

**DOCKETED**

<b>Docket Number:</b>	13-AFC-01C
<b>Project Title:</b>	Alamitos Energy Center - Compliance
<b>TN #:</b>	224060
<b>Document Title:</b>	AEC Petition to Amend for Additional Laydown Area
<b>Description:</b>	PTA for Additional Laydown Area
<b>Filer:</b>	Jerry Salamy
<b>Organization:</b>	CH2M HILL
<b>Submitter Role:</b>	Applicant Consultant
<b>Submission Date:</b>	7/5/2018 12:14:40 PM
<b>Docketed Date:</b>	7/5/2018



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July 5, 2018

Mr. Joe Douglas  
Compliance Project Manager  
Alamos Energy Center (13-AFC-01C)  
California Energy Commission  
1516 Ninth Street (MS-2000)  
Sacramento, CA 95814

RE: Alamos Energy Center (13-AFC-01C): Petition for Modification - Additional Laydown Area

Dear Mr. Douglas:

On behalf of the Alamos Energy Center (“Project”), AES Alamos Energy, LLC (“Project Owner”) submits this Petition for Post-Certification Modification. The Project Owner requests that California Energy Commission Staff approve the use of an additional laydown area need for the construction of the Project as the modification: (1) will not have a significant effect on the environment; (2) will not result in a change or deletion of a condition of certification; and (3) will not make changes that would cause the Project to not comply with any applicable laws, ordinances, regulations, or standards (“LORS”).

If you have any questions regarding the proposed modification, please contact me at 562-493-7840.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. O'Kane'. The signature is fluid and cursive, with a large initial 'S' and 'O'.

Stephen O’Kane  
Vice President  
AES Alamos Energy, LLC.

cc: Jeff Miller/Compliance Manager, AES Alamos Energy Center

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**Alamitos Energy Center  
(13-AFC-1C)**

**Petition for Modification  
Additional Laydown Area**

Submitted by  
**AES Alamitos Energy, LLC**

**July 5, 2018**

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AES ALAMITOS ENERGY, LLC  
ALAMITOS ENERGY CENTER (13-AFC-1C)  
PETITION FOR MODIFICATION- LAYDOWN AREA

Pursuant to Section 1769 of the California Energy Commission's Siting Regulations, AES Alamitos Energy, LLC ("Project Owner") hereby submits this petition for a Staff approved modification of the Alamitos Energy Center ("Project" or "AEC") to incorporate an additional laydown area for construction of the Project.

As set forth below, Staff approval of the use of the additional laydown area for construction is appropriate as the modification: (1) will not have a significant effect on the environment; (2) will not result in a change or deletion of a condition of certification; and (3) will not make changes that would the cause Project to not comply with any applicable laws, ordinances, regulations, or standards ("LORS").

**I. SECTION 1769 (A)(1)(A): DESCRIPTION OF THE PROPOSED MODIFICATIONS, INCLUDING NEW LANGUAGE FOR AFFECTED CONDITIONS.**

Additional laydown area is required to support construction of the Project. The Project Owner proposed using several onsite laydown areas during licensing of AEC. The primary laydown area was a parking lot located at the north of the AEC site. This parking lot was also the area designated for a Battery Energy Storage System ("BESS") approved by the City of Long Beach, originally scheduled to commence construction during the 3rd calendar quarter of 2019. However, the BESS construction schedule will take longer than expected. The BESS will commence construction in August 2018, which requires the Project Owner to identify additional laydown area for the AEC.

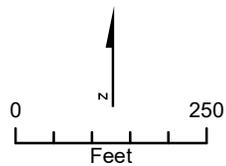
The Project Owner contacted Southern California Edison ("SCE"), which offered to allow the Project to use an existing, approximately 2-acre (83,675 square feet) graveled area as an additional laydown area. The graveled area is located due east of the onsite switchyard that is contiguous with the AEC construction site. SCE uses this graveled area as a switchyard maintenance and construction laydown area when conducting maintenance/upgrades on the switchyard. This land was originally part of the Alamitos generating station once owned by SCE. The laydown area will be used to store construction materials and equipment prior to installation in addition to construction parking, no hazardous materials will be stored or used in this area. No new entrances are required to access the laydown area and all construction traffic will continue to use the main gate at the Alamitos generating station to access the construction site and the additional laydown area.

Figure 1 shows the location of the additional laydown area. The laydown area is currently covered in approximately 6 inches of gravel. The Project Owner will need to reduce the depth of gravel to a few inches by relocating excess gravel into an onsite pile. The stored gravel will be returned once the area is no longer needed as a construction laydown area. In addition, the Project Owner will erect a temporary chain-linked fence along the western boundary of the laydown area. The fence's support structure will be buried (using a 4-inch auger) to approximately 24 inches. No other excavation, grading, grubbing or removal of vegetation is necessary to prepare the laydown area for use.



**Legend**

-  Additional Laydown Area
-  Licensed MSA Natural Gas Pipeline
-  Licensed Metering Station



**Figure 1**  
**AEC Additional Laydown Area**  
 AES Alamitos Energy Center  
 Long Beach, California

Equipment that cannot be placed directly on the gravel will be placed on dunnage. Figure 2 contains photographs showing the current state of the graveled portion of the proposed laydown area, as of June 7, 2018. The Project Owner expects to use this additional laydown area as soon as its use is approved by CEC Staff through the end of AEC construction (approximately the 2nd quarter of 2020).

The Project Owner is not proposing any new language for the conditions of certification of project 13-AFC-1C and all applicable conditions of certification would apply to the use of the additional laydown area.

**II. SECTION 1769 (A)(L)(B): DISCUSSION OF THE NECESSITY FOR THE MODIFICATIONS.**

The proposed modification is necessary to support ongoing construction of the Project.

**III. SECTION 1769(A)(1)(C): DISCUSSION OF WHETHER THE MODIFICATION IS BASED ON INFORMATION THAT WAS KNOWN BY THE PETITIONER DURING THE CERTIFICATION PROCEEDING.**

The proposed modification is not based upon information that was known during the certification proceeding for the Project.

**IV. SECTION 1769(A)(1)(D): DISCUSSION OF WHETHER THE MODIFICATION IS BASED ON NEW INFORMATION THAT CHANGES OR UNDERMINES THE ASSUMPTIONS, RATIONALE, FINDINGS, OR OTHER BASES OF THE FINAL DECISION, AND EXPLANATION OF WHY THE CHANGE SHOULD BE PERMITTED.**

The modification does not change or undermine the assumptions, rationale, findings, or other bases of the Commission's decision certifying the Project.

**V. SECTION 1769(A)(1)(E): ANALYSIS OF THE IMPACTS THE MODIFICATIONS MAY HAVE ON THE ENVIRONMENT AND PROPOSED MEASURES TO MITIGATE ANY SIGNIFICANT ADVERSE IMPACTS.**

The proposed modification is categorically exempt from the California Environmental Quality Act pursuant to Title 14, Sections 15301 and 15304 of the California Code of Regulations. The proposed modification is exempt under Section 15301 as a use of an existing facility that will involve no expansion of the existing use. The proposed modification is also exempt under Section 15304 as a minor temporary use of the existing laydown area which will have a negligible, if any, effect on the environment. Because there is no expansion of an existing use and because there is no possibility that the proposed modification will result in any significant adverse environmental impacts, the activities are exempt from CEQA and no mitigation measures are needed.

Figure 2 AEC Proposed Laydown Area Photographs



Looking North from the Northern Side of the Natural Gas Metering Area

Figure 2 AEC Proposed Laydown Area Photographs



Looking Southwest from the San Gabriel River Levee

Figure 2 AEC Proposed Laydown Area Photographs



Looking Northeast

Figure 2 AEC Proposed Laydown Area Photographs



Looking West

A brief analysis for each major subject area identified in the Final Decision is provided below. Due to the nature of the proposed modification, the only areas being addressed in the Post-Certification amendment request are Air Quality, Biological, Cultural, and Visual Resources. The additional laydown area includes the following features: contiguous with the AEC construction site; covered by existing storm water Best Management Practices that the Project Owner will document in their Storm Water Pollution Prevention Plan; currently used by the owner (SCE) as a laydown area for maintenance of the switchyard; is appropriately zoned for the proposed use; and is not located near sensitive or residential receptors. As such, the other environmental/ engineering areas will not be affected by the proposed modification.

**Air Quality:** The preparation of the additional laydown area will require the installation of a fence with posts and removal/storage of some of the existing gravel. These activities will result in minor amounts of vehicle exhaust and fugitive dust air emissions. These activities are expected to take less than a week to accomplish. The expected air quality impact associated with these preparation activities are comparable to other construction activities occurring onsite and are not expected to cause or contribute to a violation of an ambient air quality standard or violate applicable LORS.

The use of the additional laydown area will not result in air quality impacts greater than those analyzed during the licensing of the project for the existing laydown area with the implementation of mitigation measures as required by conditions of certification AQ-SC1 through AQ-SC5 inclusive.

Therefore, the proposed modification will not result in a significant impact to air quality.

**Biological Resources:** A biological survey of the additional laydown area (including a 50 foot buffer) was conducted on June 26, 2018 by the AEC Designated Biologist (DB - Ms. Melissa Fowler). The DB also conducted a California Natural Diversity Database (CNDDB) and Rarefind search to determine the potential for sensitive species and habitats in the area. The survey and database search results, included as Attachment 1, determined that the laydown area does not provide habitat for any sensitive or listed endangered/threatened species. Several trees located adjacent to the laydown area provide potential nesting habitat. Mourning dove fledglings were observed around existing nests during the survey, though no threatened, endangered, or special status species were observed. Implementation of the existing Conditions of Certification (BIO-1 to BIO-8) will reduce any already insignificant potential impacts to biological resources.

**Cultural Resources:** The AEC Designated Cultural Resource Specialist (DCRS) conducted a survey and requested a literature search for the additional laydown area (including a 200-foot buffer). The results of the survey, included as Attachment 2, determined that no cultural or historic resources occur on or within the additional laydown area. The results of the literature search will be provided under a separate cover when received. The preparation of the additional laydown area includes the installation of a fence, requiring posts to be

installed every 8 to 10 feet in post holes approximately four to six inches in diameter and 24 inches deep. Based on a review by the DCRS, these excavations are not expected to impact native soils as fill material extends to approximately 8 feet below grade in this area. The removal and stockpiling of existing gravel will also not impact native soils. Therefore, the proposed modification will not have a significant impact to cultural resources.

**Visual Resources:** The additional laydown area is located near the existing laydown area and is screened by the existing switchyard to the west, the San Gabriel River levee to the east, the AEC site to the south, and a self-storage facility and State Route 22 to the north. Material storage will not involve the use of tall construction equipment (i.e., heavy cranes) or materials. The use of this area will be finite and temporary. Construction lighting will adhere to the requirements of the existing construction lighting condition of certification (VIS-1). Therefore, the proposed modification will not have a significant impact to visual resources.

**VI. SECTION 1769(A)(1)(F): DISCUSSION OF THE IMPACT OF THE MODIFICATION ON THE FACILITY'S ABILITY TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, REGULATIONS, AND STANDARDS.**

The proposed modification will not impact the Project's ability to comply with applicable LORS. The additional laydown area is designated as Mixed Use district (Land Use District (LUD) No. 7) and is located within the Southeast Area Development Improvement Plan, Subarea 19, designated as industrial use. The use of the area as construction laydown is consistent with local zoning and current use by SCE.

**VII. SECTION 1769(A)(1)(G): DISCUSSION OF HOW THE MODIFICATIONS AFFECT THE PUBLIC.**

The proposed modification will not adversely affect the public. The modification will occur entirely onsite, and will not negatively impact air quality or public health. Therefore, there are no significant adverse effects on property owners that will result from the proposed modification.

**VIII. SECTION 1769(A)(1)(H): LIST OF PROPERTY OWNERS POTENTIALLY AFFECTED BY THE MODIFICATION IS REQUIRED.**

The proposed modification will have no significant environmental effects and will be in compliance with applicable LORS. Therefore, no property owners will be affected by the modification

**IX. SECTION 1769(A)(1)(I): DISCUSSION OF THE POTENTIAL EFFECT ON NEARBY PROPERTY OWNERS, THE PUBLIC AND THE PARTIES IN THE APPLICATION PROCEEDING.**

The proposed modification will have no significant environmental effects and will be in compliance with applicable LORS. Therefore, the proposed changes will have no impact on property owners, the public, or any other parties.

**Attachment 1 - Biological Resources Survey for the  
Alamitos Energy Center (13-AFC-01C) - Additional  
Laydown Area**

# Biological Resources Survey for the Alamitos Energy Center (13-AFC-01C) - Additional Laydown Area

PREPARED FOR: Stephen O’Kane/AES Alamitos Energy, LLC  
PREPARED BY: Melissa Fowler/High Country Consulting  
DATE: June 27, 2018

## Introduction

On behalf of AES Alamitos Energy, LLC (AES), Melissa Fowler (Designated Biologist/High Country Consulting [HCC]) conducted a biological resources survey, with a focus on special-status species and nesting birds, within the proposed additional laydown area on June 26, 2018. The proposed laydown area is an existing parcel owned by Southern California Edison (SCE) that is contiguous to the existing Alamitos Energy Center (AEC) construction site. The Final Decision for the AEC was issued by the California Energy Commission (CEC) on May 4, 2017 (CEC, 2017).

## Project Description

AES is proposing to use an existing parcel owned by SCE that is contiguous to the AEC construction site as an additional laydown area. This additional laydown area is approximately 2 acres (83,675 square feet) and will be used to store construction materials and equipment prior to installation. It will also be used for AEC construction parking currently located on the project site where a planned battery energy storage facility will commence construction. No hazardous materials will be stored in the new laydown area (all hazardous materials will continue to be stored at the existing construction hazardous materials storage facility), minimal excavations at the site are necessary and use of the proposed laydown area is consistent with current usage.

The proposed laydown area is located to the east of the SCE Alamitos switchyard and north of the licensed AEC natural gas metering station. Figure 1 shows the location of the laydown area. SCE uses this area as a switchyard maintenance laydown area. The additional laydown area to be used is covered in gravel. The project owner expects to remove some of the gravel to facilitate the movement of vehicles in the area. The removed gravel will be stored onsite for later replacement. Equipment that cannot be placed directly on the gravel will be placed on dunnage.

AES expects to use this additional laydown area as soon as its use is approved by the CEC Compliance Project Manager (CPM), through the end of AEC construction (approximately the 2nd quarter of 2020).

## Survey Methods

The proposed laydown area and suitable habitat for special-status wildlife and nesting birds within a 50-foot buffer was surveyed where access was permitted (Survey Area). Tall structures and potential habitat in inaccessible areas were surveyed using binoculars. Lists of potential special-status species were queried the California Natural Diversity Database (CNDDDB) (CDFW, 2018; see Figures 2 and 3, Attachment 1) to determine if any recent occurrence records have been reported. The proposed laydown area was surveyed via pedestrian transects, approximately spaced 50 feet (15 meters) apart. The survey focused on special-status wildlife species and nesting birds. Inaccessible areas were surveyed using binoculars. Incidental wildlife species observed during the survey and meteorological data were recorded.

## Survey Results

Survey conditions are presented in Table 1, followed by survey results. Wildlife species observed during the habitat assessment are provided in Table 2. The following figures and CNDDDB results are provided in Attachment 1: Figure 1 – Project Location, Figure 2 – Special-Status Species (within 10 miles), Figure 3- Special-Status Species (within 1 mile). Representative Site Photographs are provided in Attachment 2.

**Table 1. Weather Conditions**

Date	Time (24-hour)	Survey Location	Temperature (°F)	Wind (mph)	Cloud Cover (%)	Precipitation (None, Light, Moderate, Heavy)	Comments
6/26/2018	0850-0930	City of Long Beach, CA	66	3	100	None	Good visibility (10.0 miles); 76% humidity

Notes:

°F = degrees Fahrenheit

% = percent

mph = miles per hour

### Proposed Additional Laydown Area

The proposed additional laydown area is SCE’s existing switchyard maintenance laydown area, which is primarily a gravel lot. There is a paved road that runs parallel to the eastern fence line with a small cluster of eucalyptus (*Eucalyptus* spp.) trees and other non-native vegetation. A list of observed plant species is included in Attachment 3. The nearest adjacent land uses are the SCE switchyard, a public road, the AEC, and the San Gabriel River.

### Special-status Wildlife

No special-status wildlife or sign were observed in the Survey Area during survey. A list of wildlife species observed in provided in Table 2.

### Nesting Birds

Two mourning dove (*Zenaida macroura*) fledglings were observed within a eucalyptus tree. No additional bird nests or nesting behaviors were observed in the Survey Area during the survey. A list of wildlife species observed in provided in Table 2.

**Table 2. Observed Wildlife Species List for the Proposed Additional Laydown Area**

Common Name	Scientific Name	Status Federal/State/Other
<b>Birds</b>		
Rock pigeon	<i>Columba livia</i>	--/--/--
American crow	<i>Corvus brachyrhynchos</i>	--/--/--
House finch	<i>Haemorhous mexicanus</i>	--/--/--
California towhee	<i>Melospiza crissalis</i>	--/--/--
Northern mockingbird	<i>Mimus polyglottos</i>	--/--/--

European starling	<i>Sturnus vulgaris</i>	--/--/--
Mourning dove	<i>Zenaida macroura</i>	--/--/--

**Source:** California Department of Fish and Wildlife (CDFW). 2018b. Special Animals List. Periodic publication. 66 pp. April.

**Status Codes:**

If status codes are not provided, it indicates that the observed species is not a special-status species.

**Federal:**

FE = Federally listed Endangered: species in danger of extinction throughout a significant portion of its range.

FT = Federally listed Threatened: species likely to become endangered within the foreseeable future.

BCC = Birds of Conservation Concern

**State:**

SE = State listed as Endangered

ST = State listed as Threatened

FP = Fully Protected

SSC = California Species of Special Concern to California Department of Fish and Wildlife (CDFW) because of declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

S = Sensitive

WL = Watch List

SP = Special Animals List

**Other:**

Bureau of Land Management (BLM), United States Department of Interior – Sensitive (S)

California Department of Forestry and Fire Protection (CDF) classifies “sensitive species” as those species that warrant special protection during timber operations.

United States Forest Service (USFS) – Sensitive (S)

## Summary

The proposed laydown area is an existing graveled area and use of the parcel will be consistent with all applicable laws, ordinances, regulations, and standards (LORS). The AEC Conditions of Certification (COCs) BIO-1 through BIO-8 will be implemented within the proposed laydown area. Furthermore, the existing vegetation will not be removed and will be surveyed for nesting birds and other biological constraints regularly. Therefore, any significant impacts to biological resources are not anticipated.

## References

Calflora. 2018. Berkeley, California: The Calflora Database [a non-profit organization]. Available: <http://www.calflora.org/>

California Department of Fish and Wildlife (CDFW). 2018a. California Natural Diversity Database (CNDDDB). *RareFind5*. Electronic database. <https://www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>. Sacramento, California.

California Department of Fish and Wildlife (CDFW). 2018b. Special Animals List. Periodic publication. 66 pp. April.

California Energy Commission (CEC). 2017. Alamitos Energy Center. Docket Number 13-AFC-01. May.

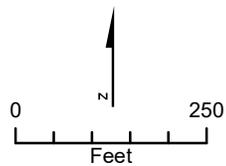


Attachment 1  
Figures

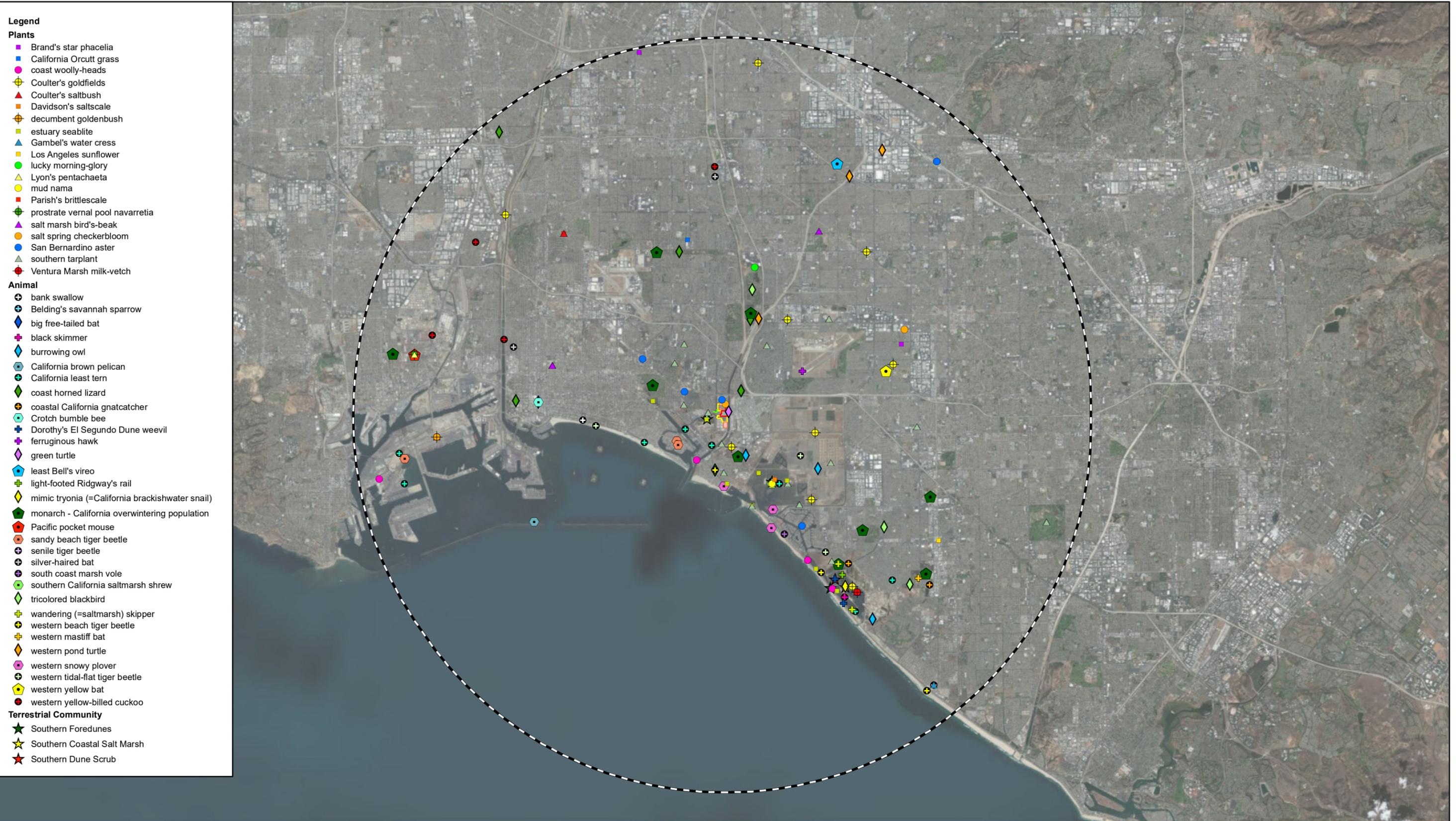


**Legend**

-  Additional Laydown Area
-  Licensed MSA Natural Gas Pipeline
-  Licensed Metering Station



**Figure 1**  
**AEC Additional Laydown Area**  
 AES Alamitos Energy Center  
 Long Beach, California



- Legend**
- Plants**
- Brand's star phacelia
  - California Orcutt grass
  - coast woolly-heads
  - Coulter's goldfields
  - Coulter's saltbush
  - Davidson's saltscale
  - decumbent goldenbush
  - estuary seablite
  - Gambel's water cress
  - Los Angeles sunflower
  - lucky morning-glory
  - Lyon's pentachaeta
  - mud nama
  - Parish's brittlescale
  - prostrate vernal pool navarretia
  - salt marsh bird's-beak
  - salt spring checkerbloom
  - San Bernardino aster
  - southern tarplant
  - Ventura Marsh milk-vetch
- Animal**
- bank swallow
  - Belding's savannah sparrow
  - big free-tailed bat
  - black skimmer
  - burrowing owl
  - California brown pelican
  - California least tern
  - coast horned lizard
  - coastal California gnatcatcher
  - Crotch bumble bee
  - Dorothy's El Segundo Dune weevil
  - ferruginous hawk
  - green turtle
  - least Bell's vireo
  - light-footed Ridgway's rail
  - mimic tryonia (=California brackishwater snail)
  - monarch - California overwintering population
  - Pacific pocket mouse
  - sandy beach tiger beetle
  - senile tiger beetle
  - silver-haired bat
  - south coast marsh vole
  - southern California saltmarsh shrew
  - tricolored blackbird
  - wandering (=saltmarsh) skipper
  - western beach tiger beetle
  - western mastiff bat
  - western pond turtle
  - western snowy plover
  - western tidal-flat tiger beetle
  - western yellow bat
  - western yellow-billed cuckoo
- Terrestrial Community**
- Southern Foredunes
  - Southern Coastal Salt Marsh
  - Southern Dune Scrub

- Legend**
- AGS Boundary
  - AEC Site
  - Parking/Laydown Construction Area
  - 10 Mile Project Buffer
  - Proposed New Process/Sanitary Wastewater Pipeline to First Point of Interconnection

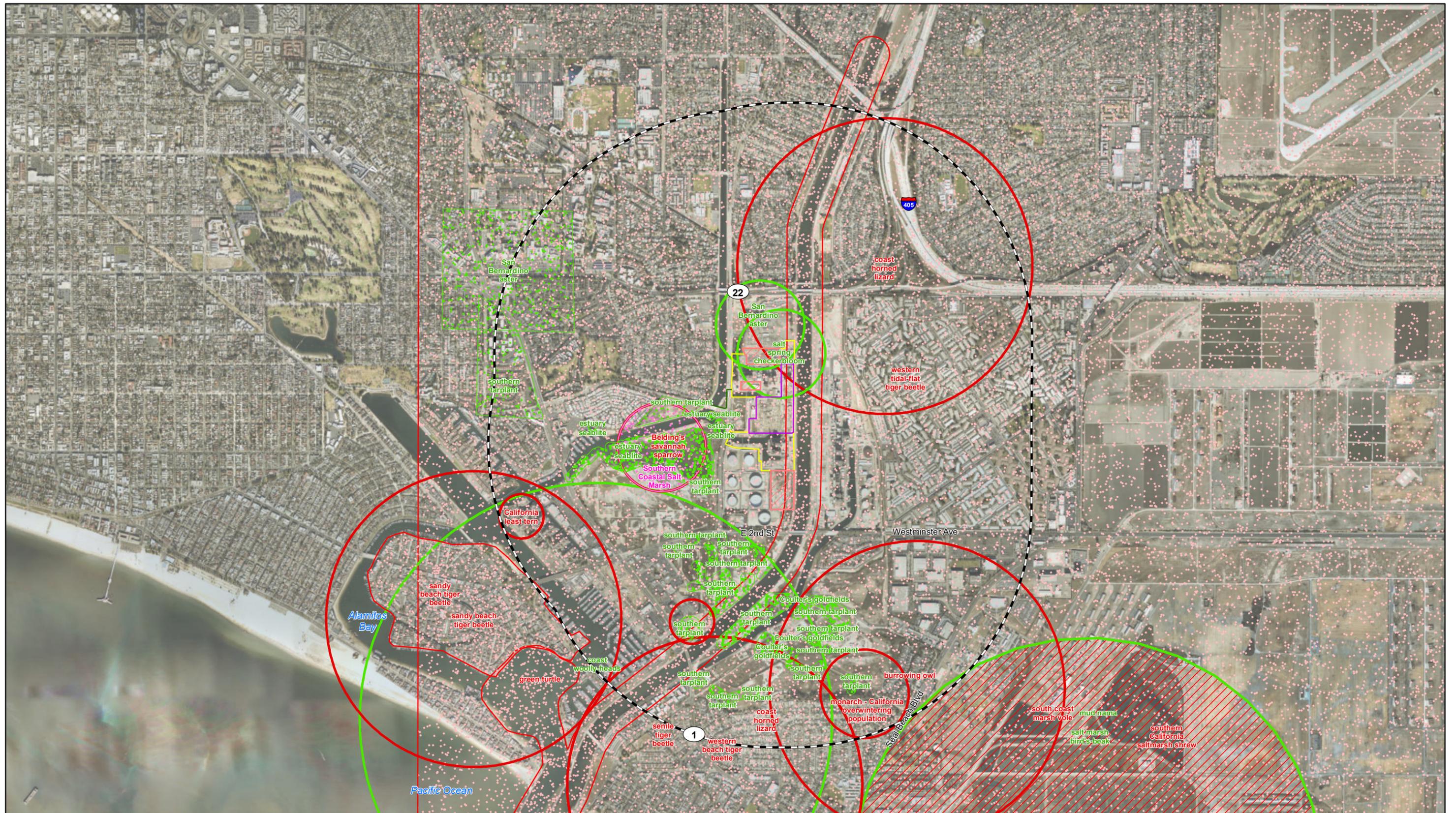
Source: Esri World Imagery, CNDDDB, June 2018.

Note:  
The occurrences shown on this map represent the known locations of the species listed here as of the date of this version. There may be additional occurrences or additional species within this area which have not yet been surveyed and/or mapped. Lack of information in the CNDDDB about a species or an area can never be used as proof that no special status species occur in an area.

0 2.5 5 Miles



**FIGURE 2**  
**Special-Status Species**  
**(within 10 miles)**  
Alamos Energy Center  
Long Beach, California  
June 2018



Note:  
 1. The occurrences shown on this map represent the known locations of the species listed here as of the date of this version. There may be additional occurrences or additional species within this area which have not yet been surveyed and/or mapped. Lack of information in the CNDDDB about a species or an area can never be used.  
 2. CNDDDB databases are updated every month, therefore locations identified are approximations, and may be updated and/or relocated in future versions.

Source: Esri World Imagery, CNDDDB, June 2018.

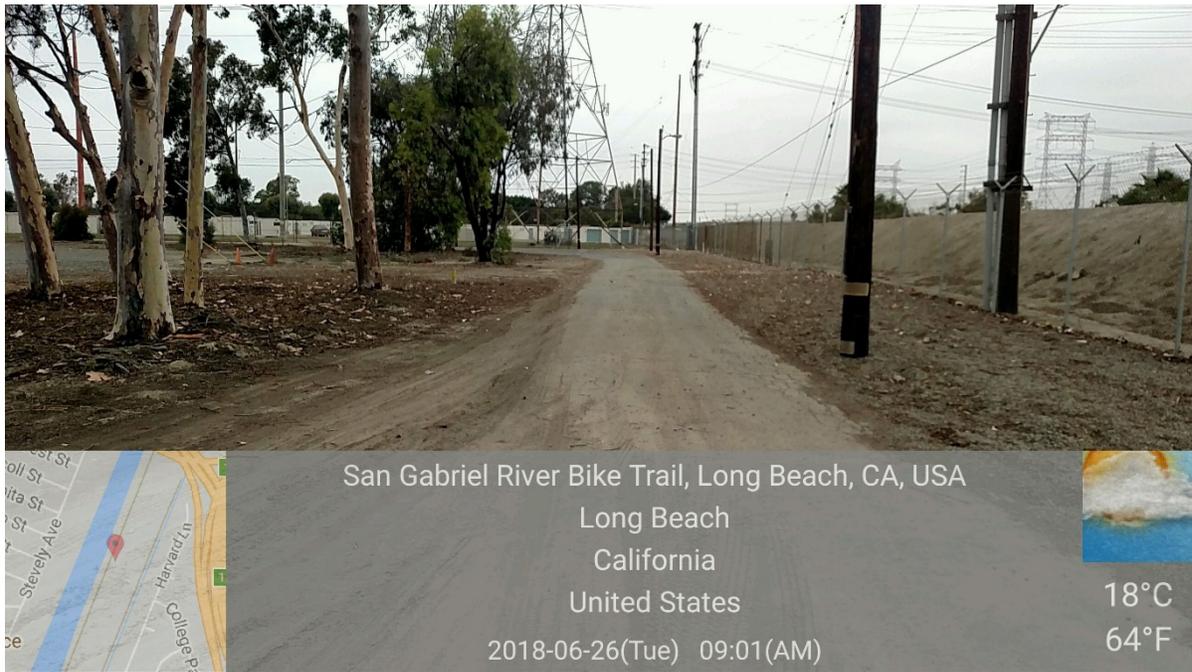
0 2,000 4,000 Feet

**FIGURE 3**  
**Special-Status Species**  
 (within 1 mile)  
 Alamos Energy Center  
 Long Beach, California  
 June 2018

Attachment 2  
Site Photographs



**Photograph 1.** Representative photograph of the southeast corner of the proposed additional laydown area, view facing north. Taken:



**Photograph 2.** Representative photograph of the eastern perimeter of the proposed additional laydown area, view facing north.



**Photograph 3.** Representative photograph of the northern boundary of the proposed additional laydown area, view facing west northwest.



**Photograph 4.** Representative photograph of the northeastern corner of the proposed additional laydown area, view facing northeast.



**Photograph 5.** Representative photograph of the northwestern corner of the proposed additional laydown area, view facing south.



**Photograph 6.** Representative photograph of the southwestern corner of the proposed additional laydown area, view facing east.

Attachment 3  
Plant Species Observed

**Attachment 3**

**Observed Vascular Plant Species for the Proposed Additional Laydown Area**

Scientific Name	Common Name	Status
<b>Eudicots</b>		
<b>Anacardiaceae</b>		
<i>Schinus terebinthifolius</i>	Brazilian pepper tree	Non-native; naturalized
<b>Asteraceae</b>		
<i>Carduus pycnocephalus</i>	Italian thistle	Non-native; naturalized
<b>Chenopodiaceae</b>		
<i>Chenopodium album</i>	white goosefoot	Non-native; naturalized
<i>Chenopodium murale</i>	nettle-leaved goosefoot	Non-native; naturalized
<i>Salsola australis</i>	Russian thistle	Non-native; naturalized
<b>Myrtaceae</b>		
<i>Eucalyptus</i> ssp.	eucalyptus	Non-native; naturalized
<b>Scrophulariaceae</b>		
<i>Myoporum laetum</i>	lollypop tree	Non-native; naturalized
<b>Solanaceae</b>		
<i>Datura stramonium</i>	Jimson weed	Non-native; naturalized
<i>Solanum nigrum</i>	black nightshade	Non-native; naturalized
<b>Monocots</b>		
<b>Poaceae</b>		
<i>Avena barbata</i>	slender oat	Non-native; naturalized

Taxonomy follows The Jepson Online Interchange for California Floristics: <http://ucjeps.berkeley.edu/interchange/>

**Attachment 2 - Cultural Resources Survey for the  
Alamitos Energy Center (13-AFC-01C) - Additional  
Laydown Area**

## Archaeological Survey for Additional Laydown for the Alamos Energy Center

**Prepared For:** AES, CEC  
**Prepared By:** Natalie Lawson, CRS  
**Subject:** Archaeological survey for additional laydown

An additional laydown area was identified at the Alamos Energy Center (AEC) in June 2018. An archaeological pedestrian survey of the laydown and buffer was completed on June 26, 2018. A supplemental literature search will be completed at the South Central Coastal Information Center, as well. The results of the literature search will be submitted under a separate cover.

### Methods

A review of data collected for the Application for Certification for the AEC was completed prior to the pedestrian survey.

A cultural resources survey of the approximate two-acre laydown was conducted on June 26, 2018, by Natalie Lawson, M.A., RPA, the CEC approved CRS for the AEC, who meets the qualifications for Principal Investigator stated in the Secretary of the Interior's standards and guidelines for archaeology and historic preservation (NPS, 1983).

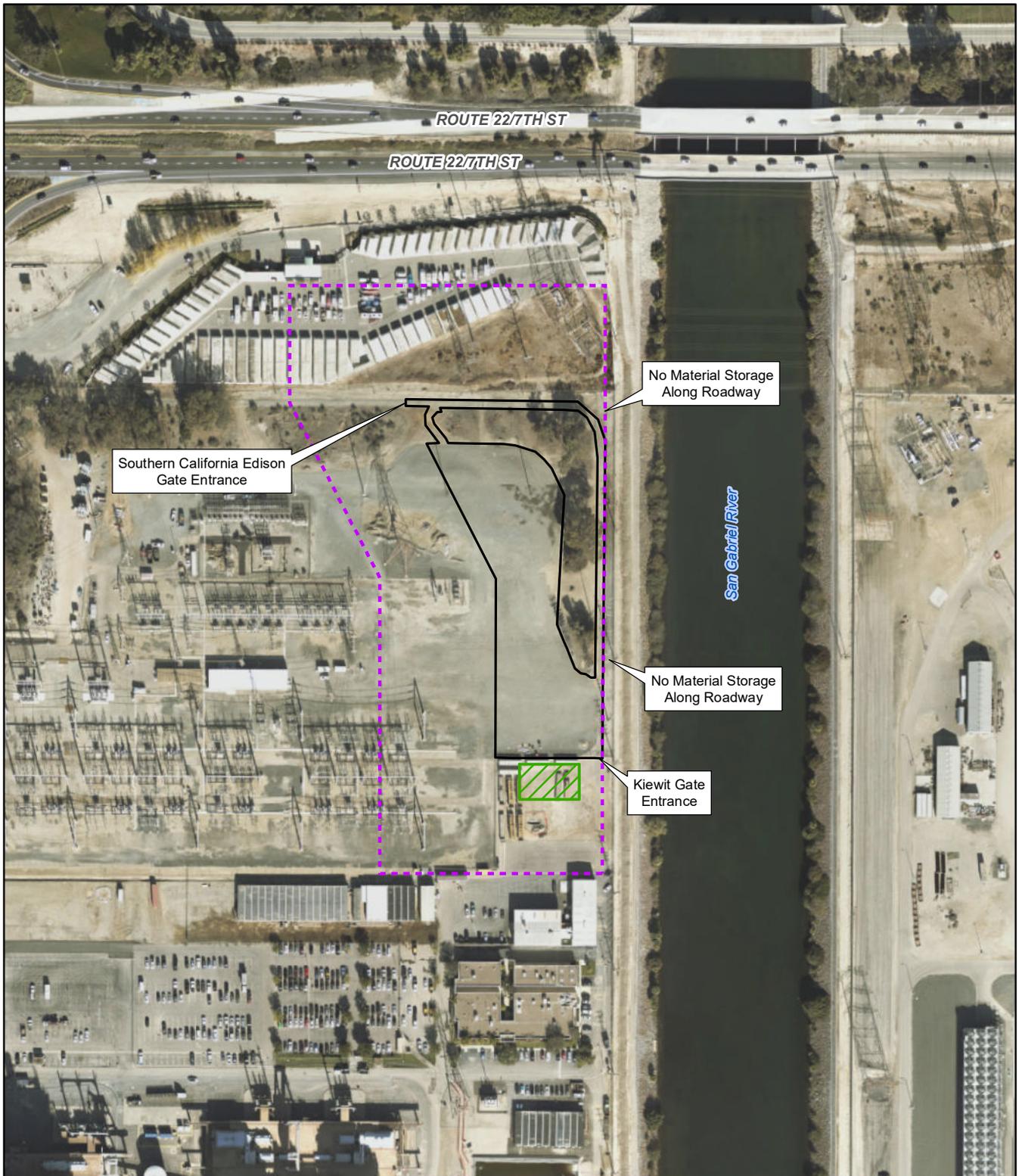
As per the latest CEC Rules of Practice and Procedure & Power Plant Site Certification Regulations (CEC 2007), archaeological resources surveys must be inclusive of the project site and project linear facility routes, extending to no less than 200 feet around the project site, substations and staging areas, and to no less than 50 feet to either side of the right-of-way of project linear facility routes. A 200-foot minimum buffer was surveyed for cultural resources around the laydown on AES property. One the east side of the survey area is the San Gabriel River. This area was previously surveyed during the AFC process and was not revisited in June 2018. The total acres surveyed for the archaeological survey was just under 4 acres.

The survey methodology for prehistoric and historic archaeological used linear pedestrian transects spaced at 10 to 15-meter intervals in all accessible areas. The buffer area includes trailers, equipment laydown, and a Southern California Edison (SCE) substation. Any open and unpaved areas were examined.

### Results

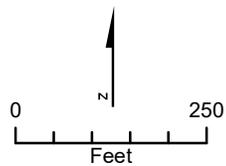
No archaeological resources were identified as a result of the pedestrian survey. At least one large underground SCE line runs through the proposed laydown. As noted in the Final Staff Assessment<sup>1</sup>, the depth to fill under the natural gas metering facility (adjacent to the additional laydown area) is 8 feet below grade. All of the surveyed area is leveled and was graded during the construction of the substation and the Alamos Generating Station. Most of the open area is either paved or graveled; unpaved areas consist of artificial fill. Some eucalyptus trees were noted in the buffer area. Minimal modern trash and one medium sized mammal jawbone were noted.

<sup>1</sup> Final Staff Assessment, Part 1 for Alamos Energy Center (AEC), Cultural Resources Appendix CR-1, Appendix CR-1 Table 1, September 2016  
(<https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=13-AFC-01>)



**Legend**

- Additional Laydown Area
- Licensed Metering Station
- Cultural Resources Survey Area



**Figure 1**  
**AEC Additional Laydown Area**  
**Cultural Resources Survey Area**  
 AES Alamitos Energy Center  
 Long Beach, California