

April 12, 2021 (2018-047.026)

Dr. David Lin CA Department of Fish and Wildlife 4665 Lampson Avenue, Suite C Los Alamitos, CA 90720

Subject: 2021 Protected Species Preconstruction Surveys for the Devil's Gate Reservoir Restoration Project in the City of Pasadena, California

Dear Dr. Lin,

This letter report has been prepared to present the results of preconstruction surveys for protected species conducted by ECORP Consulting, Inc. (ECORP) for Los Angeles County Public Works' (LACPW) Devil's Gate Reservoir Restoration Project in the City of Pasadena, Los Angeles County, California. The preconstruction surveys for protected species were conducted to comply with Condition 2.10 in the California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreement (SAA) 1600-2015-0263-R5 that was issued for the Devil's Gate Sediment Removal and Management Project (Project) on March 21, 2017.

According to the SAA, protected species are defined as "a species fully protected under state law; a species listed under the California Endangered Species Act (Fish and Game Code § 2050 et seq.) and/or Endangered Species Act (16 U.S.C. § 1531 et seq.); a species identified by CDFW as a species of special concern; or any other species for which take is prohibited under state or federal law". The protected species in the SAA are listed in Table 1 below.

Table 1. Protected Species in SAA

Common Name	Scientific Name	Special-Status Designation*		
Plants				
Slender-horned spineflower	Dodecahema leptoceras	Fed: END CA: END		
Reptiles and Amphibians				
Two-striped garter snake	Thamnophis hammondii	Fed: none CA: SSC		
Coast range newt	Taricha torosa torosa	Fed: none CA: SSC		
Western pond turtle	Actinemys marmorata	Fed: none CA: SSC		
Coast patch-nosed snake	Salvadora hexalepis	Fed: none CA: SSC		
Birds				
Burrowing owl	Athene cunicularia	Fed: none CA: SSC		
Yellow warbler	Dendroica petechia	Fed: none		

Common Name	Scientific Name	Special-Status Designation*
		CA: SSC
Southwestern willow flycatcher	Empidonax traillii extimus	Fed: END CA: END
Least Bell's vireo	Vireo bellii pusillus	Fed: END CA: END
Yellow breasted chat	Icteria virens	Fed: none CA: SSC
Loggerhead shrike	Lanius Iudovicianus	Fed: none CA: SSC
Bats		
Western mastiff bat	Eumops perotis californicus	Fed: none CA: SSC
Western yellow bat	Lasiurus xanthinus	Fed: none CA: SSC
Pallid bat	Antrozous pallidus	Fed: none CA: SSC

^{*} END – endangered; SSC – Species of Special Concern

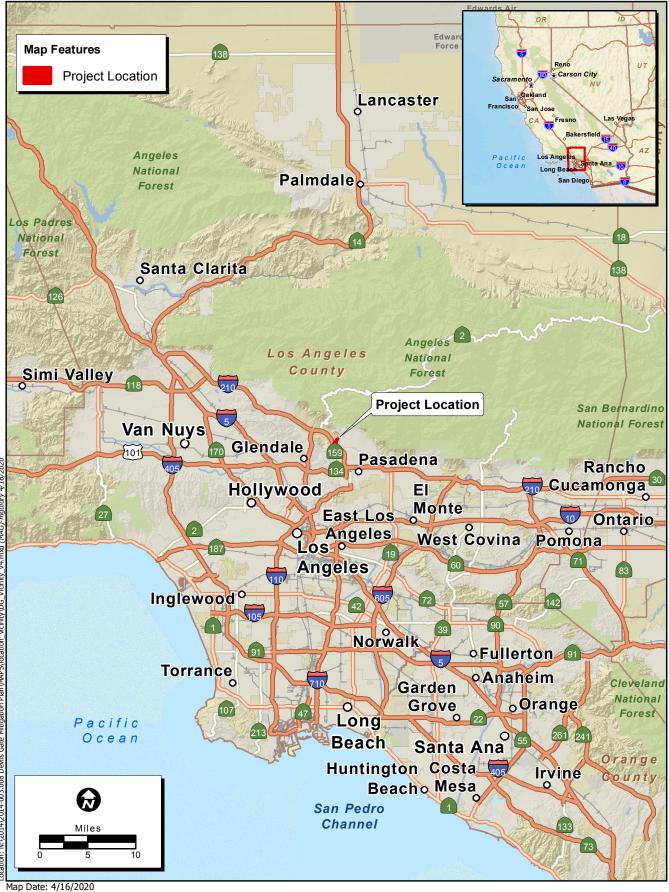
Site Description

The Project is located within the City of Pasadena in the upper portion of the Arroyo Seco Watershed and within the City's Hahamongna Watershed Park. Downtown Los Angeles is approximately 14 miles to the south of the Project, the San Gabriel Mountains are located just north of the Project, and the City of La Cañada Flintridge and the unincorporated community of Altadena are located to the west and east, respectively (Figure 1. Project Vicinity, Figure 2. Project Location). The Project is located within the "Pasadena, California" 7.5-minute quadrangle.

The topography in the vicinity of the Project consists of rolling terrain with a decline into the Arroyo Seco basin. The San Gabriel Mountains are located to the north of the Project and are characterized by both the foothills and steep slopes associated with mountainous terrain. Vegetation within the initial sediment removal area of the Project site was cleared during the first year of Project activities in 2018-2019. The initial sediment removal area is now composed primarily of bare ground and emergent non-native vegetation that has regrown since the initial vegetation removal efforts and includes wild radish (*Raphanus sativus*), perennial pepperweed (*Lepidium latifolium*), and poison hemlock (*Conium maculatum*). The areas surrounding the initial sediment removal area include on-site habitat restoration areas that are composed primarily of black willow thickets (*Salix gooddingii* Woodland Alliance) and mulefat thickets (*Baccharis salicifolia* Shrubland Alliance) towards the southern end, and scalebroom scrub (*Lepidospartum squamatum* Shrubland Alliance) towards the northern end.

METHODS

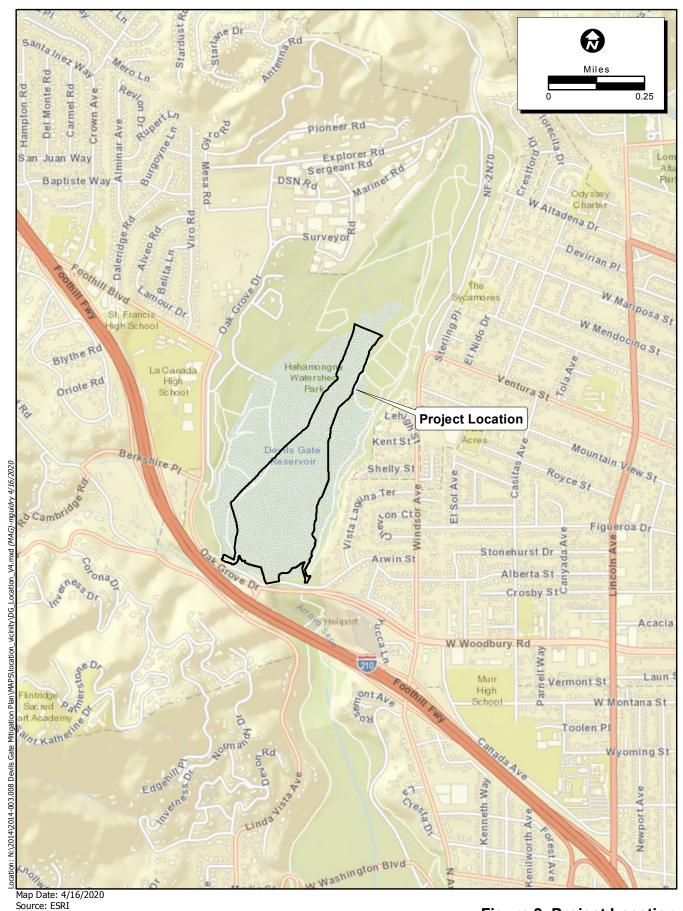
Preconstruction surveys for each protected species group were conducted following the survey techniques described in the Protected Species Survey Techniques Report submitted to CDFW on October 16, 2018 and approved by CDFW on October 18, 2018. (Attachment A).



Map Date: 4/16/2020 Service Layer Credits: Sources: Esri, USGS, NOAA

Figure 1. Project Vicinity





ECORP Consulting, Inc.

Figure 2. Project Location

RESULTS

The preconstruction surveys for protected species were led by CDFW-approved Designated Biologists for each appropriate species group. The dates, survey focus, personnel, and weather conditions for each survey are presented in Table 1. Representative photographs of the project site during surveys are provided in Attachment B and field survey datasheets are provided in Attachment C.

Table 1. Weather Conditions during Surveys

Date	Survey Focus	Surveyors*	Time Temperature (°F)		Clo Cove		Spo	ind eed ph)		
			start	end	start	end	start	end	start	end
3/17/2021	Plants	CL	0715	1400	45	72	5	0	0-1	3-5
3/24/2021	Plants	CL	0730	1415	54	78	0	35	0-1	0-2
3/24/2021	Birds	LS	0700	1440	54	78	0	35	0-1	2-6
3/29/2021	Birds	LS	0655	1104	46	74	0	0	0-2	0-3
3/25/2021	Reptiles &	AS, MM	0655	1336	50	56	80	100	1-3	5-10
	Amphibians									
3/26/2021	Reptiles &	AS, MM	0658	1235	47	62	100	10	0-1	1-3
	Amphibians									

^{*}CT = Christine Tischer, CL = Carley Lancaster, TD = Taylor Dee, AS = Adam Schroeder, MM = Max Murray

Plants

Slender-horned spineflower was not identified during the preconstruction surveys for protected species. A complete list of all plant species observed during the preconstruction surveys is provided in Attachment D.

Reptiles and Amphibians

No protected reptile or amphibian species listed in the SAA were identified during the preconstruction surveys for protected species. A complete list of all reptiles, amphibians, and other wildlife species observed during the preconstruction surveys is provided in Attachment E.

Birds

No protected bird species were identified during the preconstruction surveys for protected species. A complete list of all birds and other wildlife observed during the preconstruction surveys is provided in Attachment E. Three additional preconstruction surveys for least Bell's vireo (*Vireo pusillus bellii*) will be conducted on three separate days within one week prior to project initiation in 2021.

Bats

Preconstruction bat surveys were not conducted ahead of Project Initiation in 2021 because Project activities during 2021 will not affect existing trees and/or structures that may provide roosting habitat per condition 2.14 of the SAA.

Discussion

No protected species listed in the SAA were observed during any of the preconstruction surveys. Based on the negative findings of the pre-construction presence/absence surveys, it was determined that protected species listed in the SAA were not present on the Project site and Project activities will not affect these protected species at this time. However, it is anticipated that yellow warbler will be present at the Project site later in the spring. Measures implemented during the year three sediment removal activities will include biological monitoring and any additional measures necessary to provide adequate protection to avoid impacts to yellow warbler during all Project activities.

If you have any questions regarding the contents of this letter report, please contact me at (714) 648-0630 or lsimpson@ecorpconsulting.com.

DATE: April 12, 2021

SIGNED:

Lauren Simpson Staff Biologist

ECORP Consulting, Inc. 2861 Pullman Street Santa Ana, CA 92705

Attachments:

Attachment A: Devil's Gate Protected Species Survey Techniques

Attachment B: Representative Site Photos

Attachment C: Field Datasheets Attachment D: Plant Compendium Attachment E: Wildlife Compendium

ATTACHMENT A

Devil's Gate Protected Species Survey Techniques



October 16, 2018 (2018-047.006)

Mr. Steve Gibson Senior Environmental Scientist (Specialist) CA Department of Fish and Wildlife 4665 Lampson Avenue, Suite C Los Alamitos, CA 90720

Subject: Protected Species Survey Techniques for the Devil's Gate Reservoir

Sediment Removal and Management Project, in the City of Pasadena,

California.

Dear Mr. Gibson,

This letter report has been prepared to provide survey techniques for protected species in accordance with Condition 2.10 in the California Department of Fish and Wildlife (CDFW) Streambed Alteration Agreement (SAA) 1600-2015-0263-R5 that was issued for the Devil's Gate Sediment Removal and Management Project (Project) on March 21, 2017.

ECORP is proposing the following survey techniques for approval by the CDFW for the protected species listed in the SAA. According to the SAA, protected species are defined as "a species fully protected under state law; a species listed under the California Endangered Species Act (Fish and Game Code § 2050 et seq.) and/or Endangered Species Act (16 U.S.C. § 1531 et seq.); a species identified by CDFW as a species of special concern; or any other species for which take is prohibited under state or federal law". The protected species found in the SAA are listed in Table 1 below.

Table 1. Protected Species in SAA

Common Name	Scientific Name	Special-Status Designation*			
Plants					
Slender-horned spineflower	Dodecahema leptoceras	Fed: END			
		CA: END			
Reptiles and Amphibians					
Two-striped garter snake	Thamnophis hammondii	Fed: none			
· -		CA: SSC			
Coast range newt	Taricha tarosa tarosa	Fed: none			
		CA: SSC			
Western pond turtle	Actinemys marmorata	Fed: none			
		CA: SSC			
Coast patch-nosed snake	Salvadora hexalepis	Fed: none			
		CA: SSC			
Birds					
Burrowing owl	Athene cunicularia	Fed: none			
		CA: SSC			

Common Name	Scientific Name	Special-Status Designation*		
Yellow warbler	Dendroica petechia	Fed: none CA: SSC		
Southwestern willow flycatcher	Empidonax traillii extimus	Fed: END CA: END		
Least Bell's vireo	Vireo bellii pusillus	Fed: END CA: END		
Yellow breasted chat	Icteria virens	Fed: none CA: SSC		
Loggerhead shrike	Lanius Iudovicianus	Fed: none CA: SSC		
Bats				
Western mastiff bat	Eumops perotis californicus	Fed: none CA: SSC		
Western yellow bat	Lasiurus xanthinus	Fed: none CA: SSC		
Pallid bat	Antrozous pallidus	Fed: none CA: SSC		

^{*} END – endangered; SSC – Species of Special Concern

Survey Techniques

Plants

Survey techniques for slender-horned spineflower (*Dodecahema leptoceras*) will include pedestrian transect surveys spaced approximately 30 feet apart within areas of suitable habitat in the project impact areas and 100-foot buffer. Survey techniques will be consistent with the accepted methodologies outlined by the United States Fish and Wildlife Service (USFWS 1996)¹, CDFW (CDFW 2018)², and the California Native Plant Society (CNPS 2001)³, but the timeframe will be altered to adhere to the project schedule and conditions of Project permits.

Reptiles and Amphibians

Survey techniques for the three protected reptile species (two-striped garter snake [*Thamnophis hammondii*], western pond turtle [*Actinemys marmorata*], and coast patch-nosed snake [*Salvadora hexalepis*]), and one protected amphibian species (coast range newt [*Taricha tarosa tarosa*]) will include visual encounter surveys to be conducted within the proposed work areas and a 500-foot buffer.

¹ United States Fish and Wildlife Service (USFWS). 1996. Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed, and Candidate Plants. Available at http://www.fws.gov/sacramento/es/Survey-Protocols-Guidelines/Documents/Listed_plant_survey_guidelines.pdf

² California Department of Fish and Wildlife (CDFW). 2018. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. State of California, California Natural Resources Agency Department of Fish and Wildlife. March 20, 2018.

³ California Native Plant Society (CNPS). 2001. CNPS Botanical Survey Guidelines. California Native Plant Society, Sacramento, CA. December 9, 1983. Revised June 2, 2001. Available at http://www.cnps.org/cnps/rareplants/pdf/cnps_survey_guidelines.pdf.

In accordance with Mitigation Measure (MM) BIO-3 for the Project (Chambers Group 2014⁴) and SAA 2.10, qualified biologists will conduct a survey for sensitive wildlife within 90 days prior to the commencement of ground disturbing activities. In general, visual encounter techniques for protected herpetofauna will follow accepted methodologies for western pond turtle by Holland (1991, 1994)^{5,6} and the United States Geological Society (2006)⁷. Two surveys will be conducted by CDFW-approved designated biologists familiar with the identification, life history, and behaviors of each species. Each survey will be conducted on a separate day and will be conducted when weather conditions are favorable. The habitat requirements for each species, as described on CaliforniaHerps.com⁸ and Stebbins (2003)⁹ will be reviewed prior to conducting surveys.

Surveys will focus on searching all potential habitats using binoculars and/or spotting scopes, as well as looking under various natural or artificial cover objects. Biologists will scan areas ahead of them, searching from a distance, before proceeding in a slow and quiet manner. When turning cover objects, biologists will carefully return each cover object to its original location in an attempt to keep potential impacts to a minimum. All open water habitats, including potential basking or haul-out sites, will be searched. Survey transects performed during the survey will be captured with the tracking on a handheld global positioning system (GPS) unit. Documentation of the transects completed will be provided as an appendix to the preconstruction survey report.

To help prevent the spread of disease, fungus, and invasive species, all field equipment will be free of weeds and when entering aquatic habitats will go through the CDFW Aquatic Invasive Species Disinfection/Decontamination Protocols. Areas of suitable habitat and capture and transport techniques for each Protected Species shall be identified prior to conducting the survey to allow any Protected herpetofauna observed during the surveys to be captured and relocated effectively.

Birds

Survey techniques for the six protected bird species (burrowing owl [Athene cunicularia], yellow warbler [Dendroica petechia], southwestern willow flycatcher [Empidonax traillii extimus], least Bell's vireo [Vireo bellii pusillus], yellow breasted chat [Icteria virens], and loggerhead shrike

⁴ Chambers Group, Inc. 2014. Devil's Gate Reservoir Sediment Removal and Management Project Final Environmental Impact Report (FEIR), Los Angeles County, California. Submitted to Los Angeles County Flood Control District, Water Resources Division, October 2014.

⁵ Holland, D. C. 1991. A synopsis of the ecology and status of the western pond turtle (*Clemmys marmorata*) in 1991. Prepared for the U.S. Fish and Wildlife Service, National Ecology Research Center, San Simeon, CA.

⁶ Holland, D. C. 1994. The western pond turtle: Habitat and history. Prepared for: U.S. Dept. of Energy, Bonneville Power Administration. Portland, OR. 303 pp.

⁷ United States Geological Survey. 2006. DRAFT Western Pond Turtle Visual Survey Protocol for the Southcoast Ecoregion. Western Ecological Research Center, US Department of Interior, Sacramento, CA. 60 pp.

⁸ <u>CaliforniaHerps.com</u>: A Guide to the Amphibians and Reptiles of California. [web application] Accessed: September 27, 2018.

⁹ Stebbins, R. C. 2003. A field Guide to Western Reptiles and Amphibians. 3rd Edition. Boston: Houghton Mifflin Co. 533 pp.

[Lanius ludovicianus]) will include visual and auditory encounter surveys to be conducted within the proposed work areas and a 500-foot buffer.

Surveys for protected birds will begin at dawn and will continue until weather conditions become unfavorable for bird activity or until the bird activity level ceases. Surveys will focus on all potential habitats using binoculars and/or spotting scopes as necessary. Biologists will walk through the entire Project site and scan areas ahead of them, searching and listening from a distance, before proceeding in a slow and quiet manner. All birds observed both visually and audibly will be recorded and GPS points will be taken at all protected bird species observation locations. The surveys will be conducted by CDFW-approved designated biologists with experience surveying for sensitive riparian and upland bird species.

In addition to the surveys for protected bird species, three preconstruction surveys for least Bell's vireo will be conducted within seven days prior to Project initiation. These preconstruction surveys will be consistent with the methodologies in the least Bell's vireo survey protocol (USFWS 2001¹⁰) but the timeframe will be altered to adhere to the project schedule and conditions of Project permits (e.g. the three surveys will be conducted outside of the breeding season). The surveys will be conducted by a CDFW-approved designated biologist familiar with the identification, vocalizations, and behaviors of the species to determine the presence/absence of the species. Each survey will be conducted on a separate day and will be conducted between dawn and 11:00 a.m. when weather conditions are favorable.

Bats

Survey techniques for the three protected bat species (western mastiff bat [Eumops perotis californicus], western yellow bat [Lasiurus xanthinus], and pallid bat [Antrozous pallidus]) will include a daytime habitat and roost assessment and nighttime acoustic and emergence surveys to be conducted within the proposed work areas and a 300-foot buffer.

In accordance with MM BIO-5 and Condition 2.14 of the SAA, preconstruction bat surveys will be performed within 30 days prior to the commencement of vegetation or structure removal activities to avoid the direct loss of bats that could result from removal of trees and/or structures that may provide day or night roost habitat. CDFW-approved designated biologists will survey the project site, 300-foot buffer, and all trees and manmade structures (i.e. bridges, utility poles, kiosks, etc.) proposed to be directly impacted or removed to identify potential roost sites.

The initial bat survey will be performed in two parts, daytime surveys to identify potential roost sites within the impact area and evening surveys to perform emergence counts and acoustical monitoring of the potential roost sites. The diurnal portion of the survey will be done by a thorough visual inspection of the trees and structures within the impact areas to look for larger openings, cavities, crevices, loose bark, and other features that may provide roosting habitat.

⁹ US Fish and Wildlife Service. 2001. Least Bell's Vireo Survey Guidelines. Carlsbad Fish and Wildlife Office, CA. 3 pp.

The biologists will document any bat individuals or roosting colonies that are observed during the survey. Locations of potential roost trees will be recorded using a GPS unit in the field and discretely marked for biologists to revisit during the evening survey portion. Survey transects performed during the survey will be captured with the tracking on a handheld GPS unit. Documentation of the transects completed will be provided as an appendix to the bat survey report.

During the following evenings biologists will observe the potential roost trees using night-vision equipment to determine if the emergence of bats from the tree(s) occurs. Echometer Touch 2 PRO detectors will be used next to the trees during emergence to determine the species emerging, where possible. ECORP biologists will also collect acoustic data using passive AnabatTM detectors at various spots throughout the survey areas. Although these data will be imprecise as to the origin of detected bat species, the information will be useful as a tool to identify bat species that are foraging and may be roosting in the project site.

A second survey will be performed no later than seven days prior to construction activities. Designated biologists will conduct an exit survey with night vision equipment for any previously identified day-roosts (if applicable). Any occupied day roosts will be recorded and CDFW will be notified immediately to determine the next course of action and appropriate avoidance and minimization measures.

The surveys for protected bat species will be conducted separately from the other protected species surveys and a separate bat survey report will be generated and transmitted to CDFW prior to Project initiation.

General Survey Provisions

All surveys for protected wildlife will be conducted under favorable weather conditions. Surveys will not be conducted during extreme temperatures, sustained high winds, or heavy rain. All surveys for protected wildlife will be led by designated biologists that have been pre-approved by CDFW to survey for the appropriate species groups. Prior to conducting surveys, areas of suitable habitat and capture and transport techniques for each protected species shall be identified so capture and relocation can occur to keep protected species out of harm's way.

Biologists will record an inventory of searched habitats along with any species observed. All species detected during the surveys will be recorded on standardized field sheets, and when possible, photographs will be taken. Weather conditions at the start and end of the surveys will be recorded. Any protected species detected will be mapped on an aerial photo and the location will be recorded with a handheld GPS unit. The number of individuals, sex, age/size class, and any distinguishing features will be recorded for each sighting. All observations of protected species will be submitted to the CDFW's California Natural Diversity Database (CNDDB). Survey transects performed during the surveys will be captured using handheld GPS units track logging to ensure 100 percent coverage of the work areas and associated buffers.

Documentation of the transects completed will be provided as an appendix to the preconstruction survey report(s).

ECORP will prepare a report that presents the findings of the protected species surveys to be transmitted to CDFW prior to project initiation. The report will include methods used to conduct the surveys, a description of the existing biological conditions, and an analysis of any protected species that were found to or have the potential to occur within the project site. The report will also contain copies of field notes, survey maps, representative photographs of the site, and CNDDB forms for any protected special detected during the surveys.

If you have any questions regarding the contents of this letter report, please contact me at (714) 648-0630 or <a href="mailto:lister-letter-l

DATE: October 16, 2018

SIGNED:

Lauren Simpson Staff Biologist

ECORP Consulting, Inc.

1801 Park Court Place, Building B. Ste 103.

Santa Ana, CA 92701

ATTACHMENT B

Representative Site Photos



 $\textbf{Photo 1.}\ \ \textbf{View of initial sediment removal area, facing northwest.}$



Photo 2. View of initial sediment removal area, facing west.



Photo 3. Pooled water within the initial sediment removal area, facing northwest.



Photo 4. View of riparian habitat along edge of sediment removal boundary, facing south.



Photo 5. View of pooled water in Flint Canyon Wash, facing southwest.



Photo 6. View of pooled water in the Altadena drainage, facing northwest.



Photo 7. Western fence lizard observed on the project site.



Photo 8. Common side-blotched lizard observed on the project site.



Photo 9. Garden slender salamanders observed on the project site.



Photo 10. Western toad observed on the project site.

ATTACHMENT C

Field Datasheets



Surveyor Names:	arley	Laurcaste	5	Date: <u>3</u> /2	4/21
Location(s): In	reser	voir and a	diacent in		FSS habitat
Targeted Species:	Stend	er horned	Spineflou	Nev	
			\	•,	

SURVEY CONDITIONS						
	Time	Temp (F)	Wind (mph)	% Cloud Cover		
START	0730	SYF	0-1	0		
END	1415	785	0-2	35		

SUITABLE HABITAT/SPECIES OBSERVATIONS?					
TARGET SPECIES	NOTES (coordinates, photo numbers, # individuals, sex, age/size class behaviors)				
	None obs				



Date: 3/24/21

Date:	
ADDITIONAL NOTES: (e.g., site description, existing disturbances, other sensitive species identified?)	
LEPLAT ARTCAL CORFIL CHEALB CUPHIR AMBACA SALMEL EUPPER AGERITMASP. PATWRI BACSAL PSECAL SAMNICI AMSINICIA SP. WRTUKE MELIND SALMOS SALLAS PHAMIN CAPPING BIL	

(include sign: tracks, carcass, feathers, scat, etc.)					



Surveyor Names: Lauren Simpson	Date: 3/24/2023
Location(s):Devil's Gate Reservoir Restoration Project Site - All suitable habitat for u	nland and rinarian
birds	ріана ана пранан
Targeted Species: <u>burrowing owl, yellow warbler, southwestern willow flycatcher, leas</u>	st Bell's vireo,

SURVEY CONDITIONS					
	Time	Temp (F)	Wind (mph)	% Cloud Cover	
START	0700	54	0-1	0	
END	1440	78	2-6	35	

	SUITABLE HABITAT/SPECIES OBSERVATIONS?
TARGET SPECIES	NOTES (coordinates, photo numbers, # individuals, sex, age/size class behaviors)
Burrowing owl	Limited, marginal, low-quality burrowing owl habitat exists in the 500-ft buffer
	where multiple basins are present east of the northern half of the sediment
	removal area. California ground squirrel activity and burrows are present in the
	two southern-most basins and along the basin slopes. This habitat is marginal and
	low quality due to multiple disturbances and high human traffic in the area that
	overlooks these basins. These basins are primarily vegetated by nonnative
	herbaceous species that grow tall and are subject to periodic mowing. Human
	activity includes City crews and their vehicles as well as recreational use including
	horseback riders, walkers, and off-lease dogs.
	No burrowing owls or their sign were detected
Yellow warbler	Nesting habitat exists in the riparian forest present in the west and southwestern
	portions of the 500-ft buffer. A narrow strip of riparian forest exists along the
	middle eastern portion of the 500-ft buffer that may provide suitable nesting
	habitat; however, this area offers less canopy and is more exposed to adjacent
	human activity.
	Although this species is anticipated to be present in Spring, yellow
	warblers were not detected
	Nesting habitat exists in the riparian forest present in the west and southwestern
Southwestern willow	portions of the 500-ft buffer. A narrow strip of riparian forest exists along the
flycatcher	middle eastern portion of the 500-ft buffer that may provide suitable nesting
	habitat; however, this area offers less canopy and is more exposed to adjacent
	human activity. Most of the riparian forest lack a dense understory.
	No southwestern willow flycatchers were detected
	Nesting habitat exists in the riparian forest present in the west and southwestern
Least Bell's vireo	portions of the 500-ft buffer. A narrow strip of riparian forest exists along the
	middle eastern portion of the 500-ft buffer that may provide suitable nesting
	habitat; however, this area offers less canopy and is more exposed to adjacent
	human activity. Most of the riparian forest lack a dense understory.
	No least Bell's vireos were detected



Date: 3/24/2021

	= = = = = = = = = = = = = = = = = = = =
Yellow-breasted chat	Nesting habitat exists in the riparian forest present in the west and southwestern portions of the 500-ft buffer. A narrow strip of riparian forest exists along the middle eastern portion of the 500-ft buffer that may provide suitable nesting habitat; however, this area offers less canopy and is more exposed to adjacent human activity. Most of the riparian forest lack a dense understory. No yellow-breasted chats were detected
Loggerhead shrike	Limited nesting habitat exists in the narrow strips of upland habitat in the northern half of the 500-foot buffer, particularly on the west and east side. Large shrubs including scalebroom, buckwheat, ceanothus and oak trees provide suitable nest sites. Multiple disturbances exist including high flows from storm events in the adjacent drainage, human traffic from City vehicles and recreational activities including horseback riders, walkers, and off-leash dogs. No loggerhead shrikes were detected

ADDITIONAL NOTES:

(e.g., site description, existing disturbances, other sensitive species identified?)

No nesting habitat for these species exists in the sediment removal area which had emergent herbaceous vegetation, emergent nonnatives (perennial pepperweed & tree tobacco) and multiple smaller emergent willows and short scattered willows that had been washed into the area by flows associated with past storm events. Disturbances: high flows from past storm events in sediment removal area. Regular recreational activity in the sediment removal area and within 500-ft buffer: horseback riding, walkers, bikers, off-leash dogs.

Bewick's wren



Devil's Gate Reservoir Project Protected Species Preconstruction Survey

Date: 3/24/2021

INCIDENTAL	CDECTEC	OBCEDVED
INCIDENTAL	SPECIES	UBSERVED

(include sign: tracks, carcass, feathers, scat, etc.)

Black phoebe northern rough-winged swallow common yellow throat bushtit

white throated swift white-crowned sparrow western fence lizard lesser goldfinch ruby-crowned kinglet Allen's hummingbird yellow-rumped warbler

Tree swallow
Alligator lizard
California towhee
Red-tailed hawk
Cassin's kingbird
Cooper's hawk
house finch
killdeer
Northern flicker
mourning dove

California quail

Nuttall's woodpecker

desert cottontail

barn swallow

common raven

Anna's hummingbirds

European starling

Western meadowlark

California thrasher Song sparrow

parrot sp. blue-gray gnatcatcher California scrub jay

Page 3 of 2



Surveyor Names: <u>Lauren Simpson</u>	Date: 3/29/2021
Location(s): <u>Devil's Gate Reservoir Restoration Project Site - All suitable habitat</u> birds	t for riparian
Targeted Species: <u>yellow warbler, southwestern willow flycatcher, least Bell's vi</u> chat,	reo, yellow breasted

SURVEY CONDITIONS				
	Time	Temp (F)	Wind (mph)	% Cloud Cover
START	0655	46	0-2	0
END	1104	74	0-3	0

SUITABLE HABITAT/SPECIES OBSERVATIONS?			
TARGET SPECIES	NOTES (coordinates, photo numbers, # individuals, sex, age/size class behaviors)		
N/A	No target species were observed, see previous datasheet for habitat descriptions.		

ADDITIONAL NOTES:

(e.g., site description, existing disturbances, other sensitive species identified?)

No nesting habitat for these species exists in the sediment removal area which had emergent herbaceous vegetation, emergent nonnatives (perennial pepperweed & tree tobacco) and multiple smaller emergent willows and short scattered willows that had been washed into the area by flows associated with past storm events. Disturbances: high flows from past storm events in sediment removal area. Regular recreational activity in the sediment removal area and within 500-ft buffer: horseback riding, walkers, bikers, off-leash dogs.

Black phoebe mallard

acorn woodpecker white throated swift western fence lizard Lincoln's sparrow California towhee Red-tailed hawk Cassin's kingbird



Devil's Gate Reservoir Project Protected Species Preconstruction Survey

INCIDENTAL SPECIES OBSERVED

Date: 3/29/2021

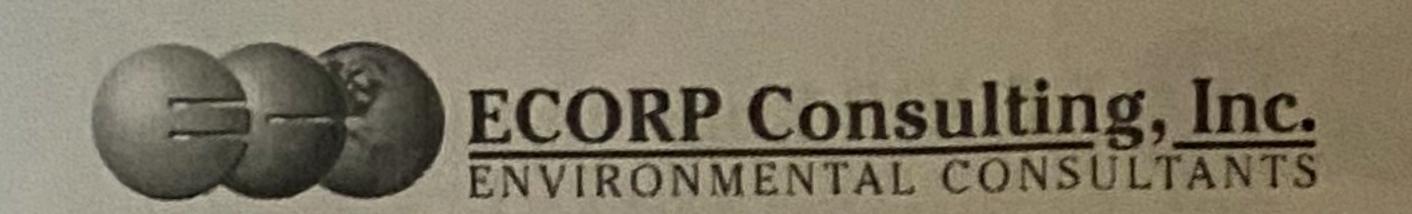
cass, feathers, scat, etc.)
common yellow throat
bushtit
white-crowned sparrow
lesser goldfinch
Allen's hummingbird
yellow-rumped warbler
Cooper's hawk
house finch
mourning dove

California quail common raven
wrentit Canada goose
Nuttall's woodpecker Anna's hummingbird
desert cottontail European starling

desert cottontail European starling
California ground squirrel Western meadowlark
oak titmouse Song sparrow

California thrasher spotted towhee

parrot sp. dark-eyed junco
California scrub jay downy woodpecker
Bewick's wren western bluebird



Surveyor Names: Adam Schroeder, Max Murray

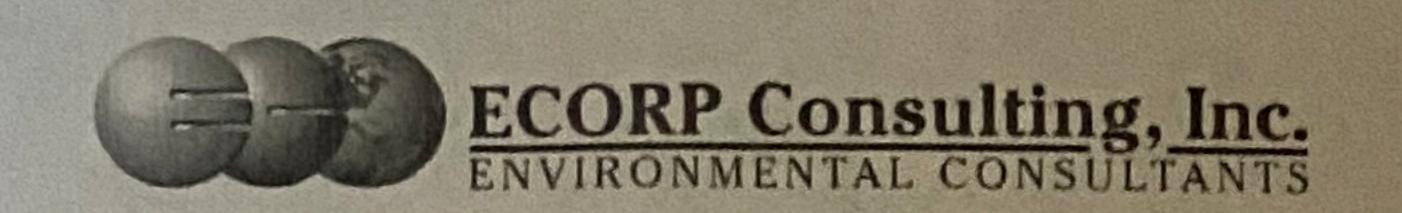
Location(s): Northern half of project area and mitigation areas

Targeted Species: Southwestern Pond Turtle, Coast Range Newt,

Two-striped garter snahe, Coast Patch nosed snahe

SURVEY CONDITIONS				
	Time	Temp (F)	Wind (mph)	% Cloud Cover
START	OG 55	50	1-3	. 80
END	1336	56	5-10	100

	CHITTADIE LIABETAT (CDECTEC ODCEDVATIONS)
	SUITABLE HABITAT/SPECIES OBSERVATIONS?
TARGET SPECIES	NOTES (coordinates, photo numbers, # individuals, sex, age/size class behaviors)
South western	- Not observed - No ponded or flowing water observed in the
Rond Turtle	- No ponded or Howing water observed area.
Coast Phange	- Nat Observed
Newt	- No ponded as flowing water observed in the northern section of the site. Upland habitant on west side is marginal.
T1- /	will obsessed
Garter Snake	- No pended or flowing wester observed in the northern section of the side. Upland habitat is marginal
Coast Patal	- Not obscrued
noscol Snahe	- Marginal upland habitat is present along the west side of the project area, however it is susrounded by disturbed areas to the west and the wash to the east
	ON ACSTON DECK ON CAS TO THE



Date: 3/25/2021

ADDITIONAL NOTES:

(e.g., site description, existing disturbances, other sensitive species identified?)

Northern half of the site lacks any flowing or Standing water. Many of the upland areas are in the process of restoration, so there is limited ground cover. The project area and surrounding areas recreve a lot of foot traffic as well. While some upland habitant does exist for the target species it can be fragmented.

INCIDENTAL SPECIES OBSERVED

(include sign: tracks, carcass, feathers, scat, etc.)

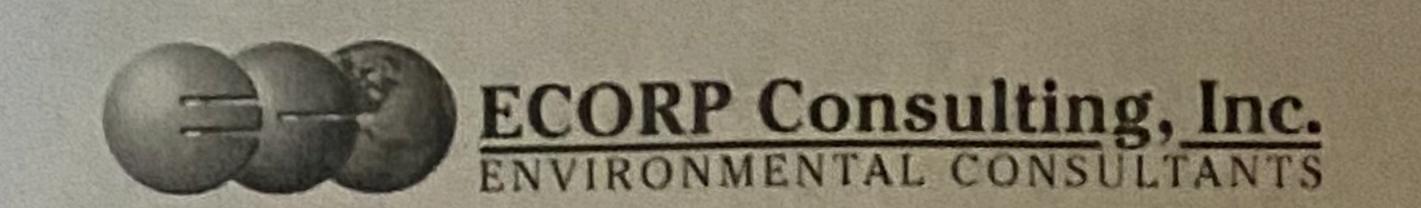
CAQU. CAST, PLPA, ACWO, NUWO, CALT, NOFL, CATH, MODO, ANHU, ALHU, RTHA, MALL, BLPH, Desert cottontail, western fence lizard, Common side blotched lizard, western toad, Cayote (den)



Surveyor Names: Adam Schroeder, Max Murray Date: 3/26/2021
Location(s): Southern half of project area and intrigation areas, flint wash
Targeted Species: Southwestern Pond turtle, Coast range newt,
two striped garter snake, Coast patch nosed snake

	SURVEY CONDITIONS			
	Time	Temp (F)	Wind (mph)	% Cloud Cover
START	0658	零 47	0-1	100
END	1735	6.2	1-3	10

	SUITABLE HABITAT/SPECIES OBSERVATIONS?
TARGET SPECIES	NOTES (coordinates, photo numbers, # individuals, sex, age/size class behaviors)
South Western Pond Turtle	- Not Observed - Standing water behind reservoir provides decent habited, however it is devoid of vegetation. Small pool at Altaden drainage, and funt can you wash is Frawing, limited access to upland habited in these areas.
Coast Prange	- Not Observed - Flint conyon wash provides decent habited for coast range newt, however there is limited access to upland habitant.
Two-striped Gaster Snahe	- Not observed - Not observed - Stunding water behind dam, Flowing water in Altadense drainage and First canyon wash. December habitest present, however water will likely dry up.
Coast Patch nosed Snahe	- Not observed - Limited to marginal habitat observed.



Date: 3/26/2021

ADDITIONAL NOTES:

(e.g., site description, existing disturbances, other sensitive species identified?)

The southern half of the project are and surrounding areas has more water than in previous years. There is a decent amount of standing water behind the dam that could turn into decent habitat, however it will likely go dry in the next carple months. The Altadina drainage is flowing and provides some to aguestre habitat, however there is a lot of trash and it is mostly cut off from any adequate upland habitat. Fint Canyon was provides some of the best aguatic habitat on site with Flowing water or siffles, suns and globs over small boulders, could gravels and sand. Most of the area around flint wash is man made, so there is little upland habitat.

INCIDENTAL SPECIES OBSERVED

(include sign: tracks, carcass, feathers, scat, etc.)

ACWO, CANG, MODO, PUFI, CALT, NOFL, NUWO, ASHA, COHA, BUSH, ANHU, ALHU, LEGO, BLPH, MALL, SOSP, HOFI, NAWS, SPTO, KELL, ATHA, WCSP, CASS, CATH, CAKI, EUST, CAT Ground squirrel, descrit cottentail, western toad, common side blotched Lizard, Western Fonce lizard, Slender salamander (Butrachosgs Sp.) - (1) hely gaarden slender)

ATTACHMENT D

Plant Compendium

Scientific Name	Common Name	
VASCULAR PLANTS		
ANGIOSPERMS (DICOTYLEDONS)		
Adoxaceae	Elderberry Family	
Sambucus nigra ssp. cerulea (= S. mexicana)	blue elderberry	
Agavaceae	Century Plant Family	
Hesperoyucca whipplei	chaparral yucca	
Amaranthaceae	Amaranth Family	
Amaranthus albus*	tumbleweed	
Anacardiaceae	Sumac or Cashew Family	
Malosma laurina	laurel sumac	
Toxicodendron diversilobum	poison oak	
Apiaceae	Carrot Family	
Conium maculatum*	poison hemlock	
Asteraceaea	Sunflower Family	
Ageratina adenophora*	sticky snakeroot	
Ambrosia acanthicarpa	annual bursage	
Artemisia californica	California sagebrush	
Artemisia dracunculus	tarragon	
Artemisia douglasiana	California mugwort	
Baccharis pilularis	coyote brush	
Baccharis salicifolia	mulefat	
Brickellia californica	California brickellbush	
Cirsium occidentale	cobweb thistle	
Corethrogyne filaginifolia	common sand aster	
Encelia californica	California brittlebush	
Erigeron canadensis	horseweed	
Heterotheca grandiflora	telegraph weed	
Isocoma menziesii	Menzie's goldenbush	
Lepidospartum squamatum	scale broom	
Malacothrix saxatilis	cliff malacothrix	
Pseudognaphalium californicum	ladies' tobacco	
Pseudognaphalium sp.	cudweed	
Xanthium strumarium	cockleburr	
Betulaceae	Birch Family	
Alnus rhombifolia	white alder	
Boraginaceae	Borage Family	
Amsinckia menziesii	small flowered fiddleneck	
Phacelia cicutaria	caterpillar phacelia	
Phacelia minor	California bluebells	
Brassicacaeae	Mustard Family	
Brassica nigra*	black mustard	
Capsella bursa-pastoris*	shepherd's purse	

Lepidium latifolium*	perennial pepperweed
Lobularia maritima*	sweet alyssum
Raphanus sativus*	wild radish
Sisymbrium irio*	London rocket
Cactaceae	Cactus Family
Opuntia littoralis	coast prickly pear
Chenopodiaceae	Goosefoot Family
Chenopodium album*	lamb's quarters
Convolvulaceae	Morning-Glory Family
Cuscuta californica	dodder
Convolvulus arvensis*	field bindweed
Cyperaceae	Cypress Family
Cyperus eragrostis	tall flatsedge
Euphorbiaceae	Spurge Family
Croton californicus	California croton
Euphorbia peplus	petty spurge
Ricinus communis*	castor bean
Fabaceae	Legume Family
Acmispon glaber (= Lotus scoparius)	deerweed
Lotus sp.	lotus
Lupinus bicolor	bicolored lupine
Lupinus excubitus	grape soda lupine
Lupinus hirsutissimus	stinging lupine
Melilotus indicus*	yellow sweetclover
Fagaceae	Oak Family
Quercus agrifolia	coast live oak
Geraniaceae	Geranium Family
Erodium cicutarium*	red-stemmed filaree
Grossulariaceae	Gooseberry Family
Ribes aureum	golden currant
Lamiaceae	Mint Family
Marrubium vulgare*	white horehound
Salvia apiana	white sage
Salvia columbariae	chia sage
Salvia mellifera	black sage
Malvaceae	Mallow Family
Malva parviflora*	cheeseweed mallow
Onagraceae	Evening Primrose Family
Camissoniopsis micrantha	Spencer primrose
Oenothera elata	evening primrose
Papaveraceae	Poppy Family
Eschscholzia californica	California poppy
Plantaginaceae	Plantain Family
Penstemon spectabilis	showy penstemon
Plantanaceae	Sycamore Family
Platanus racemosa	western sycamore
. tatarras racerrosa	mostern sycumore

Polygonaceae	Buckwheat Family	
Eriogonum fasciculatum	California buckwheat	
Rumex crispus*	curly dock	
Rosaceae	Rose Family	
Heteromeles arbutifolia	toyon	
Prunus ilicifolia	holly leaf cherry	
Rosa californica	California rose	
Rubus ursinus	California blackberry	
Salicaceae	Willow Family	
Populus fremontii	Fremont cottonwood	
Salix gooddingii	black willow	
Salix laevigata	red willow	
Salix lasiolepis	Arroyo willow	
Solanaceae	Nightshade Family	
Datura wrightii	jimson weed	
Nicotiana glauca*	tree tobacco	
Solanum sp.	nightshade	
Urticaceae	Nettle Family	
Urtica dioca	stinging nettle	
Urtica urens*	dwarf nettle	
ANGIOSPE	ERMS (MONOCOTYLEDONS)	
Juncaceae	Rush Family	
Juncus rugulosus	wrinkled rush	
Juncus textilis	basket rush	
Poaceae	Grass Family	
Avena fatua*	wild oat	
Bromus madritensis*	red brome	
Bromus tectorum*	cheatgrass	
Hordeum murinum*	foxtail barley	
Schismus barbatus*	Mediterranean grass	

^{*}Nonnative species

^{**}CDFW California Species of Special Concern/CDFW Fully Protected Species/Watch List Species

^{***}Federally endangered or threatened/State endangered or threatened

ATTACHMENT E

Wildlife Compendium

Scientific Name	Common Name	
REPTILES		
Anguidae	Alligator Lizards	
Elegaria multicarinata	Southern alligator lizard	
Phrynosomatidae	Spiny Lizards	
Sceloporus occidentalis	western fence lizard	
Uta stansburiana	common side-blotched lizard	
	AMPHIBIANS	
Plethodontidae	Lungless Salamanders	
Batrachoseps major major	Garden slender salamander	
Bufonidae	True Toads	
Anaxyrus boreas	western toad	
,	BIRDS	
Accipitridae	Hawks	
Accipiter cooperii**	Cooper's hawk	
Buteo jamaicensis	red-tailed hawk	
Buteo lineatus	red-shouldered hawk	
Aegithalidae	Bushtits	
Psaltriparus minimus	bushtit	
Anatidae	Geese, Ducks, Swans	
Anas platyrhynchos	mallard	
Branta canadensis	Canada goose	
Apodidae	Swifts	
Aeronautes saxatalis	White-throated swift	
Ardeidae	Herons and Egrets	
Ardea alba	great egret	
Ardea herodias	great blue heron	
Charadriidae	Plovers and Lapwings	
Charadrius vociferus	killdeer	
Columbidae	Pigeons and Doves	
Streptopelia decaocto	Eurasian collared dove	
Zenaida macroura	mourning dove	
Corvidae	Jays and Crows	
Aphelocoma californica	California scrub-jay	
Corvus corax	common raven	
Corvus brachyrhynchos	American crow	
Fringillidae	Finches	
Spinus psaltria	lesser goldfinch	
Haemorhous mexicanus	house finch	
Haemorhous purpureus	purple finch	
Hirundinidae	Swallows	
Hirundo rustica	barn swallow	

Stelgidopteryx serripennis	northern rough-winged swallow
Tachycineta bicolor	tree swallow
Icteridae	Blackbirds and Orioles
Sturnella neglecta	Western meadowlark
Mimidae	Mockingbirds and Thrashers
Mimus polyglottos	northern mockingbird
Toxostoma redivivum	California thrasher
Odontophoridae	New World Quail
Callipepla californica	California quail
Paradoxornithidae	Wrentits
Chamaea fasciata	wrentit
Paridae	Titmice
Baeolophus inornatus	oak titmouse
Parulidae	New World Warblers
Geothlypis trichas	common yellowthroat
Setophaga coronata	yellow-rumped warbler
Passerellidae (previously Emberizidae)	Sparrows and Towhees
Melospiza lincolnii	Lincoln's sparrow
Melospiza melodia	song sparrow
Pipilo crissalis	California towhee
Pipilo maculatus	spotted towhee
Zonotrichia leucophrys	white-crowned sparrow
Junco hyemalis	dark-eyed junco
Picidae	Woodpeckers
Colaptes auratus	northern flicker
Dryobates nuttallii	Nuttall's woodpecker
Dryobates pubescens	downy woodpecker
Melanerpes formicivorus	acorn woodpecker
Poplioptilidae	Gnatcatchers
Polioptila caerulea	blue-gray gnatcatcher
Psittacidae	Old World Parrots
Amazona sp.	parrot sp.
Regulidae	Kinglets
Regulus calendula	ruby-crowned kinglet
Sturnidae	Starlings
Sturnus vulgaris*	European starling
Trochilidae	Hummingbirds
Calypte anna	Anna's hummingbird
Selasphorus sasin	Allen's hummingbird
Troglodytidae	Wrens
Thryomanes bewickii	Bewick's wren
Troglodytes aedon	house wren
Turdidae	Thrushes
Sialia mexicana	western bluebird
Tyrannidae	Tyrant Flycatchers
Sayornis nigricans	black phoebe
<i>y</i>	i transfer in the second secon

Sayornis saya	Say's phoebe	
Tyrannus verticalis	western kingbird	
Tyrannus vociferans	Cassin's kingbird	
MAMMALS		
Canidae	Dogs, Wolves, and Foxes	
Canis latrans	coyote (scat and den)	
Cricetidae	New World Rats and Mice	
Neotoma sp.	woodrat sp. (midden)	
Equidae	Horses and Allies	
Equus caballus	domestic horse	
Leporidae	Hares and Rabbits	
Sylvilagus audubonii	desert cottontail	
Sciuridae	Squirrels	
Otospermophilus beecheyi	California ground squirrel	

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