OF
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANI DCCURRENCE.	AK ~500 M SE 0	OF SADDLE SE OF PICKETT P	PEAK. PLANTS FOUND WITH		
ON COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIO DCCURRENCE. Ecological: HABITAT IS AREA OF O /OLCANICS. ASSOCIA	AK ~500 M SE C C COLUMNAR F GRAVELLY AND	OF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COC PEEN COBBLE AND BOULDE	ORDINATE	
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIE DCCURRENCE. Cological: HABITAT IS AREA OF (VOLCANICS. ASSOCIA Threats:	AK ~500 M SE C C COLUMNAR F GRAVELLY AND	OF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COC PEEN COBBLE AND BOULDE	ORDINATE	ES; POINT IS AT W EDGE OF
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIG OCCURRENCE. Ecological: HABITAT IS AREA OF (/OLCANICS. ASSOCIA Threats: CLIMATE CHANGES.	AK ~500 M SE C C COLUMNAR F GRAVELLY AND	OF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COC PEEN COBBLE AND BOULDE	ORDINATE	ES; POINT IS AT W EDGE OF
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIG DCCURRENCE. Ecological: HABITAT IS AREA OF O (OLCANICS. ASSOCIA Threats: CLIMATE CHANGES. General:	AK ~500 M SE C C COLUMNAR F GRAVELLY AND TED WITH ELYM	OF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW MUS ELYMOIDES, PHLOX DIF	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COC PEEN COBBLE AND BOULDE FUSA, AGERATINA OCCIDE	ORDINATE ERS OF D ENTALIS, I	ES; POINT IS AT W EDGÉ OF RY TALUS OF BROKEN COLUMNAR RIBES CEREUM, SYMPHORICARPOS, ET
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIG DCCURRENCE. Ecological: HABITAT IS AREA OF O /OLCANICS. ASSOCIA Threats: CLIMATE CHANGES. General: ABOUT 60 PLANTS OB	AK ~500 M SE C C COLUMNAR F GRAVELLY AND TED WITH ELYM	OF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW MUS ELYMOIDES, PHLOX DIF	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COC PEEN COBBLE AND BOULDE FUSA, AGERATINA OCCIDE	ORDINATE ERS OF D ENTALIS, I	ES; POINT IS AT W EDGE OF
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIE DCCURRENCE. Ecological: HABITAT IS AREA OF O /OLCANICS. ASSOCIA Threats: CLIMATE CHANGES. General: ABOUT 60 PLANTS OB THIS SITE.	AK ~500 M SE C C COLUMNAR F GRAVELLY AND TED WITH ELYN SERVED IN 201	OF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW MUS ELYMOIDES, PHLOX DIF	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COC PEEN COBBLE AND BOULDE FUSA, AGERATINA OCCIDE	ORDINATE ERS OF D ENTALIS, I	ES; POINT IS AT W EDGÉ OF RY TALUS OF BROKEN COLUMNAR RIBES CEREUM, SYMPHORICARPOS, ET
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIG DCCURRENCE. Ecological: HABITAT IS AREA OF O /OLCANICS. ASSOCIA Threats: CLIMATE CHANGES. General: ABOUT 60 PLANTS OB THIS SITE. PLSS: T10N, R19E, S	AK ~500 M SE C C COLUMNAR F GRAVELLY AND TED WITH ELYN SERVED IN 201	DF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW MUS ELYMOIDES, PHLOX DIF 3. A 1973 TAYLOR COLLECTIO	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COO PEEN COBBLE AND BOULDE FUSA, AGERATINA OCCIDE ON FROM "JUST TO THE EA 80 meters	ORDINATE ERS OF D ENTALIS, I	ES; POINT IS AT W EDGE OF RY TALUS OF BROKEN COLUMNAR RIBES CEREUM, SYMPHORICARPOS, ET CKETT PEAK" IS ALSO ATTRIBUTED TO
DN COLUMNAR FORM Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIG DCCURRENCE. Ecological: HABITAT IS AREA OF O /OLCANICS. ASSOCIA Threats: CLIMATE CHANGES. General: ABOUT 60 PLANTS OB THIS SITE. PLSS: T10N, R19E, S JTM: Zone-11 N4293	AK ~500 M SE C C COLUMNAR F GRAVELLY AND TED WITH ELYN SERVED IN 201	DF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW MUS ELYMOIDES, PHLOX DIF 3. A 1973 TAYLOR COLLECTIO Accuracy:	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COO PEEN COBBLE AND BOULDE FUSA, AGERATINA OCCIDE ON FROM "JUST TO THE EA 80 meters	ORDINATE ERS OF D ENTALIS, I	ES; POINT IS AT W EDGE OF RY TALUS OF BROKEN COLUMNAR RIBES CEREUM, SYMPHORICARPOS, ET CKETT PEAK" IS ALSO ATTRIBUTED TO Area (acres): 5
Detailed Location: ON RIDGELINE OF PE DF BROKEN VOLCANIO DCCURRENCE. Ecological: HABITAT IS AREA OF O VOLCANICS. ASSOCIA Threats: CLIMATE CHANGES. General: ABOUT 60 PLANTS OB THIS SITE. PLSS: T10N, R19E, S	AK ~500 M SE C C COLUMNAR F GRAVELLY AND TED WITH ELYN SERVED IN 201	DF SADDLE SE OF PICKETT P ORMATION." MAPPED ACCO LOAMY SOILS FOUND BETW MUS ELYMOIDES, PHLOX DIF 3. A 1973 TAYLOR COLLECTIO Accuracy: Latitude/Longitude	PEAK. PLANTS FOUND WITH RDING TO 2013 ROWE COO PEEN COBBLE AND BOULDE FUSA, AGERATINA OCCIDE ON FROM "JUST TO THE EA 80 meters : 38.75463 / -119.89845	ORDINATE ERS OF D ENTALIS, I	ES; POINT IS AT W EDGE OF RY TALUS OF BROKEN COLUMNAR RIBES CEREUM, SYMPHORICARPOS, ET CKETT PEAK" IS ALSO ATTRIBUTED TO Area (acres): 5

TAYLOR, D. - TAYLOR #2641 DAV #62922 & #119018 1973-07-17 TAY73S0002



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B1778		EO Index:		113693	
Key Quad:	Quad: Ebbetts Pass (3811957)		Element Code:		PDBOR0A0R0	
Occurrence Number:	14		Occurrence Last Up	odated:	2019-01-02	
Scientific Name: C	Cryptantha crymor	bhila	Common Name:	subalpine	e cryptantha	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.3		
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G3				
	State:	S3				
General Habitat:			Micro Habitat:			
SUBALPINE CONIFER	OUS FOREST.		ON DRY TALUS OF	VOLCAN	IC FORMATION. 2680-3295 M.	
Last Date Observed:	2012-07-25		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2012-07-25		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-HUMBOI	LDT-TOIYABE NF	Trend:	Unknow	n	
Presence:	Presumed Exta	nt				
Location:						
ALONG THE PACIFIC	CREST TRAIL AE	BOUT 1 AIR MILE NNW OF RAY	MOND PEAK.			
Detailed Location:						
	ONS ACCORDIN	G TO 2006 KELLEY COORDINA	TES AND 2012 RIPMA COO	ORDINATI	ES.	
Ecological:						
		SITIC GRAVEL SCREE OF A BA		RIPARIAN	NAREA IS SALIX DOMINATED	, UPLAND
Threats:						
General:						
SITE BASED ON A 200	6 KELLEY COLL	ECTION AND A 2012 RIPMA & P	KELLEY COLLECTION.			
PLSS: T09N, R19E, S	Sec. 24, E (M)	Accuracy:	specific area		Area (acres):	10
UTM: Zone-11 N427	8216 E252865	Latitude/Longitude:	38.61805 / -119.83857		Elevation (feet):	8,150
County Summary:		Quad Summary:				
Alpine		Ebbetts Pass (381195	7)			
Sources:						
00010001						

RIP12S0002 RIPMA, L. & R. KELLEY - RIPMA #390 SDSU #20116 2012-07-25



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B1779		EO Index:		113694	
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		PDBOR0A0R0	
Occurrence Number:	15		Occurrence Last U	pdated:	2019-01-02	
Scientific Name: C	ryptantha crymol	ohila	Common Name:	subalpine	cryptantha	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.3		
	State:	None	Other Lists:			
CNDDB Element Ranks	s: Global:	G3				
	State:	S3				
General Habitat:			Micro Habitat:			
SUBALPINE CONIFER	OUS FOREST.		ON DRY TALUS OF	VOLCANI	C FORMATION. 2680-3295 M.	
Last Date Observed:	2012-07-25		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2012-07-25		Occurrence Rank:	Unknowr	n	
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknowr	n	
Presence:	Presumed Exta	nt				
Location:						
ALONG THE PACIFIC (CREST TRAIL A	BOUT 1.5 AIR MILES NNW OF R	AYMOND PEAK.			
Detailed Location:						
OCCURS BOTH UP AN COORDINATES.	D DOWNSLOPE	OF THE PACIFIC CREST TRAIL	MAPPED ACCORDING T	O 2006 KE	ELLEY COORDINATES AND 20	012 RIPMA
Ecological:						
		EST-FACING SLOPE OF OPEN I MA, MELICA, LYGODESMIA, SIT				
Threats:						
General:						
SITE BASED ON A 200	6 KELLEY COLL	ECTION AND A 2012 RIPMA & K	ELLEY COLLECTION.			
PLSS: T09N, R19E, S	ec. 24, NW (M)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N4278	3719 E252268	Latitude/Longitude:	38.62242 / -119.8456		Elevation (feet):	8,100
County Summary: Quad Summary:		Quad Summary:				
County Summary:						
Alpine		Ebbetts Pass (381195	7)			

RIP12S0003 RIPMA, L. & R. KELLEY - RIPMA #391 SDSU #20099 2012-07-25



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B1781		EO Index:	113696
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	PDBOR0A0R0
Occurrence Number:	ber: 16		Occurrence Last Updated	: 2019-01-02
Scientific Name: C	ryptantha crymo	ohila	Common Name: subalp	pine cryptantha
Listing Status:	Federal:	None	Rare Plant Rank: 1B.3	
	State:	None	Other Lists:	
CNDDB Element Rank	s: Global:	G3		
	State:	S3		
General Habitat:			Micro Habitat:	
SUBALPINE CONIFER	OUS FOREST.		ON DRY TALUS OF VOLC	ANIC FORMATION. 2680-3295 M.
Last Date Observed:	2012-07-25		Occurrence Type: Natur	ral/Native occurrence
	2012-07-25		Occurrence Rank: Unkn	IOWN
Last Survey Date:	2012-07-20			
•		LDT-TOIYABE NF	Trend: Unkn	lown
Last Survey Date: Owner/Manager: Presence:		-	Trend: Unkn	Iown
Owner/Manager: Presence:	USFS-HUMBO	-	Trend: Unkn	Iown
Owner/Manager: Presence: Location:	USFS-HUMBO Presumed Exta	-		lown
Owner/Manager: Presence: Location: ALONG THE PACIFIC (USFS-HUMBO Presumed Exta	nt		iown
Owner/Manager: Presence: Location: ALONG THE PACIFIC (Detailed Location: MAPPED ACCORDING	USFS-HUMBO Presumed Exta CREST TRAIL AB	nt 3OUT 1.4 AIR MILES NW OF RAY		
Owner/Manager: Presence: Location: ALONG THE PACIFIC (Detailed Location: MAPPED ACCORDING Ecological:	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA	nt 30UT 1.4 AIR MILES NW OF RAY A COORDINATES; CNDDB PRES	YMOND PEAK. SUMES COORDINATES ARE FRO	M COLLECTION LABEL.
Owner/Manager: Presence: Location: ALONG THE PACIFIC (Detailed Location: MAPPED ACCORDING Ecological: SLOPING RHYOLITE S	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA	nt 3OUT 1.4 AIR MILES NW OF RAY A COORDINATES; CNDDB PRES IAL ASSOCIATION OF OPEN AR	YMOND PEAK. SUMES COORDINATES ARE FRO	
Owner/Manager: Presence: Location: ALONG THE PACIFIC (Detailed Location: MAPPED ACCORDING Ecological: SLOPING RHYOLITE S	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA	nt 3OUT 1.4 AIR MILES NW OF RAY A COORDINATES; CNDDB PRES IAL ASSOCIATION OF OPEN AR	YMOND PEAK. SUMES COORDINATES ARE FRO	M COLLECTION LABEL.
Owner/Manager: Presence: Location: ALONG THE PACIFIC (Detailed Location: MAPPED ACCORDING Ecological: SLOPING RHYOLITE S SURROUNDING FORE	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA	nt 3OUT 1.4 AIR MILES NW OF RAY A COORDINATES; CNDDB PRES IAL ASSOCIATION OF OPEN AR	YMOND PEAK. SUMES COORDINATES ARE FRO	M COLLECTION LABEL.
Owner/Manager: Presence: Location: ALONG THE PACIFIC O Detailed Location: MAPPED ACCORDING Ecological: SLOPING RHYOLITE S SURROUNDING FORE Threats: General:	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA LOPE. PERENN ST IS RED FIR A	nt 3OUT 1.4 AIR MILES NW OF RAY A COORDINATES; CNDDB PRES IAL ASSOCIATION OF OPEN AR	YMOND PEAK. SUMES COORDINATES ARE FRO REAS WITH LEPTODACTYLON, M	M COLLECTION LABEL.
Owner/Manager: Presence: Location: ALONG THE PACIFIC O Detailed Location: MAPPED ACCORDING Ecological: SLOPING RHYOLITE S SURROUNDING FORE Threats: General:	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA LOPE. PERENN ST IS RED FIR A	nt 3OUT 1.4 AIR MILES NW OF RAY COORDINATES; CNDDB PRES IAL ASSOCIATION OF OPEN AR AND LODGEPOLE.	YMOND PEAK. SUMES COORDINATES ARE FRO REAS WITH LEPTODACTYLON, M	M COLLECTION LABEL.
Owner/Manager: Presence: Location: ALONG THE PACIFIC O Detailed Location: MAPPED ACCORDING Ecological: SLOPING RHYOLITE S SURROUNDING FORE Threats: General: ONLY SOURCE OF INF	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA LOPE. PERENN ST IS RED FIR A	nt BOUT 1.4 AIR MILES NW OF RAY COORDINATES; CNDDB PRES IAL ASSOCIATION OF OPEN AR AND LODGEPOLE. R THIS SITE IS A 2012 RIPMA CO	YMOND PEAK. SUMES COORDINATES ARE FRO REAS WITH LEPTODACTYLON, M OLLECTION.	M COLLECTION LABEL. IONARDELLA, AND ERICAMERIA.
Owner/Manager: Presence: Location: ALONG THE PACIFIC O Detailed Location: MAPPED ACCORDING Ecological: SLOPING RHYOLITE S SURROUNDING FORE Threats: General: ONLY SOURCE OF INF PLSS: T09N, R19E, S	USFS-HUMBO Presumed Exta CREST TRAIL AF TO 2012 RIPMA LOPE. PERENN ST IS RED FIR A	nt BOUT 1.4 AIR MILES NW OF RAY COORDINATES; CNDDB PRES IAL ASSOCIATION OF OPEN AR ND LODGEPOLE. R THIS SITE IS A 2012 RIPMA CO Accuracy:	YMOND PEAK. SUMES COORDINATES ARE FRO REAS WITH LEPTODACTYLON, M OLLECTION. 80 meters	M COLLECTION LABEL. IONARDELLA, AND ERICAMERIA. Area (acres): 5

RIP12S0004 RIPMA, L. & R. KELLEY - RIPMA #393 SDSU #20101 2012-07-25



California Department of Fish and Wildlife



Map Index Number:	14533		EO Index:		20540	
Key Quad:	Freel Peak (38	11978)	Element Code:		PDBRA110D1	
Occurrence Number:	1		Occurrence Last U	pdated:	2016-08-26	
Scientific Name:	Draba asterophora	var. asterophora	Common Name:	Tahoe dra	ba	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	USFS_S-S	Sensitive	
CNDDB Element Rank	s: Global:	G2T2?				
	State:	S2?				
General Habitat:			Micro Habitat:			
ALPINE BOULDER AN FOREST.	D ROCK FIELD, S	SUBALPINE CONIFEROUS	ON OPEN TALUS S DECOMPOSED GR	,	OCK OUTCROPS, AND CRE 70-3505 M.	/ICES. ON
Last Date Observed:	2015-08-25		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	2015-08-25		Occurrence Rank:	Good		
Owner/Manager:	USFS-LAKE TA	HOE BMU	Trend:	Unknown	1	
Presence:	Presumed Extar	nt				
Location:						
VICINITY OF FREEL P	EAK, CARSON R	ANGE, SE OF LAKE TAHOE.				
Detailed Location:						
MAPPED BY CNDDB A SERVICE POPULATIO		ACCORDING TO 2015 LTBMU E 10.	DIGITAL DATA, AND 2009,	2011, & 20	12 COORDINATES. INCLUDE	ES FOREST
Ecological:						
ON GRANITIC SCREE ERYSIMUM PERENNE	, MOSTLY BETWI , PHLOX SPP, AN	EEN 10,000 FEET AND THE SUNN ERIOGONUM SPP. VERY SP	MMIT. ALPINE FELL-FIELD PARSE VEGETATION GRO	S WITH PI WING WH	NUS ALBICAULIS, PENSTEN ERE DRABA DOMINATES.	ION SP.,
Threats:						
HIKERS MAY THREAT	EN, TRAIL MAIN	TENANCE, CLIMATE CHANGE.	SNOWMOBILES MAY VEN	ITURE INTO	O SOME AREAS.	
General:						
		000 PLANTS SEEN IN 1990, 500 IN 2011, 1650-1950+ IN 2012. IN			N 2004 & 2009, 5200+ IN 201	5. S-MOST 8
DICC. T12NI D10E	Sec. 31, W (M)	Accuracy:	specific area		Area (acres):	171
FL33. IIZN, RISE, v	5139 E248746	Latitude/Longitude:	38.85922 / -119.8956		Elevation (feet):	10,200
		Quad Summary:				



California Department of Fish and Wildlife



Sources:	
BAA78F0001	BAAD, M FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1978-10-04
DOY88S0001	DOYLE, L. & D. ALLESSIO - DOYLE SN UC #1553415 1988-07-23
EVA18S0001	EVANS, H EVANS SN UC #306809 1918-07-28
GIB97F0013	GIBSON, S. ET AL FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1997-08-19
GRO04F0013	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-11
GRO11F0009	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2011-08-24
GRO11F0010	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2011-08-24
HEA09F0033	HEARD, K. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
HEA09F0034	HEARD, K. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
HEA09F0035	HEARD, K. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
IRI93F0005	IRIBARNE, D. & T. KUNDERT - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1993-07-29
JEN09F0019	JENNINGS, M. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
JUS28S0002	JUSSEL, M JUSSEL SN CAS #165635 1928-07-10
KNA79S0001	KNAPP, C KNAPP SN DAV #114862 1979-08-03
KUN90F0004	KUNDERT, A FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1990-07-11
MCK12F0021	MCKNIGHT, S. & J. FEDORCHUK (U.S. FOREST SERVICE) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2012-09-25
MCK12F0024	MCKNIGHT, S. (U.S. FOREST SERVICE) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2012-09-08
PUT13U0001	PUTNAM, E ECOLOGY, PHYLOGENETICS AND CONSERVATION OF DRABA ASTEROPHORA COMPLEX: A RARE, ALPINE, ENDEMIC FROM LAKE TAHOE, USA 2013-12-XX
RAM15F0004	RAMBO, M. & C. ROWE (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2015-08-25
RAM15F0005	RAMBO, M. & C. ROWE (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2015-08-25
SHA37S0007	SHARSMITH, C SHARSMITH #3472 UC #1195340, CAS #870098 1937-08-30
SHA37S0008	SHARSMITH, C SHARSMITH #3503 UC #1195337, CAS #870099 1937-08-30
SHA37S0009	SHARSMITH, C SHARSMITH #3502 UC #1195338, CAS #870100 1937-08-30
SMI70S0001	SMITH, G. & A. NEILSON - SMITH #2684 JEPS #72051 1970-08-26
SMI70S0005	SMITH, G SMITH #2682 JEPS #72052 1970-08-26
SMI70S0006	SMITH, G. & A. NEILSON - SMITH #2685 JEPS #72050 1970-08-26
SMI74U0009	SMITH, D CNPS NOTE CARD EO #2 1974-07-21
STE15F0012	STEVENS, V. & C. ROWE (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2015-08-25
TAY70S0001	TAYLOR, D TAYLOR #0672 FSC 1970-08-15
TAY70S0005	TAYLOR, D TAYLOR #669 UC #1548493 1970-08-15
THO04F0013	THOMAS, K FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-31
THO04F0014	THOMAS, K FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-31
THO04F0015	THOMAS, K FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-31
USF15D0004	U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT - LAKE TAHOE BASIN MANAGEMENT UNIT 2015 RARE PLANT DATA 2015-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	14554		EO Index:	20536		
Key Quad:	Freel Peak (38	311978)	Element Code:	PDBRA110	01	
Occurrence Number:	4		Occurrence Last U	pdated: 2016-09-08		
Scientific Name: D	raba asterophora	a var. asterophora	Common Name:	Tahoe draba		
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	USFS_S-Sensitive		
CNDDB Element Rank	s: Global:	G2T2?				
	State:	S2?				
General Habitat:			Micro Habitat:			
ALPINE BOULDER AND FOREST.	D ROCK FIELD,	SUBALPINE CONIFEROUS		GLOPES, ROCK OUTCR ANITE. 2770-3505 M.	OPS, AND CREV	ICES. ON
Last Date Observed:	2015-09-24		Occurrence Type:	Natural/Native occurre	nce	
Last Survey Date:	2015-09-24		Occurrence Rank:	Good		
Owner/Manager:	USFS-LAKE T/	AHOE BMU	Trend:	Unknown		
Presence:	Presumed Exta	int				
Location:						
SOUTH END OF STAR	LAKE, ON SLOP	PE BELOW JOBS SISTERS RIDG	E, CARSON RANGE, SE O	OF LAKE TAHOE.		
Detailed Location:						
		ACCORDING TO A 2003 GROSS ASA1I, 1J, 1L & 1M. GROSS (200				
Ecological:						
		I HEMLOCK FOREST. ASSOCIA ⁻ NESTUS EXIMIUS, HIERACIUM H			,	
Threats:						
FOOT TRAFFIC FROM	HIKERS ALONG	G TAHOE RIM TRAIL. STAR LAKE	E IS SOMETIMES USED AS	S A CAMPSITE. MUCH	OF POP ON STE	EP SLOPES.
General:						
		00 PLANTS SEEN IN 1991, >500 WO SE POLYGONS IN 2012, 100		1138 IN 2003, 1340-159) IN 2009, 6 PLAN	NTS IN W
		A	specific area	A	rea (acres):	•
PLSS: T12N, R19E, S	Sec. 30, SE (M)	Accuracy:	Specific area		a ca (aci c3).	9
PLSS: T12N, R19E, S UTM: Zone-11 N4300		Accuracy: Latitude/Longitude:	38.8719 / -119.88754		levation (feet):	9 9,400

El Dorado

Freel Peak (3811978)



California Department of Fish and Wildlife



Sources:	
ALL91F0009	ALLESSIO, D FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1991-07-09
ALL92F0003	ALLESSIO, L FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1992-07-19
ALL93F0012	ALLESSIO, L FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1993-09-05
ENG10F0009	ENGELHARDT, B. (U.S. FOREST SERVICE) - FIELD SURVEY FORM FOR TONESTUS EXIMIUS & DRABA ASTEROPHORA VAR. ASTEROPHORA 2010-08-25
EVA20S0001	EVANS, H EVANS SN UC #311228 1920-06-11
GRO03F0002	GROSS, S. ET AL FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2003-08-07
GR003F0003	GROSS, S. ET AL FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2003-08-07
GR003F0004	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2003-08-07
GRO03F0005	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2003-08-07
HEA09F0025	HEARD, K. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-07-22
HEA09F0027	HEARD, K. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-07-22
JEN09F0020	JENNINGS, M. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-07-22
MCK12F0013	MCKNIGHT, S. & D. UZES (U.S. FOREST SERVICE) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2012-08-08
MCK12F0022	MCKNIGHT, S. & D. UZES (U.S. FOREST SERVICE) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2012-08-08
STE15F0013	STEVENS, V. & C. ROWE (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2015-09-24
USF15D0004	U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT - LAKE TAHOE BASIN MANAGEMENT UNIT 2015 RARE PLANT DATA 2015-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	51156		EO Index:		51156	
Key Quad:	Woodfords (38	811977)	Element Code:		PDBRA110D1	
Occurrence Number:	7		Occurrence Last U	pdated:	2003-04-29	
Scientific Name: D	raba asterophora	a var. asterophora	Common Name:	Tahoe dra	aba	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	USFS_S-	Sensitive	
CNDDB Element Ranks	s: Global:	G2T2?				
	State:	S2?				
General Habitat:			Micro Habitat:			
ALPINE BOULDER AND FOREST.	O ROCK FIELD,	SUBALPINE CONIFEROUS	ON OPEN TALUS S DECOMPOSED GR		OCK OUTCROPS, AND CRE 70-3505 M.	VICES. ON
Last Date Observed:	1989-07-12		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1989-07-12		Occurrence Rank:	Excellen	ıt	
Last Survey Date.						
•	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	n	
Owner/Manager: Presence:	USFS-HUMBO Presumed Exta	-	Trend:	Unknow	n	
Owner/Manager: Presence:		-	Trend:	Unknow	n	
Owner/Manager: Presence: Location: NORTH AND NORTHW	Presumed Exta	-				OF LAKE
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE.	Presumed Exta	ant				DF LAKE
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A	Presumed Exta	ant	RIDGE CONNECTING TO	JOBS SIS	TER, CARSON RANGE, SE (
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33.	Presumed Exta	ant LOPES OF JOBS PEAK, ALONG R	RIDGE CONNECTING TO	JOBS SIS	TER, CARSON RANGE, SE (
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMM	Presumed Exta EST FACING SI CCORDING TO JNITY WITH LO	ANT LOPES OF JOBS PEAK, ALONG R T-R-S PROVIDED BY DOYLE: T12 W GROWING FLOWERING PLAN	RIDGE CONNECTING TO 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT	JOBS SIS SE 1/4 OF ENSIANA	TER, CARSON RANGE, SE (SECTION 32 AND THE NW	1/4 OF THE S
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMMI DECOMPOSED GRANI	Presumed Exta EST FACING SI CCORDING TO JNITY WITH LO	ant LOPES OF JOBS PEAK, ALONG R T-R-S PROVIDED BY DOYLE: T12	RIDGE CONNECTING TO 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT	JOBS SIS SE 1/4 OF ENSIANA	TER, CARSON RANGE, SE (SECTION 32 AND THE NW	1/4 OF THE S
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMMI DECOMPOSED GRANI Threats:	Presumed Exta EST FACING SL CCORDING TO JNITY WITH LO TIC SOILS AND	ANT LOPES OF JOBS PEAK, ALONG R T-R-S PROVIDED BY DOYLE: T12 W GROWING FLOWERING PLAN	RIDGE CONNECTING TO A 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT SE OF VEGETATION OVE	Jobs Sis Se 1/4 Of Ensiana Erall.	TER, CARSON RANGE, SE (SECTION 32 AND THE NW AND PINUS ALBICAULIS AL	1/4 OF THE S
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMMI DECOMPOSED GRANI Threats:	Presumed Exta EST FACING SL CCORDING TO JNITY WITH LO TIC SOILS AND	ant LOPES OF JOBS PEAK, ALONG R T-R-S PROVIDED BY DOYLE: T12 W GROWING FLOWERING PLAN ROCK OUTCROPS, AREA SPAR	RIDGE CONNECTING TO A 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT SE OF VEGETATION OVE	Jobs Sis Se 1/4 Of Ensiana Erall.	TER, CARSON RANGE, SE (SECTION 32 AND THE NW AND PINUS ALBICAULIS AL	1/4 OF THE S
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMMI DECOMPOSED GRANI Threats: CASUAL HIKER USE. N General: MORE THAN 2000 PLA	Presumed Exta EST FACING SI CCORDING TO JNITY WITH LO TIC SOILS AND IO TRAIL EXIST	ant LOPES OF JOBS PEAK, ALONG R T-R-S PROVIDED BY DOYLE: T12 W GROWING FLOWERING PLAN ROCK OUTCROPS, AREA SPAR	RIDGE CONNECTING TO A 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT SE OF VEGETATION OVE DUNTRY HIKING IS ONLY COULD BE CONSIDERED	JOBS SIS SE 1/4 OF ENSIANA ERALL. ACCESS.	TER, CARSON RANGE, SE (SECTION 32 AND THE NW AND PINUS ALBICAULIS AL	1/4 OF THE S
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMMU DECOMPOSED GRANI Threats: CASUAL HIKER USE. N General: MORE THAN 2000 PLA (OCCURRENCE #1) AC	Presumed Exta EST FACING SI CCORDING TO JNITY WITH LO TIC SOILS AND IO TRAIL EXIST NTS OBSERVEI	ANT LOPES OF JOBS PEAK, ALONG R T-R-S PROVIDED BY DOYLE: T12 W GROWING FLOWERING PLAN ROCK OUTCROPS, AREA SPAR TS TO THIS AREA, SO CROSS-CC D BY DOYLE IN 1989. THIS SITE (RIDGE CONNECTING TO A 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT SE OF VEGETATION OVE DUNTRY HIKING IS ONLY COULD BE CONSIDERED	JOBS SIS SE 1/4 OF ENSIANA ERALL. ACCESS.	TER, CARSON RANGE, SE (SECTION 32 AND THE NW AND PINUS ALBICAULIS AL	1/4 OF THE S
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMMI DECOMPOSED GRANI Threats: CASUAL HIKER USE. N General: MORE THAN 2000 PLA (OCCURRENCE #1) ACC PLSS: T12N, R19E, S	Presumed Exta EST FACING SI CCORDING TO JNITY WITH LO TIC SOILS AND IO TRAIL EXIST NTS OBSERVEI CORDING TO S ec. 33, SW (M)	T-R-S PROVIDED BY DOYLE: T12 W GROWING FLOWERING PLAN ROCK OUTCROPS, AREA SPAR S TO THIS AREA, SO CROSS-CC D BY DOYLE IN 1989. THIS SITE GOURCE (BUT IT IS MORE THAN	RIDGE CONNECTING TO A 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT SE OF VEGETATION OVE DUNTRY HIKING IS ONLY COULD BE CONSIDERED 0.25 MI AWAY).	JOBS SIS SE 1/4 OF ENSIANA ERALL. ACCESS.	TER, CARSON RANGE, SE (SECTION 32 AND THE NW AND PINUS ALBICAULIS AL	1/4 OF THE S SO PRESEN BS SISTER 86
Owner/Manager: Presence: Location: NORTH AND NORTHW TAHOE. Detailed Location: MAPPED BY CNDDB A 1/4 OF SECTION 33. Ecological: ALPINE PLANT COMMU DECOMPOSED GRANI Threats: CASUAL HIKER USE. N General: MORE THAN 2000 PLA (OCCURRENCE #1) ACC PLSS: T12N, R19E, S	Presumed Exta EST FACING SI CCORDING TO JNITY WITH LO TIC SOILS AND IO TRAIL EXIST NTS OBSERVEI CORDING TO S ec. 33, SW (M)	Ant LOPES OF JOBS PEAK, ALONG R T-R-S PROVIDED BY DOYLE: T12 W GROWING FLOWERING PLAN ROCK OUTCROPS, AREA SPAR TS TO THIS AREA, SO CROSS-CC D BY DOYLE IN 1989. THIS SITE O SOURCE (BUT IT IS MORE THAN Accuracy:	RIDGE CONNECTING TO A 2N R19E NE 1/4 OF THE S ITS. SOME TSUGA MERT SE OF VEGETATION OVE DUNTRY HIKING IS ONLY COULD BE CONSIDERED 0.25 MI AWAY). non-specific area	JOBS SIS SE 1/4 OF ENSIANA ERALL. ACCESS.	TER, CARSON RANGE, SE (SECTION 32 AND THE NW AND PINUS ALBICAULIS AL THE POPULATION ON JOE Area (acres):	1/4 OF THE S SO PRESEN BS SISTER 86

DOY89F0001 DOYLE, L. - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1989-07-12



California Department of Fish and Wildlife



Map Index Number:				
-	51158		EO Index:	51158
Key Quad:	Freel Peak (38	311978)	Element Code:	PDBRA110D1
Occurrence Number:	9		Occurrence Last Up	odated: 2016-08-26
Scientific Name: D	raba asterophora	a var. asterophora	Common Name:	Tahoe draba
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2
	State:	None	Other Lists:	USFS_S-Sensitive
CNDDB Element Ranks	s: Global:	G2T2?		
	State:	S2?		
General Habitat:			Micro Habitat:	
ALPINE BOULDER AND FOREST.	D ROCK FIELD,	SUBALPINE CONIFEROUS		LOPES, ROCK OUTCROPS, AND CREVICES. ON ANITE. 2770-3505 M.
Last Date Observed:	2015-08-25		Occurrence Type:	Natural/Native occurrence
ast Survey Date:	2015-08-25		Occurrence Rank:	Good
Owner/Manager:	USFS-LAKE TA	AHOE BMU	Trend:	Unknown
Presence:	Presumed Exta	nt		
_ocation:				
		S NORTHWEST OF FREEL PEAK,	, SOUTH OF TRIMMER P	EAK, CARSON RANGE, SE OF LAKE TAHOE.
PPROXIVIATELY 0.7	101.7 AIR MILE			
	TO 1.7 AIR MILE			
Detailed Location:	ONS ACCORDIN	IG TO A 2004 GROSS MAP & 2015 FOREST SERVICE POPULATION		ERN POLYGONS) AND 2011 & 2012 COORDINATES , 1K, 1N.
Detailed Location: //APPED AS 8 POLYGO 3 WESTERN POLYGO	ONS ACCORDIN			
Detailed Location: MAPPED AS 8 POLYGO 3 WESTERN POLYGO Scological: DRY GRANITIC SCREE	ONS ACCORDIN NS). INCLUDES E. DOMINANT PL	FOREST SERVICE POPULATION	IS: DRASA1E, 1F, 1G, 1H,	, 1K, 1N. ACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINUS
Detailed Location: MAPPED AS 8 POLYGO 3 WESTERN POLYGO Ecological: DRY GRANITIC SCREE NEBICAULIS, POLYGO	ONS ACCORDIN NS). INCLUDES E. DOMINANT PL	FOREST SERVICE POPULATION	IS: DRASA1E, 1F, 1G, 1H,	, 1K, 1N. ACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINU
Detailed Location: MAPPED AS 8 POLYGO 3 WESTERN POLYGO Cological: DRY GRANITIC SCREE MEDICAULIS, POLYGO Threats:	ONS ACCORDIN NS). INCLUDES E. DOMINANT PL NUM SHASTEN:	FOREST SERVICE POPULATION LANT SPECIES INCLUDE ARABIS SE, SILENE SP., CALYPTRIDIUM U	IS: DRASA1E, 1F, 1G, 1H, PLATYSPERMA, CHAEN JMBELLATUM, CASTILLE	, 1K, 1N. ACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINU
Detailed Location: MAPPED AS 8 POLYGO 3 WESTERN POLYGO Ecological: DRY GRANITIC SCREE ALBICAULIS, POLYGO Fhreats: FRAIL IN VICINITY OF	ONS ACCORDIN NS). INCLUDES E. DOMINANT PL NUM SHASTEN:	FOREST SERVICE POPULATION LANT SPECIES INCLUDE ARABIS SE, SILENE SP., CALYPTRIDIUM U	IS: DRASA1E, 1F, 1G, 1H, PLATYSPERMA, CHAEN JMBELLATUM, CASTILLE	, 1K, 1N. IACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINUS EJA NANA, CAREX SP, ETC.
Detailed Location: MAPPED AS 8 POLYGO 3 WESTERN POLYGO Ecological: DRY GRANITIC SCREE ALBICAULIS, POLYGO I'hreats: I'RAIL IN VICINITY OF General: 1000+ IN 1989, 500 IN 1	ONS ACCORDIN INS). INCLUDES E. DOMINANT PL NUM SHASTEN POPULATIONS; 1990, ~400 IN 19	FOREST SERVICE POPULATION LANT SPECIES INCLUDE ARABIS SE, SILENE SP., CALYPTRIDIUM U HOWEVER, NOT MANY PEOPLE	IS: DRASA1E, 1F, 1G, 1H, PLATYSPERMA, CHAEN JMBELLATUM, CASTILLE WOULD HIKE OFF TRAIL	, 1K, 1N. IACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINUS EJA NANA, CAREX SP, ETC.
Detailed Location: MAPPED AS 8 POLYGO (3 WESTERN POLYGO Ecological: DRY GRANITIC SCREE ALBICAULIS, POLYGO Inreats: IRAIL IN VICINITY OF General: 1000+ IN 1989, 500 IN 1	ONS ACCORDIN INS). INCLUDES E. DOMINANT PL NUM SHASTEN POPULATIONS; 1990, ~400 IN 19 FERN POLYGON	FOREST SERVICE POPULATION ANT SPECIES INCLUDE ARABIS SE, SILENE SP., CALYPTRIDIUM U HOWEVER, NOT MANY PEOPLE 93. 5 EASTERN POLYGONS: A TO IS: 224 PLANTS IN 2011 AND 168	IS: DRASA1E, 1F, 1G, 1H, PLATYSPERMA, CHAEN JMBELLATUM, CASTILLE WOULD HIKE OFF TRAIL	, 1K, 1N. IACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINUS EJA NANA, CAREX SP, ETC. L AND THIS IS LIKELY NOT A THREAT.
Detailed Location: MAPPED AS 8 POLYGO 3 WESTERN POLYGO Ecological: DRY GRANITIC SCREE ALBICAULIS, POLYGO I'hreats: TRAIL IN VICINITY OF General: 000+ IN 1989, 500 IN 1 5000+ IN 2015. 3 WEST PLSS: T12N, R18E, S	ONS ACCORDIN NS). INCLUDES E. DOMINANT PL NUM SHASTEN POPULATIONS; 1990, ~400 IN 19 FERN POLYGON Sec. 25, NE (M)	FOREST SERVICE POPULATION LANT SPECIES INCLUDE ARABIS SE, SILENE SP., CALYPTRIDIUM U HOWEVER, NOT MANY PEOPLE 193. 5 EASTERN POLYGONS: A TO IS: 224 PLANTS IN 2011 AND 168 Accuracy:	IS: DRASA1E, 1F, 1G, 1H, PLATYSPERMA, CHAEN JMBELLATUM, CASTILLE WOULD HIKE OFF TRAIL DTAL OF 2204 PLANTS O PLANTS IN 2012.	, 1K, 1N. IACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINUS EJA NANA, CAREX SP, ETC. L AND THIS IS LIKELY NOT A THREAT. DBSERVED IN 2004, 1105-2255 PLANTS IN 2009,
Detailed Location: MAPPED AS 8 POLYGO 3 WESTERN POLYGO Ecological: DRY GRANITIC SCREE ALBICAULIS, POLYGO Inreats: IRAIL IN VICINITY OF General: 1000+ IN 1989, 500 IN 1 5000+ IN 2015. 3 WEST PLSS: T12N, R18E, S	ONS ACCORDIN NS). INCLUDES E. DOMINANT PL NUM SHASTEN POPULATIONS; 1990, ~400 IN 19 FERN POLYGON Sec. 25, NE (M)	FOREST SERVICE POPULATION LANT SPECIES INCLUDE ARABIS SE, SILENE SP., CALYPTRIDIUM U HOWEVER, NOT MANY PEOPLE 193. 5 EASTERN POLYGONS: A TO IS: 224 PLANTS IN 2011 AND 168 Accuracy:	IS: DRASA1E, 1F, 1G, 1H, PLATYSPERMA, CHAEN JMBELLATUM, CASTILLE WOULD HIKE OFF TRAIL DTAL OF 2204 PLANTS O PLANTS IN 2012. specific area	, 1K, 1N. IACTIS SP, ERIOGONUM INCANUM, E. LOBBII, PINUS EJA NANA, CAREX SP, ETC. L AND THIS IS LIKELY NOT A THREAT. IBSERVED IN 2004, 1105-2255 PLANTS IN 2009, Area (acres): 18





Sources:	
DOY89F0002	DOYLE, L FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1989-07-13
ENG11F0016	ENGELHARDT, B. & C. MCKERNAN - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2011-09-22
GRO04F0017	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-11
GRO04F0018	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-11
GRO04F0019	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-11
GRO04F0020	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-11
GRO04F0021	GROSS, S FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2004-08-11
HEA09F0026	HEARD, K. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
HEA09F0032	HEARD, K. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
IRI93F0003	IRIBARNE, D. & T. KUNDERT - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1993-07-29
IRI93F0004	IRIBARNE, D. & T. KUNDERT - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1993-07-29
IRI93F0005	IRIBARNE, D. & T. KUNDERT - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1993-07-29
JEN09F0016	JENNINGS, M. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
JEN09F0017	JENNINGS, M. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
JEN09F0018	JENNINGS, M. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2009-08-18
KUN90F0005	KUNDERT, A FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 1990-07-11
MCK12F0023	MCKNIGHT, S. & J. FEDORCHUK (U.S. FOREST SERVICE) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2012-09-10
RAM15F0006	RAMBO, M. & C. ROWE (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR DRABA ASTEROPHORA VAR. ASTEROPHORA 2015-08-25
USF15D0004	U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT - LAKE TAHOE BASIN MANAGEMENT UNIT 2015 RARE PLANT DATA 2015-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	88738		EO Index:		89746
Key Quad:	Caples Lake ((3812061)	Element Code:		PDBRA110D1
Occurrence Number:	14		Occurrence Last U	pdated:	2015-07-21
Scientific Name: Dr	aba asterophora	a var. asterophora	Common Name:	Tahoe dr	aba
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2	
	State:	None	Other Lists:	USFS_S-	-Sensitive
CNDDB Element Ranks	: Global:	G2T2?			
	State:	S2?			
General Habitat:			Micro Habitat:		
ALPINE BOULDER AND FOREST.	ROCK FIELD,	SUBALPINE CONIFEROUS	ON OPEN TALUS S DECOMPOSED GR		ROCK OUTCROPS, AND CREVICES. ON 770-3505 M.
Last Date Observed:	1972-07-09		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1972-07-09		Occurrence Rank:	Unknow	'n
Owner/Manager:	USFS-ELDOR	ADO NF	Trend:	Unknow	'n
Presence:	Presumed Exta	ant			
Location:					
NORTH-FACING SLOPE	E OF ROUND T	OP, SOUTH OF CARSON PASS.			
Detailed Location:					
		ED BY CNDDB AS BEST GUESS IORA OUTSIDE THE LAKE TAHO			ON. MOREFIELD NOTES THAT
Ecological:					
ABOVE TIMBERLINE O	N GRANITIC SU	JBSTRATE.			
Threats:					
General:					
		OR THIS SITE IS A 1972 TAYLOR TEROPHORA SINCE THIS LOCAT			TFIED AS "DRABA ASTEROPHORA"; Y'S RANGE.
PLSS: T10N, R18E, S	ec. 33 (M)	Accuracy:	2/5 mile		Area (acres): 0
UTM: Zone-10 N4284	042 E760879	Latitude/Longitude:	38.66656 / -120.00157		Elevation (feet): 9,500
County Summary:		Quad Summary:			
Alpine		Carson Pass (3811968	3), Caples Lake (3812061)		
Sources:					

TAY72S0011 TAYLOR, D. - TAYLOR #1717 DAV #126419 1972-07-09



California Department of Fish and Wildlife



Map Index Numb	ər: 8	8739		EO Index:		89747	
Key Quad:	F	reel Peak (38	311978)	Element Code:		PDBRA110D1	
Occurrence Num	b er: 1	5		Occurrence Last U	pdated:	2016-08-26	
Scientific Name:	Drab	a asterophora	a var. asterophora	Common Name:	Tahoe dr	aba	
Listing Status:		Federal:	None	Rare Plant Rank:	1B.2		
		State:	None	Other Lists:	USFS_S-	Sensitive	
CNDDB Element	Ranks:	Global:	G2T2?				
		State:	S2?				
General Habitat:				Micro Habitat:			
ALPINE BOULDEI FOREST.	R AND R	OCK FIELD,	SUBALPINE CONIFEROUS	ON OPEN TALUS S DECOMPOSED GF		OCK OUTCROPS, AND CREV 70-3505 M.	ICES. ON
Last Date Observ	ed: 20	13-07-30		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date	: 20	13-07-30		Occurrence Rank:	Good		
Owner/Manager:	U	SFS-LAKE TA	AHOE BMU	Trend:	Unknow	n	
Presence:	Pr	esumed Exta	int				
Detailed Locatior N THE FAR WES	:		H OF SOUTHERN EDGE OF 1/4 OF SECTION 12. LTBMU		R MILES S	SW OF FREEL PEAK, CARSO	N RANGE.
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40 BOULDERS. NOR ETC. Threats: General:	: T HALF (50 DEGF TH-FACI	OF THE NW ? REES) SCRE NG SLOPE	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS /	POPULATION DRASA4. TER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN	ND INTER ISIANA, EI	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E	ITE DIVARICAT <i>I</i>
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40: BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB	: T HALF C 50 DEGF TH-FACI SERVED	OF THE NW 7 REES) SCRE NG SLOPE IN 2011, 300	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2	POPULATION DRASA4. TER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN	ND INTER ISIANA, EI CHUTE W	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU	ITE DIVARICAT <i>I</i>
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40- BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB ON BOTH SIDES	: T HALF (50 DEGF TH-FACI SERVED AND EX1	DF THE NW 7 REES) SCRE NG SLOPE IN 2011, 300 FENDS BELC	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2	POPULATION DRASA4. TER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE	ND INTER ISIANA, EI CHUTE W	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU	ITE DIVARICAT <i>I</i>
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40: BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB ON BOTH SIDES PLSS: T11N, R1	: T HALF (50 DEGF TH-FACI SERVED AND EXT 8E, Sec.	DF THE NW 7 REES) SCRE NG SLOPE IN 2011, 300 FENDS BELC	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2 W AND TO THE EAST, SPO	POPULATION DRASA4. TER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE RADICALLY CLUSTERED OV specific area	ND INTER ISIANA, EI CHUTE W	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU	ITE DIVARICAT/ LDER WALI
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40- BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB ON BOTH SIDES PLSS: T11N, R1 UTM: Zone-11	: T HALF (50 DEGF TH-FACI SERVED AND EX1 8E, Sec. N430069	DF THE NW REES) SCRE NG SLOPE IN 2011, 300 ENDS BELC 12, NW (M)	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2 W AND TO THE EAST, SPO Accuracy:	POPULATION DRASA4. TER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE RADICALLY CLUSTERED OV specific area	ND INTER ISIANA, EI CHUTE W	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU TERS. Area (acres):	ITE DIVARICATA LDER WALI 6
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40- BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB ON BOTH SIDES PLSS: T11N, R1 UTM: Zone-11 County Summary	: T HALF (50 DEGF TH-FACI SERVED AND EX1 8E, Sec. N430069	DF THE NW REES) SCRE NG SLOPE IN 2011, 300 ENDS BELC 12, NW (M)	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2 DW AND TO THE EAST, SPO Accuracy: Latitude/Longitud	POPULATION DRASA4. YER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE RADICALLY CLUSTERED OV specific area de: 38.81787 / -119.94635	ND INTER ISIANA, EI CHUTE W	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU TERS. Area (acres):	ITE DIVARICATA LDER WALI 6
Detailed Location N THE FAR WES Ecological: VERY STEEP (40- BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB DN BOTH SIDES PLSS: T11N, R1 UTM: Zone-11 County Summary El Dorado	: T HALF (50 DEGF TH-FACI SERVED AND EX1 8E, Sec. N430069	DF THE NW REES) SCRE NG SLOPE IN 2011, 300 ENDS BELC 12, NW (M)	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2 DW AND TO THE EAST, SPO Accuracy: Latitude/Longitud Quad Summary:	POPULATION DRASA4. YER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE RADICALLY CLUSTERED OV specific area de: 38.81787 / -119.94635	ND INTER ISIANA, EI CHUTE W	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU TERS. Area (acres):	ITE DIVARICATA LDER WALI 6
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40- BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB ON BOTH SIDES PLSS: T11N, R1 UTM: Zone-11 County Summary El Dorado Sources:	: T HALF (50 DEGF TH-FACI SERVED AND EXT 8E, Sec. N430069 :	DF THE NW 7 REES) SCRE NG SLOPE IN 2011, 300 TENDS BELC 12, NW (M) 1 E244193	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2 DW AND TO THE EAST, SPO Accuracy: Latitude/Longitud Quad Summary: Freel Peak (38119	POPULATION DRASA4. YER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE RADICALLY CLUSTERED OV specific area de: 38.81787 / -119.94635	ND INTER ISIANA, Ef CHUTE W ER 180 ME	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU TERS. Area (acres): Elevation (feet):	ITE DIVARICATA LDER WALI 6
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40- BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB ON BOTH SIDES PLSS: T11N, R1 UTM: Zone-11 County Summary El Dorado Sources: CHR11F0039	: T HALF C 50 DEGF TH-FACI SERVED AND EXT 8E, Sec. N430069 : CHRISTI	DF THE NW 7 REES) SCRE NG SLOPE IN 2011, 300 ENDS BELC 12, NW (M) 1 E244193 E, K FIELD	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2 DW AND TO THE EAST, SPO Accuracy: Latitude/Longitud Quad Summary: Freel Peak (38119	POPULATION DRASA4. YER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE RADICALLY CLUSTERED OV specific area de: 38.81787 / -119.94635 178) A ASTEROPHORA VAR. ASTI	ND INTER ISIANA, Ef CHUTE W ER 180 ME	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU TERS. Area (acres): Elevation (feet):	ITE DIVARICATA LDER WALI 6
Detailed Location IN THE FAR WES Ecological: VERY STEEP (40) BOULDERS. NOR ETC. Threats: General: 250+ PLANTS OB ON BOTH SIDES PLSS: T11N, R1 UTM: Zone-11 County Summary El Dorado Sources: CHR11F0039 CHR11S0002 RAM13F0005	: T HALF (50 DEGF TH-FACI SERVED AND EX1 8E, Sec. N430069 : CHRISTI CHRISTI RAMBO,	DF THE NW 7 REES) SCRE NG SLOPE IN 2011, 300 TENDS BELC 12, NW (M) 1 E244193 E, K FIELD E, K FIELD E, K CHRIS M. & W. RAI	1/4 OF SECTION 12. LTBMU E CHUTE. THIN LOOSE LAY ASSOCIATED WITH PINUS / D+ PLANTS ESTIMATED IN 2 DW AND TO THE EAST, SPO Accuracy: Latitude/Longitud Quad Summary: Freel Peak (38119 SURVEY FORM FOR DRAB STIE #2085 SEINET #889281	POPULATION DRASA4. ZER OF DG SCREE ON TOP A ALBICAULIS, TSUGA MERTEN 2013. POPULATION IN SCREE RADICALLY CLUSTERED OV specific area de: 38.81787 / -119.94635 2078) A ASTEROPHORA VAR. ASTI 9, ASC 2011-08-31 CE-LAKE TAHOE BASIN MAN/	ND INTER ISIANA, EF CHUTE W ER 180 ME	SPERSED WITH MANY GRAN RIOGONUM LOBBII, LUZULA E /HICH IS BORDERED BY BOU TERS. Area (acres): Elevation (feet):	ITE DIVARICATA LDER WALI 6 9,100



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	88740		EO Index:	897	49	
Key Quad:	Freel Peak (38	811978)	Element Code:	PDI	BRA110D1	
Occurrence Number:	16		Occurrence Last U	pdated: 201	6-09-08	
Scientific Name: D)raba asterophor	a var. asterophora	Common Name:	Tahoe draba		
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	USFS_S-Sens	itive	
CNDDB Element Rank	s: Global:	G2T2?				
	State:	S2?				
General Habitat:			Micro Habitat:			
ALPINE BOULDER AN FOREST.	D ROCK FIELD,	SUBALPINE CONIFEROUS	ON OPEN TALUS S DECOMPOSED GR		OUTCROPS, AND CREV 505 M.	ICES. ON
Last Date Observed:	2011-08-17		Occurrence Type:	Natural/Native	eoccurrence	
Last Survey Date:	2011-08-17		Occurrence Rank:	Good		
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
APPROXIMATELY 400	METERS NE OF	F JOBS SISTER AND APPROX 9	00 METERS SSE OF STAR	LAKE, EAST C	F FREEL PEAK, CARSO	N RANGE.
Detailed Location:						
IN THE FAR NW 1/4 OF	F THE NW 1/4 O	F SECTION 32. LTBMU POPULA	TION DRASA1P.			
Ecological:						
		EE SLOPE OF LOOSE, DECOMF S, ERIOGONUM LOBBII, HULSE				
Threats:						
VERY FEW VISITORS/	DISTURBANCE	IN THIS AREA.				
General:						
300 PLANTS OBSERVI	ED IN 2011. POF	PULATION COVERS A 50 X 20 M	ETER AREA.			
PLSS: T12N, R19E, S	Sec. 32, NW (M)	Accuracy:	specific area		Area (acres):	1
UTM: Zone-11 N430	5788 E249986	Latitude/Longitude:	38.86541 / -119.88155		Elevation (feet):	10,500
County Summary:		Quad Summary:				
		Freel Peak (3811978)				
El Dorado						
El Dorado Sources:						

CHR11S0001 CHRISTIE, K. - CHRISTIE #2062 SEINET #8892795, ASC 2011-08-17



California Department of Fish and Wildlife



Map Index Number:	B5062		EO Index:	1	17999	
Key Quad:	Carson Pass (3	3811968)	Element Code:	F	DBRA11210	
Occurrence Number:	16		Occurrence Last Up	odated: 2	2020-02-07	
Scientific Name: D	raba praealta		Common Name:	tall draba		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3		
	State:	None	Other Lists:			
CNDDB Element Ranks	s: Global:	G5				
	State:	S3				
General Habitat:			Micro Habitat:			
MEADOWS AND SEEP	S.		MESIC SITES. 2515	-3900 M.		
Last Date Observed:	1974-07-26		Occurrence Type:	Natural/Nat	tive occurrence	
Last Survey Date:	1974-07-26		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDORA	DO NF	Trend:	Unknown		
Presence:	Presumed Extar	nt				
Location:						
NORTH FACING CLIFF	S ALONG DEVIL	S CORRAL CREEK, CARSON P	ASS.			
Detailed Location:						
EXACT LOCATION UN	KNOWN. MAPPE	D AS BEST GUESS BY CNDDB	AROUND NORTH-FACING	SLOPES A	BOVE DEVILS CORRAL CR	EEK.
Ecological:						
MOIST.						
Threats:						
General:						
ONLY SOURCE OF INF 2017. NEEDS FIELDWO		R THIS SITE IS A 1974 TAYLOR	COLLECTION; COLLECTIO	ON ANNOTA	TED TO D. PRAEALTA BY F	R. A. PRICE IN
PLSS: T09N, R18E, S	ec. 15 (M)	Accuracy:	3/5 mile		Area (acres):	776
UTM: Zone-11 N4279	9831 E240758	Latitude/Longitude:	38.62913 / -119.97806		Elevation (feet):	8,400
County Summary:		Quad Summary:				
Alpine		Pacific Valley (381195	8), Carson Pass (3811968)			
Sources:						



California Department of Fish and Wildlife

California Natural Diversity Database



	72978		EO Index:	73889	
Key Quad:	Freel Peak (38	811978)	Element Code:	PDLNT020E0	
Occurrence Number:	5		Occurrence Last U	pdated: 2008-11-21	
Scientific Name: U	Itricularia ochrole	puca	Common Name:	cream-flowered bladderwor	rt
Listing Status:	Federal:	None	Rare Plant Rank:	2B.2	
	State:	None	Other Lists:		
CNDDB Element Ranks	s: Global:	G4G5			
	State:	S1			
General Habitat:			Micro Habitat:		
MEADOWS AND SEEP	S, MARSHES A	ND SWAMPS.	MESIC SITES, INCL	UDING LAKE MARGINS. 1	310-2350 M.
Last Date Observed:	2004-08-07		Occurrence Type:	Natural/Native occurrence	1
Last Survey Date:	2004-08-07		Occurrence Rank:	Unknown	
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknown	
Presence:	Presumed Exta	ant			
Location:					
Loodion.					
	UTHER PASS.				
GRASS LAKE, NEAR L	UTHER PASS.				
GRASS LAKE, NEAR L Detailed Location:		TE INFORMATION MENTIONED	IN A 2005 RICE ARTICLE;	DATUM UNKNOWN.	
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING		TE INFORMATION MENTIONED	IN A 2005 RICE ARTICLE;	DATUM UNKNOWN.	
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING Ecological:	TO COORDINA	TE INFORMATION MENTIONED OF WATER ON THE FLOATING		DATUM UNKNOWN.	
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING Ecological: IN STERILE CONDITIO	TO COORDINA			DATUM UNKNOWN.	
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING Ecological: IN STERILE CONDITIO Threats:	TO COORDINA			DATUM UNKNOWN.	
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING Ecological: IN STERILE CONDITIO Threats: General:	TO COORDINA	OF WATER ON THE FLOATING		DATUM UNKNOWN.	
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING Ecological: IN STERILE CONDITIO Threats:	TO COORDINA IN IN A FEW CM N FIRST DOCUM	OF WATER ON THE FLOATING			a (acres) : 0
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING Ecological: IN STERILE CONDITIO Threats: General: A SMALL POPULATION PLSS: T11N, R18E, S	TO COORDINA N IN A FEW CM N FIRST DOCUM Sec. 14, SW (M)	OF WATER ON THE FLOATING IENTED IN 2004.	VEGETATION MAT.	Area	a (acres): 0 ration (feet): 7,710
GRASS LAKE, NEAR L Detailed Location: MAPPED ACCORDING Ecological: IN STERILE CONDITIO Threats: General: A SMALL POPULATION PLSS: T11N, R18E, S	TO COORDINA N IN A FEW CM N FIRST DOCUM Sec. 14, SW (M)	OF WATER ON THE FLOATING IENTED IN 2004. Accuracy:	VEGETATION MAT. 80 meters	Area	

RIC05A0001 RICE, B. - NOTEWORTHY COLLECTIONS. MADRONO 52(4): 272. 2005-01-01



California Department of Fish and Wildlife



Map Index Numbe	r: 14440		EO Index:	43278
Key Quad:	Freel Peak (381197	78)	Element Code:	PDONA060R0
Occurrence Numb	er: 1		Occurrence Last Update	d: 2000-07-28
Scientific Name:	Epilobium palustre		Common Name: mars	h willowherb
Listing Status:	Federal: No	one	Rare Plant Rank: 2B.3	
	State: No	one	Other Lists:	
CNDDB Element R	anks: Global: G5	5		
	State: S2	2		
General Habitat:			Micro Habitat:	
BOGS AND FENS,	MEADOWS AND SEEPS	i.	MESIC SITES. 1655-2350	Μ.
Last Date Observe	ed: XXXX-XX-XX		Occurrence Type: Nati	ural/Native occurrence
Last Survey Date:	XXXX-XX-XX		Occurrence Rank: Unk	nown
Owner/Manager:	USFS-LAKE TAHOE	E BMU	Trend: Unk	nown
Presence:	Presumed Extant			
Location:				
GRASS LAKE. ABC	OUT 1.2 MILES NORTH O	F WATERHOUSE PEAK.		
Detailed Location:				
	UNKNOWN. MAPPED IN	N BOGGY AREAS AROUND (GRASS LAKE.	
Ecological:				
Threats:				
General:				
PLSS: T11N, R18	3E, Sec. 23 (M)	Accuracy:	specific area	Area (acres): 292
UTM: Zone-11 N	I4297755 E242759	Latitude/Longitude:	38.79104 / -119.96175	Elevation (feet): 7,700
County Summary:		Quad Summary:		
El Dorado		Freel Peak (3811978)		
Sources:				
CLI96U0003 C	LIFTON, G INVENTOR	Y 6 PROPOSED CHANGES	REVIEW (INCLUDES INFO FOR	SEVERAL TAXA) 1996-02-06
	CNPS RARE PLANT PROC PALUSTRE. 1998-04-13	GRAM - RPSAC REGIONAL (GROUP FINAL RECOMMENDAT	FION (NEW ADDITION) FOR EPILOBIUM
JEP93B0001 J	EPSON, W MANUAL OI	F THE FLOWERING PLANTS	OF CALIFORNIA 1993-XX-XX	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	72778		EO Index:	73618
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	PDONA06180
Occurrence Number:	16		Occurrence Last Updated:	2008-11-18
Scientific Name: E	pilobium howellii		Common Name: subalpine	e fireweed
Listing Status:	Federal:	None	Rare Plant Rank: 4.3	
	State:	None	Other Lists:	
CNDDB Element Ranks	: Global:	G4		
	State:	S4		
General Habitat:			Micro Habitat:	
MEADOWS AND SEEPS	S, SUBALPINE (CONIFEROUS FOREST.	WET MEADOWS, MOSSY SE	EPS. 2000-3120 M.
Last Date Observed:	2007-07-31		Occurrence Type: Natural/	Native occurrence
Last Survey Date:	2007-07-31		Occurrence Rank: Unknow	'n
Owner/Manager:	USFS-STANIS	LAUS NF	Trend: Unknow	'n
Presence:	Presumed Exta	nt		
Location:				
E END OF WILLOW ME	ADOW NEAR G	ROUSE CREEK, SW OF BLACK	DOME.	
Detailed Location:				
		EAM AND TO THE RIGHT OF THE SW1/4 OF THE SW1/4 OF THE SE1/4 OF SE		O TRS INFORMATION ON A 2007 HAMILTON
Ecological:				
LODGEPOLE PINE, RE	D FIRE, WILLO	V, CORN LILY, EPILOBIUM, MIM	IULUS, PURPLE ERIGERON, ALDEF	R. IN SANDY, DECOMPOSED GRANITE.
Threats:				
POSSIBLE THREATS IN	NCL "CATTLE TI	RAIL WITHIN 10 FT, SOME POCI	K MARK FROM CATTLE, WASHOUT	OF STREAM BANK POSSIBLE".
General:				
<50 PLANTS SEEN IN 2	2007.			
PLSS: T08N, R19E, S	ec. 23, SE (M)	Accuracy:	non-specific area	Area (acres): 51
UTM: Zone-11 N4268	8030 E251292	Latitude/Longitude:	38.52594 / -119.85297	Elevation (feet): 7,000
County Summary:		Quad Summary:		
Alpine		Ebbetts Pass (381195	7)	
Sources:				

HAM07F0003 HAMILTON, K. & R. CARTER - FIELD SURVEY FORM FOR EPILOBIUM HOWELLII 2007-07-31



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	72779		EO Index:		73619	
Key Quad:	Freel Peak (381	1978)	Element Code:		PDONA06180	
Occurrence Number:	17		Occurrence Last U	odated:	2008-11-03	
Scientific Name:	Epilobium howellii		Common Name:	subalpine	fireweed	
Listing Status:	Federal:	None	Rare Plant Rank:	4.3		
	State:	None	Other Lists:			
CNDDB Element Ranl	s: Global:	G4				
	State:	S4				
General Habitat:			Micro Habitat:			
MEADOWS AND SEE	PS, SUBALPINE CO	ONIFEROUS FOREST.	WET MEADOWS, M	OSSY SE	EPS. 2000-3120 M.	
Last Date Observed:	2007-07-02		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2007-07-02		Occurrence Rank:	Good		
Owner/Manager:	USFS-LAKE TAF	HOE BMU	Trend:	Unknow	n	
Presence:	Presumed Extant	t				
Location:						
AT THE END OF FOUI	NTAIN PLACE/ONE	EIDAS ROAD, SW OF TRIMMER	R PEAK.			
Detailed Location:						
		TES FROM GROSS & OSBRAG D & E SIDE OF STREAM WHIL				
Ecological:						
		OWING VEGETATION WITH A TUS, EPILOBIUM CILIATUM, S				
Threats:						
FOREST SYSTEM TR	AIL AND RECREAT	FIONAL USE.				
General:						
50 PLANTS SEEN IN 2	007 (25 PLANTS IN	N EACH COLONY).				
PLSS: T12N, R18E,	Sec. 25, SW (M)	Accuracy:	80 meters		Area (acres):	0
UTM: Zone-11 N430	4876 E244845	Latitude/Longitude:	38.85572 / -119.94039		Elevation (feet):	7,640
County Summary:		Quad Summary:				
El Dorado		Freel Peak (3811978)				

Sources:

GR007F0002 GROSS, S. & S. OSBRACK - FIELD SURVEY FORM FOR EPILOBIUM HOWELLII 2007-07-02



California Department of Fish and Wildlife

California Natural Diversity Database



	72780		EO Index:	73620
Key Quad:	Freel Peak (38	311978)	Element Code:	PDONA06180
Occurrence Number:	18		Occurrence Last Update	d: 2008-11-03
Scientific Name: E	pilobium howellii		Common Name: suba	lpine fireweed
Listing Status:	Federal:	None	Rare Plant Rank: 4.3	
	State:	None	Other Lists:	
CNDDB Element Ranks	s: Global:	G4		
	State:	S4		
General Habitat:			Micro Habitat:	
MEADOWS AND SEEP	S, SUBALPINE (CONIFEROUS FOREST.	WET MEADOWS, MOSSY	ŚEEPS. 2000-3120 M.
Last Date Observed:	2006-08-10		Occurrence Type: Nate	ural/Native occurrence
Last Survey Date:	2006-08-10		Occurrence Rank: Goo	d
Owner/Manager:	USFS-LAKE TA	AHOE BMU	Trend: Unk	nown
Presence:	Presumed Exta	int		
Location:				
APPROXIMATELY 0.4 A	AIR MI SSW OF	FOUNTAIN PLACE, NW OF ARM	STRONG PASS.	
Detailed Location:			N TRAIL BY ES GATE ABOUT 1	MI TO STREAM CROSSING. POPULATION
DRIVE TO THE END OF		EEK. MAPPED ACCORDING TO 2		
DRIVE TO THE END OF				
DRIVE TO THE END OF LOCATED ON SE SIDE Ecological: SMALL STREAM CROS	OF SMALL CRE	EEK. MAPPED ACCORDING TO 2	2006 GPS COORDINATES FROM	
DRIVE TO THE END OF LOCATED ON SE SIDE Ecological: SMALL STREAM CROS TRIFOLIUM MONANTH	OF SMALL CRE	EEK. MAPPED ACCORDING TO 2	2006 GPS COORDINATES FROM	M OSBRACK. ECIES FOUND INCLUDE ALNUS INCANA,
DRIVE TO THE END OF LOCATED ON SE SIDE Ecological: SMALL STREAM CROS TRIFOLIUM MONANTH ETC.	OF SMALL CRE	EEK. MAPPED ACCORDING TO 2	2006 GPS COORDINATES FROM	M OSBRACK. ECIES FOUND INCLUDE ALNUS INCANA,
DRIVE TO THE END OF LOCATED ON SE SIDE Ecological: SMALL STREAM CROS TRIFOLIUM MONANTH ETC. Threats:	OF SMALL CRE SSING AN EXIST UM V. MONANT	EEK. MAPPED ACCORDING TO 2	2006 GPS COORDINATES FROM	M OSBRACK. ECIES FOUND INCLUDE ALNUS INCANA,
DRIVE TO THE END OF LOCATED ON SE SIDE Ecological: SMALL STREAM CROS TRIFOLIUM MONANTH ETC. Threats: General:	OF SMALL CRE SSING AN EXIST UM V. MONANT 2006.	EEK. MAPPED ACCORDING TO 2	2006 GPS COORDINATES FROM	M OSBRACK. ECIES FOUND INCLUDE ALNUS INCANA,
DRIVE TO THE END OF LOCATED ON SE SIDE Ecological: SMALL STREAM CROS TRIFOLIUM MONANTH ETC. Threats: General: 100 PLANTS SEEN IN 2	OF SMALL CRE SSING AN EXIST UM V. MONANT 2006. Sec. 36, NW (M)	EEK. MAPPED ACCORDING TO 2	2006 GPS COORDINATES FROM ED OPENING. ASSOCIATED SPE UM, MIMULUS GUTTATUS, SEN	M OSBRACK. ECIES FOUND INCLUDE ALNUS INCANA, IECIO TRIANGULARIS, EPILOBIUM CILIATU:
DRIVE TO THE END OF LOCATED ON SE SIDE Ecological: SMALL STREAM CROS TRIFOLIUM MONANTH ETC. Threats: General: 100 PLANTS SEEN IN 2 PLSS: T12N, R18E, S	OF SMALL CRE SSING AN EXIST UM V. MONANT 2006. Sec. 36, NW (M)	EEK. MAPPED ACCORDING TO 2 TING TRAIL WITH SMALL SHADE HUM, VERATRUM CALIFORNICI	2006 GPS COORDINATES FROM ED OPENING. ASSOCIATED SPE UM, MIMULUS GUTTATUS, SEN 80 meters	M OSBRACK. ECIES FOUND INCLUDE ALNUS INCANA, IECIO TRIANGULARIS, EPILOBIUM CILIATU: Area (acres): 0

Sources:

OSB06F0001 OSBRACK, S. - FIELD SURVEY FORM FOR EPILOBIUM HOWELLII 2006-08-10



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 72	2781		EO Index:	73621
Key Quad: F	reel Peak (38	11978)	Element Code:	PDONA06180
Occurrence Number: 1	9		Occurrence Last Updated:	2008-11-03
Scientific Name: Epilol	bium howellii		Common Name: subalpine	e fireweed
Listing Status:	Federal:	None	Rare Plant Rank: 4.3	
	State:	None	Other Lists:	
CNDDB Element Ranks:	Global:	G4		
	State:	S4		
General Habitat:			Micro Habitat:	
MEADOWS AND SEEPS, S	SUBALPINE C	ONIFEROUS FOREST.	WET MEADOWS, MOSSY SE	EPS. 2000-3120 M.
Last Date Observed: 20	07-07-12		Occurrence Type: Natural/	Native occurrence
Last Survey Date: 20	07-07-12		Occurrence Rank: Good	
Owner/Manager: US	SFS-LAKE TA	HOE BMU	Trend: Unknow	'n
Presence: Pre	esumed Extar	ıt		
Location:				
ALONG BIG MEADOW CRE	EEK, APPROX	KIMATELY 0.5 MI SE OF BIG ME	ADOW.	
Detailed Location:				
MAPPED ACCORDING TO	2007 GPS CO	OORDINATES FROM OSBRACK	ζ.	
Ecological:				
	-		E IS MESIC VEGETATION WITH A H MAGNIFICA & PINUS CONTORTA	IGH % COVER. E. HOWELLII FOUND NEXT SURROUNDING THE OPEN AREA.
Threats:				
FOREST SERVICE PROPO	SED BIG ME	ADOW CREEK WATERSHED F	IRE REGIME RESTORATION PROJE	ECT.
General:				
25 PLANTS SEEN IN 2007.				
PLSS: T11N, R18E, Sec.	28, NE (M)	Accuracy:	80 meters	Area (acres): 0
UTM: Zone-11 N4296025	5 E240121	Latitude/Longitude:	38.77469 / -119.99142	Elevation (feet): 7,720
County Summary:		Quad Summary:		
El Dorado		Freel Peak (3811978)		
Sources:				

OSB07F0001 OSBRACK, S. - FIELD SURVEY FORM FOR EPILOBIUM HOWELLII 2007-07-12



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	72782		EO Index:	73622
Key Quad:	Freel Peak (38	11978)	Element Code:	PDONA06180
Occurrence Number:	20		Occurrence Last Updated:	2008-11-03
Scientific Name: E	pilobium howellii		Common Name: subalpine	fireweed
Listing Status:	Federal:	None	Rare Plant Rank: 4.3	
	State:	None	Other Lists:	
CNDDB Element Ranks	: Global:	G4		
	State:	S4		
General Habitat:			Micro Habitat:	
MEADOWS AND SEEP	S, SUBALPINE (CONIFEROUS FOREST.	WET MEADOWS, MOSSY SEI	EPS. 2000-3120 M.
Last Date Observed:	2007-08-02		Occurrence Type: Natural/N	Native occurrence
Last Survey Date:	2007-08-02		Occurrence Rank: Excellent	t
Owner/Manager:	USFS-LAKE TA	HOE BMU	Trend: Unknown	1
Presence:	Presumed Exta	nt		
Location:				
ALONG BIG MEADOW	CREEK JUST N	OF THE ELD/ALP COUNTY LINE	E, APPROXIMATELY 0.9 AIR MI NE C	OF ROUND LAKE.
MAPPED ACCORDING	TO 2007 GPS C	OORDINATES FROM OSBRACK	ζ.	
Ecological:				
			RTIAL SHADE. THERE IS AN OVER TATUS, SENECIO TRIANGULARIS,	STORY OF ABIES MAGNIFICA ALONG THE VERATRUM CALIFORNICUM, ETC.
Threats:				
FOREST SERVICE PRO	DPOSED BIG ME	ADOW CREEK WATERSHED F	RE REGIME RESTORATION PROJE	CT.
General:				
25-30 PLANTS SEEN IN	l 2007.			
PLSS: T10N, R18E, S	ec. 03, NW (M)	Accuracy:	80 meters	Area (acres): 0
UTM: Zone-11 N4294	360 E239792	Latitude/Longitude:	38.75960 / -119.99458	Elevation (feet): 8,223
County Summary:		Quad Summary:		
El Dorado		Freel Peak (3811978)		
Sources:				

OSB07F0002 OSBRACK, S. - FIELD SURVEY FORM FOR EPILOBIUM HOWELLII 2007-08-02



California Department of Fish and Wildlife

California Natural Diversity Database



	72001		EO Index:		72908	
Key Quad:	Freel Peak (3	811978)	Element Code:		PDPGN083S4	
Occurrence Number:	3		Occurrence Last U	pdated:	2018-02-14	
Scientific Name: E	riogonum luteolı	ım var. saltuarium	Common Name:	Jack's wild	d buckwheat	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	USFS_S-S	Sensitive	
CNDDB Element Ranks	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
UPPER MONTANE CO	NIFEROUS FOR	REST, GREAT BASIN SCRUB.	SANDY, GRANITIC	SUBSTRA	TES. 1885-2225 M.	
Last Date Observed:	1975-08-23		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	1975-08-23		Occurrence Rank:	Unknowr	1	
Owner/Manager:	UNKNOWN		Trend:	Unknowr	1	
Presence:	Presumed Exta	ant				
Location:						
	ILES SE OF LU ⁻	THER PASS.				
ALONG HWY 89, 1.5 M	ILES SE OF LU	THER PASS.				
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UNI	KNOWN. MAPP	THER PASS. ED BY CNDDB ALONG HWY 89 1 1.5 MILES SE OF LUTHER PASS			FION. MAPPED NEAR DANGB	BERG CAN
Detailed Location: EXACT LOCATION UNI	KNOWN. MAPP	ED BY CNDDB ALONG HWY 89 1			ΓΙΟΝ. MAPPED NEAR DANGB	BERG CAN
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UNI GIVEN ELEVATION IS Ecological:	KNOWN. MAPP 7600 FEET BUT	ED BY CNDDB ALONG HWY 89 1			ΓΙΟΝ. MAPPED NEAR DANGB	BERG CAN
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UN GIVEN ELEVATION IS Ecological: IN SANDY SOIL WITH S	KNOWN. MAPP 7600 FEET BUT	ED BY CNDDB ALONG HWY 89 T 1.5 MILES SE OF LUTHER PASS			ΓΙΟΝ. MAPPED NEAR DANGB	BERG CAN
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UN GIVEN ELEVATION IS Ecological: IN SANDY SOIL WITH S	KNOWN. MAPP 7600 FEET BUT	ED BY CNDDB ALONG HWY 89 T 1.5 MILES SE OF LUTHER PASS			ΓΙΟΝ. MAPPED NEAR DANGB	BERG CAN
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UNI GIVEN ELEVATION IS Ecological: IN SANDY SOIL WITH S Threats: General:	KNOWN. MAPPI 7600 FEET BUT SALIX, EPILOBI	ED BY CNDDB ALONG HWY 89 T 1.5 MILES SE OF LUTHER PASS	S IS CLOSER TO 7300 FE	ĒT.	ΓΙΟΝ. MAPPED NEAR DANGB	BERG CAN
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UNI GIVEN ELEVATION IS Ecological: IN SANDY SOIL WITH S Threats: General: ONLY SOURCE OF INF	KNOWN. MAPP 7600 FEET BUT SALIX, EPILOBI FORMATION FO	ED BY CNDDB ALONG HWY 89 T 1.5 MILES SE OF LUTHER PASS UM, PINUS, AND ABIES.	S IS CLOSER TO 7300 FE	ĒT.	ΓΙΟΝ. MAPPED NEAR DANGB Area (acres):	BERG CAN
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UNI GIVEN ELEVATION IS Ecological: IN SANDY SOIL WITH S Threats: General: ONLY SOURCE OF INF PLSS: T11N, R18E, S	KNOWN. MAPPI 7600 FEET BUT SALIX, EPILOBI FORMATION FO Sec. 24 (M)	ED BY CNDDB ALONG HWY 89 T 1.5 MILES SE OF LUTHER PASS UM, PINUS, AND ABIES. PR THIS SITE IS A 1975 REVEAL	S IS CLOSER TO 7300 FEI	ĒT.		
ALONG HWY 89, 1.5 M Detailed Location: EXACT LOCATION UNI GIVEN ELEVATION IS Ecological: IN SANDY SOIL WITH S Threats: General: ONLY SOURCE OF INF PLSS: T11N, R18E, S	KNOWN. MAPPI 7600 FEET BUT SALIX, EPILOBI FORMATION FO Sec. 24 (M)	ED BY CNDDB ALONG HWY 89 T ' 1.5 MILES SE OF LUTHER PASS UM, PINUS, AND ABIES. PR THIS SITE IS A 1975 REVEAL Accuracy:	S IS CLOSER TO 7300 FE COLLECTION. NEEDS FIE non-specific area	ĒT.	Area (acres):	36

REV75S0004 REVEAL, J. - REVEAL #3968 RSA #279593, NESH #53458, SEINET #5331510 1975-08-23



California Department of Fish and Wildlife



Map Index Number:90846Key Quad:Woodfords (38119)	977)	EO Index: Element Code:	F	91883 PDPHR01020
Occurrence Number: 1		Occurrence Last U	pdated: 2	2013-11-05
Scientific Name: Erythranthe carsonen	nsis	Common Name:	Carson Valle	ey monkeyflower
Listing Status: Federal: N	lone	Rare Plant Rank:	1B.1	
State: N	lone	Other Lists:	_	RSABG-California/Rancho Santa Ana
CNDDB Element Ranks: Global: G	62		Botanic Gar	den
State: S	51			
General Habitat:		Micro Habitat:		
GREAT BASIN SCRUB.		GRANITIC OPENIN	GS. 1480 M.	
Last Date Observed: 2011-05-23		Occurrence Type:	Natural/Nat	tive occurrence
Last Survey Date: 2011-05-23		Occurrence Rank:	Unknown	
Owner/Manager: BLM		Trend:	Unknown	
Presence: Presumed Extant				
Location:				
NORTH OF FREDERICKSBURG ALONG T	THE CALIFORNIA / NEVADA STA	ATE LINE, CARSON VAL	LEY.	
Detailed Location:				
PLANTS REPORTED TO OCCUR IN A NOI ONE FROM A 2011 FRAGA COLLECTION				
Ecological:				
NE-FACING ON 6% SLOPE. SAGEBRUSH CALYPTRIDIUM.	I SCRUB DOMINATED BY ARTE	MISIA TRIDENTATA, W	ITH PURSHI	A TRIDENTATA, RIBES, AND
Threats:				
DEVELOPMENT IS A POTENTIAL THREAT	Т.			
General:				
ONLY SOURCES OF INFORMATION FOR	THIS OCCURRENCE ARE 2011	MATSON PHOTOS AN	D A 2011 FR	AGA COLLECTION.
PLSS: T12N, R19E, Sec. 36, SE (M)	Accuracy: s	specific area		Area (acres): 9
UTM: Zone-11 N4304652 E257526	Latitude/Longitude: 3	38.85730 / -119.79434		Elevation (feet): 4,860
County Summary:	Quad Summary:			
Alpine, Nevada State	Woodfords (3811977)			
Sources:				
FRA11S0004 FRAGA, N FRAGA #380	03 RSA (CITED IN FRA13U0003) 2011-05-23		
FRA13U0003 FRAGA, N EMAIL REG	ARDING SPECIMENS OF ERYT	HRANTHE CARSONEN	SIS 2013-05-	12
MAT1110008 MATSON, S PHOTOS C	OF ERYTHRANTHE CARSONEN	ISIS, CALPHOTOS ID #	80 0000 0000 08	313 3177-3182 2011-05-23



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	36564		EO Index:		31561		
Key Quad:	Ebbetts Pass	(3811957)	Element Code:		PDPOR030A0		
Occurrence Number:	7		Occurrence Last U	pdated:	2019-06-07)19-06-07	
Scientific Name: C	Claytonia megarh	iza	Common Name:	fell-fields	claytonia		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3			
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G5					
	State:	S2					
General Habitat:			Micro Habitat:				
ALPINE BOULDER AN FOREST.	D ROCK FIELD,	SUBALPINE CONIFEROUS	IN THE CREVICES 2560-3505 M.	BETWEEN	NROCKS, ROCKY OR GRAVEL	LY SOIL	
Last Date Observed:	1971-08-29		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	2015-07-24		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-HUMBO	LDT-TOIYABE NF	Trend:	Unknow	n		
Presence:	Presumed Exta	ant					
Location:							
CREEK NEAR NOBLE	LAKE, BETWEE	N HIGHLAND PEAK & TRYON PE	EAK.				
Detailed Location:							
Ecological:							
AT 8900 FEET ELEVAT	OIN IN SUBALP	INE FOREST.					
Threats:							
General:							
		BY TAYLOR. IN 2015, NO PLAN R SLOPES WSW OF NOBLE LAK		STERN SLO	OPES OF TRYON PEAK ABOVI	E NOBLE	
	Sec. 21 (M)	Accuracy:	2/5 mile		Area (acres):	0	
PLSS: T08N, R20E, S		Latituda/Langituda	38.52798 / -119.77722		Elevation (feet):	8,900	
	8054 E257904	Latitude/Longitude:					
PLSS: T08N, R20E, S UTM: Zone-11 N426 County Summary:	8054 E257904	Quad Summary:					
UTM: Zone-11 N426	8054 E257904	-	7)				

TAY71S0002 TAYLOR, D. - TAYLOR #1203 DAV #82640 1971-08-29



California Department of Fish and Wildlife

California Natural Diversity Database



	51740		EO Index:	51740		
Key Quad:	Heenan Lake (3811966) er: 3		Element Code:	PDPOR030P0	POR030P0	
Occurrence Number:			Occurrence Last Updat	ted: 2015-05-13		
Scientific Name: C	Claytonia umbella	ta	Common Name: Gre	eat Basin claytonia		
Listing Status:	Federal:	None	Rare Plant Rank: 2B.	3		
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G4				
	State:	S1				
General Habitat:			Micro Habitat:			
SUBALPINE CONIFER	OUS FOREST.		TALUS SLOPES, STON	Y FLATS, CREVICES. 1290-3475 M.		
Last Date Observed:	2015-04-27		Occurrence Type: Na	atural/Native occurrence		
Last Survey Date:	2015-04-27		Occurrence Rank: Ur	hknown		
Owner/Manager:	USFS-TOIYAB	E NF	Trend: Ur	hknown		
Presence:	Presumed Exta	ant				
Location:						
ROAD TO HAYPRESS	FLAT FROM HIC	GHWAY 89, 0.5 MILE ABOVE FO	REST CITY FLAT.			
Detailed Location:			TION 30			
	NING STAR RO	AD WITHIN THE SE 1/4 OF SEC				
MAPPED ALONG MOR	NING STAR RO	AD WITHIN THE SE 1/4 OF SEC				
MAPPED ALONG MOR Ecological: PINYON PINE WOODL		AD WITHIN THE SE 1/4 OF SEC				
MAPPED ALONG MOR Ecological: PINYON PINE WOODL Threats:						
MAPPED ALONG MOR Ecological: PINYON PINE WOODL Threats: General:	AND ON VOLCA	NIC SCREE SOILS. SOUTHWES	ST FACING SLOPE.			
MAPPED ALONG MOR Ecological: PINYON PINE WOODL Threats: General:	AND ON VOLCA	NIC SCREE SOILS. SOUTHWES	ST FACING SLOPE.	Y" PLANTS OBSERVED BY STOUGHT	FON IN 201	
MAPPED ALONG MOR Ecological: PINYON PINE WOODL Threats: General: UNKNOWN NUMBER (AND ON VOLCA	NIC SCREE SOILS. SOUTHWES	ST FACING SLOPE.	Y" PLANTS OBSERVED BY STOUGHT Area (acres):	FON IN 2015 50	
MAPPED ALONG MOR Ecological: PINYON PINE WOODL Threats: General: UNKNOWN NUMBER (PLSS: T10N, R21E, S	AND ON VOLCA DF PLANTS OBS Sec. 30, SE (M)	NIC SCREE SOILS. SOUTHWES	ST FACING SLOPE. LANTS RARE LOCALLY. "MAN"			
Ecological: PINYON PINE WOODL Threats: General: UNKNOWN NUMBER (PLSS: T10N, R21E, S	AND ON VOLCA DF PLANTS OBS Sec. 30, SE (M)	NIC SCREE SOILS. SOUTHWES SERVED IN 1974 BY TAYLOR; PL Accuracy:	ST FACING SLOPE. LANTS RARE LOCALLY. "MAN" non-specific area	Area (acres):	50	
MAPPED ALONG MOR Ecological: PINYON PINE WOODL Threats: General: UNKNOWN NUMBER (PLSS: T10N, R21E, S UTM: Zone-11 N428	AND ON VOLCA DF PLANTS OBS Sec. 30, SE (M)	NIC SCREE SOILS. SOUTHWES SERVED IN 1974 BY TAYLOR; PL Accuracy: Latitude/Longitude:	ST FACING SLOPE. LANTS RARE LOCALLY. "MAN" non-specific area 38.68027 / -119.71107	Area (acres):	50	

TAY74S0004 TAYLOR, D. - TAYLOR #3251 JEPS #101063 1974-04-23



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	81508		EO Index:	82484
Key Quad:	Woodfords (38	bodfords (3811977) Element Code:		PDVIO04420
Occurrence Number:	18		Occurrence Last Updated	: 2011-01-31
Scientific Name: Vi	ola purpurea ssp	o. aurea	Common Name: golder	violet
Listing Status:	Federal:	None	Rare Plant Rank: 2B.2	
	State:	None	Other Lists:	
CNDDB Element Ranks	: Global:	G5T2		
	State:	S2		
General Habitat:			Micro Habitat:	
GREAT BASIN SCRUB,	PINYON-JUNIP	ER WOODLAND.	DRY, SANDY SLOPES. 10	00-2500 M.
Last Date Observed:	1974-04-28		Occurrence Type: Natur	al/Native occurrence
Last Survey Date:	1974-04-28		Occurrence Rank: Unkn	own
Owner/Manager:	UNKNOWN		Trend: Unkn	own
Presence:	Presumed Exta	nt		
Location:				
	AD, 0.6 MILE S (OF HIGHWAY 89, DIAMOND VAL	LEY.	
Detailed Location:				
	OND VALLEY R	OAD 0.5-0.7 MILES S OF HIGHV	VAY 89. IN THE SE 1/4 SE 1/4 SE	CTION 35.
Ecological:				
Threats:				
General:				
	F PLANTS SEE	N. ONLY SOURCE OF INFORMA		
			was an active and a	Area (acres): 18
PLSS: T11N, R19E, S	,	Accuracy:	non-specific area	ζ, γ
PLSS: T11N, R19E, S	,	Accuracy: Latitude/Longitude:	38.76831 / -119.80833	Elevation (feet): 5,000
UNKNOWN NUMBER O PLSS: T11N, R19E, S UTM: Zone-11 N4294 County Summary:	,	•	·	ζ, γ

TAY74S0013 TAYLOR, D. - TAYLOR #3277 JEPS (CITED FROM CALFLORA ID #XR168411) 1974-04-28



California Department of Fish and Wildlife



Map Index Number:	81509		EO Index:		82486		
Key Quad: Woodfords (3811977		311977)	Element Code:	Element Code: PD		DVIO04420	
Occurrence Number:	19		Occurrence Last U	pdated:	2011-01-31		
Scientific Name: V	íola purpurea ssp	o. aurea	Common Name:	golden vic	plet		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.2			
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G5T2					
	State:	S2					
General Habitat:			Micro Habitat:				
GREAT BASIN SCRUB	, PINYON-JUNIP	PER WOODLAND.	DRY, SANDY SLOP	ES. 1000-	2500 M.		
Last Date Observed:	1974-05-05		Occurrence Type:	Natural/N	lative occurrence		
Last Survey Date:	1974-05-05		Occurrence Rank:	Unknowr	ı		
Owner/Manager:	BLM		Trend:	Unknowr	ı		
Presence:	Presumed Exta	int					
Location:							
ALONG AIRPORT ROA Detailed Location:	.D, 0.5 MILE SE (OF DIAMOND VALLEY ROAD IN	SCOSSA CANYON, DUTC	H VALLEY			
MAPPED ALONG AIPC SECTION 32.	RT ROAD (INDI	AN CREEK RESERVOIR ROAD)	FROM 0.4-0.6 MILES SE O	F DIAMON	ID VALLEY ROAD. IN THE SV	V 1/4 SW 1	
Ecological:							
Threats:							
General:							
UNKNOWN NUMBER (OF PLANTS SEE	N. ONLY SOURCE OF INFORM	ATION IS A 1974 TAYLOR (OBSERVA	ΓΙΟΝ.		
PLSS: T11N, R20E, S	Sec. 32, SW (M)	Accuracy:	non-specific area		Area (acres):	20	
UTM: Zone-11 N429	,	Latitude/Longitude:	38.76613 / -119.76824		Elevation (feet):	5,400	
County Summary:		Quad Summary:					
		Woodfords (3811977)					
Alpine		woodioida (5011577)					



California Department of Fish and Wildlife



Map Index Number:	B0373		EO Index:	112233	5	
Key Quad:	Carson Pass (38119	968)	Element Code:	PDVIO	04420	
Occurrence Number:			pdated: 2018-0	8-15		
Scientific Name: V	iola purpurea ssp. aure	ea	Common Name:	golden violet		
Listing Status:	Federal: Nor	ne	Rare Plant Rank:	2B.2		
-	State: Nor	ne	Other Lists:			
CNDDB Element Ranks	s: Global: G5	Т2				
	State: S2					
General Habitat:			Micro Habitat:			
GREAT BASIN SCRUB,	PINYON-JUNIPER W	/OODLAND.	DRY, SANDY SLOF	PES. 1000-2500 M.		
Last Date Observed:	1974-06-30		Occurrence Type:	Natural/Native oc	currence	
Last Survey Date:	1974-06-30		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-ELDORADO N	NF	Trend:	Unknown		
Presence:	Presumed Extant					
Location:						
EASTERN BORDER OF	BORDER RUFFIAN	FLAT AT THE WESTERN B	ASE OF JEFF DAVIS PEA	K, CARSON PASS.		
Detailed Location:						
EXACT LOCATION UNF FLAT, NEAR GIVEN EL		BEST GUESS BY CNDDB	ALONG BLUE LAKES RD	ON THE EASTERN	BORDER OF BORDE	ER RUFFIAN
Ecological:						
Threats:						
General:						
ONLY SOURCE OF INF	ORMATION FOR THI	S SITE IS A 1974 TAYLOR	COLLECTION. NEEDS FIE	LDWORK.		
PLSS: T09N, R19E, S	ec. 17 (M)	Accuracy:	non-specific area		Area (acres):	47
UTM: Zone-11 N4279	9882 E246514	Latitude/Longitude:	38.63126 / -119.91204		Elevation (feet):	8,100
County Summary:		Quad Summary:				
Alpine		Carson Pass (3811968	3)			
Sources:						
TAY74S0025 TAYL	OR, D TAYLOR #40	26 DAV #110623 & #66674	1974-06-30			



California Department of Fish and Wildlife



Map Index Number:	82334		EO Index:		83348
(ey Quad:	Ebbetts Pass	(3811957)	Element Code:		PMCYP033H0
Occurrence Number:	3		Occurrence Last U	pdated:	2018-06-27
cientific Name: C	arex davyi		Common Name:	Davy's se	edge
isting Status:	Federal:	None	Rare Plant Rank:	1B.3	
	State:	None	Other Lists:		
NDDB Element Ranks	s: Global:	G3			
	State:	S3			
eneral Habitat:			Micro Habitat:		
UBALPINE CONIFERO OREST.	DUS FOREST, U	IPPER MONTANE CONIFEROUS	6 1605-3230 M.		
ast Date Observed:	1864-XX-XX		Occurrence Type:	Natural/	Native occurrence
ast Survey Date:	1864-XX-XX		Occurrence Rank:	Unknow	n
wner/Manager:	UNKNOWN		Trend:	Unknow	n
resence:	Presumed Exta	int			
ocation:					
BBETTS PASS.					
etailed Location:					
ILL ABOVE PASS. EX ASS.	ACT LOCATION	UNKNOWN. MAPPED BY CNDE	DB AS BEST GUESS CENT	ERED ON	I EBBETTS PASS AND HILLS ADJACENT T
cological:					
hreats:					
eneral:					
		ND COLLECTION AND AN 1864 ECTION WAS ORIGINALLY INC			ELDWORK. INCLUDES FORMER REES.
COURTENCE #1, THE		Accuracy:	1 mile		Area (acres): 0
LSS: T08N, R20E, S	ec. 18 (M)	•			
LSS: T08N, R20E, S		Latitude/Longitude:	38.54393 / -119.81220		Elevation (feet):
LSS: T08N, R20E, S		-	38.54393 / -119.81220		Elevation (feet):
LSS: T08N, R20E, S		Latitude/Longitude:			Elevation (feet):



California Department of Fish and Wildlife



Map Index Number:	000	25		EO Index:		82240	
Key Quad:	8233 Baci	sific Valley ((2911059)	Element Code:		83349 PMCYP033H0	
Dccurrence Number: 4		nic vaney ((3011930)	Occurrence Last U	ndated	2018-06-27	
	. 4				puateu.	2010-00-27	
Scientific Name:	Carex d	lavyi		Common Name:	Davy's se	edge	
Listing Status:	F	Federal:	None	Rare Plant Rank:	1B.3		
	S	State:	None	Other Lists:			
CNDDB Element Ra	nks: G	Global:	G3				
	S	State:	S3				
General Habitat:				Micro Habitat:			
SUBALPINE CONIFE FOREST.	ROUS F	OREST, U	PPER MONTANE CONIFEROUS	1605-3230 M.			
Last Date Observed	: 2015	5-07-23		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2015	5-07-23		Occurrence Rank:	Fair		
Owner/Manager:	USFS	S-STANISL	LAUS NF	Trend:	Unknow	n	
Presence:	Presu	umed Extai	nt				
Location:							
SLOPE ABOVE (SOL	JTH OF)	HERMIT V	ALLEY, APPROXIMATELY 4.6 A	IR MILES WEST OF EBBE	TTS PASS	S.	
Detailed Location:							
MAPPED ACCORDIN	IG TO 20)15 SLAKE	Y COORDINATES, IN THE SW 1	/4 OF THE NW 1/4 OF SE	CTION 21.		
-					TCROPS \	WITH SOME SEEPAGE. ASSO	
UPPER MONTANE C			EST. 45 DEGREE N-FACING SLO RCUS VACCINIFOLIA, JUNCUS F				
UPPER MONTANE C MAGNIFICA, PINUS Threats:							
UPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED.							
JPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED. General:	CONTOR	RTA, QUEF	RCUS VACCINIFOLIA, JUNCUS F	PARRYI, ERIGERON GLAG	CIALIS, LE	PTODACTYLON, POA, ANTEN	NARIA, ET
JPPER MONTANE C MAGNIFICA, PINUS Fhreats: NONE OBSERVED. General: 11 PLANTS OBSERV	CONTOR	RTA, QUEF 015. A 193		PARRYI, ERIGERON GLAG	CIALIS, LE	PTODACTYLON, POA, ANTEN	NARIA, ET
UPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED. General: 11 PLANTS OBSERV 8000 FT ELEVATION	CONTOR (ED IN 20 " IS ALS(RTA, QUEF 015. A 1939 O ATTRIBI	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM UTED TO THIS SITE.	PARRYI, ERIGERON GLAG	CIALIS, LE	PTODACTYLON, POA, ANTEN DPE SOUTH OF THE MOKELU	NARIA, ET
MAGNIFICA, PINUS Threats: NONE OBSERVED. General: 11 PLANTS OBSER\	CONTOR (ED IN 20 " IS ALSO , Sec. 21	RTA, QUEF 015. A 1933 O ATTRIBI	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM	PARRYI, ERIGERON GLAG 1 "HERMIT VALLEY. MOUI	CIALIS, LE	PTODACTYLON, POA, ANTEN	NARIA, ET
UPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED. General: 11 PLANTS OBSERV 8000 FT ELEVATION PLSS: T08N, R19E UTM: Zone-11 N42	CONTOR (ED IN 20 " IS ALSO , Sec. 21	RTA, QUEF 015. A 1933 O ATTRIBI	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM UTED TO THIS SITE. Accuracy:	PARRYI, ERIGERON GLAG I "HERMIT VALLEY. MOUI 80 meters	CIALIS, LE	PTODACTYLON, POA, ANTEN DPE SOUTH OF THE MOKELU Area (acres):	NARIA, ET MNE RIVE
UPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED. General: 11 PLANTS OBSERV 8000 FT ELEVATION PLSS: T08N, R19E UTM: Zone-11 N4: County Summary:	CONTOR (ED IN 20 " IS ALSO , Sec. 21	RTA, QUEF 015. A 1933 O ATTRIBI	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM UTED TO THIS SITE. Accuracy: Latitude/Longitude:	PARRYI, ERIGERON GLAG 1 "HERMIT VALLEY. MOUI 80 meters 38.53402 / -119.89732	CIALIS, LE	PTODACTYLON, POA, ANTEN DPE SOUTH OF THE MOKELU Area (acres):	NARIA, ET MNE RIVE
JPPER MONTANE C MAGNIFICA, PINUS Inreats: NONE OBSERVED. General: 11 PLANTS OBSERV 3000 FT ELEVATION PLSS: T08N, R19E JTM: Zone-11 N42 County Summary: Alpine	CONTOR (ED IN 20 " IS ALSO , Sec. 21	RTA, QUEF 015. A 1938 O ATTRIBI	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM UTED TO THIS SITE. Accuracy: Latitude/Longitude: Quad Summary:	PARRYI, ERIGERON GLAG 1 "HERMIT VALLEY. MOUI 80 meters 38.53402 / -119.89732	CIALIS, LE	PTODACTYLON, POA, ANTEN DPE SOUTH OF THE MOKELU Area (acres):	NARIA, ET MNE RIVE
UPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED. General: 11 PLANTS OBSERV 8000 FT ELEVATION PLSS: T08N, R19E UTM: Zone-11 N4: County Summary: Alpine Sources:	CONTOF (ED IN 20 " IS ALS(, Sec. 21 269048 E	RTA, QUEF 015. A 1938 O ATTRIBI I, NW (M) E247454	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM UTED TO THIS SITE. Accuracy: Latitude/Longitude: Quad Summary:	PARRYI, ERIGERON GLAG 1 "HERMIT VALLEY. MOUI 80 meters 38.53402 / -119.89732 8)	CIALIS, LE	PTODACTYLON, POA, ANTEN DPE SOUTH OF THE MOKELU Area (acres):	NARIA, ET MNE RIVE 5
UPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED. General: 11 PLANTS OBSERV 8000 FT ELEVATION PLSS: T08N, R19E UTM: Zone-11 N42 County Summary: Alpine Sources: BUR15S0008 BU	CONTOR " IS ALSO , Sec. 21 269048 E RGE, D.	RTA, QUEF 015. A 193: O ATTRIBU , NW (M) E247454 ET AL BI	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM UTED TO THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (3811958	PARRYI, ERIGERON GLAG 1 "HERMIT VALLEY. MOUI 80 meters 38.53402 / -119.89732 8) 14877 2015-07-23	NTAIN SLC	PTODACTYLON, POA, ANTEN DPE SOUTH OF THE MOKELU Area (acres): Elevation (feet):	NARIA, ET MNE RIVE
UPPER MONTANE C MAGNIFICA, PINUS Threats: NONE OBSERVED. General: 11 PLANTS OBSERV 8000 FT ELEVATION PLSS: T08N, R19E UTM: Zone-11 N42 County Summary: Alpine Sources: BUR15S0008 BU PEI35S0003 PE	CONTOR " IS ALS(, Sec. 21 269048 E RGE, D. IRSON, F	RTA, QUEF 015. A 1938 O ATTRIBU I, NW (M) 2247454 ET AL BI F PEIRSC	RCUS VACCINIFOLIA, JUNCUS F 5 PEIRSON COLLECTION FROM UTED TO THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Pacific Valley (3811958 URGE #1760 DAV #163033 & #2*	PARRYI, ERIGERON GLAG 1 "HERMIT VALLEY. MOUI 80 meters 38.53402 / -119.89732 8) 14877 2015-07-23 88809, SD #87525, CAS-B	OT-BC #34	PTODACTYLON, POA, ANTEN DPE SOUTH OF THE MOKELU Area (acres): Elevation (feet):	NARIA, ET MNE RIVE 5



California Department of Fish and Wildlife



Map Index Number: Key Quad: Occurrence Number:	82338 Carson Pass (; 5	3811968)	EO Index: Element Code: Occurrence Last Up	83352 PMCYP033H0 dated: 2019-11-01
Scientific Name:	Carex davyi		Common Name:	Davy's sedge
Listing Status: CNDDB Element Ran	Federal: State: ks: Global: State:	None None G3 S3	Rare Plant Rank: Other Lists:	1B.3
General Habitat: SUBALPINE CONIFEF FOREST.	ROUS FOREST, U	PPER MONTANE CONIFERC	Micro Habitat: DUS 1605-3230 M.	
ast Date Observed:	2016-09-01		Occurrence Type:	Natural/Native occurrence
ast Survey Date:	2016-09-01		Occurrence Rank:	Good
wner/Manager:	USFS-ELDORA	DO NF	Trend:	Unknown
resence:	Presumed Exta	nt		
Petailed Location: POLYGONS MAPPE	ED BY CNDDB. NV	V POLYGON MAPPED ACCO	RDING TO 2006 NACZI COOR	E WILDERNESS, CARSON PASS AREA. DINATES AND 2016 USFS DIGITAL DATA. SE
cological: MONG ROCKS IN RI	ELATIVELY LEVE		DRY, GRAVELLY SOIL. ASSOC	IATED WITH CASTILLEJA SP., ERIGERON SP.,
cological: MONG ROCKS IN R IONARDA SP., ARTE hreats: ONE EVIDENT. eneral: W POLYGON: CONS	ELATIVELY LEVE MISIA TRIDENTA SIDERED "INFREC	L AREA ABOVE THE LAKE. D TA, SYMPHORICARPOS VAG QUENT, VERY LOCAL" IN 200	DRY, GRAVELLY SOIL. ASSOC CCINIOIDES, RIBES CEREUM, 06 BY NACZI, FEWER THAN 50	AND R. MONTIGEUM.
cological: MONG ROCKS IN R ONARDA SP., ARTE hreats: ONE EVIDENT. eneral: W POLYGON: CONS D16; THERE ARE MC	ELATIVELY LEVE MISIA TRIDENTA SIDERED "INFREC DST LIKELY A LOT	L AREA ABOVE THE LAKE. E TA, SYMPHORICARPOS VAG QUENT, VERY LOCAL" IN 200 I MORE PATCHES IN THE AI	DRY, GRAVELLY SOIL. ASSOC CCINIOIDES, RIBES CEREUM, D6 BY NACZI, FEWER THAN 50 REA. SE POLYGON: SEEN IN 1	AND R. MONTIGEUM. D PLANTS SEEN IN 2015, 100+ PLANTS SEEN IN 1999 AND 2015. INCLUDES FORMER EO#6.
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Cological: MONG ROCKS IN R ONARDA SP., ARTE hreats: ONE EVIDENT. eneral: W POLYGON: CONS D16; THERE ARE MO LSS: T10N, R18E, TM: Zone-11 N42 ounty Summary: pine purces: AR08R0001 CAR NAT IP99S0002 HIP1 07-1	ELATIVELY LEVEL MISIA TRIDENTA SIDERED "INFREC OST LIKELY A LOT Sec. 34, N (M) 84668 E239705 REX WORKING GF IONAL FORESTS P, A HIPP #901 M 7 B PHOTO OF C/	L AREA ABOVE THE LAKE. E TA, SYMPHORICARPOS VAG QUENT, VERY LOCAL" IN 200 F MORE PATCHES IN THE AI Accuracy: Latitude/Longitud Quad Summary: Carson Pass (3811 ROUP, LLC - FINAL REPORT 2008-03-XX MICH #1367814 & #1367815, AREX DAVYI, CALPHOTOS II	DRY, GRAVELLY SOIL. ASSOC CCINIOIDES, RIBES CEREUM, D6 BY NACZI, FEWER THAN 50 REA. SE POLYGON: SEEN IN 1 specific area e: 38.67236 / -119.99195 968) OF THE CAREX CONSTANCE MOR #63399 & #63400, SEINE D: 0000 0000 0117 0187 2016-0	AND R. MONTIGEUM. 0 PLANTS SEEN IN 2015, 100+ PLANTS SEEN IN 1999 AND 2015. INCLUDES FORMER EO#6. Area (acres): 8 Elevation (feet): 9,100 ANA SURVEY FOR THE FREMONT-WINEMA IT #7556312, #7556313, #4291990, & #4291991 1999 09-01
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Cological: MONG ROCKS IN R IONARDA SP., ARTE hreats: ONE EVIDENT. eneral: W POLYGON: CONS D16; THERE ARE MC LSS: T10N, R18E, TM: Zone-11 N423 ounty Summary: lpine ounty Summary: lpine Ounto Summary:	ELATIVELY LEVEL MISIA TRIDENTA SIDERED "INFREC DST LIKELY A LOT Sec. 34, N (M) 84668 E239705 REX WORKING GF IONAL FORESTS P, A HIPP #901 M 7 B PHOTO OF C, ZI, R NACZI #17 RSON, F PEIRSC RY, S. & S. PERR	L AREA ABOVE THE LAKE. E TA, SYMPHORICARPOS VAG QUENT, VERY LOCAL" IN 200 F MORE PATCHES IN THE AI Accuracy: Latitude/Longitud Quad Summary: Carson Pass (3811 ROUP, LLC - FINAL REPORT 2008-03-XX MICH #1367814 & #1367815, AREX DAVYI, CALPHOTOS II 1531 CHSC #99403, SEINET = DN #12203 RSA #88810, CAS	DRY, GRAVELLY SOIL. ASSOC CCINIOIDES, RIBES CEREUM, D6 BY NACZI, FEWER THAN 50 REA. SE POLYGON: SEEN IN 1 specific area e: 38.67236 / -119.99195 968) OF THE CAREX CONSTANCE MOR #63399 & #63400, SEINE D: 0000 0000 0117 0187 2016-0 #7556314, MICH #1367816 200 S #247041-499019757, SD #877	AND R. MONTIGEUM. 0 PLANTS SEEN IN 2015, 100+ PLANTS SEEN IN 1999 AND 2015. INCLUDES FORMER EO#6. Area (acres): 8 Elevation (feet): 9,100 ANA SURVEY FOR THE FREMONT-WINEMA IT #7556312, #7556313, #4291990, & #4291991 1999 09-01 06-08-06 759, CAS-BOT-BC #34429 1937-07-24 0 0815 2969-2972 2015-07-31
cological: MONG ROCKS IN RI IONARDA SP., ARTE hreats: ONE EVIDENT. eneral: W POLYGON: CONS 016; THERE ARE MO LSS: T10N, R18E, TM: Zone-11 N420 ounty Summary: Ipine ources: AR08R0001 CAR NAT IP99S0002 HIPI 07-1 0-1610001 LO, AC06S0002 NAC EI37S0006 PEIF ER1510004 PER	ELATIVELY LEVE MISIA TRIDENTA SIDERED "INFREC DST LIKELY A LOT Sec. 34, N (M) 84668 E239705 REX WORKING GF TONAL FORESTS P, A HIPP #901 N 7 B PHOTO OF CA 22I, R NACZI #11 RSON, F PEIRSC RY, S. & S. PERR	L AREA ABOVE THE LAKE. E TA, SYMPHORICARPOS VAG QUENT, VERY LOCAL" IN 200 F MORE PATCHES IN THE AI Accuracy: Latitude/Longitud Quad Summary: Carson Pass (3811 ROUP, LLC - FINAL REPORT 2008-03-XX MICH #1367814 & #1367815, AREX DAVYI, CALPHOTOS II 1531 CHSC #99403, SEINET = DN #12203 RSA #88810, CAS	 DRY, GRAVELLY SOIL. ASSOC CCINIOIDES, RIBES CEREUM, D6 BY NACZI, FEWER THAN 50 REA. SE POLYGON: SEEN IN 1 specific area e: 38.67236 / -119.99195 968) OF THE CAREX CONSTANCE, MOR #63399 & #63400, SEINE D: 0000 0000 0117 0187 2016-0 #7556314, MICH #1367816 200 S #247041-499019757, SD #877 /YI, CALPHOTOS ID: 0000 0000 (1, CALPHOTOS ID: 0000 0000 	AND R. MONTIGEUM. D PLANTS SEEN IN 2015, 100+ PLANTS SEEN IN 1999 AND 2015. INCLUDES FORMER EO#6. Area (acres): 8 Elevation (feet): 9,100 ANA SURVEY FOR THE FREMONT-WINEMA IT #7556312, #7556313, #4291990, & #4291991 199 D9-01 06-08-06 759, CAS-BOT-BC #34429 1937-07-24 0 0815 2969-2972 2015-07-31
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Cological:MONG ROCKS IN R MONARDA SP., ARTEMONE EVIDENT.Seneral:IONE EVIDENT.Seneral:IW POLYGON: CONS 2016; THERE ARE MOPLSS:T10N, R18E, JTM:Zounty Summary:NpineSources:CAR08R0001CAR NATHP99S0002HIP1 07-1.0-1610001LO, NAC06S0002PER1510004PER PER 20S44S0003ROS44S0004ROS USF17D0001	ELATIVELY LEVE MISIA TRIDENTA SIDERED "INFREC DST LIKELY A LOT Sec. 34, N (M) 84668 E239705 EX WORKING GF 10NAL FORESTS P, A HIPP #901 N 7 B PHOTO OF C/ CZI, R NACZI #11 RSON, F PEIRSC RY, S. & S. PERR SRY, S. & S. PERR SE, L ROSE #44' SE, L ROSE #44'	L AREA ABOVE THE LAKE. E TA, SYMPHORICARPOS VAG DUENT, VERY LOCAL" IN 200 FMORE PATCHES IN THE AI Accuracy: Latitude/Longitud Quad Summary: Carson Pass (3811 ROUP, LLC - FINAL REPORT 2008-03-XX WICH #1367814 & #1367815, AREX DAVYI, CALPHOTOS II 1531 CHSC #99403, SEINET = ON #12203 RSA #88810, CAS Y - PHOTOS OF CAREX DAV Y - PHOTO OF CAREX DAV 195 CAS #322216, CAS-BOT- 196 MICH (CITED IN CAR08R E-ELDORADO NATIONAL FO	 DRY, GRAVELLY SOIL. ASSOC CCINIOIDES, RIBES CEREUM, D6 BY NACZI, FEWER THAN 50 REA. SE POLYGON: SEEN IN 1 specific area e: 38.67236 / -119.99195 968) OF THE CAREX CONSTANCE, MOR #63399 & #63400, SEINE D: 0000 0000 0117 0187 2016-0 #7556314, MICH #1367816 200 G: #247041-499019757, SD #877 /YI, CALPHOTOS ID: 0000 0000 #C #34427 1944-07-21 20001) 1944-07-21 	AND R. MONTIGEUM. 0 PLANTS SEEN IN 2015, 100+ PLANTS SEEN IN 1999 AND 2015. INCLUDES FORMER EO#6. Area (acres): 8 Elevation (feet): 9,100 ANA SURVEY FOR THE FREMONT-WINEMA IT #7556312, #7556313, #4291990, & #4291991 1999 09-01 06-08-06 759, CAS-BOT-BC #34429 1937-07-24 0 0815 2969-2972 2015-07-31



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A7238		EO Index:		109004	
Key Quad:Echo Lake (3812071)		12071)	Element Code:		PMCYP036D0	
Occurrence Number:	3		Occurrence Last U	pdated:	2017-11-22	
Scientific Name: C	arex hystericina		Common Name:	porcupine	e sedge	
Listing Status:	Federal:	None	Rare Plant Rank:	2B.1		
	State:	None	Other Lists:			
CNDDB Element Ranks	: Global:	G5				
	State:	S2				
General Habitat:			Micro Habitat:			
MARSHES AND SWAM	PS.		WET PLACES, SUC	CH AS STR	REAM EDGES. 225-2400 M.	
Last Date Observed:	1984-08-30		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1984-08-30		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-LAKE TA	HOE BMU	Trend:	Unknow	n	
Presence:	Presumed Extai	nt				
Location:						
NEAR ROUND LAKE, E	LDORADO NATI	ONAL FOREST.				
Detailed Location:						
MAPPED BY CNDDB A	S BEST GUESS	AROUND ROUND LAKE.				
Ecological:						
TSUGA MERTENSIANA	AND ABIES CO	NCOLOR FOREST.				
Threats:						
General:						
		R THIS SITE IS A 1984 NORRIS S FAR OUTSIDE OF THE RANG				A BY
PLSS: T10N, R18E, S	ec. 4 (M)	Accuracy:	2/5 mile		Area (acres):	280
UTM: Zone-10 N4293	8299 E760188	Latitude/Longitude:	38.75007 / -120.00604		Elevation (feet):	7,872
County Summary:		Quad Summary:				
Alpine, El Dorado Carson Pass (3811968), F						

NOR84S0011 NORRIS, D. - NORRIS #71178 HSC #92382 1984-08-30



California Department of Fish and Wildlife



IL DIVERSITY DAY				
Map Index Number:	14440		EO Index:	28981
Key Quad:	Freel Peak (3	811978)	Element Code:	PMCYP037K0
Occurrence Number:	3		Occurrence Last Updated:	2016-03-02
Scientific Name: C	Carex limosa		Common Name: mud se	edge
Listing Status:	Federal:	None	Rare Plant Rank: 2B.2	
	State:	None	Other Lists:	
CNDDB Element Rank	s: Global:	G5		
	State:	S3		
General Habitat:			Micro Habitat:	
	S, MARSHES A	CONIFEROUS FOREST, ND SWAMPS, UPPER MONTA		SOGGY MEADOWS AND EDGES OF LAKES.
Last Date Observed:	2014-08-03		Occurrence Type: Natura	al/Native occurrence
Last Survey Date:	2014-08-03		Occurrence Rank: Unkno	own
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend: Unkno	nwo
Presence:	Presumed Exta	ant		
Location:				
GRASS LAKE NEAR LU	JTHER PASS AL	LONG HIGHWAY 89.		
Detailed Location:				
				KE; FULL CENSUS NEEDED. SPECIFIC CTION IS FROM SECTION 14 (MIDDLE OF
Ecological:				
				ATA, MEESIA TRIQUETRA, VACCINIUM TRICULATA, C. CANESCENS, C. SIMULATA
Threats:				
General:				
FAIRLY ABUNDANT IN THIS SITE.	1991. MANY CO	OLLECTIONS, OBSERVATION	S AND PHOTOGRAPHS FROM 1936	-2014 FROM "GRASS LAKE" ATTRIBUTED 1
PLSS: T11N, R18E, S	Sec. 23, N (M)	Accuracy:	specific area	Area (acres): 292
UTM: Zone-11 N429	7755 E242759	Latitude/Longitude	e: 38.79104 / -119.96175	Elevation (feet): 7,700
County Summary:		Quad Summary:		
El Dorado Freel				



Sources:

Occurrence Report

California Department of Fish and Wildlife



eeureeer	
CNP11U0001	CALIFORNIA NATIVE PLANT SOCIETY - DATABASE OF RARE PLANTS AND MOSSES FROM LAKE TAHOE FENS 2011-05-13
DOB77S0004	DOBSON, H DOBSON #282 UC #1999785 1977-10-22
FER47S0003	FERRIS, R FERRIS #11621 UC #980032, RSA #40622, CAS #1179905, DS #321985, #322103, & #322404 1947-07-27
HEL77S0001	HELMKAMP, G HELMKAMP SN UCR #15426 1977-09-05
HEL77S0009	HELMKAMP, G HELMKAMP SN CLARK-A #1045-1173 1977-09-03
LO-14I0001	LO, B PHOTO OF CAREX LIMOSA, CALPHOTOS ID: 0000 0000 0814 0739 2014-08-03
MAT09I0004	MATSON, S PHOTOS OF CAREX LIMOSA, CALPHOTOS ID: 0000 0000 1209 0648-0651 2009-07-28
NEI71S0001	NEILSON, J NEILSON #2303 CAS #844236 1971-08-07
NIC09F0003	NICHOLS, R. (U.S. FOREST SERVICE-LAKE TAHOE BASIN MANAGEMENT UNIT) - FIELD SURVEY FORM FOR BRUCHIA BOLANDERI & MEESIA TRIQUETRA & CAREX LIMOSA 2009-06-29
NOR84S0010	NORRIS, D NORRIS #71331 HSC #92371 1984-09-01
PYK87S0005	PYKALA, J. ET AL PYKALA #2894 UC #1586889 1987-07-23
ROS91S0004	ROSE, C ROSE SN SJSU #14731 1991-07-20
STE36S0002	STEBBINS, G STEBBINS #2052 UC #593464 1936-08-18
THO69S0023	THORNE, R THORNE #39296 RSA #252433, CAS #577666 1969-09-07
THO74S0035	THORNE, R THORNE #44904 RSA #286314 1974-07-31
THO75S0005	THORNE, R. ET AL THORNE #47230 UC #1532818, RSA #364206, UCR #48233, SEINET #3903437, BRY #57689 1975-08-23



California Department of Fish and Wildlife



	: 73	3271		EO Index:	74225
Key Quad:	Fr	reel Peak (38	11978)	Element Code:	PMCYP037K0
Occurrence Numbe	er: 32	2		Occurrence Last Updated	l: 2016-03-01
Scientific Name:	Carex	limosa		Common Name: mud s	edge
Listing Status:		Federal:	None	Rare Plant Rank: 2B.2	
		State:	None	Other Lists:	
CNDDB Element Ra	anks:	Global:	G5		
		State:	S3		
General Habitat:				Micro Habitat:	
	EPS, M		CONIFEROUS FOREST, ND SWAMPS, UPPER MONTAN		SOGGY MEADOWS AND EDGES OF LAKES.
Last Date Observed	: 20	11-08-31		Occurrence Type: Natur	ral/Native occurrence
Last Survey Date:	20	11-08-31		Occurrence Rank: Good	t
Owner/Manager:	US	FS-LAKE TA	HOE BMU	Trend: Unkn	nown
Presence:	Pr€	esumed Extai	nt		
Location:					
HELL HOLE, 1.85 M	ILES W	EST OF ARM	ISTRONG PASS.		
Detailed Location:					
				POPULATION OCCURS CONTIGU 11 CHRISTIE COORDINATES, ANI	JOUSLY IN THE MIDDLE OF THE MEADOW D 2011 CNPS DIGITAL DATA.
Ecological:					
					ROM EXTREMELY WET TO SATURATED TO REX UTRICULATA, C. VESICARIA, ETC.
Threats:					
General: UNKNOWN NUMBE			ERVED IN 2008. THOUSANDS	OF PLANTS OBSERVED IN 2010 /	AND 2011. 2002 MATSON PHOTO IS ALSO
General: UNKNOWN NUMBE ATTRIBUTED TO TH	HIS SITI	E.	ERVED IN 2008. THOUSANDS Accuracy:	OF PLANTS OBSERVED IN 2010 / specific area	AND 2011. 2002 MATSON PHOTO IS ALSO Area (acres): 17
General: UNKNOWN NUMBE ATTRIBUTED TO TH PLSS: T11N, R18	HIS SITI E, Sec.	E. 1, SW (M)		specific area	
ATTRIBUTED TO TH PLSS: T11N, R18	HIS SITI E, Sec.	E. 1, SW (M)	Accuracy:	specific area	Area (acres): 17
General: UNKNOWN NUMBE ATTRIBUTED TO TH PLSS: T11N, R18H UTM: Zone-11 N4 County Summary:	HIS SITI E, Sec.	E. 1, SW (M)	Accuracy: Latitude/Longitude:	specific area 38.82466 / -119.94613	Area (acres): 17
General: UNKNOWN NUMBE ATTRIBUTED TO TH PLSS: T11N, R18H UTM: Zone-11 N4 County Summary: El Dorado	HIS SITI E, Sec.	E. 1, SW (M)	Accuracy: Latitude/Longitude: Quad Summary:	specific area 38.82466 / -119.94613	Area (acres): 17
General: JNKNOWN NUMBE ATTRIBUTED TO TH PLSS: T11N, R18H JTM: Zone-11 N4 County Summary: El Dorado Sources:	HIS SITI E, Sec. 1 4301443	E. 1, SW (M) 3 E244237	Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	specific area 38.82466 / -119.94613	Area (acres): 17 Elevation (feet): 8,400
General: UNKNOWN NUMBE ATTRIBUTED TO TH PLSS: T11N, R184 UTM: Zone-11 N4 County Summary: El Dorado Sources: CHR10F0004 CH	HIS SITI E, Sec. 4301443 HRISTIE	E. 1, SW (M) 3 E244237 5, K. (U.S. FC	Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	specific area 38.82466 / -119.94613) VEY FORM FOR CAREX LIMOSA 2	Area (acres): 17 Elevation (feet): 8,400
General: UNKNOWN NUMBE ATTRIBUTED TO TH PLSS: T11N, R18H UTM: Zone-11 N4 County Summary: El Dorado Sources: CHR10F0004 CH CHR10F0004 CH	HIS SITI E, Sec. 1 4301443 HRISTIE	E. 1, SW (M) 3 E244237 E, K. (U.S. FC E, K CHRIS	Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978)	specific area 38.82466 / -119.94613) VEY FORM FOR CAREX LIMOSA 2 ASC #99145 2010-08-30	Area (acres): 17 Elevation (feet): 8,400
General: UNKNOWN NUMBE ATTRIBUTED TO TH PLSS: T11N, R18H UTM: Zone-11 N4 County Summary: El Dorado Sources: CHR10F0004 CH CHR1050002 CH CHR11F0038 CH	HIS SITI E, Sec 4301443 HRISTIE HRISTIE HRISTIE	E. 1, SW (M) 3 E244237 E, K. (U.S. FC E, K CHRIS E, K FIELD	Accuracy: Latitude/Longitude: Quad Summary: Freel Peak (3811978) OREST SERVICE) - FIELD SUR' STIE #2009 SEINET #2471069, A SURVEY FORM FOR CAREX L	specific area 38.82466 / -119.94613) VEY FORM FOR CAREX LIMOSA 2 ASC #99145 2010-08-30 LIMOSA 2011-08-31	Area (acres): 17 Elevation (feet): 8,400



California Department of Fish and Wildlife



Map Index Number:	76558		EO Index:		77510			
Key Quad:	Heenan Lake	(3811966)	Element Code:	Element Code: Occurrence Last Updated:		PMCYP03AE0		
Occurrence Number:	13		Occurrence Last U					
Scientific Name: C	arex petasata		Common Name:	Liddon's	sedge			
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3				
	State:	None	Other Lists:					
CNDDB Element Ranks	s: Global:	G5						
	State:	S3						
General Habitat:			Micro Habitat:					
BROADLEAFED UPLAN FOREST, MEADOWS A	ND FOREST, LC ND SEEPS, PIN	OWER MONTANE CONIFEROUS	835-3030 M. ID.					
Last Date Observed:	1963-07-10		Occurrence Type:	Natural/I	Native occurrence			
Last Survey Date:	1963-07-10		Occurrence Rank:	Unknow	n			
Owner/Manager:	USFS-HUMBC	DLDT-TOIYABE NF	Trend:	Unknow	n			
Presence:	Presumed Exta	ant						
Location:								
0.5 MILE WEST OF MO	NITOR PASS, S	SIERRA NEVADA.						
Detailed Location:								
EXACT LOCATION UNI	KNOWN. MAPP	ED AS BEST GUESS BY CNDDE	3 0 TO 1 ROAD MILES WES	T OF MON	NITOR PASS ON HIGHWAY 89).		
Ecological:								
SAGEBRUSH FLAT.								
Threats:								
General:								
ONLY SOURCE OF INF	ORMATION FC	OR THIS OCCURRENCE IS A 196	3 COLLECTION BY HOWE	L. NEED	S FIELDWORK.			
PLSS: T10N, R21E, S	ec. 36, NW (M)	Accuracy:	non-specific area		Area (acres):	69		
UTM: Zone-11 N4283	3568 E271487	Latitude/Longitude:	38.67123 / -119.62665		Elevation (feet):	8,000		
County Summary:		Quad Summary:						
Alpine		Topaz Lake (3811965	i), Heenan Lake (3811966)					
Sources:								



California Department of Fish and Wildlife



Map Index Number:	90181		EO Index:	91188			
Key Quad:	Heenan Lake	(3811966)	Element Code: P		PMCYP03EA0		
Dccurrence Number: 13			Occurrence Last Up	dated: 2013-08	3-21		
Scientific Name: C	arex vallicola		Common Name:	western valley sed	ge		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3			
	State:	None	Other Lists:				
CNDDB Element Ranks	s: Global:	G5					
	State:	S2					
General Habitat:			Micro Habitat:				
GREAT BASIN SCRUB	MEADOWS AN	ID SEEPS.	MESIC SITES. 1865-	3045 M.			
Last Date Observed:	1964-08-10		Occurrence Type:	Natural/Native occ	currence		
Last Survey Date:	1964-08-10		Occurrence Rank:	Unknown			
Owner/Manager:	USFS-TOIYAB	ENF	Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
ROCKY KNOLL APPRC	XIMATELY 0.5	MILE SW OF MONITOR PASS.					
Detailed Location:							
EXACT LOCATION UNI SECTION 35.	KNOWN. MAPPI	ED AS BEST GUESS AROUND T	HE ROCKY KNOLL NEAR T	HE CENTER OF T	HE EASTERN BOUN	DARY OF	
Ecological:							
Threats:							
General:							
ONLY SOURCE OF INF	ORMATION FO	R THIS OCCURRENCE IS A 1964	4 HOWELL COLLECTION. N	NEEDS FIELDWOR	K.		
PLSS: T10N, R21E, S	ec. 35, E (M)	Accuracy:	1/5 mile		Area (acres):	0	
UTM: Zone-11 N4283	3422 E270918	Latitude/Longitude:	38.66977 / -119.63312		Elevation (feet):	8,250	
County Summary:		Quad Summary:					
Alpine		Heenan Lake (381196	6)				



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	37218		EO Index:		32218		
Key Quad:	Freel Peak (38	311978)	Element Code:	Element Code: PMC		PMCYP0Q1G0	
Occurrence Number:	1		Occurrence Last Up	odated:	1997-10-16		
Scientific Name: S	choenoplectus si	ubterminalis	Common Name:	water bul	rush		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3			
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G4G5					
	State:	S3					
General Habitat:			Micro Habitat:				
MARSHES AND SWAMPS, BOGS AND FENS.			MONTANE LAKE M	ARGINS, I	N SHALLOW WATER. 880-242	5 M.	
Last Date Observed:	1990-10-29		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	1990-10-29		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-ELDORA	ADO NF	Trend:	Unknow	n		
Presence:	Presumed Exta	nt					
Location:							
GRASS LAKE, WEST C	F LUTHER PAS	S ALONG HIGHWAY 89.					
Detailed Location:							
ALONG THE SOUTH S	DE OF LAKE ON	N FLOATING EDGE OF SPHAGN	NUM MAT IN OPEN WATER	-			
Ecological:							
MARGIN OF LARGE M DREGANA, AND ELOD		OG. GROWING WITH CAREX LIN	MOSA, DROSERA ROTUND	DIFOLIA, N	IENYANTHES TRIFOLIATA, SA	XIFRAGA	
Threats:							
General:							
1000+ PLANTS OBSER ATTRIBUTED TO THIS		1972 TAYLOR COLLECTION FR	ROM "GRASS LAKE, AT SUI	MMIT OF I	LUTHER PASS (HIGHWAY 89)'	' IS ALSO	
PLSS: T11N, R18E, S	ec. 14, SW (M)	Accuracy:	specific area		Area (acres):	7	
UTM: Zone-11 N429	3043 E242528	Latitude/Longitude:	38.79356 / -119.96451		Elevation (feet):	7,700	
County Summary:		Quad Summary:					
El Dorado		Freel Peak (3811978)					

TAY90F0008 TAYLOR, D. - FIELD SURVEY FORM FOR SCIRPUS SUBTERMINALIS 1990-10-29



California Department of Fish and Wildlife



Map Index Number:	36156		EO Index:	31153
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	PMPOA040P0
Occurrence Number:	4		Occurrence Last U	odated: 1997-07-18
Scientific Name: A	grostis humilis		Common Name:	mountain bent grass
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3
	State:	None	Other Lists:	
CNDDB Element Rank	s: Global:	G4Q		
	State:	S2		
General Habitat:			Micro Habitat:	
ALPINE BOULDER AN SUBALPINE CONIFER		MEADOWS AND SEEPS,		ALCAREOUS SUBSTRATES. PROBABLY D; HIGH ELEVATION GRASS. 1525-3400 M.
Last Date Observed:	1938-09-04		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1938-09-04		Occurrence Rank:	Unknown
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown
Presence:	Presumed Ext	ant		
Location:				
SUMMIT OF EBBETTS	PASS, SIERRA	NEVADA.		
Detailed Location:				
Ecological:				
MEADOW.				
Threats:				
General:				
ONLY SOURCE OF INI	FORMATION FO	OR THIS SITE IS 1938 COLLECT	TION BY LORRAINE.	
PLSS: T08N, R20E, S	Sec. 18, E (M)	Accuracy:	2/5 mile	Area (acres): 0
UTM: Zone-11 N426	9951 E254920	Latitude/Longitude	: 38.54424 / -119.81208	Elevation (feet): 8,800
County Summary:		Quad Summary:		
Alpine		Ebbetts Pass (38119	957)	



California Department of Fish and Wildlife



Map Index Number:	A3200		EO Index:		104829		
Key Quad:	Carson Pass ((3811968)	Element Code:	Element Code: PMF		POA2H170	
Occurrence Number:	10		Occurrence Last Up	dated:	2016-12-29		
Scientific Name: E	lymus scribneri		Common Name:	Scribner's	wheat grass		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3			
	State:	None	Other Lists:				
CNDDB Element Ranks	s: Global:	G5					
	State:	S3					
General Habitat:			Micro Habitat:				
ALPINE BOULDER AND	O ROCK FIELD.		ON ROCKY SLOPES	8. 2560-414	15 M.		
Last Date Observed:	1973-08-21		Occurrence Type:	Natural/N	ative occurrence		
Last Survey Date:	1973-08-21		Occurrence Rank:	Unknown			
Owner/Manager:	USFS		Trend:	Unknown			
Presence:	Presumed Exta	int					
Location:							
NORTH SIDE AND EAS	T BASE OF ELE	EPHANTS BACK, CARSON PASS	З.				
Detailed Location:							
	ESS AROUND T	HE NORTH AND EAST SIDES O	F ELEPHANTS BACK.				
Ecological:							
ON GRANITIC SUBSTR	ATE.						
Threats: General:							
		LECTION AND A 1973 TAYLOR		DWORK			
					A		
SITE BASED ON A 195		A	O/E mile			200	
SITE BASED ON A 195 PLSS: T10N, R18E, S	ec. 27 (M)	Accuracy:	2/5 mile		Area (acres):	280	
SITE BASED ON A 195 PLSS: T10N, R18E, S UTM: Zone-11 N428	ec. 27 (M)	Latitude/Longitude:	2/5 mile 38.68118 / -119.98182		Elevation (feet):	280 9,000	
SITE BASED ON A 195 PLSS: T10N, R18E, S UTM: Zone-11 N428 County Summary:	ec. 27 (M)	Latitude/Longitude: Quad Summary:	38.68118 / -119.98182		. ,		
SITE BASED ON A 195 PLSS: T10N, R18E, S UTM: Zone-11 N428	ec. 27 (M)	Latitude/Longitude:	38.68118 / -119.98182		. ,		



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A3201	949904)	EO Index:	104830
Key Quad: Occurrence Number:	Caples Lake (3	812061)	Element Code: Occurrence Last Up	PMPOA2H170 dated: 2016-12-28
	lymus scribneri		· · ·	Scribner's wheat grass
	-			C C
Listing Status:	Federal:	None		2B.3
	State:	None	Other Lists:	
CNDDB Element Ranks		G5		
	State:	S3		
General Habitat:			Micro Habitat:	
ALPINE BOULDER AND	ROCK FIELD.		ON ROCKY SLOPES	. 2560-4145 M.
Last Date Observed:	1974-08-27		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1974-08-27		Occurrence Rank:	Unknown
Owner/Manager:	USFS-ELDORA	DO NF	Trend:	Unknown
Presence:	Presumed Extar	nt		
Location:				
3.5 MILES WEST FROM	I UPPER BLUE L	AKE ON SOUTH SIDE OF SUM	MIT CITY CREEK.	
Detailed Location:				
		TO INCLUDE 3.5 AIR MILES AN E GIVEN ELEVATION OF 8400		F UPPER BLUE LAKE ON THE SOUTH SIDE OF
Ecological:	AND TO INCLUD	E GIVEN ELEVATION OF 8400		
C C	NOWBANKS ON	THE RIDGE. VOLCANIC SUBST	RATE	
Threats:				
General:				
ONLY SOURCE OF INF	ORMATION FOR	THIS SITE IS A 1974 TAYLOR	COLLECTION. NEEDS FIEL	DWORK.
PLSS: T09N, R18E, S	ec. 9 (M)	Accuracy:	3/5 mile	Area (acres): 776
UTM: Zone-10 N4280)488 E760372	Latitude/Longitude:	38.63472 / -120.00873	Elevation (feet): 8,400
County Summary:		Quad Summary:		
Alpine		Carson Pass (3811968	3), Caples Lake (3812061)	
Sources:				
TAY74S0020 TAYL	OR, D TAYLOR	#4883 DAV #61301 1974-08-27		

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad: Occurrence Number:	28031 Pacific Valley (3811958) : 2		EO Index: Element Code: Occurrence Last U	Element Code: PN		970 PMPOT030Z0 2003-07-23	
Scientific Name: P	otamogeton robb	insii	Common Name:	Robbins'	pondweed		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3			
-	State:	None	Other Lists:				
CNDDB Element Ranks	: Global:	G5					
	State:	S3					
General Habitat:			Micro Habitat:				
MARSHES AND SWAM	PS.		DEEP WATER, LAK	ES. 1525-	3495 M.		
Last Date Observed:	1941-09-10		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	1941-09-10		Occurrence Rank:	Unknow	n		
Owner/Manager:	UNKNOWN		Trend:	Unknow	n		
Presence:	Presumed Exta	nt					
Location:							
SUNSET LAKE (NEAR	BLUE LAKE), HE	ADWATERS OF THE EAST CAR	RSON RIVER.				
Detailed Location:							
MAPPED ACCORDING	TO DIRECTION	S PROVIDED BY D. TAYLOR IN	2003.				
Ecological:							
Threats:							
General:							
ONLY SOURCE OF INF	ORMATION FO	R THIS SITE IS 1941 COLLECTIO	ON BY CALHOUN.				
PLSS: T09N, R19E, S	ec. 27, NW (M)	Accuracy:	2/5 mile		Area (acres):	0	
UTM: Zone-11 N427	7390 E249457	Latitude/Longitude:	38.60967 / -119.87736		Elevation (feet):	11,464	
County Summary:		Quad Summary:					
Alpine		Ebbetts Pass (381195	7), Pacific Valley (3811958)				
Sources:							
CAL41S0001 CALH	OUN, A CALH	OUN SN DS #279527, GH #3554	94 1941-09-10				

TAY03U0001 TAYLOR, D. - EMAIL TO R. BITTMAN REGARDING POTAMOGETON ROBBINSII CNDDB CORRECTION 2003-07-08



California Department of Fish and Wildlife



Map Index Number:	14440		EO Index:		90696		
Key Quad:	Freel Peak (38	811978)	Element Code:	Element Code: PMPC		OT030Z0	
Occurrence Number:	rence Number: 12 Occurre		Occurrence Last Up	Occurrence Last Updated: 2013-07-16			
Scientific Name: P	otamogeton robl	pinsii	Common Name:	Robbins'	pondweed		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3			
	State:	None	Other Lists:				
CNDDB Element Ranks: Global: G5		G5					
	State:	S3					
General Habitat:			Micro Habitat:				
MARSHES AND SWAM	IPS.		DEEP WATER, LAK	ES. 1525-3	3495 M.		
Last Date Observed:	1975-08-23		Occurrence Type:	Natural/N	Native occurrence		
Last Survey Date:	1975-08-23		Occurrence Rank:	Unknowr	n		
Owner/Manager:	USFS-LAKE T	AHOE BMU	Trend:	Unknowr	n		
Presence:	Presumed Exta	ant					
Location:							
GRASS LAKE, JUST N	ORTH OF LUTH	ER PASS.					
Detailed Location:							
MAPPED BY CNDDB A	S BEST GUESS	AROUND GRASS LAKE; EXACT	LOCATION OF POTAMOO	GETON RC	OBBINSII WITHIN THE LAKE I	S UNKNOW	
Ecological:							
		RS DEEP AT EDGE OF FLOATIN RIS, MYRIOPHYLLUM VERTICILL		BRASENI	A SCHREBERI, NUPHAR LU	ΓEA	
Threats:			ATOM, ETC.				
General:							
	ORMATION FO	R THIS OCCURRENCE IS A 197	5 THORNE & DEBUHR CO	LLECTION	I.		
PLSS: T11N, R18E, S	Sec. 23, N (M)	Accuracy:	specific area		Area (acres):	292	
UTM: Zone-11 N429	7755 E242759	Latitude/Longitude:	38.79104 / -119.96175		Elevation (feet):	7,700	
County Summary:		Quad Summary:					
eeung eunnary.							
El Dorado		Freel Peak (3811978)					



California Department of Fish and Wildlife



Map Index Number:	97926		EO Index:	99321		
Key Quad:	Ebbetts Pass	(3811957)	Element Code:	PPOPH010S0		
Occurrence Number:	29		Occurrence Last Up	pdated: 2015-10-21		
Scientific Name:	Botrychium ascen	ndens	Common Name:	upswept moonwort		
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3		
	State:	None	Other Lists:	USFS_S-Sensitive		
CNDDB Element Ran	ks: Global:	G3G4				
	State:	S2				
General Habitat:			Micro Habitat:			
LOWER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS.			GRASSY FIELDS, CONIFEROUS WOODS NEAR SPRINGS AND CREEKS. 1115-3265 M.			
Last Date Observed:	2014-08-23		Occurrence Type:	Natural/Native occurrence		
Last Survey Date:	2014-08-23		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-STANIS	SLAUS NF	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
SW TRYON MEADOV	√, HIGHLAND LAP	KES VICINITY, STANISLAUS NATIO	ONAL FOREST.			
Detailed Location:						
MAPPED ACCORDIN	G TO 2014 LO CO	OORDINATES AND DIGITAL DATA	, IN THE NW 1/4 OF THE	SW 1/4 OF SECTION 32.		
Foological						
Ecological.	CEDADATE CEE			VERY STEEP SLOPE. PARENT MATERIAL IS ED WITH GENTIANA CALYCOSA, ARNICA, ETC.		
GROWING IN THREE						
VOLCANIC, SLOPE IS		ASPECT IS EAST, AND LIGHT IS P	ARTIAL SUN. ASSOCIATI	ED WITH GENTIANA CALTCOSA, ARNICA, ETC.		
GROWING IN THREE VOLCANIC, SLOPE IS Threats:		ASPECT IS EAST, AND LIGHT IS P	ARTIAL SUN. ASSOCIATI	ED WITH GENTIANA CALTOUSA, ARNICA, ETC.		
GROWING IN THREE VOLCANIC, SLOPE IS Threats: EROSION.		ASPECT IS EAST, AND LIGHT IS P	ARTIAL SUN. ASSOCIATI	ED WITH GENTIANA CALTCOSA, ARNICA, ETC.		
GROWING IN THREE VOLCANIC, SLOPE IS Threats: EROSION. General:	S 30 DEGREES, A			VE BEEN BOTRYCHIUM LINEARE.		
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GROWING IN THREE VOLCANIC, SLOPE IS Threats: EROSION. General: 51 PLANTS OBSERVI PLSS: T08N, R20E,	S 30 DEGREES, A ED IN 2014. AN A	DDITIONAL 38 PLANTS WERE FO	OUND BUT THEY MAY HA	VE BEEN BOTRYCHIUM LINEARE.		
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California Department of Fish and Wildlife



Map Index Number:	99159		EO Index:	100674	
Key Quad:	Carson Pass	(3811968)	Element Code:	PPOPH010S0	
Occurrence Number:	42		Occurrence Last U	odated: 2016-02-10	
Scientific Name: B	otrychium ascer	ndens	Common Name:	upswept moonwort	
Listing Status:	Federal:	None	Rare Plant Rank:	2B.3	
	State:	None	Other Lists:	USFS_S-Sensitive	
CNDDB Element Ranks: Global: G3G4		G3G4			
	State:	S2			
General Habitat:			Micro Habitat:		
LOWER MONTANE CO	NIFEROUS FO	REST, MEADOWS AND SEEPS.	GRASSY FIELDS, C CREEKS. 1115-326	ONIFEROUS WOODS NEAR SPR 5 M.	NGS AND
Last Date Observed:	xxxx-xx-xx		Occurrence Type:	Natural/Native occurrence	
Last Survey Date:	XXXX-XX-XX		Occurrence Rank:	Unknown	
Owner/Manager:	UNKNOWN		Trend:	Unknown	
Presence:	Presumed Ext	ant			
Location:					
CARSON PASS SOUTH	1.				
Detailed Location:					
EXACT LOCATION UNI A PLANT CHECKLIST (ARSON PASS AND MAJO	R TRAILS HEADING SOUTH FROM	I PASS, BASED
Ecological:					
Threats:					
General:					
ONLY SOURCE OF INF	ORMATION FO	OR THIS SITE IS AN EL DORADO	CNPS PLANT CHECKLIST	. DATE OF OBSERVATION IS UNF	NOWN.
PLSS: T10N, R18E, S	ec. 27 (M)	Accuracy:	1 mile	Area (acres	: 1,987
UTM: Zone-11 N428	5824 E240232	Latitude/Longitude:	38.68292 / -119.98633	Elevation (f	eet):
County Summary:		Quad Summary:			
Alpine		Carson Pass (3811968	3), Caples Lake (3812061)		



*The database uporter or vide and also to the galine provide and changes made since May 2019 here.

Plant List

35 matches found. Click on scientific name for details

Search Criteria

Found in Quads 3811978, 3811977, 3811976, 3811968, 3811967, 3811966, 3811958 3811957 and 3811956;

Q Modify Search Criteria Export to Excel O Modify Columns 2 Modify Sort Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Raro Plant Rank	^e State Rank	Global Rank
<u>Agrostis humilis</u>	mountain bent grass	Poaceae	perennial herb	Jul-Sep	2B.3	S2	G4Q
<u>Astragalus whitneyi</u> var. lenophyllus	woolly-leaved milk-vetch	Fabaceae	perennial herb	Jul-Aug	4.3	S4	G5T4
<u>Boechera</u> <u>microphylla</u>	small-leaved rockcress	Brassicaceae	perennial herb	Jul	3	S3	G4Q
<u>Botrychium</u> ascendens	upswept moonwort	Ophioglossaceae	perennial rhizomatous herb	(Jun)Jul- Aug	2B.3	S2	G3G4
<u>Bruchia bolanderi</u>	Bolander's bruchia	Bruchianceae	moss		4.2	S3	G3G4
<u>Carex davyi</u>	Davy's sedge	Cyperaceae	perennial herb	May-Aug	1B.3	S3	G3
<u>Carex limosa</u>	mud sedge	Cyperaceae	perennial rhizomatous herb	Jun-Aug	2B.2	S3	G5
<u>Carex petasata</u>	Liddon's sedge	Cyperaceae	perennial herb	May-Jul	2B.3	S3	G5
Carex vallicola	western valley sedge	Cyperaceae	perennial rhizomatous herb	Jul-Aug	2B.3	S2	G5
<u>Caulanthus major</u> <u>var. nevadensis</u>	slender jewelflower	Brassicaceae	perennial herb	Jun-Sep	4.3	S3?	G4T3?
<u>Chaenactis</u> <u>douglasii var.</u> <u>alpina</u>	alpine dusty maidens	Asteraceae	perennial herb	Jul-Sep	2B.3	S2	G5T5
<u>Claytonia</u> megarhiza	fell-fields claytonia	Montiaceae	perennial herb	Jul-Sep	2B.3	S2	G5
<u>Claytonia</u> <u>umbellata</u>	Great Basin claytonia	Montiaceae	perennial herb	May-Aug	2B.3	S1	G4

<u>Crepis runcinata</u>	fiddleleaf hawksbeard	Asteraceae	perennial herb	May-Aug	2B.2	S3	G5
<u>Cryptantha</u> <u>crymophila</u>	subalpine cryptantha	Boraginaceae	perennial herb	Jul-Aug	1B.3	S3	G3
<u>Cryptantha</u> glomeriflora	clustered-flower cryptantha	Boraginaceae	annual herb	Jun-Sep	4.3	S4	G4Q
<u>Draba asterophora</u> <u>var. asterophora</u>	Tahoe draba	Brassicaceae	perennial herb	Jul- Aug(Sep)	1B.2	S2?	G2T2?
<u>Elymus scribneri</u>	Scribner's wheat grass	Poaceae	perennial herb	Jul-Aug	2B.3	S3	G5
<u>Epilobium howellii</u>	subalpine fireweed	Onagraceae	perennial stoloniferous herb	Jul-Aug	4.3	S4	G4
Epilobium palustre	marsh willowherb	Onagraceae	perennial rhizomatous herb	Jul-Aug	2B.3	S2	G5
<u>Eriastrum</u> <u>sparsiflorum</u>	few-flowered eriastrum	Polemoniaceae	annual herb	May-Sep	4.3	S4	G5
<u>Eriogonum</u> <u>luteolum var.</u> <u>saltuarium</u>	Jack's wild buckwheat	Polygonaceae	annual herb	Jul-Sep	1B.2	S1	G5T1
Eriophorum gracile	slender cottongrass	Cyperaceae	perennial rhizomatous herb (emergent)	May-Sep	4.3	S4	G5
<u>Erythranthe</u> <u>carsonensis</u>	Carson Valley monkeyflower	Phrymaceae	annual herb	Apr-Jun	1B.1	S1	G2
<u>Helodium blandowii</u>	Blandow's bog moss	Helodiaceae	moss		2B.3	S2	G4
<u>Helodium blandowii</u> <u>Lewisia kelloggii</u> <u>ssp. hutchisonii</u>	-	Helodiaceae Montiaceae	moss perennial herb	(Apr)May- Aug	2B.3 3.2	S2 S3	G4 G3G4T3Q
<u>Lewisia kelloggii</u>	moss Hutchison's	Montiaceae					
<u>Lewisia kelloggii</u> <u>ssp. hutchisonii</u> Lewisia kelloggii	moss Hutchison's Iewisia	Montiaceae	perennial herb	Aug (Apr)May-	3.2	S3	G3G4T3Q
<u>Lewisia kelloggii</u> ssp. hutchisonii <u>Lewisia kelloggii</u> ssp. kelloggii	moss Hutchison's Iewisia Kellogg's lewisia three-ranked	Montiaceae Montiaceae	perennial herb perennial herb	Aug (Apr)May- Aug	3.2 3.2	S3 S2S3	G3G4T3Q G3G4T2T3Q
<u>Lewisia kelloggii</u> <u>ssp. hutchisonii</u> <u>Lewisia kelloggii</u> <u>ssp. kelloggii</u> <u>Meesia triquetra</u> <u>Polystichum</u>	moss Hutchison's Iewisia Kellogg's Iewisia three-ranked hump moss northern holly	Montiaceae Montiaceae Meesiaceae	perennial herb perennial herb moss perennial rhizomatous herb perennial	Aug (Apr)May- Aug Jul Jun-Sep	3.2 3.2 4.2	S3 S2S3 S4	G3G4T3Q G3G4T2T3Q G5
Lewisia kelloggii ssp. hutchisonii Lewisia kelloggii ssp. kelloggii Meesia triquetra Polystichum Ionchitis Potamogeton	moss Hutchison's lewisia Kellogg's lewisia three-ranked hump moss northern holly fern Robbins'	Montiaceae Montiaceae Meesiaceae Dryopteridaceae	perennial herb perennial herb moss perennial rhizomatous herb perennial rhizomatous herb	Aug (Apr)May- Aug Jul Jun-Sep	3.2 3.2 4.2 3	S3 S2S3 S4 S3	G3G4T3Q G3G4T2T3Q G5 G5
Lewisia kelloggii ssp. hutchisonii Lewisia kelloggii ssp. kelloggii Meesia triquetra Polystichum Ionchitis Potamogeton robbinsii	moss Hutchison's Iewisia Kellogg's Iewisia three-ranked hump moss northern holly fern Robbins' pondweed	Montiaceae Montiaceae Meesiaceae Dryopteridaceae Potamogetonaceae	perennial herb perennial herb moss perennial rhizomatous herb perennial rhizomatous herb (aquatic) perennial	Aug (Apr)May- Aug Jul Jun-Sep Jul-Aug	3.2 3.2 4.2 3 2B.3	S3 S2S3 S4 S3 S3	G3G4T3Q G3G4T2T3Q G5 G5 G5
Lewisia kelloggii ssp. hutchisonii Lewisia kelloggii ssp. kelloggii Meesia triquetra Polystichum Ionchitis Potamogeton robbinsii Rhamnus alnifolia	moss Hutchison's lewisia Kellogg's lewisia three-ranked hump moss northern holly fern Robbins' pondweed alder buckthorn	Montiaceae Montiaceae Meesiaceae Dryopteridaceae Potamogetonaceae Rhamnaceae	perennial herb perennial herb moss perennial rhizomatous herb perennial rhizomatous herb (aquatic) perennial deciduous shrub perennial rhizomatous herb	Aug (Apr)May- Aug Jul Jun-Sep Jul-Aug May-Jul Jun-	 3.2 3.2 4.2 3 2B.3 2B.2 	S3 S2S3 S4 S3 S3 S3	G3G4T3Q G3G4T2T3Q G5 G5 G5 G5
Lewisia kelloggii ssp. hutchisonii Lewisia kelloggii ssp. kelloggii Meesia triquetra Polystichum Ionchitis Potamogeton robbinsii Rhamnus alnifolia Schoenoplectus subterminalis	moss Hutchison's lewisia Kellogg's lewisia three-ranked hump moss northern holly fern Robbins' pondweed alder buckthorn water bulrush	Montiaceae Montiaceae Meesiaceae Dryopteridaceae Potamogetonaceae Rhamnaceae Cyperaceae	perennial herb perennial herb moss perennial rhizomatous herb (aquatic) perennial deciduous shrub perennial rhizomatous herb (aquatic) perennial rhizomatous herb	Aug (Apr)May- Aug Jul Jun-Sep Jul-Aug May-Jul Jun- Aug(Sep)	 3.2 3.2 4.2 3 2B.3 2B.2 2B.3 	S3 S2S3 S4 S3 S3 S3 S3	G3G4T3Q G3G4T2T3Q G5 G5 G5 G5 G5 G4G5

Suggested Citation

California Native Plant Society, Rare Plant Program. 2020. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 15 September 2020].

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Contributors

The California Database The California Lichen Society California Natural Diversity Database The Jepson Flora Project The Consortium of California Herbaria CalPhotos

Questions and Comments

rareplants@cnps.org

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IPaC resource list

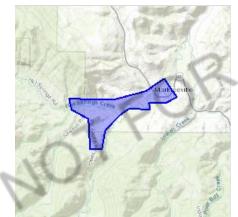
This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

NSU

Location

Alpine County, California



Local office

Reno Fish And Wildlife Office

▶ (775) 861-6300
▶ (775) 861-6301

1340 Financial Boulevard, Suite 234 Reno, NV 89502-7147

http://www.fws.gov/nevada/

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and projectspecific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species

¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Amphibians

NAME	STATUS
Sierra Nevada Yellow-legged Frog Rana sierrae There is final critical habitat for this species. Your location is outside the critical habitat. <u>https://ecos.fws.gov/ecp/species/9529</u>	Endangered
Yosemite Toad Anaxyrus canorus There is final critical habitat for this species. Your location is outside the critical habitat. <u>https://ecos.fws.gov/ecp/species/7255</u>	Threatened
Fishes NAME	STATUS
Lahontan Cutthroat Trout Oncorhynchus clarkii henshawi No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/3964</u>	Threatened
Critical habitats)~

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act

 $\frac{1}{2}$ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php

- Measures for avoiding and minimizing impacts to birds <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> <u>conservation-measures.php</u>
- Nationwide conservation measures for birds
 <u>http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf</u>

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds</u> of <u>Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ <u>below</u>. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.



BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Breeds Jan 1 to Aug 31

Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626

Black Swift Cypseloides niger

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8878 Breeds Jun 15 to Sep 10

Cassin's Finch Carpodacus cassinii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9462</u>	Breeds May 15 to Jul 15
Lewis's Woodpecker Melanerpes lewis This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9408</u>	Breeds Apr 20 to Sep 30
Olive-sided Flycatcher Contopus cooperi This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/3914</u>	Breeds May 20 to Aug 31
Rufous Hummingbird selasphorus rufus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8002</u>	Breeds elsewhere
Williamson's Sapsucker Sphyrapicus thyroideus This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <u>https://ecos.fws.gov/ecp/species/8832</u>	Breeds May 1 to Jul 31
Willow Flycatcher Empidonax traillii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <u>https://ecos.fws.gov/ecp/species/3482</u>	Breeds May 20 to Aug 31

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network</u> (<u>AKN</u>). The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian</u> <u>Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science</u> <u>datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or yearround), you may refer to the following resources: <u>The Cornell Lab of Ornithology All About Birds Bird Guide</u>, or (if you are unsuccessful in locating the bird of interest there), the <u>Cornell Lab of Ornithology Neotropical Birds guide</u>. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS</u> <u>Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to NSULTI migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of **Engineers District.**

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

PEM1C PEM1A

FRESHWATER FORESTED/SHRUB WETLAND

<u>PSS1A</u>

FRESHWATER POND PUBHx

RIVERINE

R3UBH R4SBCx R4SBC R5UBFx

A full description for each wetland code can be found at the National Wetlands Inventory website

J10

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities

involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOTFORCONSULTATION

Appendix B

Energy Calculation Data

Construction Offroad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of days	Diesel Fuel Usage
Site Preparation	Excavator	1	8	158	0.3819	10	241
Site Preparation	Off-highway trucks	2	8	402	0.3819	10	1,228
Infrastructure	Excavator	1	8	158	0.3819	55	1,327
removal and							
replacement							
Infrastructure	Generator set	1	8	84	0.74	55	1,368
removal and							
replacement							
Infrastructure	Welder	1	8	46	0.45	55	455
removal and							
replacement							
Infrastructure	Off-highway trucks	2	8	402	0.3819	55	6,755
removal and							
replacement							
Pump station	Generator set	1	8	84	0.74	30	746
construction							
Pump station	Tractor/loader/bac	1	8	97	0.37	30	431
construction	khoe						
Pump station	Welder	1	8	46	0.45	30	248
construction							
Pump station	Bore/Drill rig	1	8	221	0.50	30	1,333
construction							
Architectural	Air Compressor	1	8	78	0.48	5	75
Coating							
						TOTAL	14,208

Notes: Equipment assumptions are consistent with CalEEMod. Fuel usage average of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Trips and VMT

Phase Name	Daily Worker Trip	Daily Vendor Trip	Daily Hauling Trip	Days per Year	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Worker Trip Length (miles)		Haul Trip Length (miles)	Total Worker Trip Length (miles)	Total Vendor Trip Length (miles)	Total Haul Trip Length (miles)	Total gallons of gasoline	Total gallons of diesel
Site Preparation	18	0	0	10	180	0	0	10.00	6.50	20.00	1800	0.00	-	61	0
Infrastructure															
removal and	18	2	3	55	990	110	165	10.00	6.50	20.00	9900	715.00	3,300.00	334	588
replacement															
Pump station	18	2	0	30	540	60	0	10.00	6.50	20.00	5400	390.00		182	57
construction	10	2	0	50	540	00	U	10.00	0.50	20.00	5400	350.00	-	102	57
Architectural	18	0	0	-	90	0	0	10.00	6.50	20.00	900	0.00		30	0
Coating	10	0	0	5	30	0	0	10.00	0.30	20.00	500	0.00	_	50	0
													TOTAL	608	645

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

EMFAC2017 (v1.0.2) Emissions Inventory Region Type: County Region: Alpine Calendar Year: 2021 Season: Annual Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	Fuel gas	Miles per
				miles/hr		vehicles	miles/day	trips/day	1,000 gallons/day	gallon
ALPINE	2021	LDA	Aggregated	Aggregated	GAS	2,892	111,758	13,591	3.5	32.20
ALPINE	2021	LDA	Aggregated	Aggregated	DSL	22	948	107	0.0	52.43
ALPINE	2021	LDA	Aggregated	Aggregated	ELEC	32	1,369	164	-	-
ALPINE	2021	LDT1	Aggregated	Aggregated	GAS	335	11,500	1,501	0.4	27.27
ALPINE	2021	LDT1	Aggregated	Aggregated	DSL	0	1	0	0.0	30.07
ALPINE	2021	LDT1	Aggregated	Aggregated	ELEC	1	50	6	-	-
ALPINE	2021	LDT2	Aggregated	Aggregated	GAS	1,152	41,424	5,305	1.7	24.84
ALPINE	2021	LDT2	Aggregated	Aggregated	DSL	7	298	34	0.0	37.97
ALPINE	2021	LDT2	Aggregated	Aggregated	ELEC	6	213	32	-	-
ALPINE	2021	T7 tractor	Aggregated	Aggregated	DSL	6	657	74	0.1	6.8

Notes: Consistent with CalEEMod, worker vehicles assumed to be gasoline and 50% LDA, 25% LDT1, and 25% LDT2. Vendor trips are assumed to be 100% diesel Heavy-Duty Trucks (T7).

Fuel Efficiency Calculation

	Value	Units
Gasoline consumption by LDA,		
LDT 1, and LDT 2	5,560	gallons/day
VMT for LDA, LDT1, and LDT 2	164,683	miles/day
Gasoline fuel efficiency	29.62	miles/gallon
Diesel consumption by T7		
tractor construction	96.3	gallons/day
VMT for T7 tractor		
construction	657	miles/day
Diesel fuel efficiency	6.82	miles/gallon

EMFAC2017 (v1.0.2) Emissions Inventory Region Type: County Region: ALPINE Calendar Year: 2021 Season: Annual Vehicle Classification: EMFAC2011 Categories Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

	Calendar	Vehicle	Model						NOx_RUN	NOx_IDLE	NOx_STRE	NOx_TOT
Region	Year	Category	Year	Speed	Fuel	Population	VMT	Trips	EX	Х	Х	EX
ALPINE	2021	LDA	Aggregate	c Aggregate	c GAS	2891.558165	111758.4	13591.07	0.006719	0	0.003635	0.010355
ALPINE	2021	LDA	Aggregate	c Aggregate	c DSL	21.98603445	948.423	107.4965	9.91E-05	0	0	9.91E-05
ALPINE	2021	LDA	Aggregate	c Aggregate	c ELEC	32.29684409	1369.009	164.292	0	0	0	0
ALPINE	2021	LDT1	Aggregate	c Aggregate	c GAS	334.7859245	11500.17	1501.351	0.002267	0	0.000673	0.002941
ALPINE	2021	LDT1	Aggregate	c Aggregate	c DSL	0.014887563	0.697583	0.07557	2.14E-08	0	0	2.14E-08
ALPINE	2021	LDT1	Aggregate	c Aggregate	c ELEC	1.135863469	49.65087	5.83366	0	0	0	0
ALPINE	2021	LDT2	Aggregate	c Aggregate	c GAS	1152.295036	41424.33	5305.149	0.005839	0	0.002509	0.008347
ALPINE	2021	LDT2	Aggregate	c Aggregate	c DSL	6.808836468	297.92	33.80697	9.39E-06	0	0	9.39E-06
ALPINE	2021	LDT2	Aggregate	c Aggregate	c ELEC	6.285362319	213.239	32.00876	0	0	0	0
ALPINE	2021	T7 tractor	Aggregate	c Aggregate	c DSL	5.843480685	657.1886	74.2122	0.00439	0.000183	8.62E-05	0.004658

PM2.5_R	PM2.5_ID	PM2.5_ST	PM2.5_TO	PM2.5_P	PM2.5_P	PM2.5_TO	PM10_RU	PM10_IDL	PM10_ST	PM10_TO	PM10_PM	PM10_PM	PM10_TO
UNEX	LEX	REX	TEX	MTW	MBW	TAL	NEX	EX	REX	TEX	TW	BW	TAL
0.000174	0	2.86E-05	0.000203	0.000246	0.00194	0.002389	0.000189	0	3.11E-05	0.000221	0.000986	0.004527	0.005733
5.16E-06	0	0	5.16E-06	2.09E-06	1.65E-05	2.37E-05	5.4E-06	0	0	5.4E-06	8.36E-06	3.84E-05	5.22E-05
0	0	0	0	3.02E-06	2.38E-05	2.68E-05	0	0	0	0	1.21E-05	5.55E-05	6.75E-05
2.88E-05	0	5.03E-06	3.39E-05	2.54E-05	0.0002	0.000259	3.13E-05	0	5.47E-06	3.68E-05	0.000101	0.000466	0.000604
2.38E-09	0	0	2.38E-09	1.54E-09	1.21E-08	1.6E-08	2.49E-09	0	0	2.49E-09	6.15E-09	2.83E-08	3.69E-08
0	0	0	0	1.09E-07	8.62E-07	9.71E-07	0	0	0	0	4.38E-07	2.01E-06	2.45E-06
6.74E-05	0	1.15E-05	7.9E-05	9.13E-05	0.000719	0.000889	7.33E-05	0	1.26E-05	8.59E-05	0.000365	0.001678	0.002129
1.14E-06	0	0	1.14E-06	6.57E-07	5.17E-06	6.96E-06	1.19E-06	0	0	1.19E-06	2.63E-06	1.21E-05	1.59E-05
0	0	0	0	4.7E-07	3.7E-06	4.17E-06	0	0	0	0	1.88E-06	8.64E-06	1.05E-05
7.08E-05	2.99E-07	0	7.11E-05	6.52E-06	1.92E-05	9.68E-05	7.4E-05	3.13E-07	0	7.43E-05	2.61E-05	4.47E-05	0.000145

CO2_RUN	CO2_IDLE	CO2_STRE	CO2_TOT	CH4_RUN	CH4_IDLE	CH4_STRE	CH4_TOTE	N2O_RUN	N2O_IDLE	N2O_STRE	N2O_TOT	ROG_RUN	ROG_IDLE
EX 2	Х	Х	EX	EX	Х	Х	Х	EX	Х	Х	EX	EX	Х
32.0046	0	0.876458	32.88106	0.000349	0	0.001139	0.001488	0.000681	0	0.000458	0.001139	0.00144	0
0.202973	0	0	0.202973	6.71E-07	0	0	6.71E-07	3.19E-05	0	0	3.19E-05	1.44E-05	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.878992	0	0.116102	3.995094	0.000101	0	0.000217	0.000318	0.000152	0	6.11E-05	0.000213	0.000466	0
0.00026	0	0	0.00026	5.31E-10	0	0	5.31E-10	4.09E-08	0	0	4.09E-08	1.14E-08	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
15.34395	0	0.452524	15.79648	0.00022	0	0.000651	0.000871	0.000421	0	0.000241	0.000662	0.00096	0
0.088047	0	0	0.088047	2.35E-07	0	0	2.35E-07	1.38E-05	0	0	1.38E-05	5.06E-06	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.052883	0.027663	0	1.080546	5.72E-06	5.04E-07	0	6.22E-06	0.000165	4.35E-06	0	0.00017	0.000123	1.08E-05

ROG_STRE	ROG_TOT	ROG_DIU	ROG_HTS	ROG_RUN	ROG_REST	ROG_TOT	TOG_RUN	TOG_IDLE	TOG_STRE	TOG_TOT	TOG_DIU	TOG_HTS	TOG_RUN
Х	EX	RN	К	LS	L	AL	EX	Х	Х	EX	RN	К	LS
0.005388	0.006829	0.000332	0.001876	0.004092	0.000237	0.013366	0.002099	0	0.0059	0.007998	0.000332	0.001876	0.004092
0	1.44E-05	0	0	0	0	1.44E-05	1.64E-05	0	0	1.64E-05	0	0	0
0	0	2.32E-07	8.85E-07	0	4.73E-08	1.16E-06	0	0	0	0	2.32E-07	8.85E-07	0
0.001194	0.00166	0.000115	0.000505	0.002271	7.27E-05	0.004624	0.000681	0	0.001307	0.001988	0.000115	0.000505	0.002271
0	1.14E-08	0	0	0	0	1.14E-08	1.3E-08	0	0	1.3E-08	0	0	0
0	0	8.15E-09	3.14E-08	0	1.67E-09	4.12E-08	0	0	0	0	8.15E-09	3.14E-08	0
0.003296	0.004257	0.000223	0.001093	0.004759	0.000163	0.010495	0.0014	0	0.003609	0.005009	0.000223	0.001093	0.004759
0	5.06E-06	0	0	0	0	5.06E-06	5.76E-06	0	0	5.76E-06	0	0	0
0	0	4.51E-08	1.72E-07	0	9.21E-09	2.27E-07	0	0	0	0	4.51E-08	1.72E-07	0
0	0.000134	0	0	0	0	0.000134	0.00014	1.23E-05	0	0.000152	0	0	0

TOG_REST	TOG_TOT				CO_TOTE	SOx_RUN	SOx_IDLE	SOx_STRE	SOx_TOTE	Fuel
L	AL	CO_RUNEX	CO_IDLEX	CO_STREX	Х	EX	Х	Х	Х	Consumption
0.000237	0.014535	0.092848098	0	0.047563	0.140411	0.000317	0	8.67E-06	0.000325	3.47070128
0	1.64E-05	0.000242493	0	0	0.000242	1.92E-06	0	0	1.92E-06	0.01808954
4.73E-08	1.16E-06	0	0	0	0	0	0	0	0	0
7.27E-05	0.004952	0.021564848	0	0.005753	0.027318	3.84E-05	0	1.15E-06	3.95E-05	0.42169495
0	1.3E-08	9.06492E-08	0	0	9.06E-08	2.46E-09	0	0	2.46E-09	2.3201E-05
1.67E-09	4.12E-08	0	0	0	0	0	0	0	0	0
0.000163	0.011247	0.051844639	0	0.024103	0.075948	0.000152	0	4.48E-06	0.000156	1.66736864
0	5.76E-06	4.52896E-05	0	0	4.53E-05	8.32E-07	0	0	8.32E-07	0.00784703
9.21E-09	2.27E-07	0	0	0	0	0	0	0	0	0
0	0.000152	0.000457786	0.00012	0	0.000578	9.95E-06	2.61E-07	0	1.02E-05	0.09630153

Appendix D

Notice of Determination

To:	Office of Planning and Resear	ch	From: Public Agency: Markleeville Public Utility District				
	U.S. Mail:	Street Address:	Address: PO Box 222 Markleeville. CA 96120				
	P.O. Box 3044 Sacramento, CA 95812-3044	1400 Tenth St., Rm 113 Sacramento, CA 95814	Contact:Dave Harden, PE, District Engineer				
_			Phone:(916) 771-6144				
	County Clerk County of: Address:		Lead Agency (if different from above): Same as public agency				
			Address:				
			Contact:				
			Phone:				

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): 2015032034

Project Title: Markleeville Sewer Pump Station Relocation and Improvements Project

Project Applicant: Markleeville Public Utility District

Project Location (include county): Markleeville, Alpine Co; Markleeville USGS Quad, NE ¼ of the SE ¼ of Section

Project Description:

The project involves relocating key sewer system infrastructure out of the floodplain; reducing the potential for sewer system overflows; replacing aging pipes, manholes and pump stations to extend their lifespan; reducing the threat of water quality impairments from flooding, leaks or spills; and providing safe access to sewer system infrastructure during all weather conditions.

This is to advise that the Markleeville Public (X) Lead Ag	Utility District gency or 🗌 Responsible Ag	has approved the above gency)
described project on <u>March 11, 2021</u> an (date) described project.	d has made the following d	eterminations regarding the above
1. The project [X will i will not] have a si	gnificant effect on the envir	onment.
2. An Environmental Impact Report was	prepared for this project pu	ursuant to the provisions of CEQA.
A Negative Declaration was prepared	for this project pursuant to	the provisions of CEQA.
3. Mitigation measures [X were in were n	ot] made a condition of the	approval of the project.
4. A mitigation reporting or monitoring plan	[🔀 was 🗌 was not] adopt	ed for this project.
5. A statement of Overriding Considerations	s [🗌 was 🔀 was not] ador	oted for this project.
6. Findings [were K were not] made pu	rsuant to the provisions of	CEQA.
This is to certify that the final EIR with comr negative Declaration, is available to the Ger		ecord of project approval, or the
Markleeville Public Utility District PO Box 222 M	larkleeville, CA 96120; contact	Dave Harden at (916) 771-6144
Signature (Public Agency):	Title:	Chair of the Board of Directors

Date: March 11, 2021 Date Received for filing at OPR: _____

Authority cited: Sections 21083, Public Resources Code. Reference Section 21000-21174, Public Resources Code.

MARKLEEVILLE SEWER PUMP STATION RELOCATION AND IMPROVEMENTS PROJECT MITIGATION MONITORING AND REPORTING PROGRAM

Mitigation Measures		Implementation			
	Responsibility	Timing	Verification		
Air Quality					
Mitigation Measure AQ-1 (per page 3-30 of the 2015 IS/MND) The following fugitive dust control measures, as outlined in the GBUAPCD's Rule 401, shall be implemented during construction to ensure that particulate matter (i.e., fugitive dust) emissions would be limited. MPUD shall take reasonable precautions to prevent visible particulate matter from being airborne, under normal wind conditions, beyond the property from which the emission originates. Reasonable precautions include, but are not limited to:					
 Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land; Application of asphalt, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can give rise to airborne dusts; 	MPUD and construction contractor	During construction activities			
▲ Installation and use of hoods, fans, and fabric filters, to enclose and vent the handling of dusty materials. Adequate contaminant methods shall be employed during such handling operations;					
▲ Use of water, chemicals, chuting, venting, or other precautions to prevent particulate matter from becoming airborne in handling dusty materials to open stockpiles and mobile equipment; and					
▲ Maintenance of roadways in a clean condition.					
Biological Resources					
Mitigation Measure BIO-1: Pre-construction plant survey within the project disturbance footprint shall be conducted a qualified biologist to identify any special status plants and create construction exclusion areas.					
Mitigation Measure BIO-1a: Conduct Special-Status Plant Surveys and Implement Avoidance Measures and Mitigation ▲ Prior to implementation of project activities and during the period when special-status plant species with potential to occur in the project site (Table 4-2) are most identifiable (generally, the blooming period of flowering plants or sporophyte period of bryophytes), a qualified botanist will conduct protocol-level surveys for special-status plants within the project site following survey methods from the CDFW Protocols for Surveying and Evaluating Impacts on Special Status Native Plant Populations and Natural Communities (CDFW 2018). The qualified botanist will 1) be knowledgeable about plant taxonomy, 2) be familiar with plants of the Sierra Nevada region, including special-status plants and sensitive natural communities, 3) have experience conducting floristic botanical field surveys as described in CDFW 2018, 4) be familiar with the California Manual of Vegetation (Sawyer et al. 2009 or current version, including updated natural communities data at http://vegetation.cnps.org/), and 5) be familiar with federal and state statutes and regulations related to plants and plant collecting.	MPUD and a qualified biologist	Prior to construction and during the period when special- status plant species with potential to occur in the			

- ▲ If special-status plants are not found, the botanist will document the findings in a letter report to MPUD and no further mitigation will be required.
- ▲ If special-status plant species are found, the occupied habitat will be avoided completely, if feasible (i.e., project objectives can still be met). This may include establishing a no-disturbance buffer around the plant population and demarcation of this buffer by a qualified botanist using flagging or high-visibility construction fencing. The size of the buffer will be determined by the qualified botanist and will be large enough to avoid direct or indirect impacts on the plant.

Table 4-2 Typical Blooming Period for	Special-S	Status Pla	nts that N	Vay Occι	ır within [.]	the Proje	ct Site'	

Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mountain bent grass												
Upswept moonwort												
Davy's sedge												
Porcupine sedge												
Liddon's sedge												
Western valley sedge												
Marsh willowherb												
Blandow's bog moss ²	-	-	-	-	-	-	-	-	-	-	-	-
Alder buckthorn												

¹ Blooming periods vary annually based on annual climatic variation and across species range. It is essential to base survey timing on current conditions in the survey year and it is recommended that reference populations are visited to verify species are identifiable during the survey period.

² Non-blooming bryophyte species

Source: Data compiled by Ascent Environmental in 2021; CNPS 2020

▲ If special-status plants are found during rare plant surveys and cannot be avoided, MPUD will consult with CDFW or U.S. Fish and Wildlife Service (USFWS), as appropriate depending on species status, to determine the compensation necessary to achieve no net loss of occupied habitat or individuals. Mitigation measures may include, but are not limited to, preserving and enhancing existing populations, creating off-site populations on mitigation sites through seed collection or transplantation at a 1:1 ratio, and restoring or creating suitable habitat in sufficient quantities to achieve no net loss of occupied habitat or individuals. Potential mitigation sites could include suitable locations within or outside of the project site. MPUD will develop and implement a site-specific mitigation strategy describing how unavoidable losses of special-status plants will be compensated. Success criteria for preserved and compensatory populations will include:

The extent of occupied area and plant density (number of plants per unit area) in compensatory populations will be equal to or greater than the affected occupied habitat. project site (Table 4-2)

During construction

Prior to, during, after construction until populations are selfproducing

 Compensatory and preserved populations will be self-producing. Populations will be considered self-producing when: plants reestablish annually for a minimum of five years with no human intervention such as supplemental seeding; and reestablished and preserved habitats contain an occupied area and flower density comparable to existing occupied habitat areas in similar habitat types in the project vicinity. If off-site mitigation includes dedication of conservation easements, purchase of mitigation credits, or other off-site conservation measures, the details of these measures will be included in the mitigation plan, including information on responsible parties for long-term management, conservation easement holders, long-term management requirements, success criteria such as those listed above and other details, as appropriate to target the preservation of long-term viable populations. 			
Mitigation Measure BIO-2: Pre-construction wildlife and amphibian surveys of the disturbance footprint shall be conducted by qualified biologists to identify any special status wildlife and amphibian species present, designate exclusion zones, and/or perform removals.			
 Mitigation Measure BIO-2a: Implement Limited Operating Period or Conduct Focused Surveys for Ringtail To minimize the potential for loss of ringtail and active ringtail dens, project activities (e.g., tree removal, other vegetation removal, ground disturbance, staging) within habitat potentially suitable for ringtail (i.e., forest habitat, scrub habitat, riparian habitat) will be conducted outside of the ringtail maternity season (not well defined, but approximately April 15–July 31), if feasible. If the limited operating period is not feasible, and construction activities would occur from April 15–July 31, additional preconstruction surveys would be required. No more than 30 days before initiation of project activities, within potentially suitable ringtail habitat, a qualified biologist with experience conducting ringtail surveys will conduct a focused survey for potential ringtail dens (e.g., hollow trees, snags, rock crevices) within the project site. The qualified biologist will document sightings of individual ringtails, as well as potential dens. If individuals or potential or occupied dens are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required. If ringtails are identified or if potential dens are located, an appropriate method will be used by the qualified wildlife biologist to confirm whether a ringtail is occupying the den. This may include use of remote field cameras, track plates, or hair snares. Other devices, such as a fiber optic scope, may be utilized to determine occupancy. If potential dens are not occupied by a ringtail, a no-disturbance buffer will be cended so that no other animals occupy the project activities withe sare completed. If a den is found to be occupied by a ringtail, a no-disturbance buffer will be avoided until the den is unoccupied as determined by the pualified wildlife biologist in coordination with CDFW. <	MPUD and a qualified biologist	During non- breeding season (approx. Apr 15 – July 31) During construction if between April 15 - July 31	

 Mitigation Measure BIO-2b: Conduct Preconstruction Surveys for Sierra Nevada Mountain Beaver and Implement Protective Buffers ▲ No more than 30 days prior to any ground disturbance or vegetation removal activities within 200 feet of Markleeville Creek, a preconstruction survey for Sierra Nevada mountain beaver will be conducted by a qualified biologist familiar with the species. Surveys would consist of burrow searches within habitat suitable for the species. 	No more than 30 days prior to ground
▲ If individuals or occupied burrows are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.	disturbance
▲ If active breeding/burrow sites are identified within 250 feet of project activities, MPUD will implement a limited operating period during the Sierra Nevada mountain beaver breeding season (February 1–July 31) during which no ground disturbance, vegetation or tree removal, or staging activities will occur within 250 feet of the identified burrow. The limited operating period, area within which it is implemented (e.g., 250-foot buffer), and activities allowed or prohibited within the limited operating period may be adjusted through consultation with CDFW.	During construction, between February 1 – July 31
Mitigation Measure BIO-2c: Conduct Preconstruction Surveys for Sierra Nevada Snowshoe Hare and Western White-Tailed Jackrabbit and Implement Protective Buffers	No more
▲ No more than 30 days prior to any ground disturbance or vegetation removal activities during the Sierra Nevada snowshoe hare and western white-tailed jackrabbit breeding season (February 1–July 31), a preconstruction survey for nests of both species will be conducted by a qualified biologist familiar with the species. Surveys would consist of walking transects to determine whether active nests of either species are present within suitable habitat areas of the project site (e.g., scrub, forest).	than 30 days prior to ground disturbance
▲ If individuals or active nests are not found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and further mitigation will not be required.	
▲ If active nests are identified, MPUD will implement a limited operating period during the Sierra Nevada snowshoe hare and western white-tailed jackrabbit breeding season (February 1–July 31) during which no ground disturbance, vegetation or tree removal, or staging activities will occur within 250 feet of the identified nest. The limited operating period, area within which it is implemented (e.g., 250-foot buffer), and activities allowed or prohibited within the limited operating period may be adjusted through consultation with CDFW.	During construction, between February 1 – July 31
 Mitigation Measure BIO-2d: Conduct Focused Special-Status Bat Surveys and Implement Avoidance Measures ▲ In the early planning stages of the project, a qualified biologist familiar with bats and bat ecology and experienced in conducting bat surveys will conduct surveys for bat roosts in suitable habitat (e.g., large trees, crevices, cavities, exfoliating bark, bridges, unoccupied buildings) within and adjacent to the project site. 	
▲ If no evidence of bat roosts is found, the qualified biologist will submit a letter report summarizing the results of the survey to MPUD, and no further study will be required.	Prior to
▲ If evidence of bat roosts is observed, the species and number of bats using the roost will be determined. Bat detectors shall be used if deemed necessary to supplement survey efforts by the qualified biologist.	construction
▲ A no-disturbance buffer of 250 feet will be established around active pallid bat, Townsend's big-eared bat, or western red bat roosts, and project activities will not occur within this buffer until after the roosts are unoccupied.	

▲ If roosts of pallid bat, Townsend's big-eared bat, or western red bat are determined to be present and must be removed, the bats will be excluded from the roosting site before the tree, building, or other structure is removed. A program addressing compensation, exclusion methods, and roost removal procedures will be developed in consultation with CDFW before implementation. Exclusion methods may include use of one-way doors at roost entrances (bats may leave but not reenter) or sealing roost entrances when the site can be confirmed to contain no bats. Exclusion from active maternity roosts will not occur while females in maternity colonies are nursing young. Exclusion efforts may be restricted during other periods of sensitive activity (e.g., during hibernation). The loss of each roost (if any) will be replaced in consultation with CDFW and may require construction and installation of bat boxes suitable to the bat species and colony size excluded from the original roost sites. Once the replacement roosts are constructed and a qualified biologist confirms that bats are not present in the original roost site, the roost tree, building, or other structure may be removed or sealed to prevent bats from reentering.			
Mitigation Measure BIO-3: Impacts to active nests will be avoided by the establishment and maintenance of buffers around the nests. The appropriate size and shape of the buffers will be determined by a qualified biologist in consultation with the CDFW, and may vary depending on the nest location, nest stage, and construction activity. No project activity will occur within the buffer area until the biologist confirms that the nest is no longer active. Monitoring will be conducted to confirm that the Project activities are not resulting in detectable adverse effects to the active nests.			
 Mitigation Measure BIO-3a: Conduct Focused Surveys for Special-Status Birds and Other Native Nesting Birds and Implement Protective Buffers To minimize the potential for loss of special-status bird species, raptors, and other native birds, project activities (e.g., tree removal, other vegetation removal, ground disturbance, staging) will be conducted during the nonbreeding season (approximately September 1-January 31, as determined by a qualified biologist), if feasible. If project activities are conducted during the nonbreeding season, no further mitigation will be required. 	MPUD and a qualified	During non- breeding season	
▲ Within 14 days before the onset of project activities during the breeding season (approximately February 1 through August 31, as determined by a qualified biologist), a qualified biologist familiar with birds of California and with experience conducting nesting bird surveys will conduct focused surveys for special-status birds, other nesting raptors, and other native birds and will identify active nests within 500 feet of the project site (where accessible).	biologist	(approx. Sep 1 – Jan 31) 14 days prior to	
▲ Impacts on nesting birds will be avoided by establishing appropriate buffers around active nest sites identified during focused surveys to prevent disturbance to the nest. Project activity will not commence within the buffer areas until a qualified biologist has determined that the young have fledged, the nest is no longer active, or reducing the buffer will not likely result in nest abandonment. A qualified biologist will determine the appropriate buffer size for non-raptor nests after a site- and nest-specific analysis. Buffers typically will be 500 feet for raptors and 100 feet for non-raptor species. Factors to be considered for determining buffer size will include presence of natural buffers provided by vegetation or topography, nest height above ground, baseline levels of noise and human activity, species sensitivity, and proposed project activities. The size of the buffer		construction during the breeding season (approx. Feb 1 – Aug 31)	
may be adjusted if a qualified biologist determines that such an adjustment would not be likely to adversely affect the nest. Any buffer reduction for a special-status species will require consultation with CDFW. Periodic monitoring of the nest by a qualified biologist during project activities will be required if the activity has potential to adversely affect the nest, the buffer has been		During construction	

reduced, or if birds within active nests are showing behavioral signs of agitation (e.g., standing up from a brooding position, flying off the nest) during project activities, as determined by the qualified biologist.			
 Mitigation Measure BIO-4: Implement Avoidance Measures and Compensate for Unavoidable Impacts on Riparian Habitat A Before implementation of project activities, riparian habitats previously mapped during preparation of the 2015 IS/MND will be flagged or fenced with brightly visible construction flagging and/or fencing under the direction of a qualified biologist and no project activities (e.g., vegetation removal, ground disturbance, staging) will occur within these areas. Foot traffic by personnel will also be limited in these areas to prevent the introduction of invasive or weedy species or inadvertent crushing of plants. Periodic inspections during construction will be conducted by the monitoring biologist to maintain the integrity of exclusion fencing/flagging throughout the period of construction involving ground disturbance. 	MPUD and a qualified biologist	Prior to construction	
▲ If riparian habitat in the project site cannot be avoided, the following measures will be implemented:			
▲ A Streambed Alteration Notification will be submitted to CDFW, pursuant to Section 1602 of the California Fish and Game Code. If proposed project activities are determined to be subject to CDFW jurisdiction, MPUD will abide by the measures to protect fish and wildlife resources, required by any executed agreement, prior to any vegetation removal or activity that may affect the resource. Measures to protect fish and wildlife resources shall include, at a minimum, a combination of the following mitigation.		Prior to construction	
▲ MPUD will compensate for the loss of riparian habitat such that no net loss of habitat function and values occurs by:			
 restoring riparian habitat function and value within the project site; 			
 restoring degraded riparian habitat outside of the project site; 			
 purchasing riparian habitat credits at a CDFW-approved mitigation bank; or 			
preserving existing riparian habitat of equal or better value to the affected riparian habitat through a conservation easement at a sufficient ratio to offset the loss of riparian habitat function (at least 1:1).			
MPUD will prepare and implement a Compensatory Mitigation Plan that will include the following:			
For preserving existing riparian habitat outside of the project site in perpetuity, the Compensatory Mitigation Plan will include a summary of the proposed compensation lands (e.g., the number and type of credits, location of mitigation bank or easement), parties responsible for the long-term management of the land, and the legal and funding mechanism for long-term conservation (e.g., holder of conservation easement or fee title).			
For restoring or enhancing riparian habitat within the project site or outside of the project site, the Compensatory Mitigation Plan will include a description of the proposed habitat improvements, success criteria that demonstrate the performance standard of maintained habitat function has been met, legal and funding mechanisms, and parties responsible for long-term management and monitoring of the restored or enhanced habitat.			
Compensatory mitigation may be satisfied through compliance with permit conditions, or other authorizations obtained by MPUD (e.g., Lake and Streambed Alteration Agreement), if these requirements are equally or more effective than the mitigation identified above.			

with high-visibility flagging, fencing, stakes, or clear, existing landscape demarcations (e.g., edge of a roadway).	MPUD and a qualified	Prior to construction	
▲ Project activities (e.g., ground disturbance, vegetation removal, staging) will be prohibited within the wetland boundaries. The qualified biologist will periodically inspect the materials demarcating the wetland boundaries to confirm that they are intact and visible, and wetland impacts are being avoided.	biologist		
✓ If it is determined that fill of waters of the United States would result from project implementation, authorization for such fill will be secured from U.S. Army Corps of Engineers (USACE) through the Section 404 permitting process. Any waters of the United States that would be affected by the project will be replaced or restored on a no-net-loss basis in accordance with the applicable USACE mitigation guidelines in place at the time of construction. In association with the Section 404 permit (if applicable) and prior to the issuance of any grading permit, Section 401 Water Quality Certification from the Lahontan RWQCB will be obtained.			
✓ If it is determined that fill of waters of the state, including state-protected wetlands, cannot be avoided, MPUD will submit an application for discharges of dredged or fill material to the Lahontan RWQCB before commencing activity that may result in discharge of dredged or fill material to waters of the state. MPUD will not commence any activity in waters of the state until permitted by the Lahontan RWQCB and MPUD will implement all protection measures and comply with all conditions of the permit.			
▲ MPUD will restore all waters of the state following completion of project construction. A draft restoration plan outlining design, implementation, assessment, and maintenance for restoring temporary disturbance areas will be submitted to the Lahontan RWQCB with the application for discharge of dredged or fill material to waters of the state and will be implemented as approved by the Lahontan RWQCB.			
▲ If any waters of the state cannot be restored on site, MPUD will implement a compensatory mitigation plan resulting in no net loss of the overall abundance, diversity, and condition of aquatic resources based on an assessment of the affected watershed. MPUD may compensate for loss of waters of the state by purchasing credits from a RWQCB-approved mitigation bank or in-lieu fee program, or through restoration or establishment of wetlands or non-wetland waters comparable to those affected by the project.			
Archaeological, Historical, and Tribal Cultural Resources			
Mitigation Measure CR-1: Prepare a Section 106 Cultural Resources Inventory and Evaluation Report and/or Historic Properties Survey Report, Historic Properties Evaluation Report, and Archaeological Survey Report ✓ Consistent with Mitigation Measure CR-1, "Prepare a Section 106 Cultural Resources Inventory and Evaluation Report and/or 	MPUD and a		
Historic Properties Survey Report, Historic Properties Evaluation Report, and Archaeological Survey Report," of the 2015 IS/MND,	qualified archaeologist	Prior to construction	

Lands File search, paleontological sensitivity analysis, intensive pedestrian survey of the area of potential effects (APE), and an inventory report (NIC 2020).			
 Mitigation Measure CR-2: Avoidance and Protection Measures for Rock Wall #1 of the National Register Listed Alpine County Courthouse Consistent with Mitigation Measure CR-2, "Avoidance and Protection Measures for Rock Wall #1 of the National Register Listed Alpine County Courthouse," of the 2015 IS/MND, the project site boundary has been revised. The sewer improvements project boundary does not include Wall #1 associated with the National-Register-listed Alpine County Courthouse. Wall #1 would be avoided and protected. 	MPUD and a qualified archaeologist	Prior to and during construction	
 Mitigation Measure CR-3: Construction Crew Education/Tailboard Meeting and Accidental Discovery of Archaeological Resources Procedures Prior to the start of construction, MPUD will ensure that all construction personnel, including construction forepersons and field supervisors receive training by a qualified professional archaeologist, as defined by the Secretary of the Interior, and who is experienced in teaching non-specialists, to ensure they can recognize cultural resources materials in the event any are discovered during construction. 	MPUD, construction contractor, and a qualified	Prior to and during construction	
Furthermore, to avoid any potential adverse effect from the proposed project on accidentally discovered buried historical resources as defined in CEQA Guidelines Section 15064.5(a)(c), MPUD will distribute a cultural resources ALERT sheet to the project's prime contractor; to any project subcontractor (including firms providing services such as demolition, excavation, grading, etc.), or utilities firms involved in soils disturbing activities within the project site. The ALERT sheet provides workers notice that cultural resources may be encountered during excavation and instructions on what to do if evidence of an archaeological site is encountered. Prior to any soils disturbing activities being undertaken, each contractor is responsible for ensuring that the ALERT sheet is circulated to all field personnel, including: machine operators, field crew, supervisory personnel, etc. The prime contractor will provide MPUD with a signed affidavit from the responsible parties (prime contractor, subcontractor[s], and utilities firms) confirming that all field personnel have received copies of the ALERT Sheet.	archaeologist		
▲ Should any indication of an archaeological resource be encountered during any soils disturbing activity of the project, the contractor will immediately notify MPUD and suspend any soils disturbing activities within 150 feet of the discovery until the find can be assessed by a qualified professional archaeologist, the qualified professional will determine what additional measures should be undertaken.			
▲ The qualified professional archaeologist will advise MPUD as to whether the discovery is an archaeological resource, retains sufficient integrity, and it of potential scientific, historical, and/or cultural significance. If an archaeological resource is present, the archaeological consultant will identify and evaluate the archaeological resource. The archaeological consultant will make a recommendation as to what action, if any, is warranted. Based on this information, if warranted, specific additional measures may be implemented.			
▲ Measures might include: preservation in situ of the archaeological resource; an archaeological monitoring program; and/or an archaeological testing program. MPUD may also require that a site security program be implemented if the resource is at risk from vandalism, looting, or other damaging actions.			
▲ The archaeological consultant will submit a final report that evaluates the historical significance of any discovered archaeological resource and describes the archaeological and historical research methods employed in the archaeological monitoring/data			

 recovery program(s) undertaken. Information that may put at risk any archaeological resource will be provided in a separate removable insert within the final report. Copies of the final report will be sent to Alpine County and the Central California Information Center, along with copies of any formal recordation forms (CA DPR 523 series) and/or documentation for nomination to the NRHP/CRHR. In instances of high public interest or interpretive value, Alpine County may require a different final report content, format and distribution from that presented above. 			
 Mitigation Measure CR-4: Preserve Human Remains if Encountered If human remains are encountered during construction, MPUD will notify the Alpine County Coroner immediately, as required by California PRC Code §5097.98. A qualified professional archaeologist will also be contacted immediately. If the County Coroner determines that the remains are Native American, the Coroner will then contact the NAHC, pursuant to Section 7050.5[c] of the California Health and Safety Code. 	MPUD and a qualified archaeologist	During construction	
There will be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie human remains until the County Coroner has determined that no investigation of the cause of death is required or if remains are Native American. If the remains are of Native American in origin:			
Within 24 hours of notification, the NAHC will identify a Native American "most likely descendant" (MLD) to make a recommendation regarding appropriate treatment of the human remains.			
If the identified MLD fails to make a recommendation within 48 hours of being notified, Alpine County will work with the NAHC to determine appropriate means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods, as provided in PRC Section 5097.98.			
Hydrology and Water Quality		<u>-</u>	
 Mitigation Measure HYRO-1: (per page 3-77 of the 2015 IS/MND) Temporary erosion/runoff best management control measures will be implemented during construction to minimize storm water pollution resulting from erosion and sediment migration from the construction, borrow, and staging areas. These temporary control measures will include implementing construction staging in a manner that minimizes the amount of area disturbed at any one time; secondary containment for storage of fuel and oil; and the management of stockpiles and disturbed areas by means of earth berms, diversion ditches, straw wattles, straw bales, silt fences, gravel filters, mulching, re-vegetation, and temporary covers as appropriate. Erosion and storm water pollution control measures will be consistent with NPDES Control Description of the storage of using the control measures will be consistent with NPDES. 	MPUD and construction contractor	During construction	
General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities requirements, and will be included in a site specific SWPPP.			
▲ After completion of construction activities, the temporary facilities will be demobilized and site restoration measures will be implemented to minimize soil erosion. Site restoration measures for areas disturbed by construction activities, including the borrow area and laydown/staging areas, may include regrading, reseeding, construction of permanent diversion ditches, use of straw wattles and bales, application of straw mulch, and other measures deemed appropriate to meet all applicable erosion control requirements.		After construction	

APPENDIX C DAVIS BACON

Davis-Bacon Requirements for CWSRF Projects

For purposes of this Exhibit only, "subrecipient" or "sub recipient" means the Recipient as defined in this Agreement.

For purposes of this Exhibit only, "recipient" or "State recipient" means the State Water Board.

I. <u>Requirements Under Title VI of the Clean Water Act (CWA) For Sub recipients</u> <u>That Are Governmental Entities</u>:

If a sub recipient has questions regarding when Davis-Bacon (DB) applies, obtaining the correct DB wage determinations, DB provisions, or compliance monitoring, it may contact the State Water Board at <u>DavisBacon@waterboards.ca.gov</u>. The recipient or sub recipient may also obtain additional guidance from the U.S. Department of Labor's (DOL) website at <u>http://www.dol.gov/whd/</u>

1. Applicability of the DB prevailing wage requirements.

Under Title VI of the CWA, DB prevailing wage requirements apply to the construction, alteration, and repair of treatment works carried out in whole or in part with assistance made available by a State water pollution control revolving fund. If a sub recipient encounters a unique situation at a site that presents uncertainties regarding DB applicability, the sub recipient must discuss the situation with the recipient State before authorizing work on that site.

2. Obtaining Wage Determinations.

(a) Sub recipients shall obtain the wage determination for the locality in which a covered activity subject to DB will take place prior to issuing requests for bids, proposals, quotes or other methods for soliciting contracts (solicitation) for activities subject to DB. These wage determinations shall be incorporated into solicitations and any subsequent contracts. Prime contracts must contain a provision requiring that subcontractors follow the wage determination incorporated into the prime contract.

(i) While the solicitation remains open, the sub recipient shall monitor <u>https://sam.gov/</u> weekly to ensure that the wage determination contained in the solicitation remains current. The sub recipients shall amend the solicitation if DOL issues a modification more than 10 days prior to the closing date (i.e. bid opening) for the solicitation. If DOL modifies or supersedes the applicable wage determination less than 10 days prior to the closing date, the sub recipients may request a finding from the State recipient that there is not a reasonable time to notify interested contractors of the modification of the wage determination. The State recipient will provide a report of its findings to the sub recipient.

(ii) If the sub recipient does not award the contract within 90 days of the closure of the solicitation, any modifications or supersedes DOL makes to the wage

determination contained in the solicitation shall be effective unless the State recipient, at the request of the sub recipient, obtains an extension of the 90-day period from DOL pursuant to 29 CFR 1.6(c)(3)(iv). The sub recipient shall monitor <u>https://sam.gov/</u> on a weekly basis if it does not award the contract within 90 days of closure of the solicitation to ensure that wage determinations contained in the solicitation remain current.

(b) If the sub recipient carries out activity subject to DB by issuing a task order, work assignment or similar instrument to an existing contractor (ordering instrument) rather than by publishing a solicitation, the sub recipient shall insert the appropriate DOL wage determination from <u>https://sam.gov/</u> into the ordering instrument.

(c) Sub recipients shall review all subcontracts subject to DB entered into by prime contractors to verify that the prime contractor has required its subcontractors to include the applicable wage determinations.

(d) As provided in 29 CFR 1.6(f), DOL may issue a revised wage determination applicable to a sub recipient's contract after the award of a contract or the issuance of an ordering instrument if DOL determines that the sub recipient has failed to incorporate a wage determination or has used a wage determination that clearly does not apply to the contract or ordering instrument. If this occurs, the sub recipient shall either terminate the contract or ordering instrument and issue a revised solicitation or ordering instrument or incorporate DOL's wage determination retroactive to the beginning of the contract or ordering instrument by change order. The sub recipient's contractor must be compensated for any increases in wages resulting from the use of DOL's revised wage determination.

3. Contract and Subcontract provisions.

(a) The Recipient shall insure that the sub recipient(s) shall insert in full in any contract in excess of \$2,000 which is entered into for the actual construction, alteration and/or repair, including painting and decorating, of a treatment work under the CWSRF - financed in whole or in part from Federal funds or in accordance with guarantees of a Federal agency or financed from funds obtained by pledge of any contract of a Federal agency to make a loan, grant or annual contribution (except where a different meaning is expressly indicated), and which is subject to the labor standards provisions of any of the acts listed in § 5.1 or Title VI of the CWA, the following clauses:

(1) Minimum wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the DB Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the DB poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

Sub recipients may obtain wage determinations from DOL's website, https://sam.gov/.

(ii)(A) The sub recipient(s), on behalf of EPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The State award official shall approve a request for an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the sub recipient(s) agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the sub recipient (s) to the State award official. The State award official will transmit a completed conformance request form (SF-1444 or similar) and supporting materials to <u>WHD-CBACONFORMANCE_INCOMING@dol.gov</u> and to the EPA DB Regional Coordinator concurrently. The DOL Administrator, or an authorized representative, will approve, modify, or disapprove every additional

classification request within 30 days of receipt and so advise the State award official or will notify the State award official within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the sub recipient(s) do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the sub recipient (s) to the State award official. The State award official will transmit a completed conformance request form (SF-1444 or similar) which indicates the State award official's disagreement and supporting materials to <u>WHD-CBACONFORMANCE_INCOMING@dol.gov</u>, and to the EPA DB Regional Coordinator concurrently. The DOL Administrator, or an authorized representative, will issue a determination within 30 days of receipt of the request and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the DB Act have been met. The Secretary of Labor may require the contractor to set aside assets in a separate account for the meeting of obligations under the plan or program.

(2) Withholding. The sub recipient(s), shall upon written request of the EPA Award Official or an authorized representative of the DOL, withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to DB prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the EPA may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further

payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the DB Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the DB Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wade rates prescribed in the applicable programs.

(ii)(A) The contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to the sub recipient, that is, the entity that receives the sub-grant or loan from the State capitalization grant recipient. Such documentation shall be available on request of the State recipient or EPA. As to each payroll copy received, the sub recipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on the weekly payrolls. Instead, the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at http://www.dol.gov/whd/forms/wh347instr.htm or its successor site.

The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker and shall provide them upon request to the sub recipient(s) for transmission to the State or EPA if requested by EPA, the State, the contractor, or the Wage and Hour Division of the DOL for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide

addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sub recipient(s).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the State, EPA or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the EPA or State may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and trainees

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually

registered in a bona fide apprenticeship program registered with the DOL, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the DOL, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended and 29 CFR part 30.

(5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the EPA determines may by appropriate, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with DB and Related Act requirements. All rulings and interpretations of the DB and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the DOL set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and sub recipient(s), State, EPA, DOL, or the employees or their representatives.

(10) Certification of eligibility.

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the DB Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the DB Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

4. Contract Provision for Contracts in Excess of \$100,000.

(a) Contract Work Hours and Safety Standards Act. The sub recipient shall insert the following clauses set forth in paragraphs (a)(1), (2), (3), and (4) of this section in full in any contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by Item 3, above or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (a)(1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (a)(1) of this section, in the sum of \$29 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (a)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The sub recipient, upon written request of the EPA Award Official or an authorized representative of the DOL, shall withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (a)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (a)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (a)(1) through (4) of this section.

(b) In addition to the clauses contained in Item 3, above, in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in 29 CFR 5.1, the Sub recipient shall insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Sub recipient shall insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor or subcontractor for inspection, copying, or transcription by authorized representatives of the EPA and the DOL, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

5. Compliance Verification

(a) The sub recipient shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(3), all interviews must be conducted in confidence. The sub recipient must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.

(b) The sub recipient shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. Sub recipients must conduct more frequent interviews if the initial interviews or other information indicated that there is a risk that the contractor or subcontractor is not complying with DB.

Sub recipients shall immediately conduct interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence.

(c) The sub recipient shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The sub recipient shall establish and follow a spot check schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable, the sub recipient should spot check payroll data within two weeks of each contractor or subcontractor's submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract. Sub recipients must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the sub recipient shall verify evidence of fringe benefit plans and payments there under by contractors and subcontractors who claim credit for fringe benefit contributions.

(d) The sub recipient shall periodically review contractor's and subcontractor's use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S DOL or a state, as appropriate, and that contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item 5(b) and (c) above.

(e) Sub recipients must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at <u>https://www.dol.gov/agencies/whd/contact/local-offices</u>.

APPENDIX D FEDERAL WAGE DETERMINATION

"General Decision Number: CA20240007 09/13/2024

Superseded General Decision Number: CA20230007

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

Counties: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Marin, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sonoma, Sutter, Tehama, Trinity, Yolo and Yuba Counties in California.

BUILDING CONSTRUCTION PROJECTS (excluding Amador County only); DREDGING CONSTRUCTION PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); AND HIGHWAY CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 1658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	 Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$17.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2024.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/05/2024
1	01/12/2024
2	01/19/2024
3	02/09/2024
4	02/16/2024
5	03/01/2024
6	03/08/2024
7	04/12/2024
8	05/24/2024
9	06/14/2024
10	07/05/2024
11	07/12/2024
12	07/26/2024
13	08/23/2024
14	09/06/2024
15	09/13/2024

ASBE0016-001 01/01/2024

AREA 1: MARIN, NAPA, SAN BENITO, SAN FRANCISCO, SOLANO, & SONOMA COUNTIES

AREA 2: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHEMA, TRINITY, YOLO, & YUBA COUNTIES

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, Protective Coverings, Coatings, and Finishes to all types of mechanical systems) Area 1		25.07 25.07

ASBE0016-007 01/01/2021

AREA 1 : ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

AREA 2: MARIN & NAPA COUNTIES

	Rates	Fringes
Asbestos Removal worker/hazardous material		
handler (Includes preparation, wetting,		
stripping, removal, scrapping, vacuuming, bagging		
and disposing of all insulation materials from		
mechanical systems, whether they contain asbestos or not)		
AREA 1	.\$ 30.45 \$ 36.53	10.60 9.27
B0IL0549-002 01/01/2021		
50120343 002 01/01/2021	Rates	Fringes
	Rales	Fringes
BOILERMAKER (1) Marin & Solano Counties	.\$ 49.62	41.27
(1) Marin & Solano Counties(2) Remaining Counties	.\$ 45.60	38.99
BRCA0003-001 08/01/2023		
	Rates	-
MARBLE FINISHER		18.58
BRCA0003-004 05/01/2024		
AREA 1: ALPINE, AMADOR, BUTTE, C LASSEN, MODOC, NEVADA, PLACER, P SIERRA, SUTTER, TEHAMA, YOLO AND	LUMAS, SACRAM	MENTO, SHASTA,
AREA 2: MARIN, NAPA, SISKIYOU, S	OLANO, SONOMA	A AND TRINITY
COUNTIES		
	Rates	Fringes
BRICKLAYER	¢ 50 70	25.01
AREA 1 AREA 2	.\$ 52.76 .\$ 57.02	25.01 28.50
SPECIALTY PAY:		
 (A) Underground work such as manholes, catch basins, sewer shall be paid \$1.25 per hour in direct contact with raw sew hour in addition to the above. (B) Operating a saw or grinde above the regular rate. (C) Gunite nozzle person shal the regular rate. 	pipes and tel above the reg age shall rec r shall rece	Lephone conduit gular rate. Work ceive \$1.25 per ive \$1.25 per hour
BRCA0003-008 07/01/2023		
	Rates	Fringes
TERRAZZO FINISHER TERRAZZO WORKER/SETTER		19.51 28.31
BRCA0003-010 04/01/2024		
BREA0003 010 04/01/2024	Rates	Fringes
TILE FINISHER	Naces	11 Inges
Area 1		17.44
Area 2 Area 3	.\$ 37.75	19.22 19.28
Area 4 Tile Layer		19.23
Area 1 Area 2	.\$ 55.17	21.08 22.52
Area 3 Area 4	.\$ 59.92 .\$ 56.79	22.62 22.54
AREA 1: Butte, Colusa, El Dora Nevada, Placer, Plumas, Sacram	do, Glenn, La	assen, Modoc,
Tehema, Yolo, Yuba AREA 2: Alpine, Amador AREA 3: Marin, Napa, Solano, S AREA 4: Sonoma	iskiyou	
BRCA0003-014 08/01/2023		
	Rates	Fringes
MARBLE MASON	Naces	0
	.\$ 60.20	28.82
CARP0034-001 07/01/2021	.\$ 60.20	28.82
	.\$ 60.20	28.82

Diver Assistant Tender, ROV

Tender/Technician\$ Diver standby\$ Diver Tender\$ Diver wet\$ Manifold Operator (mixed	60.51 59.51	34.69 34.69 34.69 34.69
<pre>gas)\$ Manifold Operator (Standby).\$</pre>		34.69 34.69

DEPTH PAY (Surface Diving):

050	to 100	ft	\$2.00	per	foot
101	to 150	ft	\$3.00	per	foot
151	to 220	ft	\$4.00	per	foot
221	ftde	eper	\$5.00	per	foot
			\$5.00	per	fo

SATURATION DIVING:

ATURATION DIVING: The standby rate shall apply until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. The diver rate shall be paid for all saturation hours.

DIVING IN ENCLOSURES:

VING IN ENCLOSURES: Where it is necessary for Divers to enter pipes or tunnels, or other enclosures where there is no vertical ascent, the following premium shall be paid: Distance traveled from entrance 26 feet to 300 feet: \$1.00 per foot. When it is necessary for a diver to enter any pipe, tunnel or other enclosure less than 48"" in height, the premium will be \$1.00 per foot \$1.00 per foot.

WORK IN COMBINATION OF CLASSIFICATIONS: Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

			 	-
CARP0034-003	07/01/2021	L		

Rates Fringes

Piledriver	\$ 54.10	34.69
CARP0035-001 08/01/2020		

AREA 1: MARIN, NAPA, SOLANO & SONOMA

AREA 3: SACRAMENTO, WESTERN EL DORADO (Territory west of an including highway 49 and the territory inside the city limits of Placerville), WESTERN PLACER (Territory west of and including highway 49), & YOLO

AREA 4: ALPINE, BUTTE, COLUSA, EASTERN EL DORADO, GLENN, LASSEN, MODOC, NEVADA, EASTERN PLACER, PLUMAS, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, & YUBA

	Rates	Fringes
Drywall Installers/Lathers:		
Area 1	\$ 52.65	31.26
Area 3	\$ 47.27	31.26
Area 4	\$ 45.92	31.26
Drywall Stocker/Scrapper		
Area 1	\$ 26.33	18.22
Area 3	\$ 23.64	18.22
Area 4	\$ 22.97	18.22

CARP0035-009 07/01/2020

Marin County

	Rates	Fringes
CARPENTER Bridge Builder/Highway Carpenter	<u>k</u>	30.82
Filer Journeyman Carpenter Millwright	\$ 52.80 \$ 52.65	30.82 30.82 32.41

CARP0035-010 07/01/2020

AREA 1: Marin, Napa, Solano & Sonoma Counties

AREA 2: Monterey, San Benito and Santa Cruz

AREA 3: Alpine, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Sutter, Tehama, Trinity, Yolo & Yuba counties

	Rates	Fringes
Modular Furniture Installer Area 1		
Installer	\$ 28.76	22.53
Lead Installer	\$ 32.21	23.03
Master Installer	\$ 36.43	23.03
Area 2		
Installer	\$ 26.11	22.53
Lead Installer	\$ 29.08	23.03
Master Installer	\$ 32.71	23.03
Area 3		
Installer	\$ 25.16	22.53

1	Lead Installer Master Installer	\$ 27.96 \$ 31 38	23.03 23.03
CARPØ	046-001 07/01/2023		
El Dora	ado (West), Placer (West), S	Sacramento	and Yolo Counties
		Rates	Fringes
C			-
Carpent Bi	ters ridge Builder/Highway		
	arpenter	\$ 60.39	33.52
	ardwood Floorlayer, hingler, Power Saw		
0	hingler, Power Saw perator, Steel Scaffold &		
	teel Shoring Erector, Saw iler	\$ 54.66	33.52
Jo	ourneyman Carpenter	\$ 54.51	33.52
M	illwright	\$ 57.01	35.11
inclu terr:	note: Placer County (West) : uding Highway 49 and El Dor: itory West of and including de the city limits of Place	ado County Highway 49	(West) includes
	046-002 07/01/2023		
	, Colusa, El Dorado (East), , Sutter and Yuba Counties	Nevada, Pl	lacer (East),
		Rates	Fringes
Carpent Bi	ters ridge Builder/Highway		
Ca	arpenter	\$ 60.39	33.52
SI	ardwood Floorlayer, hingler, Power Saw		
Op	perator, Steel Scaffold & teel Shoring Erector, Saw		
F:	iler	\$ 53.31	33.52
Jo M:	iler ourneyman Carpenter illwright	\$ 53.16 \$ 55.66	33.52 35.11
CARPO.	152-003 07/01/2020		
Amador	County		
		Rates	Fringes
Carpent	tors		
Bi	ridge Builder/Highway		
	arpenter ardwood Floorlayer,	\$ 52.65	30.82
SI	hingler, Power Saw		
	perator, Steel Scaffold & teel Shoring Erector, Saw		
٦.	iler ourneyman Carpenter	t 4F 43	30.82 30.82
M	illwright	\$ 47.92	32.41
	180-001 07/01/2021		
Solano	County		
		Rates	Fringes
Carpent	ters		
Br	ridge Builder/Highway	t F4 0F	21 40
	arpenters ardwood Floorlayer,	\$ 54.85	31.49
SI	hingler, Power Saw perator, Steel Scaffold &		
	teel Shoring Erector, Saw		
	iler		31.49 31.49
M	ourneyman Carpenter illwright	\$ 54.95	33.08
	751-001 07/01/2021		
Napa ar	nd Sonoma Counties		
		Rates	Fringes
Carpent	ters	Rates	Fringes
Br	ridge Builder/Highway		-
Bi Ca Ha	ridge Builder/Highway arpenters ardwood Floorlayer,		-
Bi Ca Ha	ridge Builder/Highway arpenters ardwood Floorlayer,		-
Bi Ca Ha Si Oj Si	ridge Builder/Highway arpenter ardwood Floorlayer, hingler, Power Saw perator, Steel Scaffold & teel Shoring Erector, Saw	\$ 54.85	31.49
Bi Ca Ha Si Op Si	ridge Builder/Highway arpenter ardwood Floorlayer, ningler, Power Saw perator, Steel Scaffold & teel Shoring Erector, Saw	\$ 54.85	31.49
Bi Ca Ha Si Si Si Fi Ja Mi	ridge Builder/Highway arpenter	\$ 54.85 \$ 55.00 \$ 54.85 \$ 54.95	31.49 31.49 31.49 33.08
Bi Ca Si Si Si F: Ja M:	ridge Builder/Highway arpenter	\$ 54.85 \$ 55.00 \$ 54.85 \$ 54.95	31.49 31.49 31.49 33.08
Bi Ca Ha Si Si Si Si Si Si Si Si Si Si Si Si Si	ridge Builder/Highway arpenter	\$ 55.00 \$ 55.00 \$ 54.85 \$ 54.95	31.49 31.49 31.49 33.08
Bi Ca Ha Si Op Si F: Ja M: CARP1! Butte,	ridge Builder/Highway arpenter	\$ 55.00 \$ 55.00 \$ 54.85 \$ 54.95	31.49 31.49 31.49 33.08
Bi Ca Ha Si Op Si F: Ja M: CARP1! Butte,	ridge Builder/Highway arpenter	\$ 55.00 \$ 55.00 \$ 54.85 \$ 54.95	31.49 31.49 31.49 33.08
Bi Ca Ha Si Op Si F: Ja M: CARP1! Butte,	ridge Builder/Highway arpenter	\$ 55.00 \$ 55.00 \$ 54.85 \$ 54.95	31.49 31.49 31.49 33.08 , Siskiyou, Tehama
Bi Ca Ha Op Si F: Ja M: CARP1! Butte, and Tr:	ridge Builder/Highway arpenter	\$ 54.85 \$ 55.00 \$ 54.85 \$ 54.85 \$ 54.95	31.49 31.49 31.49 33.08 , Siskiyou, Tehama
Carpent Butte, Carpent Butte Carpent Bit	ridge Builder/Highway arpenter	\$ 54.85 \$ 55.00 \$ 54.85 \$ 54.95 	31.49 31.49 31.49 33.08 , Siskiyou, Tehama
Bi Ca Si G G CARP1 Butte, and Tr Carpent Bi Carpent Carpent Carpent	ridge Builder/Highway arpenter	\$ 54.85 \$ 55.00 \$ 54.85 \$ 54.95 	31.49 31.49 31.49 33.08 , Siskiyou, Tehama

Operator, Steel Scaffold &		
Steel Shoring Erector, Saw Filer		30.82
Journeyman Carpenter	\$ 45.42	30.82
Millwright		32.41
ELEC0180-001 06/01/2024		
NAPA AND SOLANO COUNTIES		
	Rates	Fringes
CABLE SPLICER		
ELECTRICIAN		
ELEC0180-003 12/01/2023		
NAPA AND SOLANO COUNTIES		
	Rates	Fringes
Sound & Communications		
Installer Technician		27.60 27.82
		27:02
SCOPE OF WORK INCLUDES- SOUND & VOICE TRANSMISSION (M Telephone); FIRE ALARM SYSTEM when installed in raceways (i pulling) and when performed o building projects or jobs], TELEVISION & VIDEO SYSTEMS, S	S [excluding f ncluding wire n new or major	ire alarm work and cable remodel
SYSTEMS that transmit or rece systems that are intrinsic to	ive informatio	
EXCLUDES- Excludes all other data syste include control function or p installation of raceway syste industrial work life-safety	ower supply; ms, line volt	excludes age work,

installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excludes energy management systems.

ELEC0340-002 02/01/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, NEVADA, PLACER, PLUMAS, SACRAMENTO, TRINITY, YOLO, YUBA COUNTIES

	Rates	Fringes
Communications System Sound & Communications		
Installer	\$ 29.35	3%+15.35
Technician	\$ 33.75	3%+15.35

SCOPE OF WORK

Includes the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following TV monitoring and surveillance, background-foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media, multiplex, nurse call system, radio page, school intercom and sound, burglar alarms, and low voltage master clock systems.

A. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS Background foreground music Intercom and telephone interconnect systems, Telephone systems, Nurse call systems, Radio page systems, School intercom and sound systems, Burglar alarm systems, Low voltage master clock systems, Multi-media/multiplex systems, Sound and musical entertainment systems, RF systems, Antennas and Wave Guide.

B. FIRE ALARM SYSTEMS

Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS Television monitoring and surveillance systems, Video security systems, Video entertainment systems, Video educational systems, Microwave transmission systems, CATV and CCTV

D. SECURITY SYSTEMS Perimeter security systems Vibration sensor systems Card access systems Access control systems Sonar/infrared monitoring equipment

E. COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS SCADA (Supervisory Control and Data Acquisition) PCM (Pulse Code Modulation) Inventory Control Systems Digital Data Systems Broadband and Baseband and Carriers Point of Sale Systems VSAT Data Systems Data Communication Systems RF and Remote Control Systems Fiber Optic Data Systems WORK EXCLUDED Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems. Energy management systems. SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope). Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two

(2) conditions apply: The project involves new or major remodel building trades construction.

2. The conductors for the fire alarm system are installed in conduit.

ELEC0340-003 08/01/2022

ALPINE (West of Sierra Mt. Watershed), AMADOR, BUTTE, COLUSA, EL DORADO (West of Sierra Mt. Watershed), GLENN, LASSEN, NEVADA (West of Sierra Mt. Watershed), PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA (West of Sierra Mt. Watershed), SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

I	Rates	Fringes
ELECTRICIAN Remaining area\$ Sierra Army Depot, Herlong\$ Tunnel work\$	48.83	34.09 18.54 18.54

CABLE SPLICER: Receives 110% of the Electrician basic hourly rate.

ELEC0401-005 01/01/2022

ALPINE (east of the main watershed divide), EL DORADO (east of the main watershed divide), NEVADA (east of the main watershed), PLACER (east of the main watershed divide) and SIERRA (east of the main watershed divide) COUNTIES:

	Rates	Fringes		
ELECTRICIAN		20.95		
ZONE RATE:	10 12150	20133		
70-90 miles - \$8.00 per hour 91+ miles - \$10.00 per hour				
ELEC0551-004 06/01/2024				
MARIN AND SONOMA COUNTIES				
	Rates	Fringes		
ELECTRICIAN	.\$ 59.17	32.04		
ELEC0551-005 11/01/2023				
MARIN & SONOMA COUNTIES				
	Rates	Fringes		
Sound & Communications Installer Technician	.\$ 46.64 .\$ 53.64	25.55 25.76		
SCOPE OF WORK INCLUDES- SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call, Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs], TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS SYSTEMS that transmit or receive information and/or control systems that are intrinsic to the above.				
EXCLUDES- Excludes all other data systems or multiple systems which include control function or power supply; excludes installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excludes energy management systems.				
ELEC0659-006 01/01/2024				
MODOC and SISKIYOU COUNTIES				
	Rates	Fringes		
ELECTRICIAN ELEC0659-008 02/01/2023	.\$ 45.00	19.88		
DEL NORTE, MODOC & SISKIYOU COUNTIES				
	Rates	Fringes		
Line Construction (1) Cable Splicer (2) Lineman. Pole Spraver.		4.5%+22.15		

<pre>(1) Cable Splicer\$</pre>	67.80	4.5%+22.15
(2) Lineman, Pole Sprayer,		
Heavy Line Equipment Man\$	60.54	4.5%+22.15
(3) Tree Trimmer\$	37.84	4.5%+14.30
<pre>(4) Line Equipment Man\$</pre>	53.82	4.5%+19.40
(5) Powdermen,		
Jackhammermen\$	40.37	4.5%+14.30
(6) Groundman\$	33.37	4.5%+14.30

ELEC1245-004 06/01/2024

Fringes Rates LINE CONSTRUCTION (1) Lineman; Cable splicer..\$ 70.16 24.46 (2) Equipment specialist (operates crawler (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment)......\$ 53.30 (3) Groundman.....\$ 40.76 (4) Powderman....\$ 51.87 22.01 21.51 18.79 HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day ELEV0008-001 01/01/2024 Rates Fringes ELEVATOR MECHANIC.....\$ 80.76 37.885+a+h FOOTNOTE a. PAID VACATION: Employer contributes 8% of regular hourly a. PAD VACATION. Employer Contributes as of regular houring rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service. b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day. _____ ENGI0003-008 08/01/2024 Rates Fringes Dredging: (DREDGING: CLAMSHELL & DIPPER DREDGING; HYDRAULIC SUCTION DREDGING:) AREA 1: (1) Leverman.....\$ 60.61 39.55 (2) Dredge Dozer; Heavy duty repairman.....\$ 55.65 39.55 (3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....\$ 54.53 (4) Bargeman; Deckhand; 39.55 Fireman; Leveehand; Oiler..\$ 51.23 39.55 AREA 2: (1) Leverman.....\$ 62.61 39.55 (2) Dredge Dozer; Heavy duty repairman.....\$ 57.65 39.55 (3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....\$ 56.53 39.55 (4) Bargeman; Deckhand;Fireman; Leveehand; Oiler..\$ 53.23 39.55 AREA DESCRIPTIONS AREA 1: ALAMEDA,BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES AREA 2: MODOC COUNTY THE REMAINGING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW: ALPINE COUNTY: Area 1: Northernmost part Area 2: Remainder CALAVERAS COUNTY: Area 1: Remainder Area 2: Eastern part COLUSA COUNTY: Area 1: Eastern part Area 2: Remainder ELDORADO COUNTY: Area 1: North Central part Area 2: Remainder FRESNO COUNTY: Area 1: Remainder Area 2: Eastern part GLENN COUNTY: Area 1: Eastern part Area 2: Remainder LASSEN COUNTY: Area 1: Western part along the Southern portion of border with Shasta County Area 2: Remainder MADERA COUNTY:

Area 2: Eastern part MARIPOSA COUNTY Area 1: Except Eastern part Area 2: Eastern part MONTERREY COUNTY Area 1: Except Southwestern part Area 2: Southwestern part NEVADA COUNTY: Area 1: All but the Northern portion along the border of Sierra County Area 2: Remainder PLACER COUNTY: Area 1: Al but the Central portion Area 2: Remainder PLUMAS COUNTY: Area 1: Western portion Area 2: Remainder SHASTA COUNTY: Area 1: All but the Northeastern corner Area 2: Remainder SIERRA COUNTY: Area 1: Western part Area 2: Remainder SISKIYOU COUNTY: Area 1: Central part Area 2: Remainder SONOMA COUNTY: Area 1: All but the Northwestern corner Area 2: Remainder TEHAMA COUNTY: Area 1: All but the Western border with Mendocino & Trinity Counties Area 2: Remainder TRINITY COUNTY: Area 1: East Central part and the Northeastern border with Shasta County Area 2: Remainder TUOLUMNE COUNTY: Area 1: Except Eastern part Area 2: Eastern part -----ENGI0003-019 07/01/2024 SEE AREA DESCRIPTIONS BELOW Rates Fringes OPERATOR: Power Equipment (LANDSCAPE WORK ONLY) GROUP 1 AREA 1.....\$ 52.40 28.52 28.52 AREA 2.....\$ 54.40 GROUP 2 AREA 1.....\$ 48.80 28.52 AREA 2.....\$ 50.80 28.52

Area 1: Except Eastern part

GROUP DESCRIPTIONS:

GROUP 3

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

28.52

28.52

AREA 1.....\$ 44.19

AREA 2.....\$ 46.19

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragraphic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 $\mbox{HP}.$

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY: Area 1: Northernmost part Area 2: Remainder

SEE AREA DEFINITIONS BELOW

TUOLUMNE COUNTY: Area 1: Remainder

""AREA 2"" RECEIVES AN ADDITIONAL \$2.00 PER HOUR ABOVE AREA 1 RATES.

Area 2: Eastern Part -----ENGI0003-038 06/28/2023 ""AREA 1"" WAGE RATES ARE LISTED BELOW

TRINITY COUNTY: Area 1: East Central part and the Northeaster border with Shasta County Area 2: Remainder TULARE COUNTY; Area 1: Remainder Area 2: Eastern part

TEHAMA COUNTY: Area 1: All but the Western border with mendocino & Trinity Counties Area 2: Remainder

SONOMA COUNTY: Area 1: All but the Northwestern corner Area 2: Reaminder

SIERRA COUNTY: Area 1: Western part Area 2: Remainder SISKIYOU COUNTY:

PLUMAS COUNTY: Area 1: Western portion Area 2: Remainder SHASTA COUNTY: Area 1: All but the Northeastern corner Area 2: Remainder

Area 1: Central part Area 2: Remainder

PLACER COUNTY: Area 1: All but the Central portion Area 2: Remainder

NEVADA COUNTY: Area 1: All but the Northern portion along the border of Sierra County Area 2: Remainder

MONTEREY COUNTY Area 1: Remainder Area 2: Southwestern part

MARIPOSA COUNTY Area 1: Remainder Area 2: Eastern part MENDOCTNO COUNTY. Area 1: Central and Southeastern parts

LASSEN COUNTY: Area 1: Western part along the Southern portion of border with Shasta County Area 2: Remainder

Area 1: Except Eastern and Southwestern parts

FRESNO COUNTY Area 1: Except Eastern part Area 2: Eastern part

Area 1: Extreme Southwestern corner Area 2: Remainder

Area 1: North Central part Area 2: Remainder

ELDORADO COUNTY:

Area 1: Except Eastern part Area 2: Eastern part COLUSA COUNTY: Area 1: Eastern part Area 2: Remainder DEL NORTE COUNTY:

GLENN COUNTY: Area 1: Eastern part Area 2: Remainder

HUMBOLDT COUNTY:

Area 2: Remainder

LAKE COUNTY:

MADERA COUNTY Area 1: Remainder Area 2: Eastern part

Area 2: Remainder

Area 1: Southern part Area 2: Remainder

	Rates	Fringes
OPERATOR: Power Equipment		
(AREA 1:)		
GROUP 1 GROUP 2		31.03 31.03
GROUP 3	\$ 57.71	31.03
GROUP 4 GROUP 5		31.03 31.03
GROUP 6	\$ 53.74	31.03
GROUP 7		31.03
GROUP 8 GROUP 8-A		31.03 31.03
OPERATOR: Power Equipment		
(Cranes and Attachments - AREA 1:)		
GROUP 1		
Cranes Oiler		31.15 31.15
Truck crane oiler		31.15
GROUP 2 Cranes	¢ EQ E4	31.15
Oiler		31.15
Truck crane oiler	\$ 45.07	31.15
GROUP 3 Cranes	\$ 48.80	31.15
Hydraulic	\$ 44.44	31.15
Oiler Truck crane oiler		31.15 31.15
GROUP 4		
Cranes OPERATOR: Power Equipment	\$ 45.76	31.15
(Piledriving - AREA 1:)		
GROUP 1	¢ 52 64	21 15
Lifting devices Oiler		31.15 31.15
Truck Crane Oiler		31.15
GROUP 2 Lifting devices	\$ 50.82	31.15
0iler	\$ 43.11	31.15
Truck Crane Oiler GROUP 3	\$ 45.41	31.15
Lifting devices		31.15
Oiler Truck Crane Oiler		31.15
GROUP 4	45.12	31.15
Lifting devices	\$ 47.37	31.15
GROUP 5 Lifting devices	\$ 44.73	31.15
GROUP 6		
Lifting devices OPERATOR: Power Equipment	\$ 42.50	31.15
(Steel Erection - AREA 1:)		
GROUP 1 Cranes	\$ 53.27	31.15
0iler	\$ 43.72	31.15
Truck Crane Oiler GROUP 2	\$ 45.95	31.15
Cranes	\$ 51.50	31.15
Oiler		31.15
Truck Crane Oiler GROUP 3	45./5	31.15
Cranes		31.15
Hydraulic Oiler		31.15 31.15
Truck Crane Oiler		31.15
GROUP 4 Cranes	\$ 48.00	31.15
GROUP 5		51115
Cranes OPERATOR: Power Equipment	\$ 46.70	31.15
(Tunnel and Underground Work		
- AREA 1:) SHAFTS, STOPFS, RATSES'		
SHAFTS, STOPES, RAISES: GROUP 1	\$ 56.82	31.03
GROUP 1-A	\$ 49.99	31.15 31.03
GROUP 1A GROUP 2		31.03 31.03
GROUP 3	\$ 54.23	31.03
GROUP 4 GROUP 5		31.03 31.03
UNDERGROUND:		
GROUP 1 GROUP 1-A		31.15 31.15
GROUP 2	\$ 46.16	31.15
GROUP 3 GROUP 4		31.15 31.15
GROUP 5		31.15

FOOTNOTE: Work suspended by ropes or cables, or work on a Yo-Yo Cat: \$.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Licensed construction work boat operator, on site; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine assistant to engineer or mechanic; Crane

mounted continuous flight tie back machine, tonnage to apply; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Long reach excavator; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull- type elevating loader; Gradesetter, grade checker (GPS, mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LOH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber- tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Spider plow and spider puller; Tubex pile rig; Unlicensed constuction work boat operator, on site; Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller; Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom- type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Streed (except asphaltic concrete paving); Self- propelled pipeline wrapping machine; Tractor; Self-loading chippe; Concrete barrier moving machine

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing mahcine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck- type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (selfpropelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator (includes vacuum sweeper); Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader-Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe-trencher); Tub grinder wood chipper

ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over 100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Cranes 45 tons and under; Self-propelled boom-type lifting device 45 tons and under;

GROUP 4: Boom Truck or dual purpose A-frame truck, non-rotating over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons;

PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons; Fundex F-12 hydraulic pile rig

GROUP 3: Derrick barge pedestal mounted under 45 tons; Selfpropelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Selfpropelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair $\operatorname{person/welder}$

GROUP 5: Boom cat

- -

TUNNEL AND UNDERGROUND WORK

GROUP 1-A: Tunnel bore machine operator, 20' diameter or more

GROUP 1: Heading shield operator; Heavy-duty repairperson; Mucking machine (rubber tired, rail or track type); Raised bore operator (tunnels); Tunnel mole bore operator

GROUP 2: Combination slusher and motor operator; Concrete pump or pumpcrete gun; Power jumbo operator

GROUP 3: Drill doctor; Mine or shaft hoist

GROUP 4: Combination slurry mixer cleaner; Grouting Machine operator; Motorman

GROUP 5: Bit Sharpener; Brakeman; Combination mixer and compressor (gunite); Compressor operator; Oiler; Pump operator; Slusher operator

AREA DESCRIPTIONS:

POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS,TUNNEL AND UNDERGROUND [These areas do not apply to Piledrivers and Steel Erectors]

AREA 1: DEL NORTE, HUMBOLDT, LAKE, MENDOCINO AREA 2 -NOTED BELOW

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

DEL NORTE COUNTY: Area 1: Extreme Southwest corner Area 2: Remainder

HUMBOLDT COUNTY: Area 1: Except Eastern and Southwestern parts Area 2: Remainder

LAKE COUNTY: Area 1: Southern part Area 2: Remainder

MENDOCINO COUNTY: Area 1: Central and Southeastern Parts Area 2: Remainder

IRON0118-012 01/01/2024

ALPINE, LASSEN, MODOC, SISKIYOU and TRINITY COUNTIES

Rates Fringes

IRONWORKER\$	41.00	34.20

IRON0118-013 01/01/2024

AMADOR, BUTTE, COLUSA,EL DORADO, GLENN,MARIN, NAPA, NEVADA, PLACER,PLUMAS, SACRAMENTO, SHASTA, SIERRA, SOLANO, SONOMA, SUTTER, TEHAMA, YOLO and YUBA COUNTIES

Rates Fringes

IRONWORKER.....\$ 47.45 34.90

LAB00067-003 07/01/2024

AREA ""1"" - MARIN and NAPA COUNTIES

AREA ""2"" - ALPINE, AMADOR, BUTTE COLUSA EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES

	Rates	Fringes
LABORER (ASBESTOS/MOLD/LEAD LABORER)		
Marin and Napa Counties.	\$ 37.75	29.69
Remaining Counties	\$ 36.75	29.69

LAB00067-005 01/01/2024

AREA ""A"" - ALAMEDA, CONTRA COSTA, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA ""B"" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NEVADA, PLACER, PLUMAS, SANORCEMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SIERRA, SHASTA, SISKIYOU, STANISLAUS, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YOUBA COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE) Escort Driver, Flag Person		
Area B Traffic Control Person I	\$ 37.26	27.32 27.32
Area A Area B		27.32
Traffic Control Person II Area A	\$ 35.06	27.32
Area B	\$ 34.06	27.32

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LAB00185-002 07/01/2023

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

	Rates	Fringes	
LABORER Mason Tender-Brick.	\$ 36.29	25.55	
LAB00185-005 06/26/2023	3		
ALPINE, AMADOR, BUTTE, C	COLUSA, EL DORADO,	GLENN, LASSEN, MODOC,	

NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SISRRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1	\$ 45.89	27.72

GROUP 2\$ GROUP 3\$		27.72 27.72
GROUP 4\$	44.96	27.72
GROUP 5\$	44.42	27.72
Shotcrete Specialist\$	46.41	27.72

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LAB00185-006 06/26/2023

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHIASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO, YUBA COUNTIES

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT		
LABORERS - AREA B:)		
Construction Specialist		
Group	.\$ 36.20	27.30
GROUP 1	.\$ 35.50	27.30
GROUP 1-a	.\$ 35.72	27.30
GROUP 1-c	.\$ 35.55	27.30
GROUP 1-e	.\$ 36.05	27.30
GROUP 1-f	.\$ 30.37	23.20
GROUP 2	.\$ 35.35	27.30
GROUP 3	.\$ 35.25	27.30
GROUP 4		27.30
See groups 1-b and 1-d under l	aborer class	ifications.
LABORER (GARDENERS,		
HORTICULTURAL & LANDSCAPE		
LABORERS - AREA B:)		
New Construction	.\$ 35.25	27.30
(2) Establishment Warranty		
Period	.\$ 28.94	27.30
LABORER (GUNITE - AREA B:)		
GROUP 1		27.30
GROUP 2		27.30
GROUP 3		27.30
GROUP 4	.\$ 35.25	27.30
LABORER (WRECKING - AREA B:)		
GROUP 1		27.30
GROUP 2	.\$ 35.35	27.30
FOOTNOTES:		

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in- place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2"" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, poxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder;

Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power transpers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and Sacked concrete and/or sand (wet or dry) and gablons and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 Wagon driller; Mechanical driller; Alex der die Server model wir Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. ""Sewer cleaner"" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shal receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. employees performing work covered herein shall receive \$
.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification ""material cleaner"" is to be utilized under the following conditions: A: at demolition site for the salvage of the material. B: at the conclusion of a job where the material is to be

salvaged and stocked to be reused on another job. C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of ""form stripping, cleaning and oiling and moving to the next point of erection"".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker	(removing	and	salvaging	of	sash,
windows and materials)					

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

LABO0185-008 07/01/2023		
	Rates	Fringes
Plasterer tender	.\$ 39.77	28.54
Nork on a swing stage scaffold:		our additional.
LAB00261-002 07/01/2023		
MARIN COUNTY		
	Rates	Fringes
ABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person. Traffic Control Person I Traffic Control Person II	.\$ 37.26 .\$ 37.56 .\$ 35.06	27.30 27.30 27.30
TRAFFIC CONTROL PERSON I: Layo cushions, construction area an		
TRAFFIC CONTROL PERSON II: Ins temporary/permanent signs, mar cushions.	tallation a kers, delir	nd removal of leators and crash
LAB00261-004 06/26/2023		
IARIN COUNTY		
	Rates	Fringes
unnel and Shaft Laborers:		
GROUP 1 GROUP 2		27.72 27.72
GROUP 2		27.72
GROUP 4	.\$ 44.96	27.72
GROUP 5		27.72
Shotcrete Specialist		27.72
UNNEL AND SHAFT CLASSIFICATIONS		
GROUP 1: Diamond driller; Grou nozzlemen	ndmen; Guni	te and shotcrete
GROUP 2: Rodmen; Shaft work & excavated ground level)	raise (belo	w actual or
GROUP 3: Bit grinder; Blaster, Cherry pickermen - where car i in tunnel; Concrete screedman; Gunite & shotcrete gunmam & po pressure nozzleman; Miner - tu bottom man on shaft and raise slick line; Sandblaster - potm Segment Erector, Tunnel Muck H setter; Timberman, retimberman materials therefore); Tugger (Cable tender; Chuck tender; Po	s lifted; (Grout pump tman; Heade nnel, inclu work; Nippe an, Robotid auler, Stee (wood or s for tunnel	<pre>ioncrete finisher wman and potman; wman idigh iding top and er; Nozzleman on : Shotrete Placer, el Form raiser and iteel or substitute laborer work);</pre>
GROUP 4: Vibrator operator, pa muckers, trackmen; Concrete cr spreading, Dumpmen (any method	ew - includ	ker; Bull gang - les rodding and

MARIN COUNTY

	Rates	Fringes
LABORER Mason Tender-Brick	\$ 37.54	25.55
LAB00261-010 06/26/2023		
MARIN COUNTY		
	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA A:) Construction Specialist Group GROUP 1 GROUP 1-a GROUP 1-c GROUP 1-c GROUP 1-f GROUP 2 GROUP 2 GROUP 2 GROUP 4 See groups 1-b and 1-d under LABORER GARDENES	\$ 36.50 \$ 36.72 \$ 37.05 \$ 31.37 \$ 36.35 \$ 36.25 \$ 29.94	27.30 27.30 27.30 27.30 27.30 23.20 27.30 27.30 27.30 27.30 27.30 ifications.
LABORER (GARDENERS, HORTICULTURAL & LANDSCAPE LABORERS - AREA A:)		

(1) New Construction\$ 36.2(2) Establishment Warranty	25 27.30
Period\$ 29.9 LABORER (GUNITE - AREA A:)	27.30
GROUP 1\$ 37.4	6 27.30
GROUP 2\$ 36.9	27.30
GROUP 3\$ 36.3	37 27.30
GROUP 4\$ 36.2	25 27.30
LABORER (WRECKING - AREA A:)	
GROUP 1\$ 36.5	27.30
GROUP 2\$ 36.3	35 27.30

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in- place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bande pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, whating, brating, trenthacking, lagging nammer; magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. ""Sewer cleaner"" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shal receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry

cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 Ibs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification ""material cleaner"" is to be utilized under the following conditions: A: at demolition site for the salvage of the material. B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job. C: for the clearing of column entropy of the individe on the cleare of the clearing of column entropy of the individe on C: for the clearing of column entropy of the individe on

C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of ""form stripping, cleaning and oiling and moving to the next point of erection"".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

LAB00261-015 07/01/2023		
	Rates	Fringes
Plasterer tender	\$ 39.77	28.54

Work on a swing stage scaffold: \$1.00 per hour additional. LAB00324-004 07/01/2023

NAPA, SOLANO, AND SONOMA, COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE) Escort Driver, Flag Person. Traffic Control Person I Traffic Control Person II.	.\$ 36.56	27.30 27.30 27.30

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LAB00324-008 06/26/2023

NAPA, SOLANO, AND SONOMA COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1	\$ 45.89	27.72
GROUP 2	\$ 45.66	27.72
GROUP 3	\$ 45.41	27.72
GROUP 4	\$ 44.96	27.72
GROUP 5	\$ 44.42	27.72
Shotcrete Specialist	\$ 46.41	27.72

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nichorn Core and on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

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LAB00324-010 07/01/2023

SOLANO AND SONOMA COUNTIES

	Rates	Fringes
LABORER Mason Tender-Brick		
LAB00324-013 06/26/2023		
NAPA, SOLANO, AND SONOMA COUNTIES		
	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA B:) Construction Specialist		
Group	\$ 36.20	27.30
GROUP 1		27.30
GROUP 1-a	\$ 35.72	27.30
GROUP 1-c	\$ 35.55	27.30
GROUP 1-e	\$ 36.05	27.30
GROUP 1-f	\$ 36.08	27.30
GROUP 2	\$ 35.35	27.30
GROUP 3	\$ 35.25	27.30
GROUP 4	\$ 28.94	27.30
See groups 1-b and 1-d under la	borer classific	ations.
LABORER (GARDENERS,		
HORTICULTURAL & LANDSCAPE		
LABORERS - AREA B:)		
New Construction	\$ 35.25	27.30
(2) Establishment Warranty		
Period	\$ 28.94	27.30
LABORER (GUNITE - AREA B:)		
GROUP 1	\$ 36.46	27.30
GROUP 2	\$ 35.96	27.30
GROUP 3	\$ 35.37	27.30
GROUP 4	\$ 35.25	27.30
LABORER (WRECKING - AREA B:)		
GROUP 1	\$ 35.50	27.30
60.010 0		27 20

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

GROUP 2.....\$ 35.35

27.30

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hvdraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucker; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2"" or over, 100 lbs. pressure/over); Hydro seeder and similar over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and

similar type; Rotary scarifier or multiple head concrete Samilar (ppc) Notary Scalinger to Multiple mead Contrete chipping Scarifier; Roto and Ditch Witch, Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, Jack teg uriller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing. High scalars (including drilling such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. ""Sewer cleaner"" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shal receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$
.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and concrete bucket bumper and chute; concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and

washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification ""material cleaner"" is to be utilized under the following conditions: A: at demolition site for the salvage of the material. B: at the conclusion of a job where the material is to be

salvaged and stocked to be reused on another job. C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of ""form stripping, cleaning and oiling and moving to the next point of erection"".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4. Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

1 4000004 010 07/07 (0000		
LAB00324-019 07/01/2023	Pater	Eninger
Plasterer tender	Rates	Fringes 28.54
Nork on a swing stage scaffold		
PAIN0016-004 01/01/2024		
MARIN, NAPA, SOLANO & SONOMA C		
	Rates	Fringes
Painters:	\$ 50.51	27.66
<pre>REMIUMS: EXOTIC MATERIALS - \$1.25 addit EXOTIC MATERIALS - \$0.50 additional INDUSTRIAL PAINTING - \$0.25 ad [Work on industrial building processing of goods for sale (bridges), stacks, towers, t</pre>	per hour. ditional per h s used for the or service; s	our manufacture and teel construction
HIGH WORK: over 50 feet - \$2.00 per hour 100 to 180 feet - \$4.00 per ho Over 180 feet - \$6.00 per houi	our additional	
PAIN0016-005 01/01/2024		
ALPINE, BUTTE, COLUSA, EL DORA Mountains), GLENN, LASSEN (wes Lake); MARIN, MODOC, NAPA, NEV Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SOLANO, YOLO AND YUBA COUNTIES	t of Hwy. 395, /ADA (west of t e Sierra Nevad ERRA (west of	excluding Honey he Sierra Nevada a Mountains), the Sierra Nevada
	Rates	Fringes
DRYWALL FINISHER/TAPER		29.94
PAIN0016-007 01/01/2024		
		ghway 395,
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER,	NEVADA (west o ne Sierra Nevad ERRA (west of	f the Sierra Nevada a Mountains), the Sierra Nevada
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER,	NEVADA (west o ne Sierra Nevad ERRA (west of TEHAMA, TRINIT	f the Sierra Nevada a Mountains), the Sierra Nevada
excluding Honey Lake), MODOC, Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER, COUNTIES Painters:	NEVADA (west o ne Sierra Nevad ERRA (west of TEHAMA, TRINIT Rates	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER, COUNTIES Painters: SPRAY/SANDBLAST: \$0.50 additic EXOTIC MATERIALS: \$1.25 additi HIGH TIME: Over 50 ft above additional per hour. 100 tc level \$4.00 additional per h or water level \$6.00 additic	NEVADA (west o le Sierra Nevad ERRA (west of TEHAMA, TRINIT Rates \$ 40.85 onal per hour. onal per hour. ol80 ft above our. Over 180 onal per hour.	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER, COUNTIES Painters: SPRAY/SANDBLAST: \$0.50 additic STATY/SANDBLAST: \$0.50 additic HIGH TIME: Over 50 ft above additional per hour. 100 tc level \$4.00 additional per h	NEVADA (west o le Sierra Nevad ERRA (west of TEHAMA, TRINIT Rates \$ 40.85 onal per hour. onal per hour. ol80 ft above our. Over 180 onal per hour.	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground
Nountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Nountains), SISKIYOU, SUTTER, COUNTIES Painters:	NEVADA (west o le Sierra Nevad ERRA (west of TEHAMA, TRINIT Rates \$ 40.85 bnal per hour. onal per hour. ol80 ft above bond per hour.	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground
Aountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Aountains), SISKIYOU, SUTTER, COUNTIES Painters:	NEVADA (west o le Sierra Nevad ERRA (west of TEHAMA, TRINIT Rates \$ 40.85 bnal per hour. onal per hour. ol80 ft above bond per hour.	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER, COUNTIES Painters: SPRAY/SANDBLAST: \$0.50 additic EXOTIC MATERIALS: \$1.25 additi HIGH TIME: Over 50 ft above additional per hour. 100 to level \$4.00 additional per h or water level \$6.00 additic	NEVADA (west o ne Sierra Nevad LERRA (west of TEHAMA, TRINIT Rates \$ 40.85 onal per hour. .onal per hour.	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground Fringes 33.03
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER, COUNTIES Painters: SPRAY/SANDBLAST: \$0.50 additic EXOTIC MATERIALS: \$1.25 additi HIGH TIME: Over 50 ft above additional per hour. 100 tc level \$4.00 additional per h or water level \$6.00 additic PAIN0016-008 01/01/2024 MARIN, NAPA, SOLANO AND SONOMA SOFT FLOOR LAYER	NEVADA (west o ne Sierra Nevad LERRA (west of TEHAMA, TRINIT Rates \$ 40.85 onal per hour. onal per hour. onal per hour. onal per hour. 0 180 ft above nour. Over 180 onal per hour. COUNTIES Rates \$ 59.00 S; SOLANO COUNT pridor beginni r. Force Base a Rd., continue line; Hwy. 80	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground Fringes 33.03 Y (west of a line ng at the City of nd Suisun City; north on Suisun
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER, COUNTIES Painters: SPRAY/SANDBLAST: \$0.50 additic EXOTIC MATERIALS: \$1.25 additi HIGH TIME: Over 50 ft above additional per hour. 100 tc Level \$4.00 additional per h or water level \$6.00 additic PAIN0016-008 01/01/2024 MARIN, NAPA, SOLANO AND SONOMA SOFT FLOOR LAYER PAIN0169-004 01/01/2024 MARIN , NAPA & SONOMA COUNTIES Gefined as follows: Hwy. 80 cc Fairfield, including Travis Ai going north of Manakas Corner Valley Rd. to the Napa County	NEVADA (west o ne Sierra Nevad LERRA (west of TEHAMA, TRINIT Rates \$ 40.85 onal per hour. onal per hour. onal per hour. onal per hour. 0 180 ft above nour. Over 180 onal per hour. COUNTIES Rates \$ 59.00 S; SOLANO COUNT pridor beginni r. Force Base a Rd., continue line; Hwy. 80	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground Fringes 33.03 Y (west of a line ng at the City of nd Suisun City; north on Suisun
Mountains), PLACER (west of th PLUMAS, SACRAMENTO, SHASTA, SI Mountains), SISKIYOU, SUTTER, COUNTIES Painters: SPRAY/SANDBLAST: \$0.50 additic EXOTIC MATERIALS: \$1.25 additi HIGH TIME: Over 50 ft above additional per hour. 100 tc Level \$4.00 additional per h or water level \$6.00 additic PAIN0016-008 01/01/2024 MARIN, NAPA, SOLANO AND SONOMA SOFT FLOOR LAYER PAIN0169-004 01/01/2024 MARIN , NAPA & SONOMA COUNTIES Gefined as follows: Hwy. 80 cc Fairfield, including Travis Ai going north of Manakas Corner Valley Rd. to the Napa County	NEVADA (west o he Sierra Nevad LERRA (west of TEHAMA, TRINIT Rates \$ 40.85 boal per hour. onal per hour. onal per hour. b 180 ft above hour. Over 180 onal per hour. COUNTIES Rates \$ 59.00 S; SOLANO COUNT Force Base a Rd., continue line; Hwy. 80 czly Island Man Rates \$ 56.22	f the Sierra Nevada a Mountains), the Sierra Nevada Y, YOLO & YUBA Fringes 22.40 er level \$2.00 ground or water ft above ground Fringes 33.03 Y (west of a line ng at the City of nd Suisun City; north on Suisun corridor south on agement area) Fringes 34.00

Rates	Fringes
Painters: Brush and Roller\$ 33.15 Spray Painter & Paperhanger.\$ 34.81	14.29 14.29

Special Coatings (Brush), and Sandblasting = \$0.50/hr Special Coatings (Spray), and Steeplejack = \$1.00/hr Special Coating Spray Steel = \$1.25/hr Swing Stage = \$2.00/hr

*A special coating is a coating that requires the mixing of 2 or more products.

PAIN0567-007 07/01/2022

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains) AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

	Rates	Fringes
T FLOOR LAYER	.\$ 34.27	16.47

PAIN0567-010 07/01/2022

SOF

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

	Rates	Fringes
Drywall (1) Taper (2) Steeplejack - Taper, over 40 ft with open space		14.99
below		14.99
Delow		14.99

PAIN0767-004 01/01/2024

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO (Remainder), SUTTER, TEHAMA, TRINITY, YOLO, YUBA

	Rates	Fringes
GLAZIER	\$ 43.25	35.62

PAID HOLIDAYS: New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

Employee required to wear a body harness shall receive \$1.50 per hour above the basic hourly rate at any elevation.

PAIN1176-001 07/01/2022

HIGHWAY IMPRØVEMENT

	Rates	Fringes
Parking Lot Striping/Highway Marking:		
GROUP 1	\$ 40.83	17.62
GROUP 2	\$ 34.71	17.62
GROUP 3	\$ 35.11	17.62

CLASSIFICATIONS

Р

GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings

GROUP 2: Gamecourt & Playground Installer

GROUP 3: Protective Coating, Pavement Sealing

PAIN1237-001 01/01/2024

ALPINE; COLUSA; EL DORADO (west of the Sierra Nevada Mountains); GLENN; LASSEN (west of Highway 395, beginning at Stacey and including Honey Lake); MODOC; NEVADA (west of the Sierra Nevada Mountains); PLACER (west of the Sierra Nevada Mountains); PLUMAS; SACRAMENTO; SHASTA; SIERRA (west of the Sierra Nevada Mountains); SISKIYOU; SUTTER; TEHAMA; TRINITY; YOLO AND YUBA COUNTIES

Rates Fringes

SOFT FLOOR LAYER	\$ 48.54	26.59
PLAS0300-003 07/01/2018		
	Rates	Fringes
PLASTERER AREA 295: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sutter, Tehema, Trinity,		

Yolo & Yuba Counties AREA 355: Marin AREA 355: Napa & Sonoma		31.68 31.68
Counties PLAS0300-005 07/01/2016		31.68
	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		23.27
PLUM0038-002 07/01/2022		
MARIN AND SONOMA COUNTIES		
	Rates	Fringes
<pre>PLUMBER (Plumber, Steamfitter, Refrigeration Fitter) (1) Work on wooden frame structures 5 stories or less excluding high-rise buildings and commercial work such as hospitals, prisors, hotels, schools, casinos, wastewater treatment plants, and resarch facilities as well as refrigeration pipefitting, service and repair work - MARKET RECOVERY RATE</pre>		46.38 48.18
MARIN & SONOMA COUNTIES		
STATE & SONOTH COUNTLES	Rates	Eninger
Landerana (Tradication Title	Rales	Fringes
Landscape/Irrigation Fitter (Underground/Utility Fitter)		33.15
PLUM0228-001 07/01/2024		
BUTTE, COLUSA, GLENN, LASSEN, MO SISKIYOU, SUTTER, TEHAMA, TRINIT		
	Rates	Fringes
PLUMBER		39.79
PLUMBER	. <i>₽</i> 4 0.00	
PLUM0343-001 07/01/2024		
NAPA AND SOLANO COUNTIES	D-t-	Faire
	Rates	Fringes
PLUMBER/PIPEFITTER Light Commercial All Other Work		20.40 36.63
DEFINITION OF LIGHT COMMERICIAL: Work shall include strip shopp schools and other commercial s plumbing bid does not exceed T (\$250,000) and the total heati exceed Two Hundred Fifty Thous projects bid in phases shall n project is less than Two Hundr for the plumbing bid; and Two (\$250,000) for the heating and hospitals, jails, institutions regardless size of the project FOOTNOTES: While fitting galva additional. Work from trusses unguarded structures 35' from hour additional. Work from sw chairs or similar devices: \$.7	tructures which wo Hundred and ng and cooling and (\$250,000); ot qualify unle d Fifty Thousa Hundred Fifty T cooling bid. and industrial hized material: , temporary sta the ground or w inging scaffold	<pre>the total Fifty Thousand does not or Any ss the total nd (\$250,000) housand Excluded are projects, \$.75 per hour ging, ater: \$.75 per s, boatswains</pre>
PLUM0350-001 08/01/2023		
EL DORADO COUNTY (Lake Tahoe are Tahoe area only); AND PLACER COU	a only); NEVADA NTY (Lake Tahoe	COUNTY (Lake area only)
		- ·
	Rates	Fringes
PLUMBER/PIPEFITTER PLUM0355-001 07/01/2024	.\$ 52.14	18.71
ALPINE, AMADOR, BUTTE, COLUSA, E NAPA, NEVADA, PLACER, PLUMAS, SA SISKIYOU, SOLANO, SUTTER, TEHAMA COUNTIES	CRAMENTO, SHAST	A, SIERRA,
	Rates	Fringes
Underground Utility Worker		
/Landscape Fitter		18.30
PLUM0442-003 07/01/2024		

	Rates	Fringes
PLUMBER		36.99
PLUM0447-001 07/01/2024		
MADOR (north of San Joaquin F ahoe area), NEVADA (excluding excluding Lake Tahoe area), S	g Lake Tahoe ar	ea); PLACER
	Rates	Fringes
PLUMBER/PIPEFITTER Journeyman Light Commercial Work ROOF0081-006 08/01/2023	\$ 53.08	29.25 23.52
MARIN, NAPA, SOLANO AND SONOMA	A COUNTIES	
, ,	Rates	Fringes
Roofer		22.31
ROOF0081-007 08/01/2023		
LPINE, BUTTE, COLUSA, EL DORA LACER, PLUMAS, SACRAMENTO, SH EHAMA, TRINITY, YOLO, AND YUE	HASTA, SIERRA,	
	Rates	Fringes
Roofer SFCA0483-003 08/01/2024	\$ 46.73	21.36
MARIN, NAPA, SOLANO AND SONOMA	A COUNTIES	
	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers) SFCA0669-003 01/01/2024		38.51
ALPINE, BUTTE, COLUSA, EL DORA PLACER, PLUMAS, SACRAMENTO, SH TEHAMA, TRINITY, YOLO AND YUBA	HASTA, SIERRA,	SEN, MODOC, NEVADA, SISKIYOU, SUTTER,
	Rates	Fringes
PRINKLER FITTER		Fringes 27.97
	\$ 46.46	27.97
SHEE0104-006 06/29/2020	\$ 46.46	27.97
SHEE0104-006 06/29/2020 IARIN, NAPA, SOLANO SONOMA &	\$ 46.46 TRINITY COUNTI	27.97
SHEE0104-006 06/29/2020 MARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06	27.97 ES Fringes 45.29 46.83
SHEE0104-006 06/29/2020 IARIN, NAPA, SOLANO SONOMA & heet Metal Worker Mechanical Contracts \$200,000 or less All other work	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06	27.97 ES Fringes 45.29 46.83
SHEE0104-006 06/29/2020 MARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 WMADOR, COLUSA, EL DORADO, NEV	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06	27.97 ES Fringes 45.29 46.83
SHEE0104-006 06/29/2020 MARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 MMADOR, COLUSA, EL DORADO, NEV	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER,
SHEE0104-006 06/29/2020 IARIN, NAPA, SOLANO SONOMA & heet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 MADOR, COLUSA, EL DORADO, NEV OLO AND YUBA COUNTIES HEET METAL WORKER	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06 (ADA, PLACER, S Rates \$ 47.85	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90
SHEE0104-006 06/29/2020 MARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 MMADOR, COLUSA, EL DORADO, NEW YOLO AND YUBA COUNTIES SHEET METAL WORKER SHEE0104-010 07/01/2020	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06 (ADA, PLACER, S Rates \$ 47.85	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90
SHEE0104-006 06/29/2020 IARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 WADOR, COLUSA, EL DORADO, NEV OLO AND YUBA COUNTIES SHEET METAL WORKER SHEE0104-010 07/01/2020	<pre>\$ 46.46 TRINITY COUNTI Rates\$ 55.92\$ 64.06 /ADA, PLACER, S Rates\$ 47.85</pre>	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90
SHEE0104-006 06/29/2020 ARIN, NAPA, SOLANO SONOMA & heet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 MADOR, COLUSA, EL DORADO, NEV OLO AND YUBA COUNTIES HEET METAL WORKER SHEE0104-010 07/01/2020 IPINE COUNTY	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06 /ADA, PLACER, S Rates \$ 47.85 Rates	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90 Fringes
SHEE0104-006 06/29/2020 ARIN, NAPA, SOLANO SONOMA & heet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 MADOR, COLUSA, EL DORADO, NEV OLO AND YUBA COUNTIES HEET METAL WORKER SHEE0104-010 07/01/2020 IPINE COUNTY HEET METAL WORKER	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06 /ADA, PLACER, S Rates \$ 47.85 Rates \$ 43.50	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90 Fringes 37.42
\$200,000 or less All other work SHEE0104-009 07/01/2021 MMADOR, COLUSA, EL DORADO, NEV OLO AND YUBA COUNTIES	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06 \$ 47.85 Rates \$ 47.85 Rates \$ 43.50	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90 Fringes 37.42 OC, NEVADA, PLACER,
SHEE0104-006 06/29/2020 taRIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 WMADOR, COLUSA, EL DORADO, NEW YOLO AND YUBA COUNTIES SHEE0104-010 07/01/2020 ALPINE COUNTY SHEET METAL WORKER SHEE0104-011 07/01/2020 SHEET METAL WORKER SHEE0104-011 07/01/2020 SUTTE, COLUSA, EL DORADO, GLEM	\$ 46.46 TRINITY COUNTI Rates \$ 55.92 \$ 64.06 \$ 47.85 Rates \$ 47.85 Rates \$ 43.50	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90 Fringes 37.42 OC, NEVADA, PLACER, SUTTER, TEHAMA,
SHEE0104-006 06/29/2020 AARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 AMADOR, COLUSA, EL DORADO, NEW YOLO AND YUBA COUNTIES SHEE0104-010 07/01/2020 ALPINE COUNTY SHEE0104-011 07/01/2020 SHEE0104-011 07/01/2020 SUTTE, COLUSA, EL DORADO, GLEN PULMAS, SACRAMENTO, SHASTA, SI YOLO AND YUBA COUNTIES Sheet Metal Worker (Metal lecking and siding only)	<pre>\$ 46.46 TRINITY COUNTI Rates\$ 55.92\$ 64.06\$ 47.85\$ 47.85 Rates\$ 47.85\$ 43.50 NN, LASSEN, MOD LERRA, SISKIYOU Rates\$ 44.45</pre>	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90 Fringes 37.42 OC, NEVADA, PLACER, , SUTTER, TEHAMA, Fringes 35.55
SHEE0104-006 06/29/2020 tARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 WADOR, COLUSA, EL DORADO, NEW YOLO AND YUBA COUNTIES SHEET METAL WORKER SHEE0104-010 07/01/2020 SUTE, COLUSA, EL DORADO, GLEN SHEE0104-011 07/01/2020 SUTE, COLUSA, EL DORADO, GLEN SHEE0104-011 07/01/2020 SUTE, COLUSA, EL DORADO, GLEN SHEE0104-011 07/01/2020 SHEET METAL WORKER (Metal lecking and siding only)	<pre>\$ 46.46 TRINITY COUNTI Rates\$ 55.92\$ 64.06\$ 47.05 Rates\$ 47.85 Rates\$ 43.50 NN, LASSEN, MOD LERRA, SISKIYOU Rates\$ 44.45</pre>	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90 Fringes 37.42 OC, NEVADA, PLACER, SUTTER, TEHAMA, Fringes 35.55
SHEE0104-006 06/29/2020 MARIN, NAPA, SOLANO SONOMA & Sheet Metal Worker Mechanical Contracts \$200,000 or less All other work SHEE0104-009 07/01/2021 MADOR, COLUSA, EL DORADO, NEV YOLO AND YUBA COUNTIES SHEET METAL WORKER SHEE0104-010 07/01/2020 MIPINE COUNTY SHEET METAL WORKER SHEE0104-011 07/01/2020 BUTTE, COLUSA, EL DORADO, GLEN YUMAS, SACRAMENTO, SHASTA, SJ YOLO AND YUBA COUNTIES Sheet Metal Worker (Metal decking and siding only)	<pre>\$ 46.46 TRINITY COUNTI Rates\$ 55.92\$ 64.06\$ 47.05 Rates\$ 47.85 Rates\$ 43.50 NN, LASSEN, MOD LERRA, SISKIYOU Rates\$ 44.45</pre>	27.97 ES Fringes 45.29 46.83 ACRAMENTO, SUTTER, Fringes 41.90 Fringes 37.42 OC, NEVADA, PLACER, SUTTER, TEHAMA, Fringes 35.55

SHEE0104-019 07/01/2020

BUTTE, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA, SISKIYOU AND TEHAMA COUNTIES

	Rates	Fringes	
SHEET METAL WORKER Mechanical Jobs \$200,000 &			
under Mechanical Jobs over	\$ 35.16	35.88	
\$200,000	\$ 46.60	40.21	
* TEAM0094-001 07/01/2024			-
	Rates	Fringes	
Truck drivers:			
GROUP 1	\$ 41.54	33.25	
GROUP 2	\$ 41.84	33.25	
GROUP 3	\$ 42.14	33.25	
GROUP 4	\$ 42.49	33.25	
GROUP 5			

FOOTNOTES:

Articulated dump truck: Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate. Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and ""A"" frame drivers; Combination winch Truck with hoist; Road oil truck or bootperson; Buggymobile; Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self- propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar type self-loading truck; Tire repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 25 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); Lowbedk Heavy Duty Transport up to including 7 axles; DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who i like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic

violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

State Adopted Rate Identifiers

Classifications listed under the ""SA"" identifier indicate that the prevailing wage rate set by a state (or local) government was adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 01/03/2024 reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
 * a survey underlying a wage determination
- a Wage and Hour Division letter setting forth a position on a wage determination matter
- a conformance (additional classification and rate) ruling
- On survey related matters, initial contact, including requests

for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION"

APPENDIX E CWSRF SIGN

PROJECT FUNDED BY

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