



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
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July 19, 2024

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Subject: Berkeley Space Center at NASA Research Park, Notice of Preparation of a Draft Environmental Impact Report, SCH No. 2024060942, City of Mountain View, Santa Clara County

Dear Dr. Patil:

The California Department of Fish and Wildlife (CDFW) received a Notice of Preparation (NOP) of a Draft Environmental Impact Report (EIR) from the University of California, Berkeley (Lead Agency) for the Berkeley Space Center at NASA Research Park (Project) pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines.¹

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

CDFW ROLE

CDFW is California's **Trustee Agency** for fish and wildlife resources and holds those resources in trust by statute for all the people of the state. (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a)). CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (*Id.*, § 1802.) Similarly, for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

¹ CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

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CDFW is also submitting comments as a **Responsible Agency** under CEQA. (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority over the Project pursuant to the Fish and Game Code. For example, the Project may be subject to CDFW's Lake and Streambed Alteration (LSA) regulatory authority, if the Project impacts the bed, channel or bank of any river, stream or lake within the State (Fish & G. Code, § 1600 et seq.). Likewise, to the extent the Project may result in "take" as defined by state law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

REGULATORY REQUIREMENTS

California Endangered Species Act

A CESA Incidental Take Permit (ITP) must be obtained from CDFW if the Project has the potential to result in "take" of plants or animals listed under CESA, either during construction or over the life of the Project. Under CESA, "take" means "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." (Fish & G. Code, § 86). CDFW's issuance of an ITP is subject to CEQA and to facilitate permit issuance, any Project modifications and mitigation measures must be incorporated into the CEQA document analysis, discussion, and mitigation monitoring and reporting program. If the Project will impact CESA listed species, early consultation is encouraged, as significant modification to the Project and mitigation measures may be required in order to obtain a CESA Permit.

CEQA requires a mandatory finding of significance if a project is likely to substantially impact threatened or endangered species. Pub. Resources Code, §§ 21001, subd. (c) & 21083; CEQA Guidelines, §§ 15380, 15064 & 15065). In addition, pursuant to CEQA, the Lead Agency cannot approve a project unless all impacts to the environment are avoided or mitigated to less-than-significant levels, or the Lead Agency makes and supports Findings of Overriding Consideration (FOC) for impacts that remain significant despite the implementation of all feasible mitigation. FOC under CEQA, however, does not eliminate the Project proponent's obligation to comply with the Fish and Game Code.

Lake and Streambed Alteration

CDFW requires an LSA Notification, pursuant to Fish and Game Code section 1600 et seq., for Project activities affecting rivers, lakes or streams and associated riparian habitat. Notification is required for any activity that may substantially divert or obstruct the natural flow; change or use material from the bed, channel, or bank (including associated riparian or wetland resources); or deposit or dispose of material where it may pass into a river, lake, or stream. Work within ephemeral streams, drainage

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ditches, washes, watercourses with a subsurface flow, and floodplains is generally subject to notification requirements. In addition, infrastructure installed beneath such aquatic features, such as through hydraulic directional drilling, is also generally subject to notification requirements. Therefore, any impact to the mainstems, tributaries, or floodplains or associated riparian habitat caused by the proposed Project will likely require an LSA Notification.

Migratory Birds and Raptors

CDFW has authority over actions that may result in the disturbance or destruction of active bird nest sites or the unauthorized take of birds. Fish and Game Code sections protecting birds, their eggs, and nests include section 3503 (regarding unlawful take, possession, or needless destruction of the nests or eggs of any bird), section 3503.5 (regarding the take, possession, or destruction of any birds-of-prey or their nests or eggs), and section 3513 (regarding unlawful take of any migratory nongame bird). Migratory birds are also protected under the federal Migratory Bird Treaty Act.

Fully Protected Species

Several Fully Protected Species (Fish & G. Code § 3511 and 4700) have the potential to occur within or adjacent to the Project area.

Project activities described in the draft EIR should be designed to completely avoid any fully protected species that have the potential to be present within or adjacent to the Project area. Fully protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except as follows:

Take is for necessary scientific research;

- Efforts to recover a fully protected, endangered, or threatened species, live capture and relocation of a bird species for the protection of livestock; or
- They are a covered species whose conservation and management is provided for in a Natural Community Conservation Plan (Fish & G. Code, §§ 3511, 4700, 5050, & 5515).

Specified types of infrastructure projects may be eligible for an ITP for unavoidable impacts to fully protected species if certain conditions are met (Fish & G. Code §2081.15).

CDFW also recommends the draft EIR analyze potential adverse impacts to fully protected species due to habitat modification, loss of foraging habitat, and/or interruption of migratory and breeding behaviors. CDFW recommends that the Lead Agency include in the analysis how appropriate avoidance, minimization and mitigation measures will

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reduce indirect impacts to fully protected species. Project proponents should consult with CDFW early in the Project planning process.

PROJECT DESCRIPTION SUMMARY

Proponent: University of Berkeley

Objective: The Project site is on federal land within the National Aeronautics and Space Administration Ames Research Center. The 36-acre triangular Project site is currently developed with approximately 16 one- or two-story buildings that total approximately 112,000 square feet, along with surface parking lots, roadways, and utility infrastructure. The proposed Project would redevelop the Project site with academic and research facilities, including office, laboratories, and research and development (collectively, “research and office uses”); conference and amenity facilities, including a gym, lobbies, and other amenities (collectively, “active uses”); student/faculty housing; short-term lodging; transportation networks; and public open spaces as well as landscaped spaces.

Location: Wescoat Road/Cody Road/Edquiba Road/Girard Road, city of Mountain View (City), Santa Clara County (County). The coordinates for the approximate center of the Project are 37°24'35.8"N latitude 122°03'15.7"W longitude (NAD 83 or WGS 84). The Assessor's Parcel Number is 116-18-012.

Timeframe: Not noted in the NOP.

COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations below to assist the Lead Agency in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources.

The draft EIR should define the threshold of significance for each impact and describe the criteria used to determine whether the impacts are significant (CEQA Guidelines, § 15064, subd. (f)). The draft EIR relies on General Plan policies and on requirements that subsequent Projects, if necessary, obtain appropriate permits but does not sufficiently describe how these policies will reduce impacts to less than significant.

ENVIRONMENTAL SETTING

Sufficient information regarding the environmental setting is necessary to understand any potentially significant impacts on the environment of the proposed Project (CEQA Guidelines, §§15063 & 15360). CDFW recommends that a full list or table is included in the updated Biological Resources Section of the draft EIR that notes species common name, scientific name, state and federal listing status (as applicable), habitat type

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preference and determination on presence, for all special-status species with the potential to occur within the Project area.

CDFW recommends the draft EIR provide baseline habitat assessments for special-status plant, fish and wildlife species located and potentially located within the Project area and surrounding lands, including all rare, threatened, and endangered species (CEQA Guidelines, §15380). The draft EIR should describe aquatic habitats, such as wetlands or waters of the U.S. or State, and any sensitive natural communities or riparian habitat occurring on or adjacent to the Project area (for sensitive natural communities see:

<https://wildlife.ca.gov/Data/VegCAMP/NaturalCommunities#sensitive%20natural%20communities>), and any stream or wetland set back distances the City or County may require.

CDFW recommends that the California Natural Diversity Database (CNDDDB), as well as previous studies performed in the area, be consulted to assess the potential presence of sensitive species and habitats. A nine United States Geologic Survey 7.5-minute quadrangle search is recommended to determine what may occur in the region, larger if the Project area extends past one quad (See *Data Use Guidelines* on the Department webpage, www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data). Please review the webpage for information on how to access the database to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code, in the vicinity of the Project. CDFW recommends that CNDDDB Field Survey Forms be completed and submitted to CNDDDB to document survey results. Online forms can be obtained and submitted at: <https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>.

Please note that CDFW's CNDDDB is not exhaustive in terms of the data it houses, nor is it an absence database. CDFW recommends that it be used as a starting point in gathering information about the *potential presence* of species within the general area of the Project site. Other sources for identification of species and habitats near or adjacent to the Project area should include, but may not be limited to, state and federal resource agency lists, California Wildlife Habitat Relationship System, California Native Plant Society Inventory, agency contacts, environmental documents for other projects in the vicinity, academics, and professional or scientific organizations. Only with sufficient data and information can the Lead Agency adequately assess which special-status species are likely to occur in the Project vicinity.

According to Biogeographic Information and Observation System (BIOS) records, the Project site contains positive detections of several special-status species and has the potential to support numerous special-status species and their associated habitat. Species with potential to occur on-site include, but are not limited to, those listed in Attachment 1.

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I. Environmental Setting and Related Impact Shortcoming

Would the Project have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or US Fish and Wildlife Service (USFWS)?

COMMENT 1: Nesting Bird Surveys

The Project area includes over a dozen mature trees. The NOP does not identify the number of trees that will be removed or the potential impacts to birds. The Project has the potential to disturb special-status species and nesting habitat for birds and raptors; however, the NOP does not state that baseline data will be collected if active nests are discovered.

To evaluate and avoid for potential impacts to nesting bird species, CDFW recommends incorporating the following mitigation measures, and that these measures be made conditions of approval for the Project:

- **Nesting Bird Surveys.** If Project-related work is scheduled during the nesting season (typically February 15 to August 30 for small bird species such as passerines; January 15 to September 15 for owls; and February 15 to September 15 for other raptors), a professional biologist experienced with the applicable species and habitat shall conduct two surveys for active nests of such birds within 14 days prior to the beginning of Project construction, with a final survey conducted within 48 hours prior to construction. Appropriate minimum survey radii surrounding the work area are typically the following: i) 250 feet for passerines; ii) 500 feet for small raptors such as accipiters; and iii) 1,000 feet for larger raptors such as buteos. Surveys shall be conducted at the appropriate times of day and during appropriate nesting times.
- **Nesting Bird Buffers:** CDFW recommends a minimum no-disturbance buffer of 250 feet around active nests of non-listed bird species and a 500-foot no-disturbance buffer around active nests of non-listed raptors. These buffers are advised to remain in place until the breeding season has ended or until a qualified biologist has determined that the birds have fledged and are no longer reliant upon the nest or on-site parental care for survival.

COMMENT 2: Bats

The Project area includes over a dozen mature trees. The NOP does not identify the number of trees that will be removed or the potential impacts to bats. The Project has the potential to disturb bat habitat. In order to determine the extent to which impacts may occur to bats and determine where habitat loss may occur from the removal of

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trees, the draft EIR should propose measures to conduct a bat habitat assessment of suitable bat roosting habitat.

The habitat assessment shall include a visual inspection of features within the work area for potential roosting features including trees, crevices, and hollow areas (bats need not be present). The draft EIR should also include a section that discusses the results of the suitable habitat assessment and if any bats or signs of bats (feces or staining at entry/exit points) are discovered. The surveys should occur at least two seasons in advance of Project initiation. The draft EIR should include:

- Bat Habitat Monitoring by a qualified biologist of suitable habitat from March 1 to April 1 or August 31 to October 15 prior to construction activities. If the focused survey reveals the presence of roosting bats, then the appropriate exclusionary or avoidance measures will be implemented prior to construction during the period between March 1 to April 15 or August 31 to October 15; and
- Bat Project Avoidance: If active bat roosts are observed during environmental assessments or during construction, at any time, all Project activities should stop until a qualified biologist develops a bat avoidance plan to be implemented at the Project site. The bat avoidance plan should utilize seasonal avoidance, phased construction as well as temporary and permanent bat housing structures developed in coordination with CDFW.

COMMENT 3: Crotch's bumble bee

Crotch's bumble bee (*Bombus crotchii*) are candidate species under CESA (CEQA Guidelines, §15380, subds. (c)(1)). The draft EIR does not address whether the proposed Project could result in impacts to Crotch's bumble bee. Crotch's bumble bee occurrences have been documented within the vicinity of the Project area and historic observations occur elsewhere in the County (CDFW 2023, County). The Project location is within the Crotch's bumble bee range (<https://wildlife.ca.gov/Conservation/CESA>) and grassland within and adjacent to the Project area may contain potential habitat for Crotch's bumble bee.

The Project includes construction activities such as buildings, parking lots, and roads that may occur within ruderal grass and herbaceous vegetation and that may be potential Crotch's bumble bee nesting and foraging habitat. Potential impacts include direct mortality through crushing or filling of active bee colonies and hibernating bee cavities, reduced reproductive success, loss of suitable breeding and foraging habitats, loss of native vegetation that may support essential foraging habitat.

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To evaluate and avoid for potential impacts to nesting bird species, CDFW recommends incorporating the following mitigation measures, and that these measures be made conditions of approval for the Project:

- **Habitat Assessment.** A habitat assessment shall be conducted by a qualified entomologist knowledgeable with the life history and ecological requirements of Crotch's bumble bee. The habitat assessment shall include all suitable nesting, overwintering, and foraging habitats within the Project area and surrounding areas. Potential nest habitat (February through October) could include that of other *Bombus* species such as bare ground, thatched grasses, abandoned rodent burrows or bird nests, brush piles, rock piles, and fallen logs. Overwintering habitat (November through January) could include that of other *Bombus* species such as soft and disturbed soil or under leaf litter or other debris. The habitat assessment shall be conducted during peak bloom period for floral resources on which Crotch's bumble bee feed. Further guidance on habitat surveys can be found within *Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species* (<https://wildlife.ca.gov/Conservation/CESA>).
- **Survey Plan:** If Crotch's bumble bee habitat is present within the Project area, a pre-construction survey plan shall be developed and be submitted to CDFW for review and approval. Surveys shall be conducted by a qualified entomologist familiar with the behavior and life history of Crotch's bumble bee. If CESA candidate bumble bee will be captured or handled, surveyors should obtain a 2081(a) Memorandum of Understanding (MOU) from CDFW. Surveys shall be conducted during the colony active period (i.e. April through August) and when floral resources are in peak bloom. Bumble bees move nests sites each year, therefore, surveys shall be conducted each year that Project work activities will occur. Further guidance on presence surveys can be found within *Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species* referenced above.
- **Crotch's Bumble Bee Avoidance or Take Authorization:** If Crotch's bumble bee are detected during pre-construction surveys, a Crotch's bumble bee avoidance plan shall be developed and provided to CDFW for review prior to work activities involving ground disturbance or vegetation removal. If full take avoidance is not feasible, CDFW strongly recommends that the Project proponent apply to CDFW for take authorization under an ITP.

COMMENT 4: Western Burrowing Owl

Burrowing owl is designated by CDFW as a State Species of Special Concern (SSC) due to population decline and breeding range retraction. The species has also

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experienced a severe population decline in the County. Known populations of burrowing owl occur within and adjacent to the Project area, including at Moffett Federal Airfield, the Golf Club at Moffett Field, Sunnyvale Baylands County Park, the grasslands along the City of Sunnyvale's Water Pollution Control Plant, Shoreline Golf Links, and other suitable habitat.

The Project includes construction activities such as buildings, parking lots, and roads that may occur within ruderal grass and herbaceous vegetation that may be potential burrowing owl habitat. Direct mortality could occur through crushing of adults or young within burrows, loss of nesting burrows, loss of nesting habitat, loss of foraging habitat resulting in reduced nesting success (loss or reduced health or vigor of eggs or young), nest abandonment, and reduced frequency or duration of care for young resulting in reduced health or vigor of young.

To evaluate and avoid for potential impacts to nesting bird species, CDFW recommends incorporating the following mitigation measures, and that these measures be made conditions of approval for the Project:

- **Habitat Assessment and Surveys:** The draft EIR should include a thorough habitat assessment of potential burrowing owl habitat within and adjacent to the Project area. A professional biologist experienced with burrowing owl and their habitat should conduct a field assessment that includes all areas that could be directly or indirectly impacted by the Project and include data such as vegetation type, vegetation structure and presence of burrows. Specific information on habitat assessment, burrowing owl survey methods, buffer distances and mitigation is provided in the CDFW Staff Report on Burrowing Owl Mitigation, dated March 7, 2012, and available at <https://wildlife.ca.gov/Conservation/Survey-Protocols#377281284-birds>.

ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e)). Accordingly, please report any special-status species and natural communities detected during Project surveys to the CNDDDB. The CNDDDB field survey form can be filled out and submitted online at the following link: <https://wildlife.ca.gov/Data/CNDDDB/Submitting-Data>. The types of information reported to CNDDDB can be found at the following link: <https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>.

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ENVIRONMENTAL DOCUMENT FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of environmental document filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the environmental document filing fee is required in order for the underlying project approval to be operative, vested, and final. (See Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

CONCLUSION

CDFW appreciates the opportunity to comment on the draft EIR to assist the Lead Agency in identifying and mitigating Project impacts on biological resources.

Questions regarding this letter or further coordination should be directed to Marcus Griswold, Senior Environmental Scientist (Specialist), at (707) 815-6451 or Marcus.Griswold@wildlife.ca.gov; or Jason Faridi, Senior Environmental Scientist (Supervisory) at Jason.Faridi@wildlife.ca.gov.

Sincerely,

DocuSigned by:

Erin Chappell

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Erin Chappell
Regional Manager
Bay Delta Region

Attachment 1: Special-Status Species and Commercially/Recreationally Important Species

ec: Office of Planning and Research, State Clearinghouse (SCH No. 2024060942)
Craig Weightman, CDFW Bay Delta Region – Craig.Weightman@wildlife.ca.gov

REFERENCES

California Department of Fish and Wildlife (CDFW). 2024. Biogeographic Information and Observation System (BIOS). <https://www.wildlife.ca.gov/Data/BIOS>. Accessed July 15, 2024.

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ATTACHMENT 1: Special-Status Species

Species	Status
Fish and Invertebrates	
Crotch's bumble bee (<i>Bombus crotchii</i>)	State candidate (SC)
Birds	
burrowing owl (<i>Athene cunicularia</i>)	State Species of Special Concern (SSC)
Swainson's hawk (<i>Buteo swainsoni</i>)	State Threatened (ST)
white-tailed kite (<i>Elanus leucurus</i>)	State Fully Protected (FP)
Mammals	
San Francisco dusky-footed woodrat (<i>Neotoma fuscipes annectens</i>)	SSC
Townsend's big-eared bat (<i>Corynorhinus townsendii</i>)	SSC
western mastiff bat (<i>Eumops perotis californicus</i>)	SSC
Plants	
Congdon's tarplant (<i>Centromadia parryi</i> ssp. <i>congdonii</i>)	S2, 1B.1