



June 23, 2016

Todd Easley
San Diego Gas & Electric Company
8315 Century Park Court
San Diego, CA 92123

SUBJECT: (ETS 25240) Supplemental Update to the 2015 Biological Technical Report for the TL695/TL6971 Reconductor Project Aboard Marine Corps Base Camp Pendleton San Diego and Orange Counties, California

Dear Todd:

This supplemental letter report summarizes the results of the biological reconnaissance-level constraints analysis survey of the proposed additional project components for the TL695/TL6971 Reconductor Project, as identified by San Diego Gas & Electric Company (SDG&E) in their most recent project maps (dated March, 2016). This survey and update were conducted to identify existing or expected biological resources in the vicinity of the additional project components proposed for the project and added to the project description since the original surveys conducted in early 2015. Please refer to the Biological Technical Report for TL695/TL6971 Reconductor Project Aboard Marine Corps Base Camp Pendleton (MCBCP) San Diego and Orange Counties, California (version submitted dated November 2015 by Pangea Biological [Pangea]) for the project description and documentation and findings of the original reconnaissance-level and focused biological and jurisdictional water and wetland surveys conducted for the proposed Project.

The supplemental biological reconnaissance-level survey was conducted to identify and map vegetation types, and identify potentially suitable habitat for federally threatened and endangered species that occur or have the potential to occur within the additional survey areas.

The supplemental survey areas include new project components that fall completely or partially outside of the original Project Study Area (PSA), as described and mapped in the 2015 Biological Technical Report. These additional survey areas include possible direct bury pole work areas and a buffer of 150 feet to each side of the centerline (300 feet total survey corridor width). Other additional proposed components that fall partially or completely outside of the original survey area include footpaths for pedestrian access to poles, staging yards, stringing sites,

work/staging/turnaround areas, helicopter incidental land areas (ILAs), and additional project access roads. These survey areas include an approximately 50-foot buffer around staging yards, stringing sites, and work/staging/turnaround areas, and an approximately 20-foot buffer on either side of the proposed access roads.

Methods

Prior to the field survey, Pangea conducted a desktop analysis using readily available biological data, including but not limited to the following:

- Camp Pendleton Geodatabase biological resource information
- Camp Pendleton Operations Maps
- California Natural Diversity Database (CNDDDB; April and November 2015)
- Natural Resource Conservation Service soil survey maps
- ESRI aerial imagery
- United States (U.S.) Fish and Wildlife Service National Wetland Inventory (NWI)
- U.S. Geological Survey Blue-Line data (NHD)
- Topographic maps

Pangea biologists Scott Rowland and Paula Potenza, accompanied by Todd Easley (SDG&E Natural Resources), conducted a reconnaissance-level survey on March 2, 2016, and Dawn Huss (Pangea) and Andrew Borchert (Borchert Environmental Management) conducted reconnaissance-level surveys on June 8 and 9, 2016 of the proposed additional project component survey areas outside of MCBCP Training Areas. Areas within active training areas were surveyed on June 14, 2016 by Scott Rowland and Hiram Herrera of Pangea. The surveys were conducted between 8:45 a.m. and 4:30 p.m. Weather conditions during the surveys consisted of 5 to 100 percent cloud cover, temperatures ranging from 60 to 73 degrees Fahrenheit, and winds from 0 to 7 miles per hour.

For the reconnaissance field survey, biologists conducted vehicle and/or pedestrian surveys within the additional survey areas in order to record and map vegetation types and sensitive resources. The boundaries of the vegetation communities were mapped as polygons in Geographic Information System (GIS) shapefiles that distinguish each vegetation community. The additional survey areas were joined with the vegetation community data for the original PSA and were mapped onto an updated TL695/6971 Recondutor Project Vegetation Communities Mapbook, which is found in Attachment A. The supplemental field data mapped on the aerial field maps was also digitized and incorporated into shapefiles for the PSA. The supplemental shapefiles will be provided to SDG&E.

Supplemental Vegetation Community Evaluation

Vegetation communities observed within the additional project component areas were similar to those found in the original PSA, and include coast live oak woodland, Diegan coastal sage scrub, mulefat scrub, non-native grassland, southern sycamore-alder riparian woodland, and southern willow scrub. Disturbed or developed areas also observed include disturbed habitat, eucalyptus woodland (landscape), bare ground, and paved/urban/developed areas. The TL695/6971 Recondutor Project Vegetation Communities Mapbook (Attachment A) illustrates the vegetation

communities located throughout the PSA, including the additional project component areas surveyed during the supplement surveys. A comprehensive list of the plant communities occurring within the PSA (including the additional project components) and the relative acreages of each vegetation type/community are provided in Table 1 *Vegetation Communities Located within the PSA* (Attachment B). Please see the original Biological Technical Report for a detailed discussion on vegetation communities observed within the PSA.

Wildlife Species Observed

Wildlife species observed during the current surveys include western tiger swallowtail (*Papilio rutulus*), San Diego horned lizard (*Phrynosoma coronatum blainvillei*) scat, western fence lizard (*Sceloporus occidentalis longipes*), western side-blotched lizard (*Uta stansburiana elegans*), American crow (*Corvus brachyrhynchos*), American kestrel (*Falco sparverius*), Anna's hummingbird (*Calypte anna*), ash-throated flycatcher (*Myiarchus cinerascens*), black-headed grosbeak (*Pheucticus melanocephalus*), brown-headed cowbird (*Molothrus ater*), California quail (*Callipepla californica*), California thrasher (*Toxostoma redivivum*), California towhee (*Melospiza crissalis*), cliff swallow (*Petrochelidon pyrrhonata*), coastal California gnatcatcher (*Polioptila californica californica*), common raven (*Corvus corax*), common yellowthroat (*Geothlypis trichas*), European starling (*Sturnus vulgaris*), greater roadrunner (*Geococcyx californianus*), hooded oriole (*Icterus cucullatus*), house finch (*Carpodacus mexicanus*), least Bell's vireo (*Vireo bellii pusillus*), lesser goldfinch (*Carduelis psaltria*), mourning dove (*Zenaidura macroura*), northern mockingbird (*Mimus polyglottos*), Nuttall's woodpecker (*Picoides nuttallii*), Pacific-slope flycatcher (*Empidonax difficilis*), red-tailed hawk (*Buteo jamaicensis*), song sparrow (*Melospiza melodia*), spotted towhee (*Pipilo maculatus*), turkey vulture (*Cathartes aura*), western kingbird (*Tyrannus verticalis*), western scrub-jay (*Aphelocoma californica*), white-crowned sparrow (*Zonotrichia leucophrys*), wrentit (*Chamaea fasciata*), yellow warbler (*Dendroica petechia*), California ground squirrel (*Spermophilus beecheyi*), coyote (*Canis latrans clepticus*) scat, desert cottontail (*Sylvilagus audubonii*), and southern mule deer (*Odocoileus hemionus fuliginata*) tracks.

Sensitive Species

In addition to vegetation mapping, the additional project component areas were evaluated during the reconnaissance field surveys for their potential to support candidate, threatened, and endangered plant and wildlife species. The additional project component areas are similar to the habitats described in the original BTR, and potentially support thread-leaved brodiaea (*Brodiaea filifolia*), Riverside fairy shrimp (*Streptocephallus wootoni*), San Diego fairy shrimp (*Branchineta sandiegonensis*), arroyo toad (*Anaxyrus californicus*), burrowing owl (*Athene cunicularia*), coastal California gnatcatcher, least Bell's vireo, southwestern willow flycatcher (*Empidonax traillii extimus*), and Pacific pocket mouse (*Perognathus longimembris pacificus*).

No federally listed plant species were observed during the supplemental field surveys. One federally endangered wildlife species, the least Bell's vireo, and one federally threatened wildlife species, the coastal California gnatcatcher, were observed during the supplemental field surveys. The coastal California gnatcatcher and least Bell's vireo were observed during original project surveys and are discussed in the original 2015 Biological Technical Report.

The Diegan coastal sage scrub habitat, non-native grassland habitat, and access roads within these habitats have a low potential to contain vernal basins that could support the Riverside fairy shrimp and the San Diego fairy shrimp, if present. No vernal pool complexes were identified during surveys of the original PSA in 2015, and no potential vernal pool complexes were identified during surveys of the additional project components in 2016. No sensitive fairy shrimp species are expected to occur in the additional project components based on previous surveys conducted within the PSA during 2015, and historical biological data provided by MCBCP. Protocol-level wet and dry surveys were conducted for the Riverside fairy shrimp and the San Diego fairy shrimp in support of the original PSA in 2015; and no sensitive fairy shrimp species were observed during these surveys. No sensitive fairy shrimp have been documented within the PSA (original and additional project components) in the historical biological data supplied by MCBCP. Various depressions were observed within access roads during the 2016 surveys, however, no vernal pool habitat indicators or sign were observed within these depressions.

The non-native grassland habitat observed within the additional project component areas provide potentially suitable habitat for thread-leaved brodiaea. Four thread-leaved brodiaea populations were observed during the 2015 focused surveys within the original PSA, and suitable habitat for this species was observed during the 2016 surveys.

Many of the proposed additional project components are located within Diegan coastal sage scrub habitat, which is suitable for the coastal California gnatcatcher, the Pacific pocket mouse, and thread-leaved brodiaea. The more open Diegan coastal sage scrub habitat observed within the additional project component areas is potentially suitable for thread-leaved brodiaea. Coastal California gnatcatchers were observed during 2014 focused surveys within the Diegan coastal sage scrub habitat of the original PSA, and suitable habitat for this species occurs within the additional project component areas. Additional coastal California gnatcatcher surveys are anticipated to be conducted closer to the beginning of construction of the proposed Project, and will include potentially suitable habitat within the additional project component areas, in order to better determine the most current locations of gnatcatchers prior to construction. No individuals of Pacific pocket mouse were captured or observed during the protocol-level surveys that were conducted in 2013 within the original PSA; however, there is a potential for this species to occur within the original PSA and additional project component areas.

The non-native grassland and Diegan coastal sage scrub habitats observed within the additional project component areas also have the potential to support the state listed burrowing owl. No burrowing owls or their sign were observed within the original PSA during the 2014-2015 protocol-level surveys, which took place during the non-breeding season. There is also no recent historical record of burrowing owl nesting in the vicinity of the project. However, some suitable habitat for this species was observed within the additional project component areas during the current surveys.

The mulefat scrub, southern sycamore-alder riparian, and southern willow scrub habitats within the additional project component area are potentially suitable for the arroyo toad, the least Bell's vireo, and the southwestern willow flycatcher. Arroyo toads were observed during protocol-level surveys that were conducted in 2015 within the original PSA, and there is a moderate to high potential for this species to occur within some of the additional project component areas. The least Bell's vireo

was observed during the 2015 focused surveys of riparian habitats within the original PSA, and there is a moderate potential for this species to occur within the additional project component areas. The proposed Project has been designed to avoid impacts to potential breeding habitat, such as the drainages within the PSA, which could lower the potential for impacts to arroyo toad and least Bell's vireo during construction activities. The southwestern willow flycatcher was not observed during the 2015 focused surveys of riparian habitats within the original PSA; however, suitable habitat for this species was observed within the original PSA and there is a potential for the southwestern willow flycatcher to occur within riparian habitat within the additional project component areas. The proposed Project has been designed to avoid impacts to potential breeding habitat, such as the drainages within the PSA, which could lower the potential for impacts to southwestern willow flycatcher during construction activities.

The disturbed habitat observed within one of the additional project component areas, Sierra Helo ILA, is located adjacent to San Mateo Creek (See Attachment A, Mapbook page 32). San Mateo Creek provides suitable habitat for the arroyo toad, and this species was observed in San Mateo Creek during the 2015 focused surveys. Therefore, there is a potential for the arroyo toad to occur within the Sierra Helo ILA as a result of arroyo toad dispersal activities.

One of the additional project component sites, Area 62 Helo ILA, is located in a highly active military training area and has not yet been surveyed as part of the project. Based on Pangea's review and interpretation of aerial photographs of the Area 62 Helo ILA site (Google Maps; <https://www.google.com/maps/@33.4336337,-117.5586474,19z/data=!3m1!1e3>), the ILA appears to include a paved military aircraft landing pad, while the area surrounding this landing pad appears to be disturbed habitat and/or disturbed non-native grassland habitat (possibly the result of routine maintenance [i.e. mowing and/or trimming] around the site).

Potential Impacts

The revised anticipated project impacts were calculated based on the updated vegetation mapping of the PSA, which includes both the original and additional project components. The revised estimated permanent and temporary construction impacts to specific vegetation communities for the proposed project (original and additional components) can be found in Table 2 *Estimated Construction Impacts to Vegetation Communities* (Attachment C).

Sensitive habitats are considered naturally occurring plant assemblages or restored habitats that are reasonably expected to support natural diversity and carrying capacities of sensitive species in the region. Non-sensitive habitat types are those typically of a lower biological value and include bare ground, heavily disturbed areas, developed and urban areas (paved), and landscaping. These areas are not typically expected to have a major ecological value, contribute to the function of natural habitats and open space areas in the region, or support special status plant and wildlife species addressed in this report. A summary of the revised estimated impacts to sensitive and non-sensitive habitat types, which includes the original and additional project component areas, is provided in Table 3 *Estimated Impacts to Sensitive and Non-Sensitive Habitats* (Attachment C).

Conclusion

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Based on the supplemental surveys of the additional project component areas, species-specific surveys are recommended in the additional project component areas where suitable habitat exists for sensitive plant or wildlife species as described above. Additional species-specific or focused surveys for thread-leaved brodiaea and coastal California gnatcatcher are recommended within suitable habitats for these species prior to the start of construction activities to determine if the project will affect these species.

Please contact me at (760) 723-3231 if you have any comments or questions regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Amy Rowland". The signature is fluid and cursive, with the first name "Amy" and last name "Rowland" clearly distinguishable.

Amy Rowland
Managing Partner

Attachments

ATTACHMENT A

25240 TL695/6971
 Reconductor Project
 Vegetation Communities Mapbook

Page 1 of 88

1 inch = 100 feet @11" x 17"



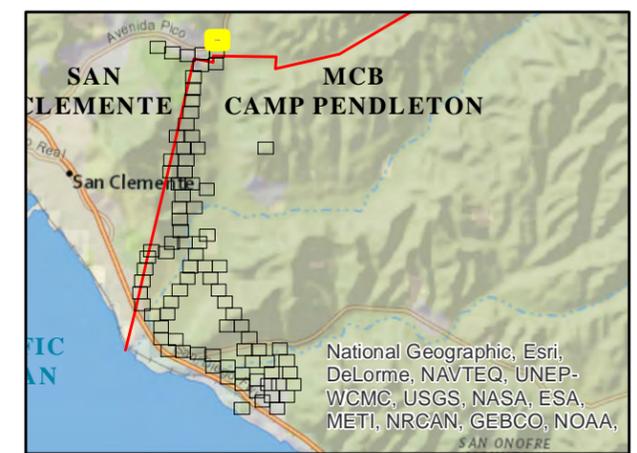
LEGEND

Access

- Non-TCM Road
- Project Study Area

Vegetation Type

- Coast Live Oak Woodland
- Disturbed Habitat
- Non-native Grassland
- Urban/Developed



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Urban/Developed
- D Direct Bury
- P Pier Foundation
- PR
- R Remove From Service

Project Features

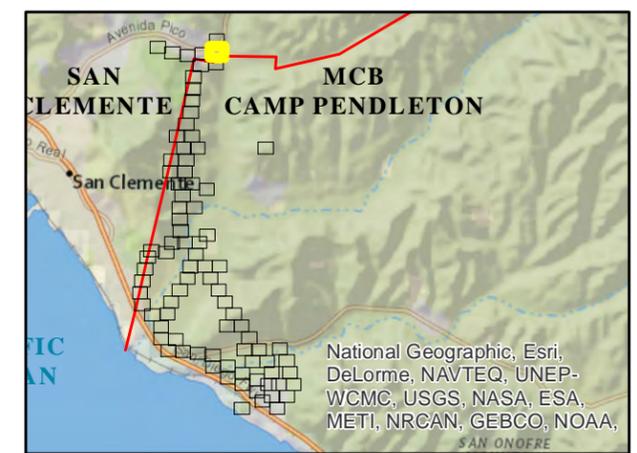
- Overhead Route
- Distribution Connection

Access

- Non-TCM Road
- Access Road
- Stringing Site
- Project Study Area

Vegetation Type

- Coast Live Oak Woodland
- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland

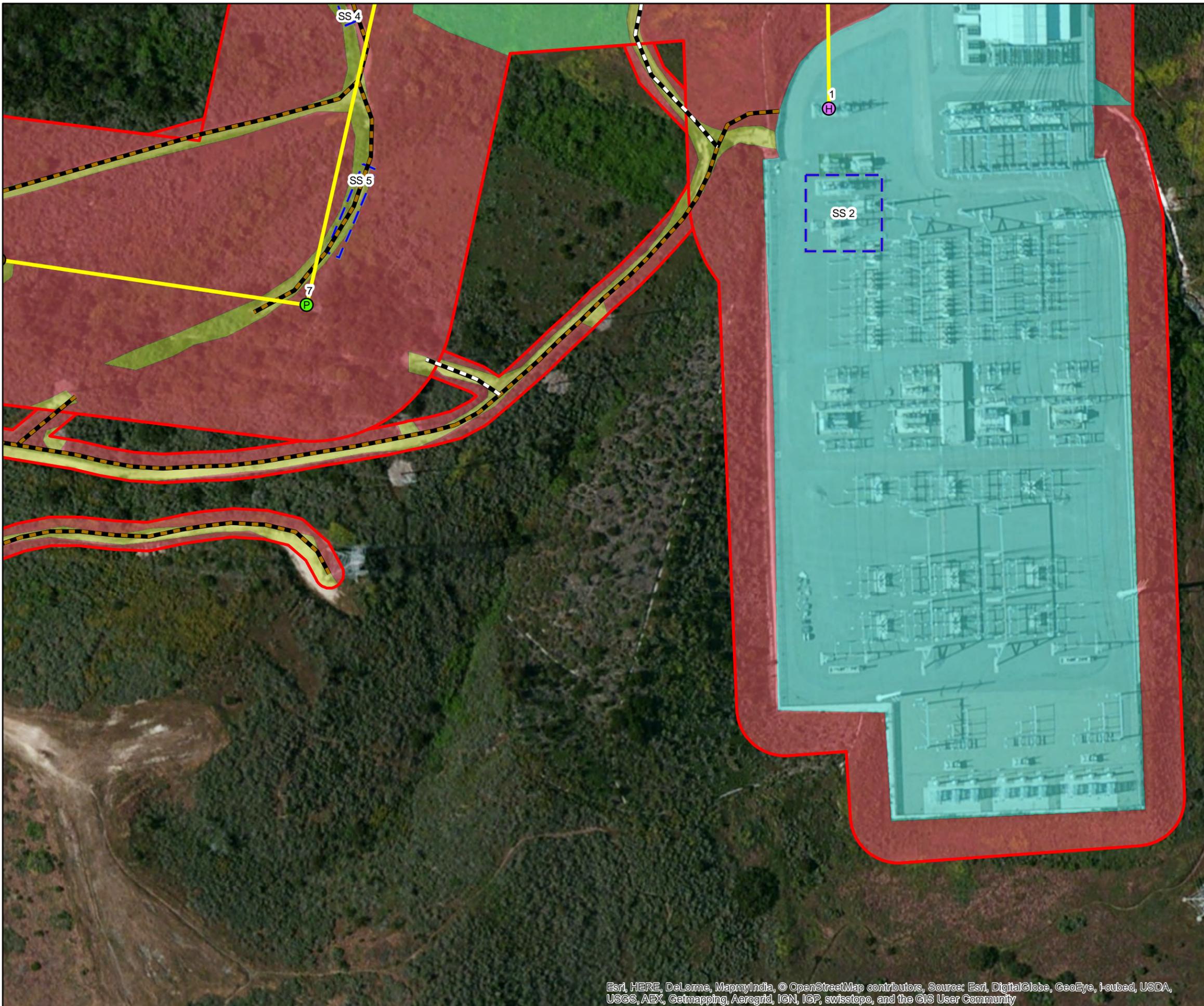


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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury
- Overhead Work
- Pier Foundation

Project Features

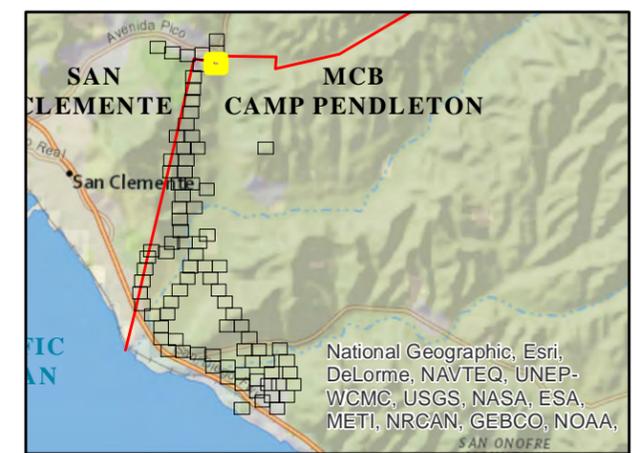
- Overhead Route

Access

- Non-TCM Road
- Access Road
- Stringing Site
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland
- Urban/Developed



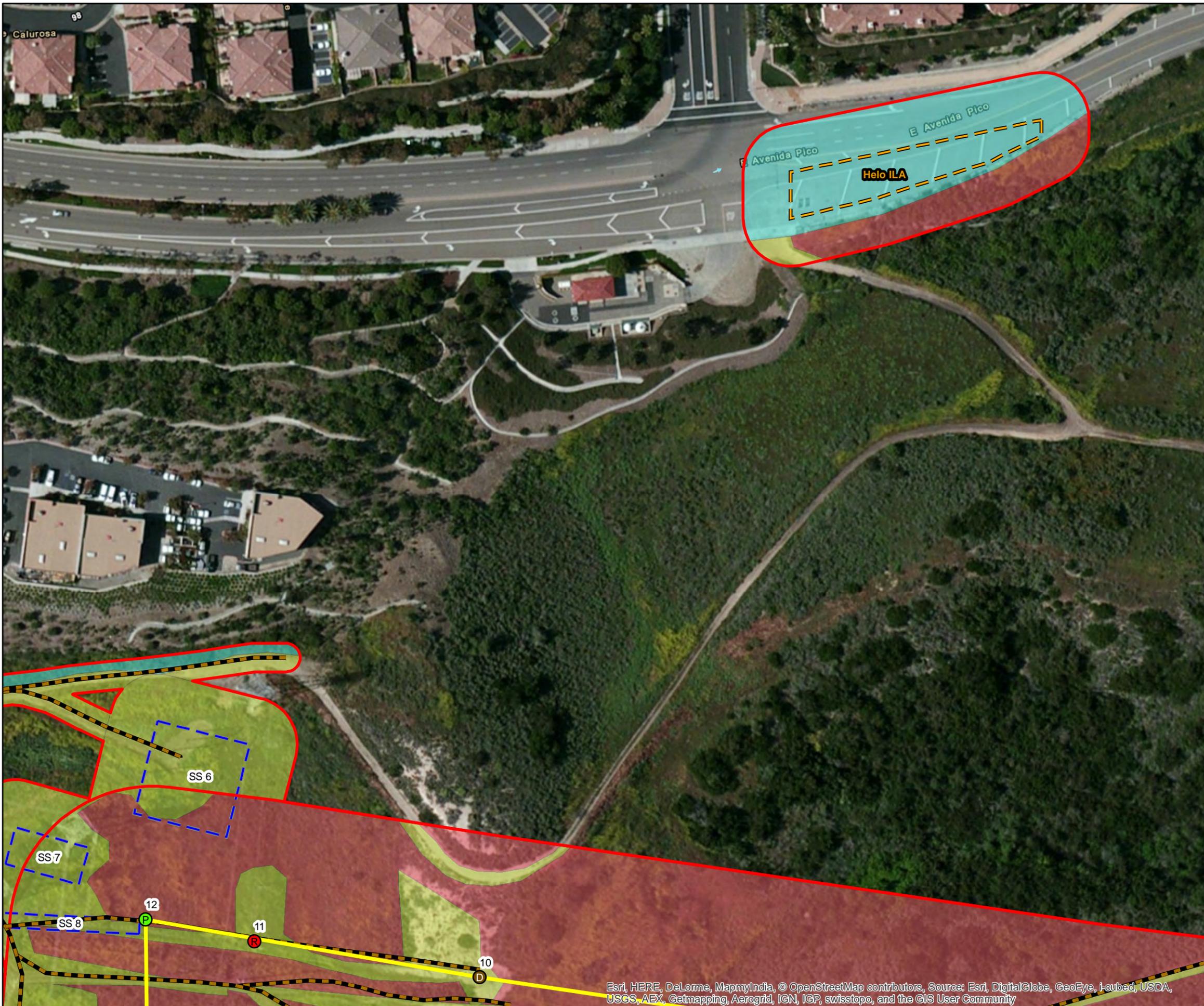
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 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury
- Pier Foundation
- Remove From Service

Project Features

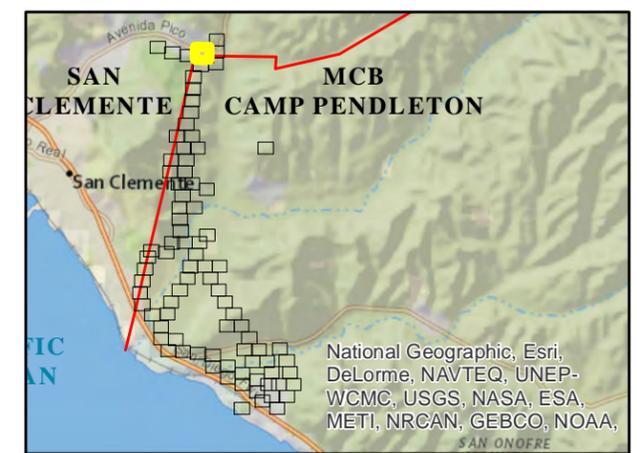
- Overhead Route

Access

- Access Road
- Access Road
- Stringing Site
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Urban/Developed



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury
- Direct Bury Multiple
- Remove From Service

Project Features

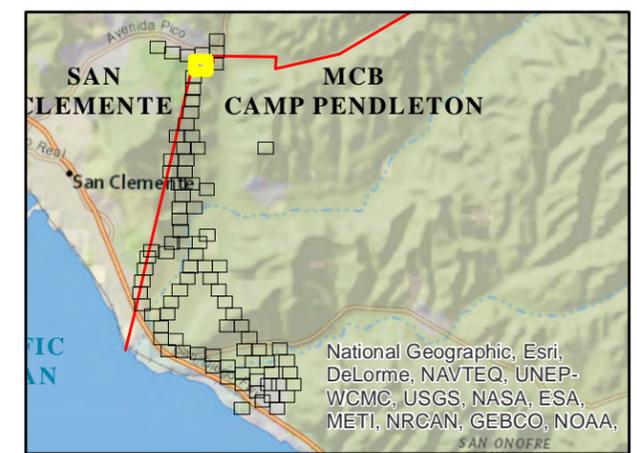
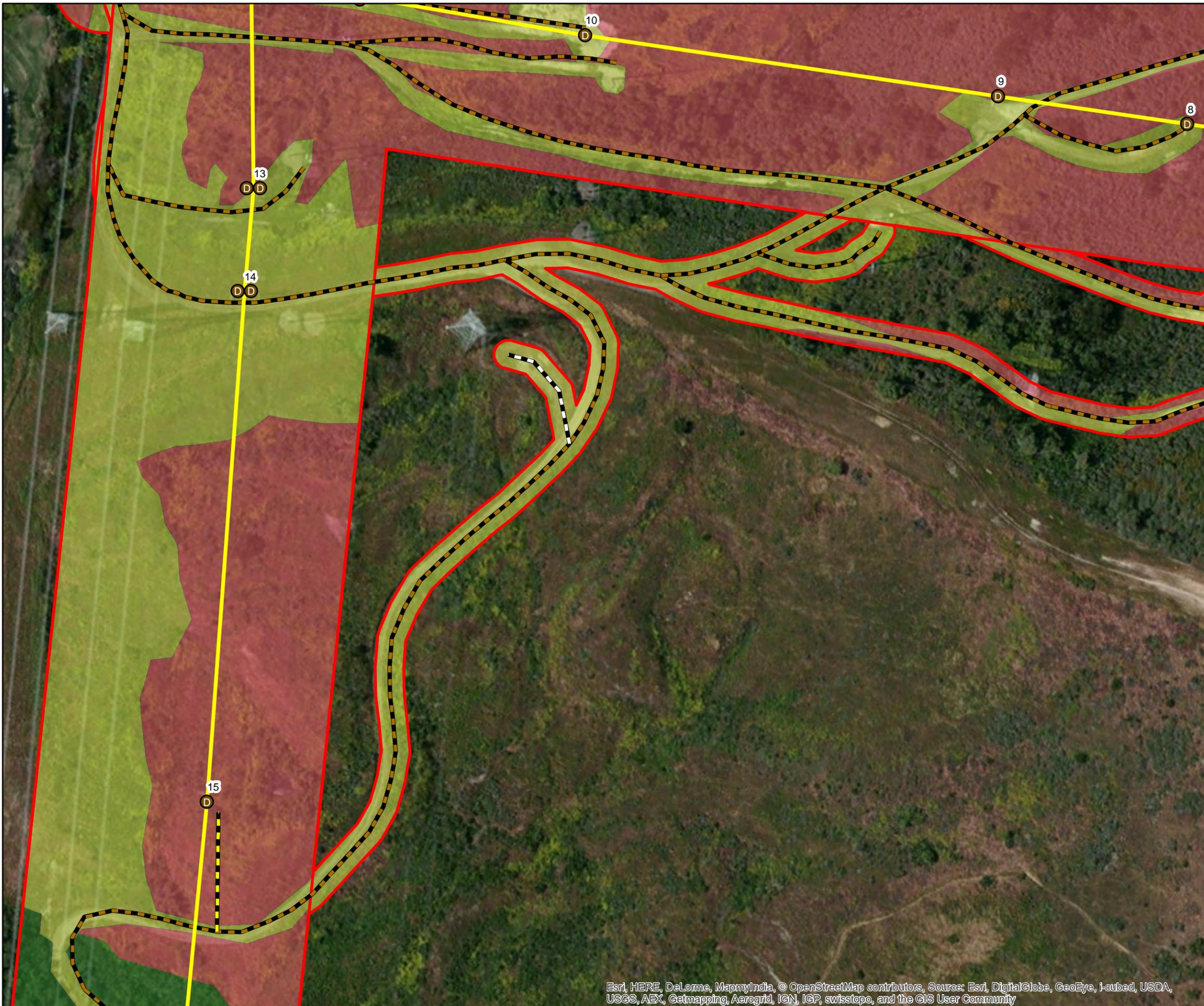
- Overhead Route

Access

- Non-TCM Road
- Footpath
- Access Road
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Southern Willow Scrub



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



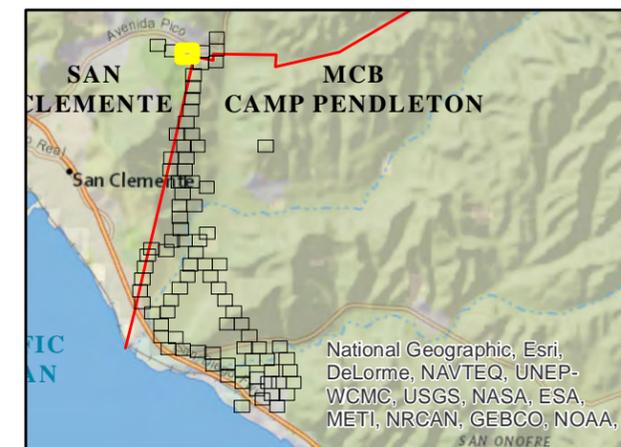
LEGEND

Access

- Non-TCM Road
- Access Road
- Access Road
- Stringing Site
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Urban/Developed



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



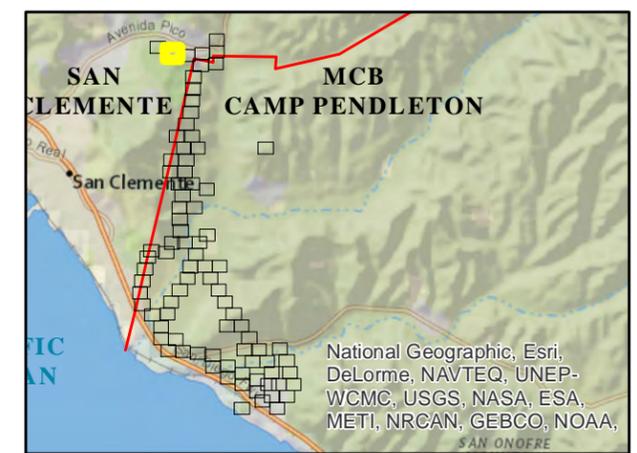
LEGEND

Access

- Non-TCM Road
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



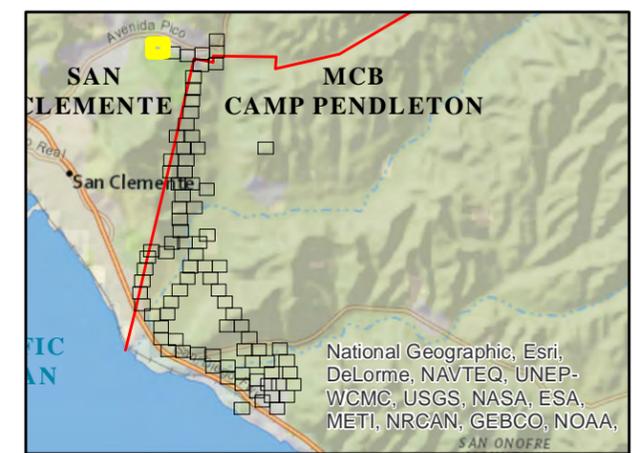
LEGEND

Access

- Access Road (dashed black line)
- Access Road (dashed black line)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (pink)
- Disturbed Habitat (yellow)
- Urban/Developed (cyan)



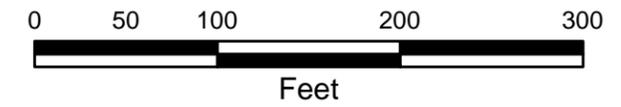
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 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury
- Direct Bury Multiple

Project Features

- Overhead Route

Access

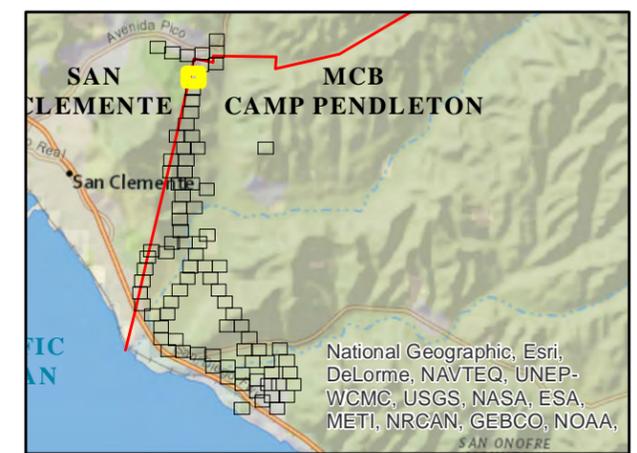
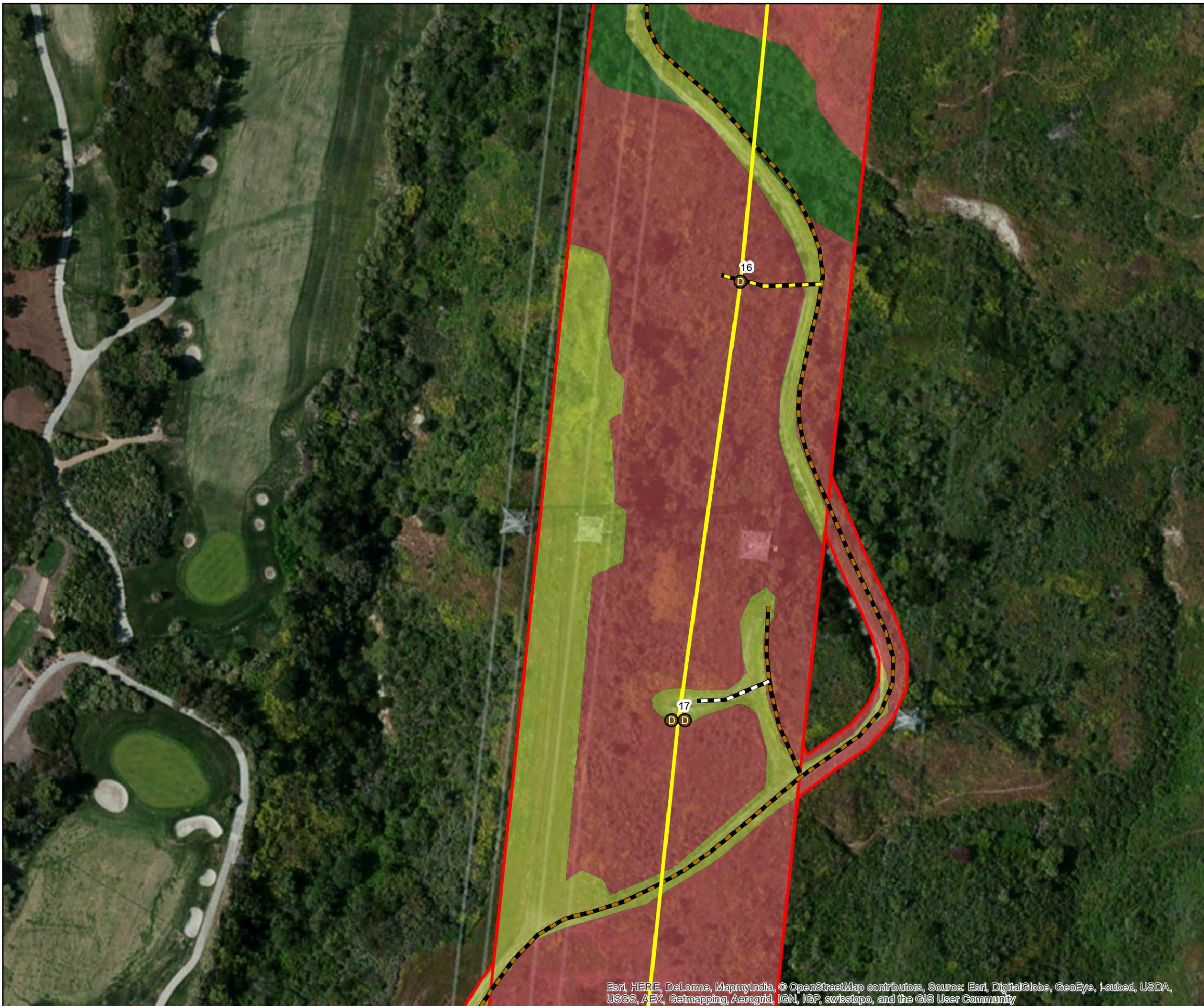
- Non-TCM Road
- Footpath
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Southern Willow Scrub



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

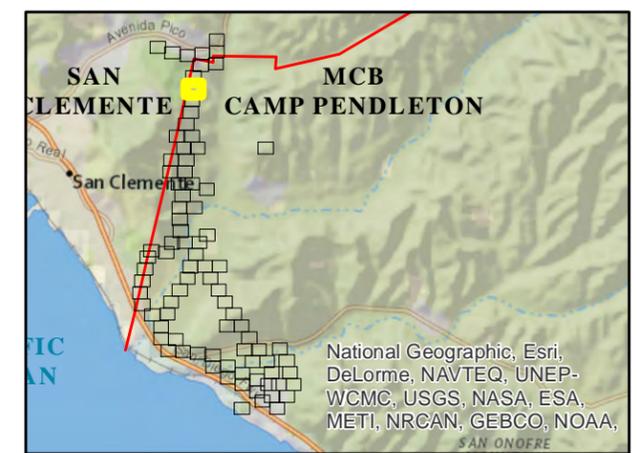
Project Utility Poles
 Direct Bury Multiple

Project Features
 Overhead Route

Access
 Non-TCM Road
 Access Road

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- DD Direct Bury Multiple
- R Remove From Service

Project Features

- Overhead Route

Access

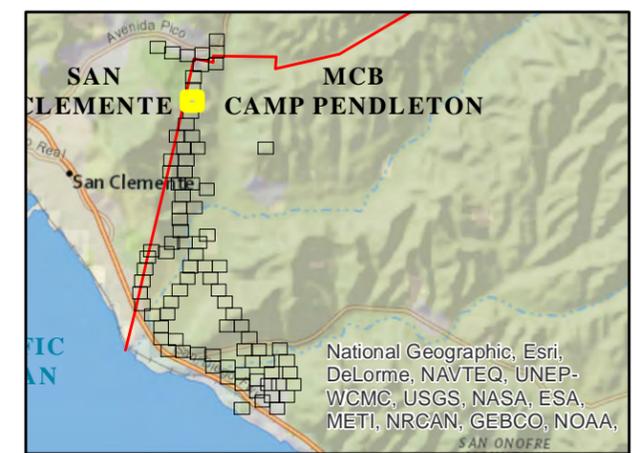
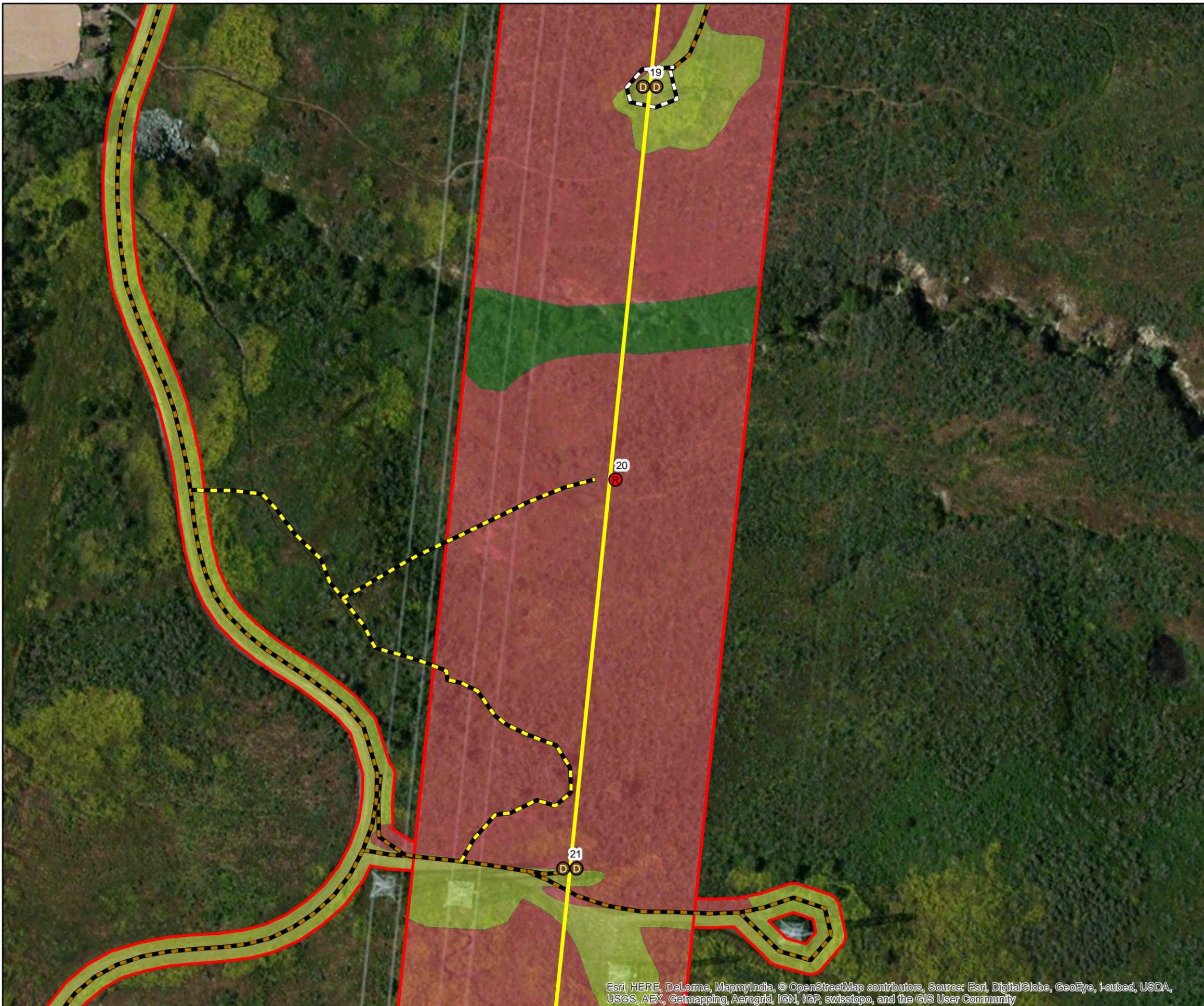
- Non-TCM Road
- Footpath
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Southern Willow Scrub



Created By Pangea Biological, June 2016
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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

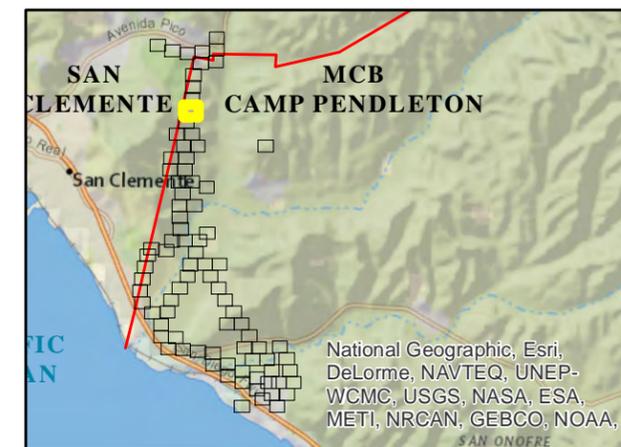
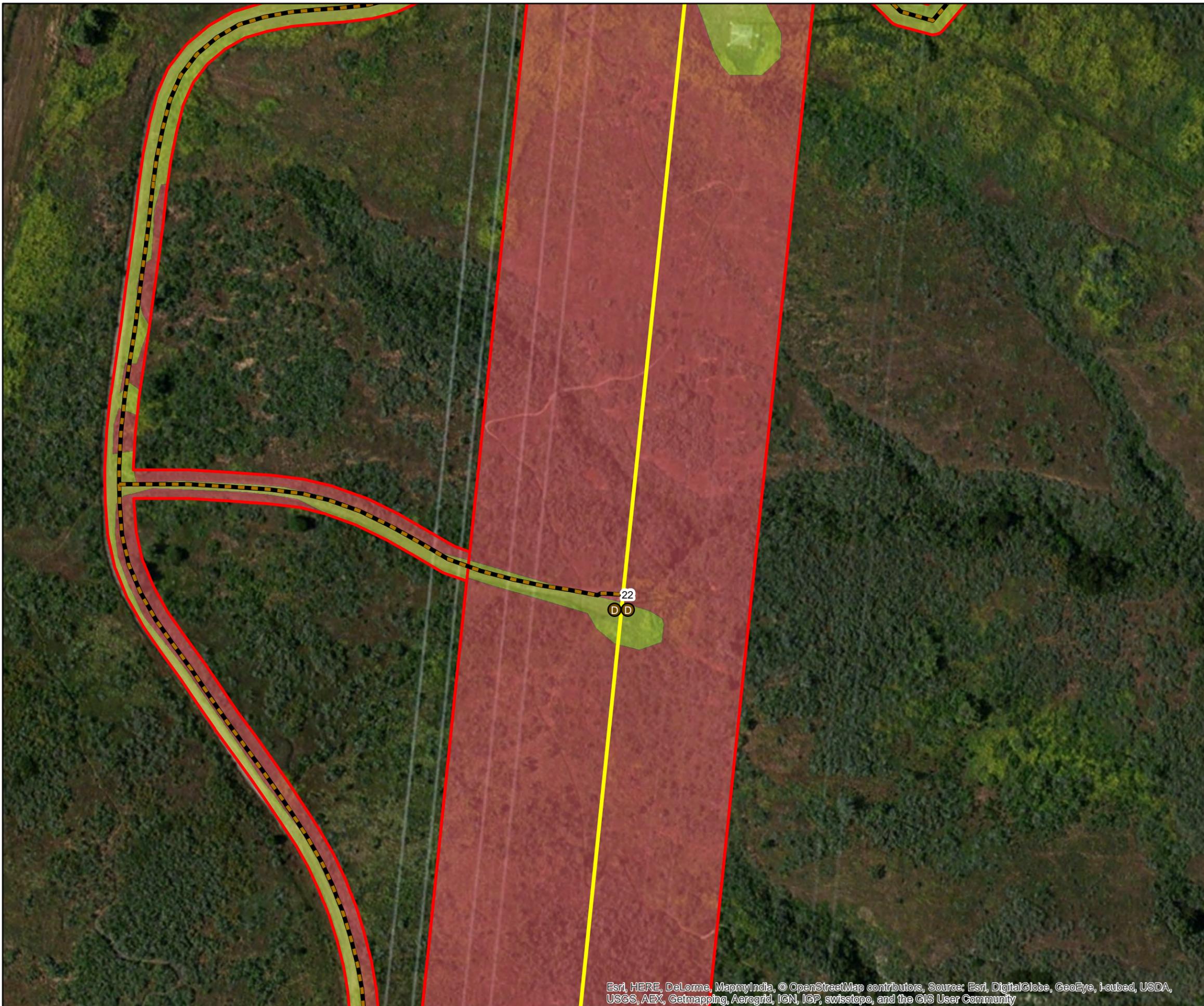
Project Utility Poles
 DD Direct Bury Multiple

Project Features
 Overhead Route

Access
 Access Road

Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles
 DD Direct Bury Multiple

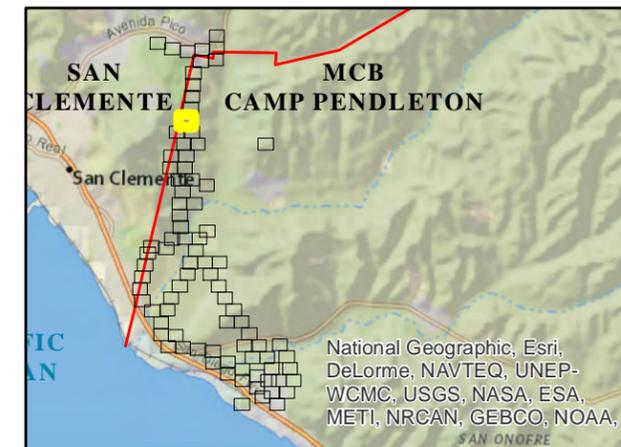
Project Features
 Overhead Route

Access
 Non-TCM Road
 Access Road

Work/Staging/Turnaround Area
 Work/Staging/Turnaround Area

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat



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LEGEND

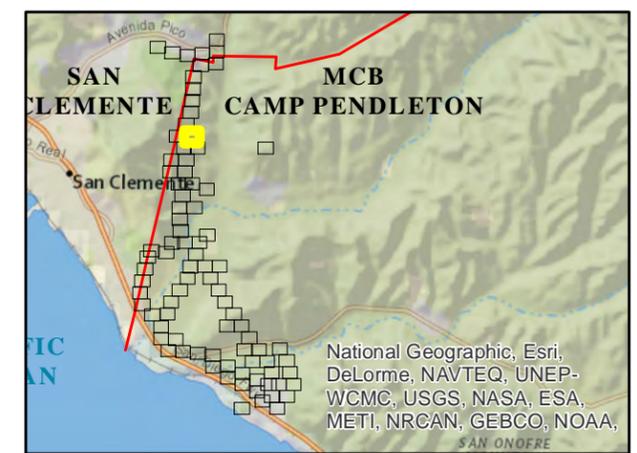
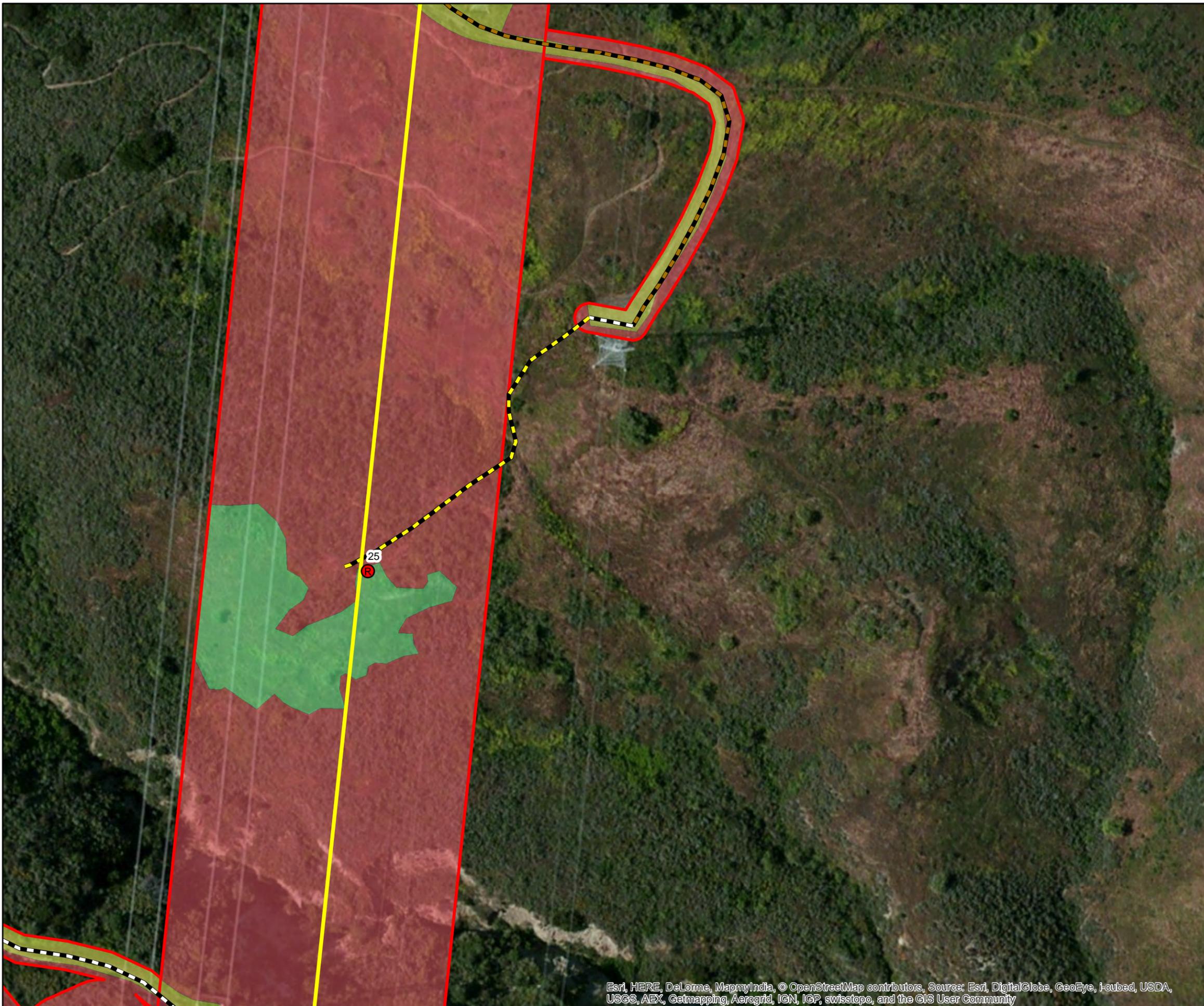
Project Utility Poles
 (R) Remove From Service

Project Features
 Overhead Route

Access
 Non-TCM Road
 Footpath
 Access Road

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Non-native Grassland



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 Data Source: SDG&E
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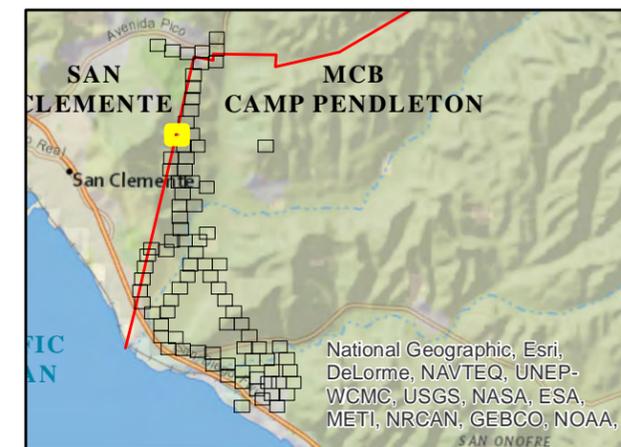
LEGEND

Access

- Non-TCM Road
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat



Created By Pangea Biological, June 2016
Data Source: SDG&E
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Projection: Lambert Conformal Conic
Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

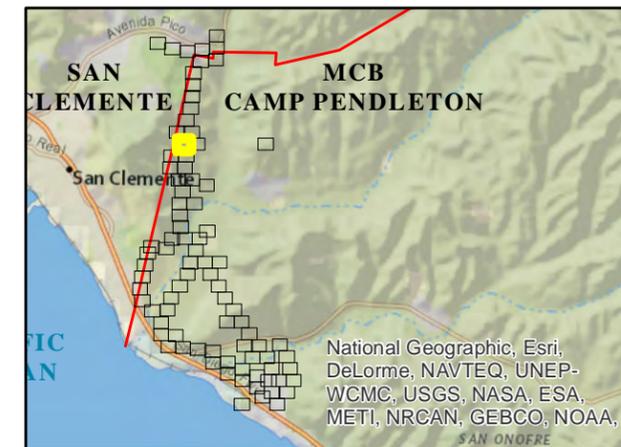
Project Utility Poles
 Direct Bury Multiple

Project Features
 Overhead Route

Access
 Non-TCM Road
 Access Road
 Work/Staging/Turnaround Area

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat



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 Datum: North American 1983



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Reconductor Project
Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Access

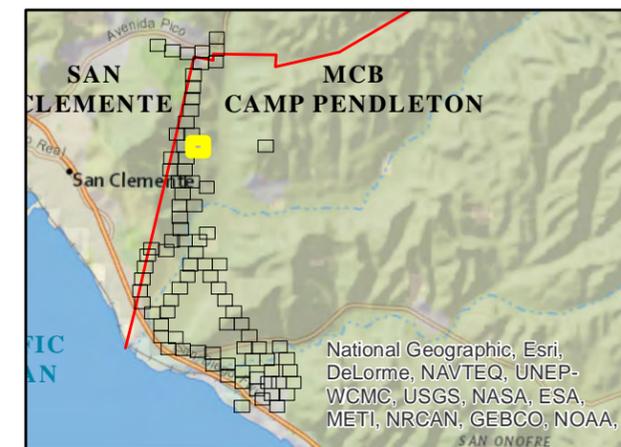
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat



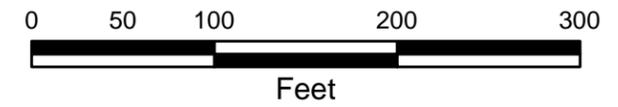
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Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



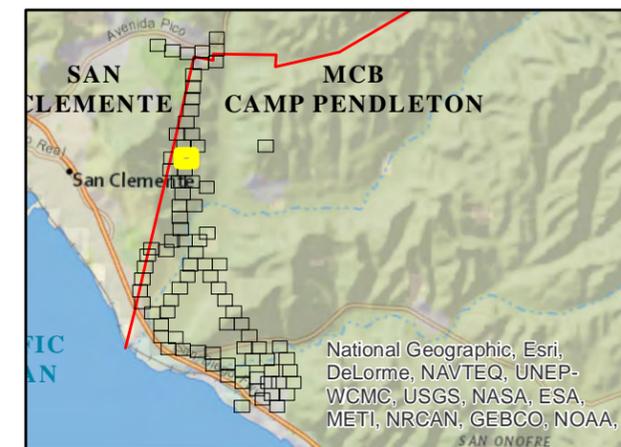
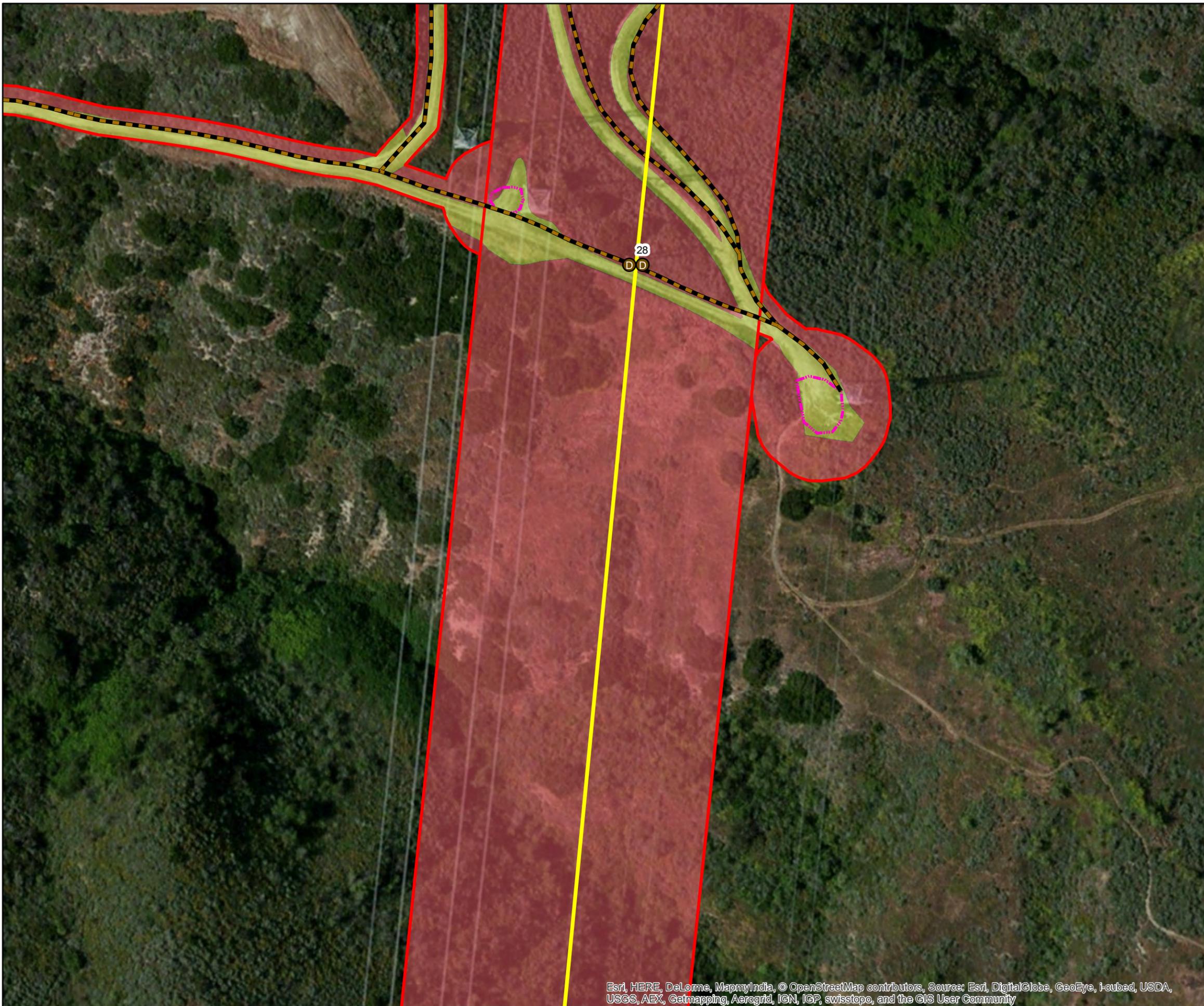
LEGEND

Project Utility Poles
 Direct Bury Multiple

Project Features
 Overhead Route

Access
 Access Road
 Work/Staging/Turnaround Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat



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 Datum: North American 1983



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Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



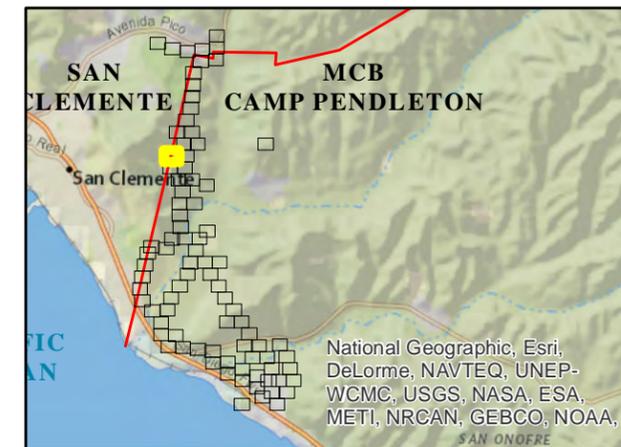
LEGEND

Access

- Access Road
- Work/Staging/Turnaround Area
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat



Created By Pangea Biological, June 2016
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Projection: Lambert Conformal Conic
Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury
- Direct Bury Multiple

Project Features

- Overhead Route

Access

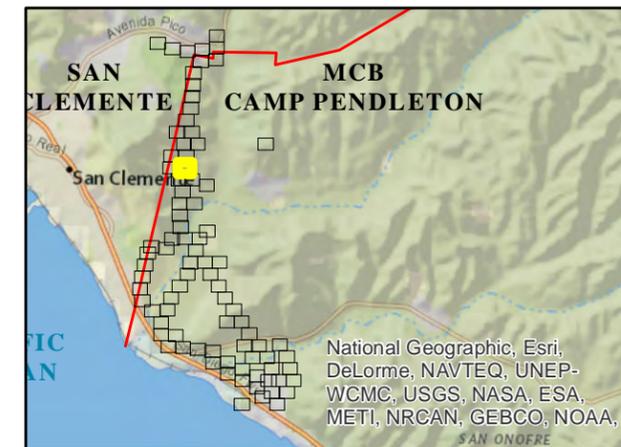
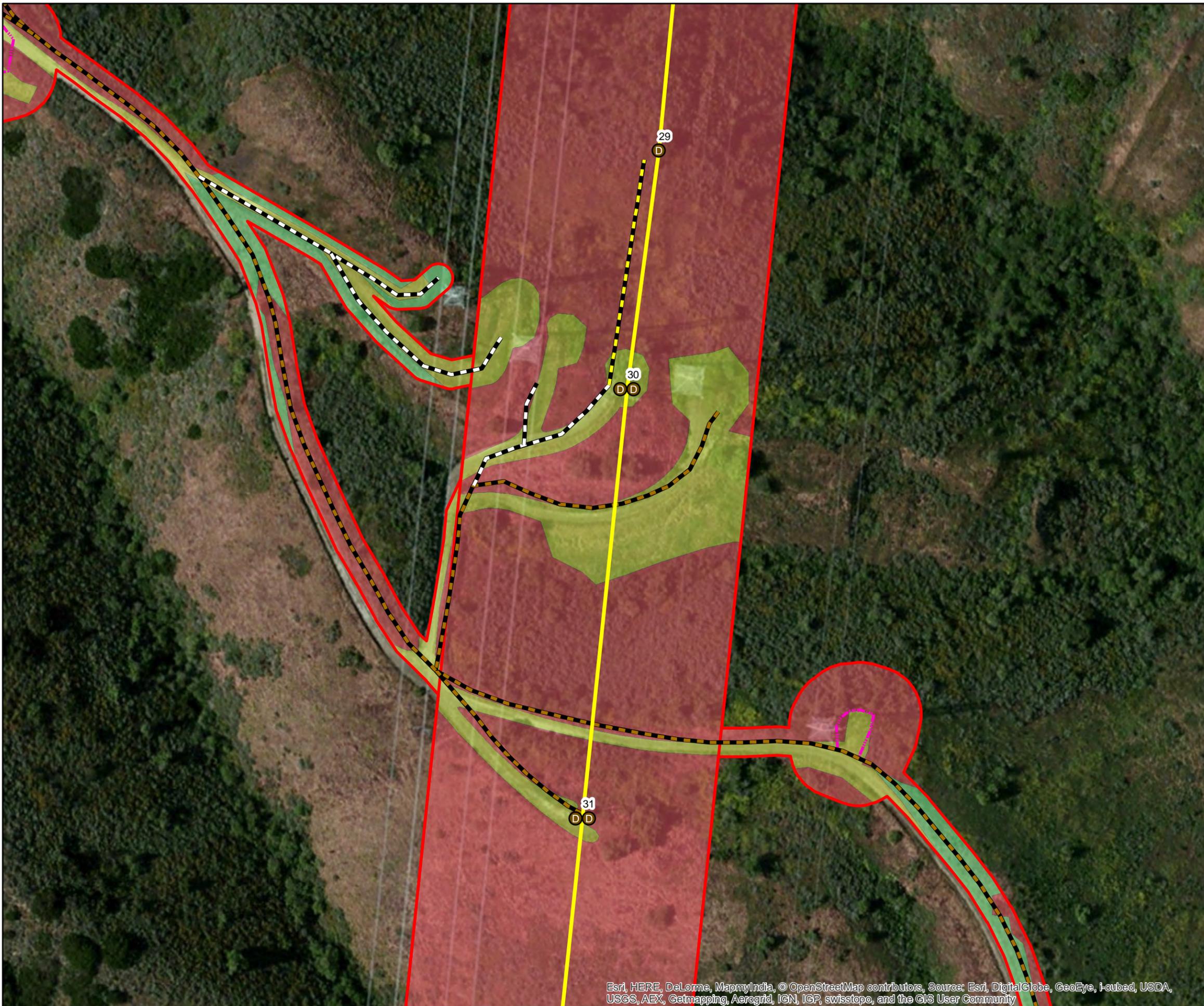
- Non-TCM Road
- Footpath
- Access Road

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland

Other Symbols:

- Work/Staging/Turnaround Area
- Project Study Area



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 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



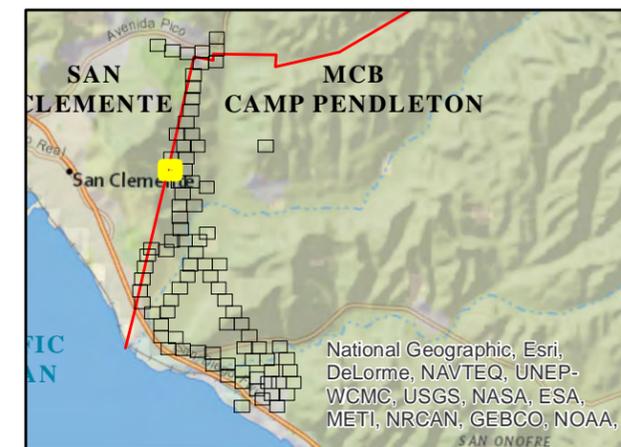
LEGEND

Access

- Access Road
- Work/Staging/Turnaround Area
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

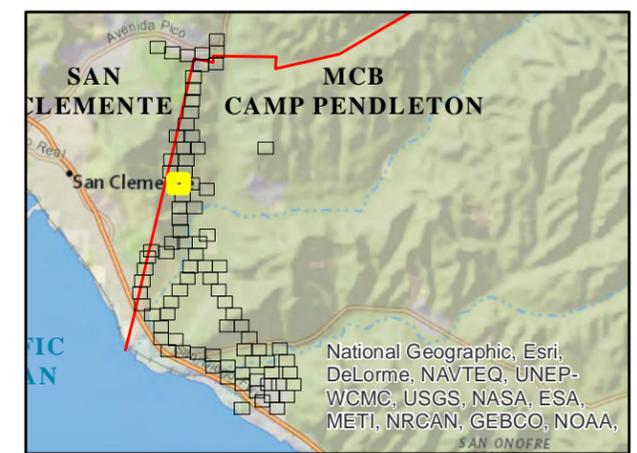
Project Utility Poles
 DD Direct Bury Multiple

Project Features
 Overhead Route

Access
 Non-TCM Road
 Access Road

Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



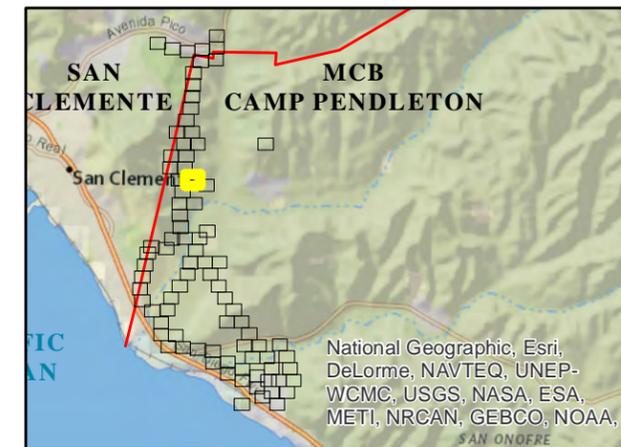
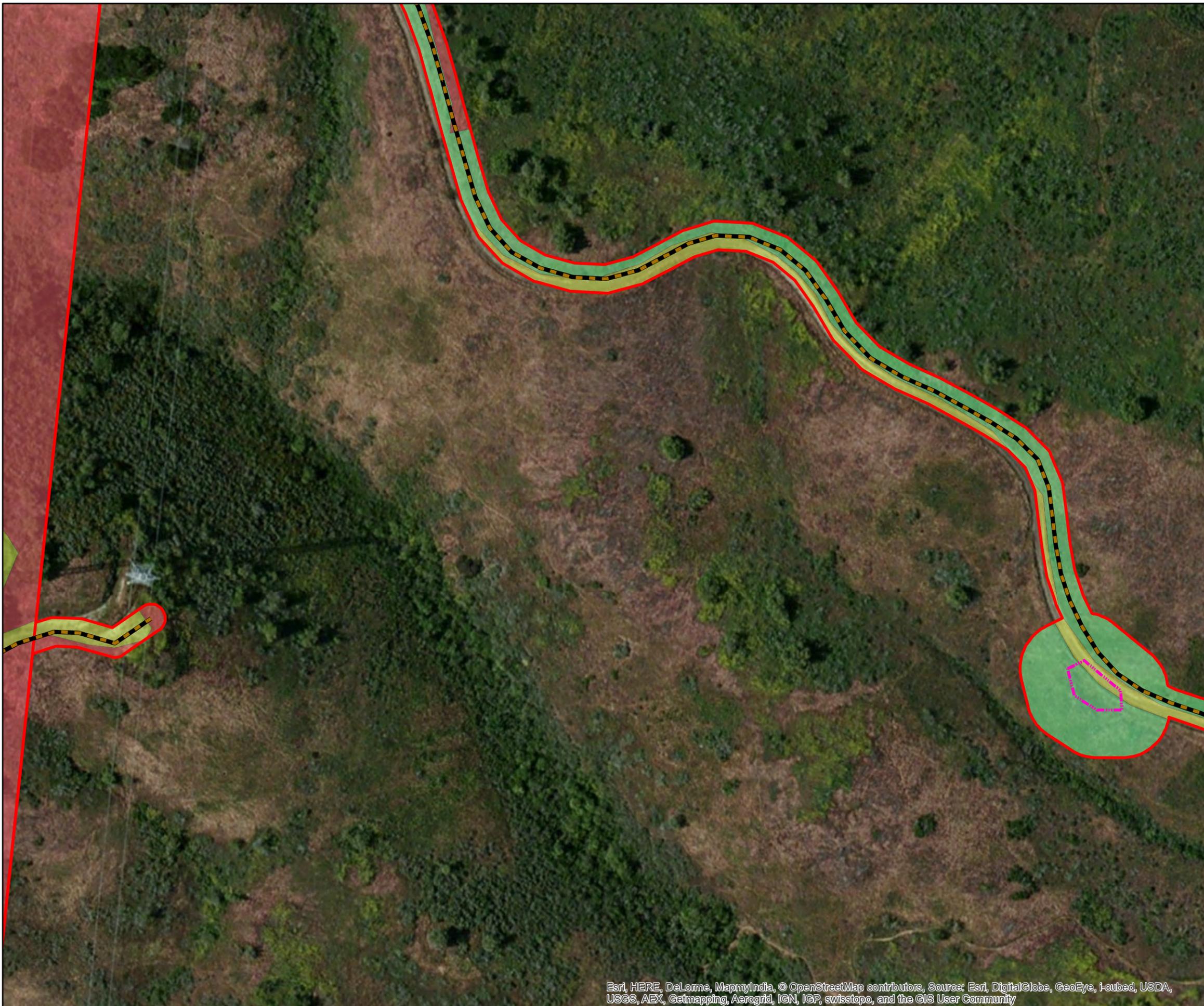
LEGEND

Access

- Access Road
- Work/Staging/Turnaround Area
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



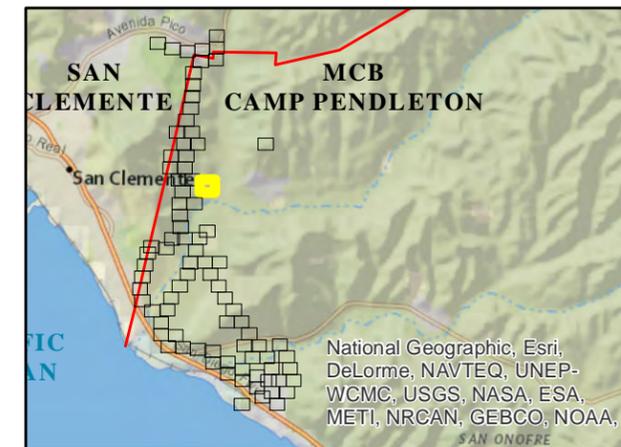
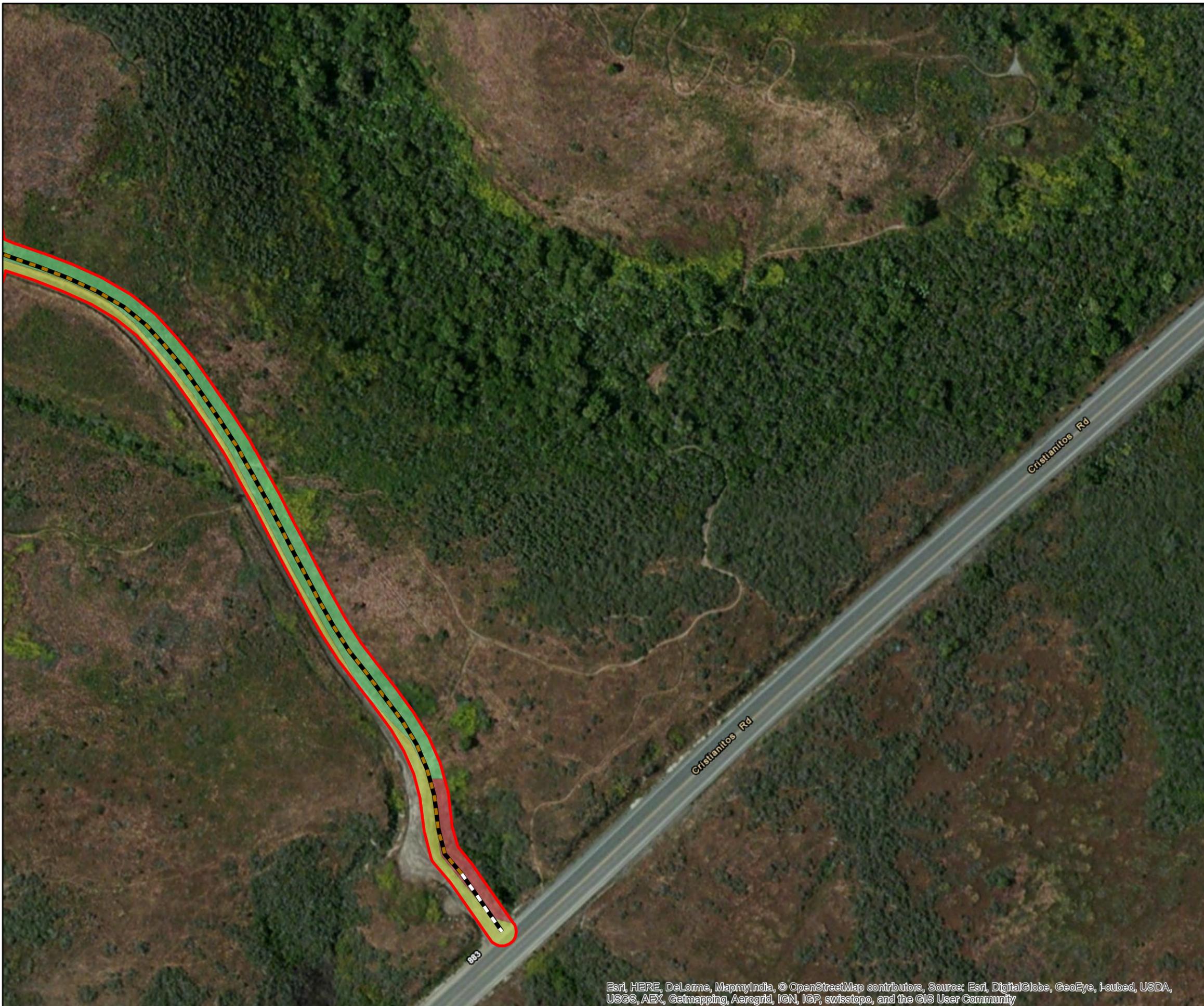
LEGEND

Access

- Non-TCM Road
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland



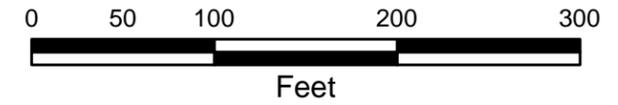
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 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles
 DD Direct Bury Multiple

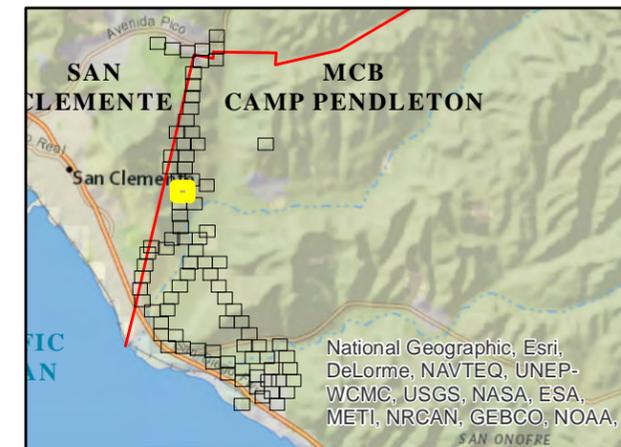
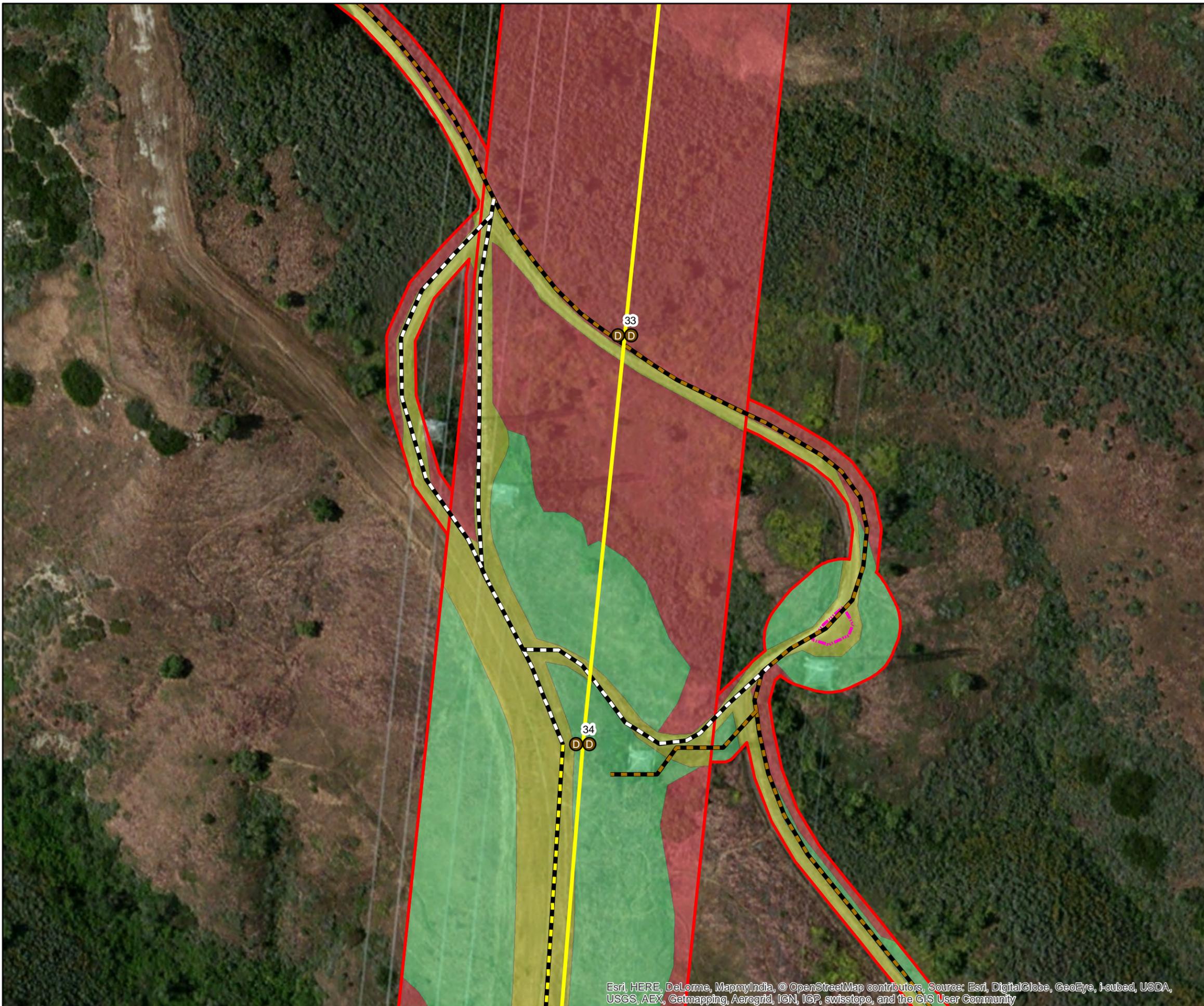
Project Features
 Overhead Route

Access
 Non-TCM Road
 Footpath
 Access Road

Work/Staging/
 Turnaround Area

Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Non-native Grassland



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury
- Remove From Service

Project Features

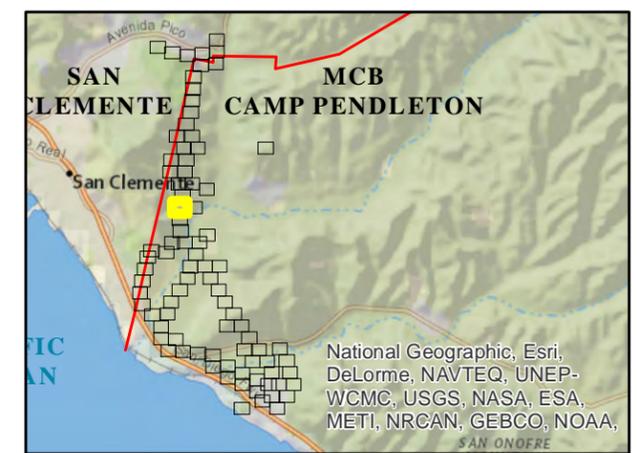
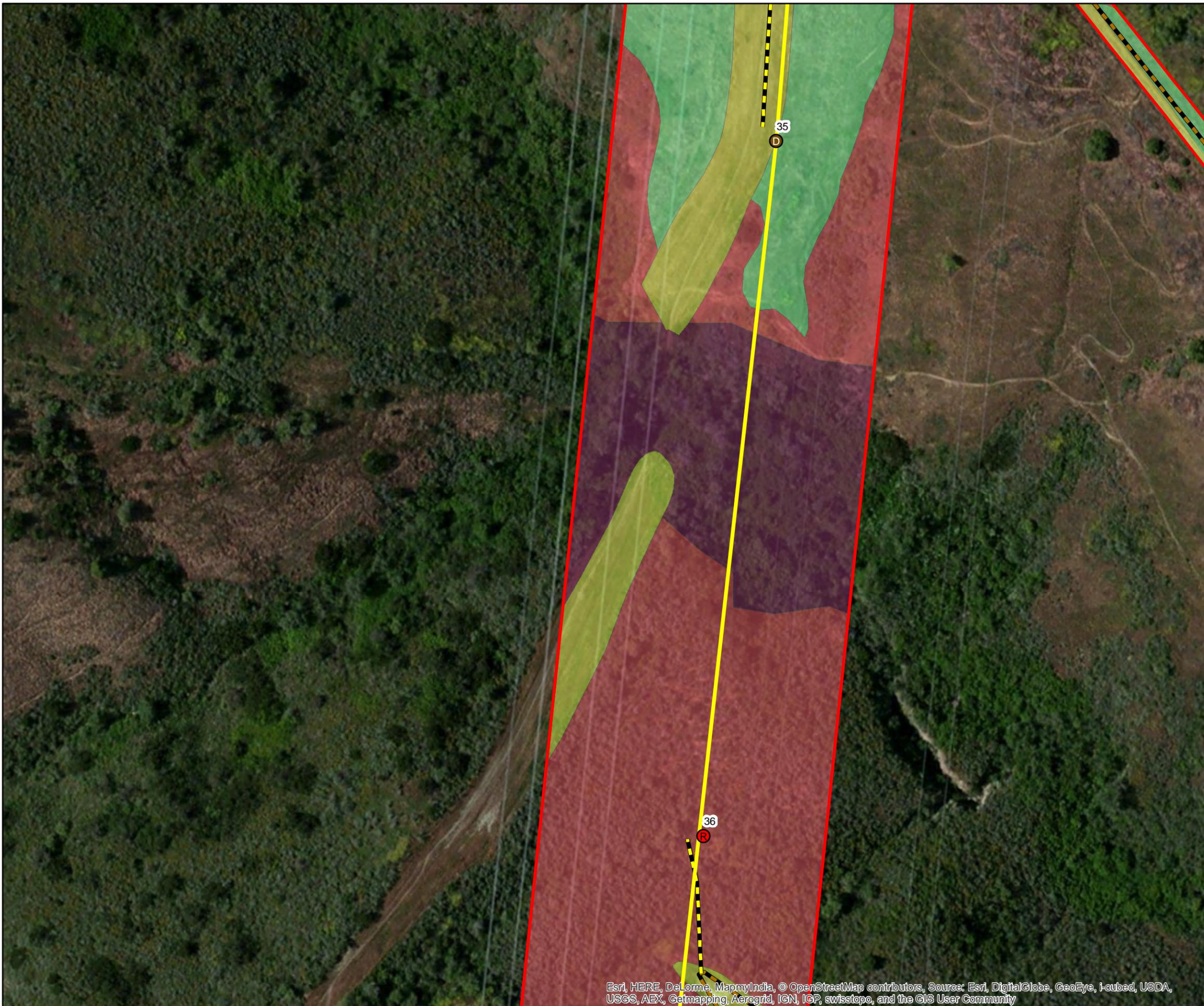
- Overhead Route

Access

- Footpath
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland
- Southern Sycamore-Alder Riparian Woodland



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1 inch = 100 feet @11" x 17"



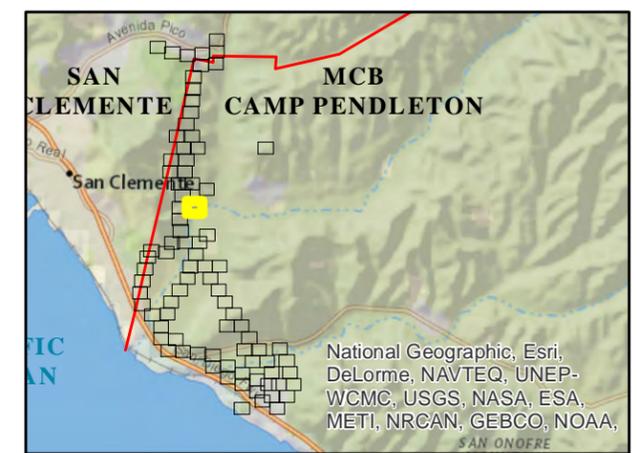
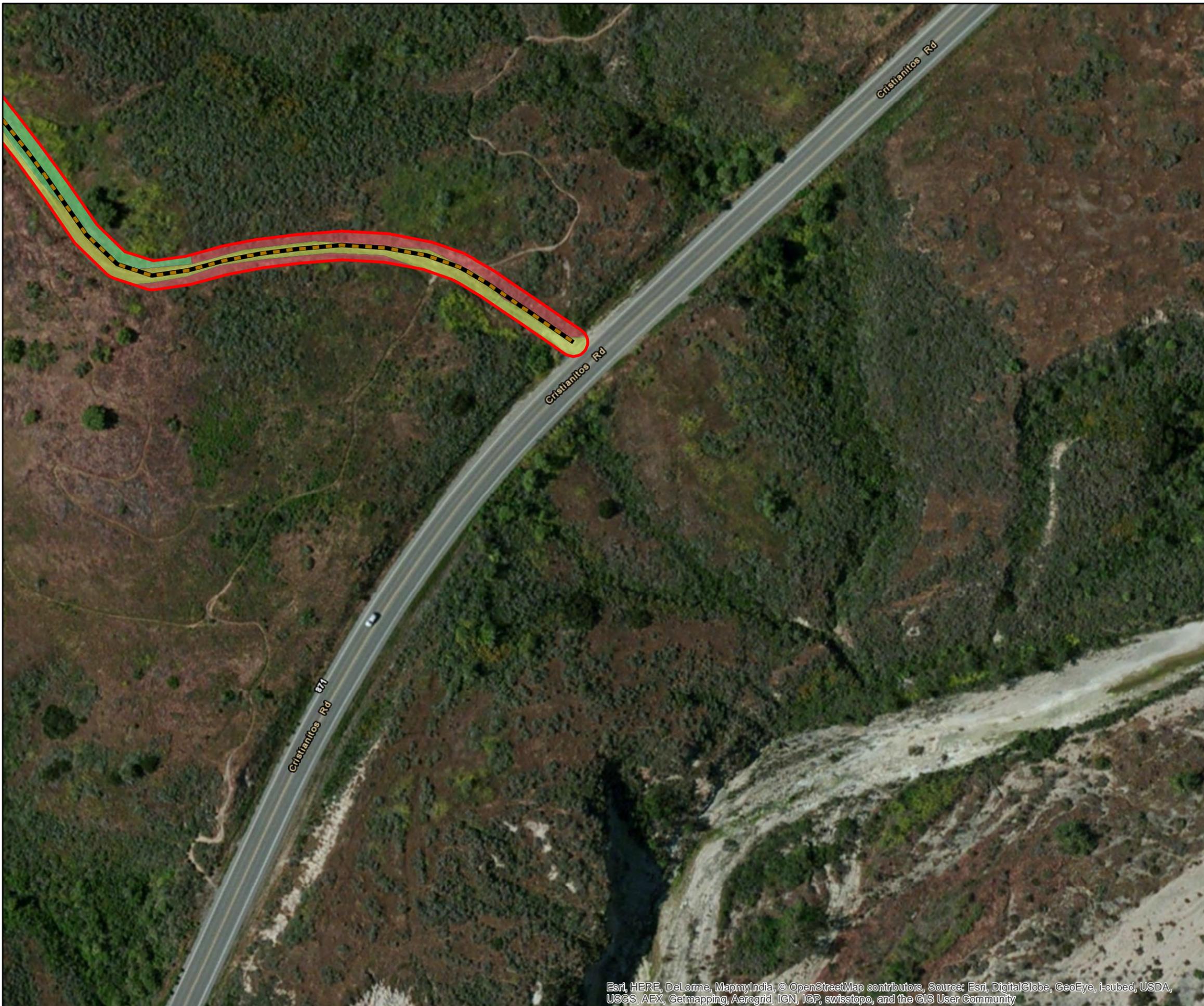
LEGEND

Access

- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland



Created By Pangea Biological, June 2016
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 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles
 DD Direct Bury Multiple

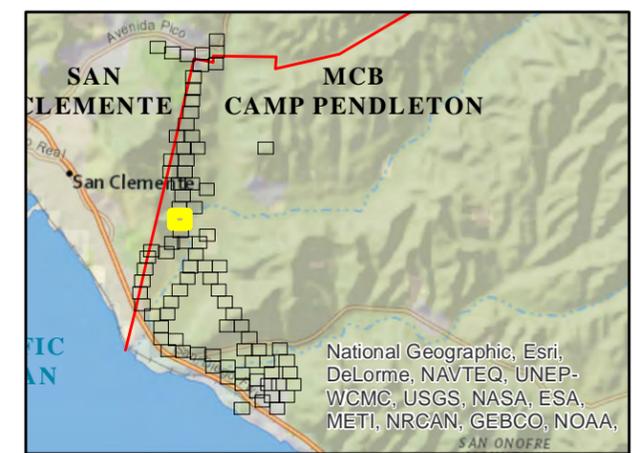
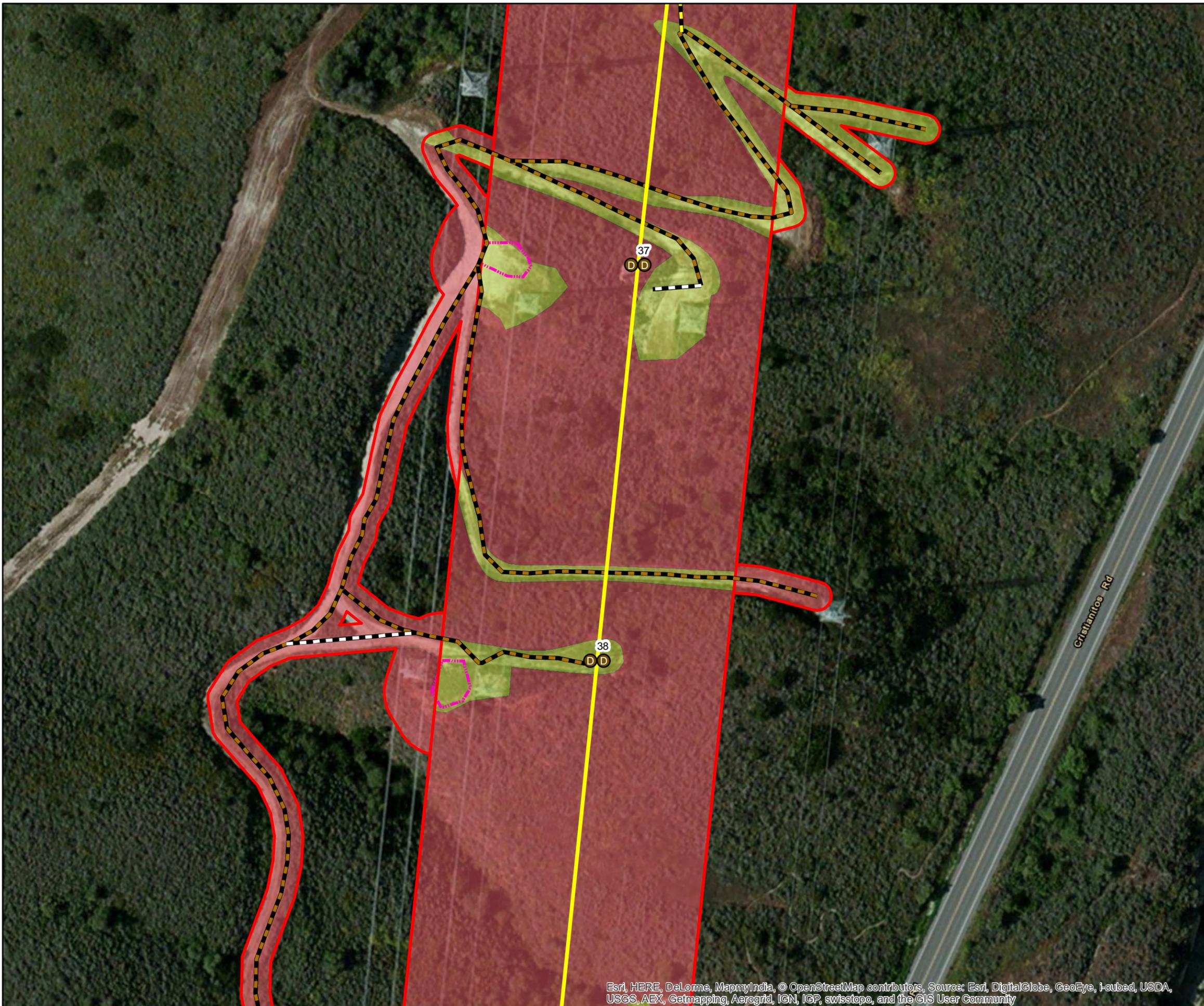
Project Features
 Overhead Route

Access
 Non-TCM Road
 Footpath
 Access Road

Work/Staging/Turnaround Area
 Work/Staging/Turnaround Area

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- DD Direct Bury Multiple
- PP Pier Foundation Multiple
- PR PR
- TT Guard Structure

Project Features

- Overhead Route
- Distribution Connection

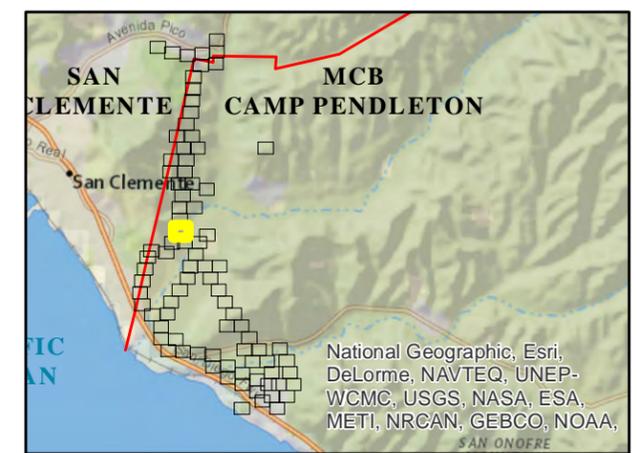
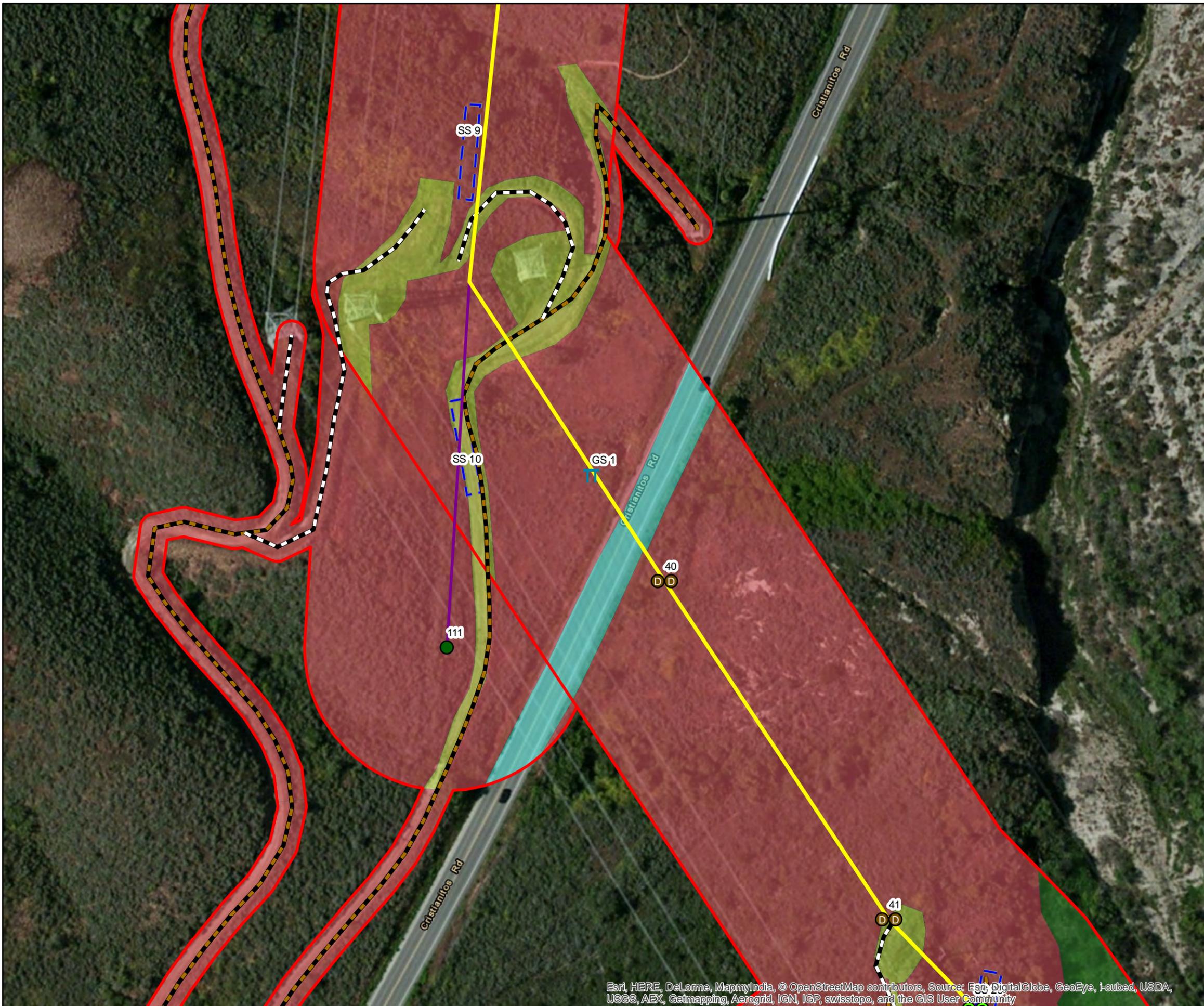
Access

- Non-TCM Road
- Access Road
- Access Road
- Stringing Site
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Southern Willow Scrub

Urban/Developed



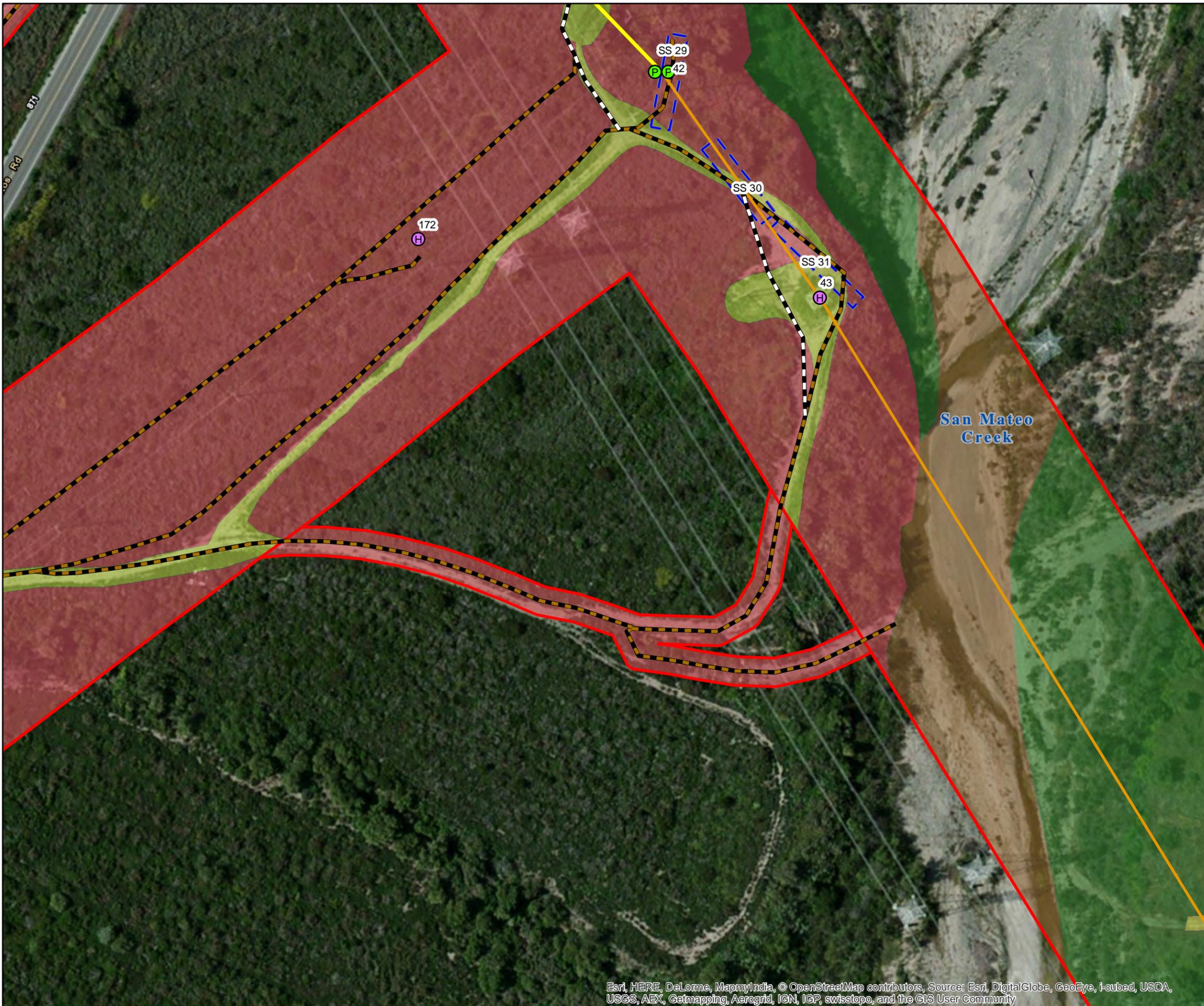
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 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work (H in purple circle)
- Pier Foundation Multiple (P in green circle)

Project Features

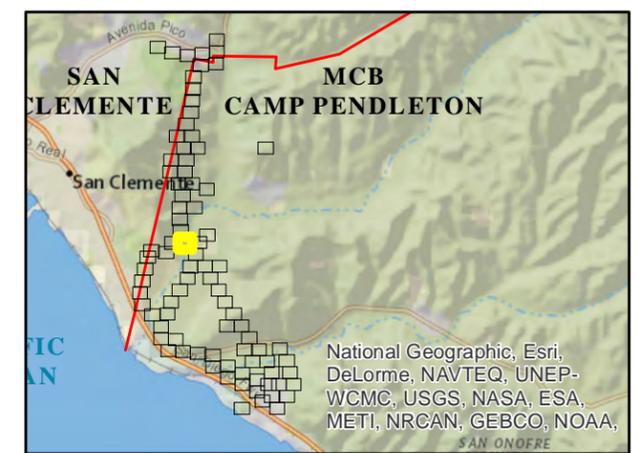
- Overhead Route (Yellow line)
- Proposed Overhead Route (Orange line)

Access

- Non-TCM Road (Black dashed line)
- Access Road (Black dashed line with yellow border)
- Stringing Site (Blue dashed line)
- Project Study Area (Red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (Pink)
- Disturbed Habitat (Light Green)
- Mulefat Scrub (Brown)
- Southern Willow Scrub (Dark Green)



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 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Features

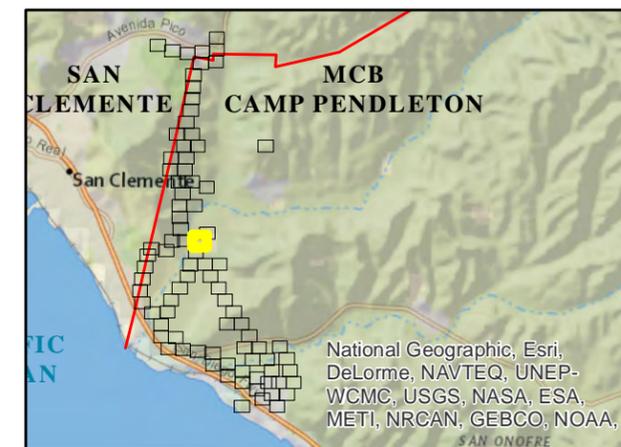
- Proposed Overhead Route

Access

- Non-TCM Road
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Southern Willow Scrub



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Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



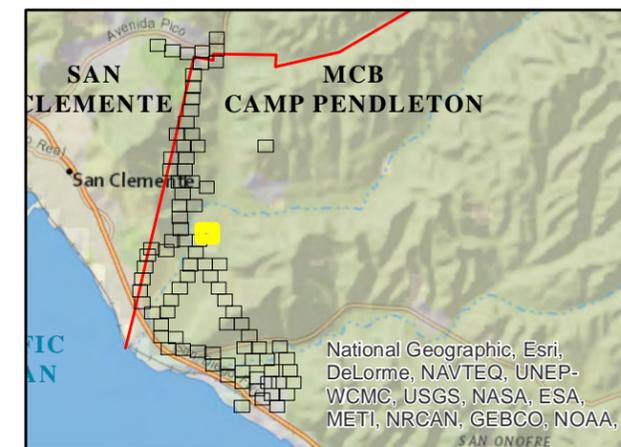
LEGEND

Access

- Access Road

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat



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Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work (Purple circle with 'H')
- PR (Green circle)

Project Features

- Proposed Overhead Route (Yellow line)

Access

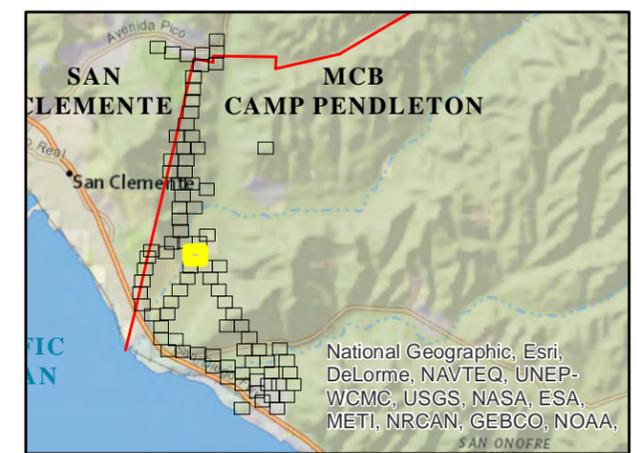
- Non-TCM Road (Black dashed line)
- Overland Travel (Blue dashed line)
- Access Road (Black dashed line with yellow border)

Project Study Area

- Project Study Area (Red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (Pink)
- Disturbed Habitat (Yellow)
- Mulefat Scrub (Brown)
- Southern Willow Scrub (Green)



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 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury (D)
- Overhead Work (H)
- PR (Green circle)

Project Features

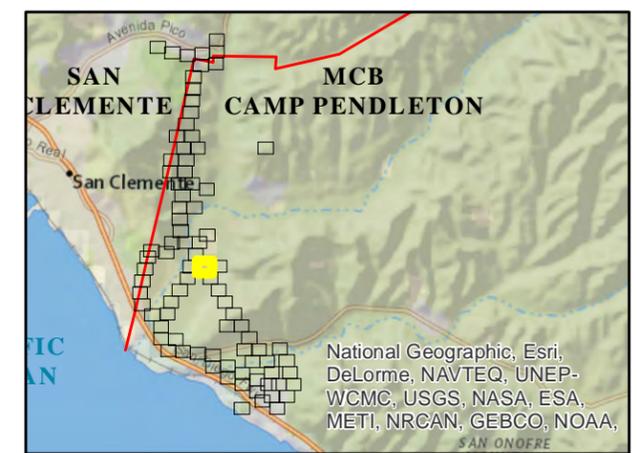
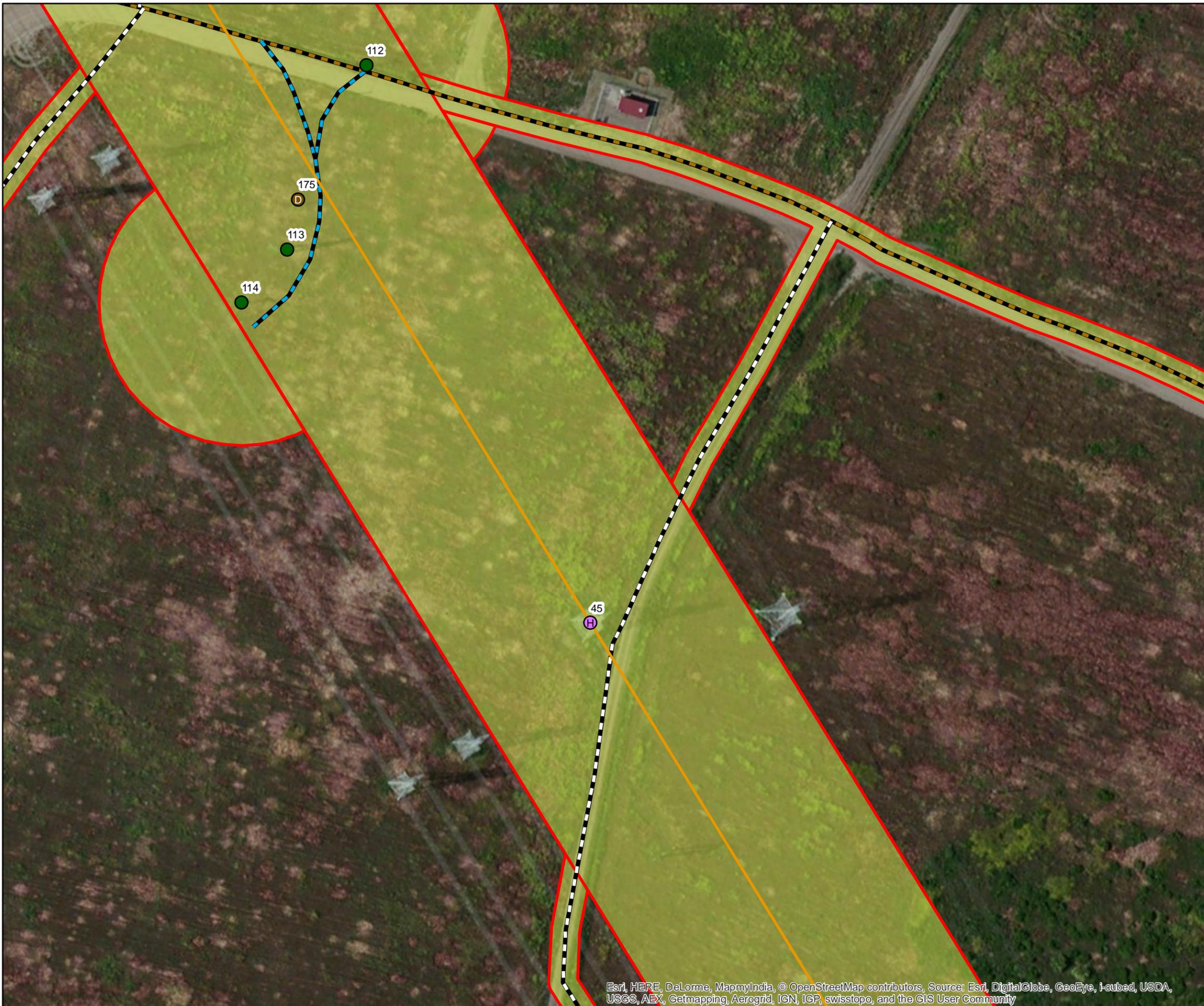
- Proposed Overhead Route (Orange line)

Access

- Non-TCM Road (Black dashed line)
- Overland Travel (Blue dashed line)
- Access Road (Black dashed line with yellow border)
- Project Study Area (Red outline)

Vegetation Type

- Disturbed Habitat (Light green fill)



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 Datum: North American 1983



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Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



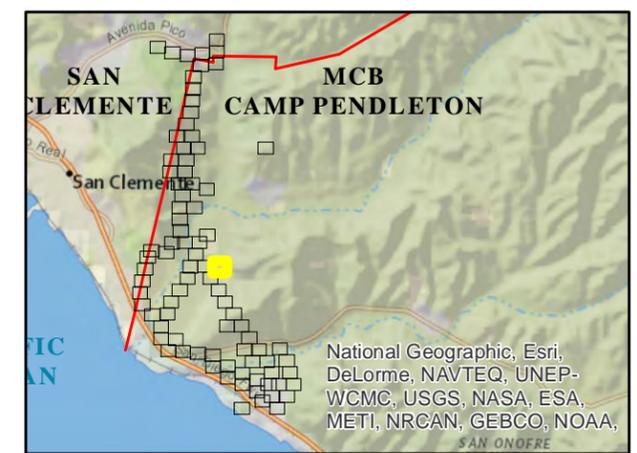
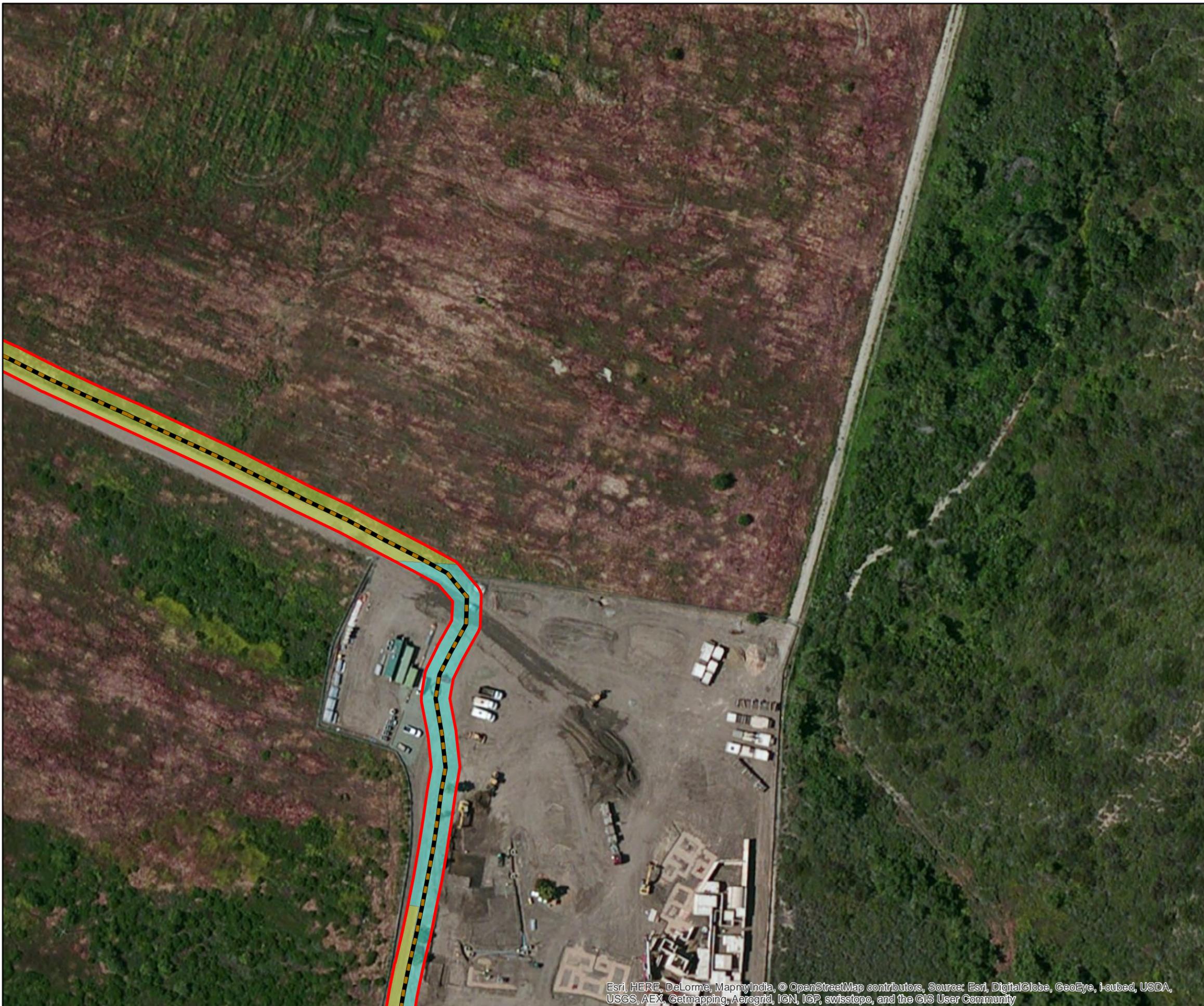
LEGEND

Access

- Access Road
- Project Study Area

Vegetation Type

- Disturbed Habitat
- Urban/Developed



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Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

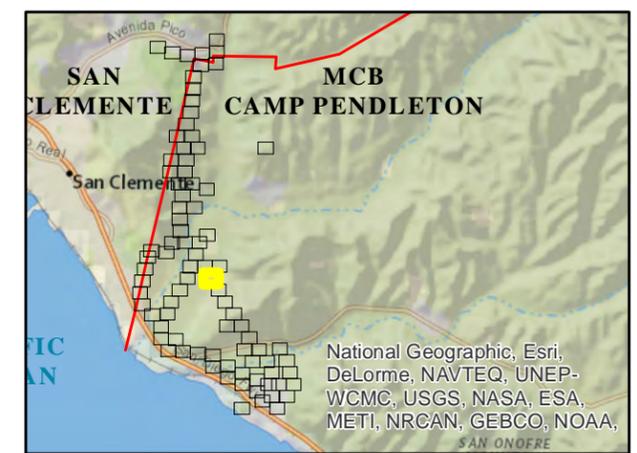
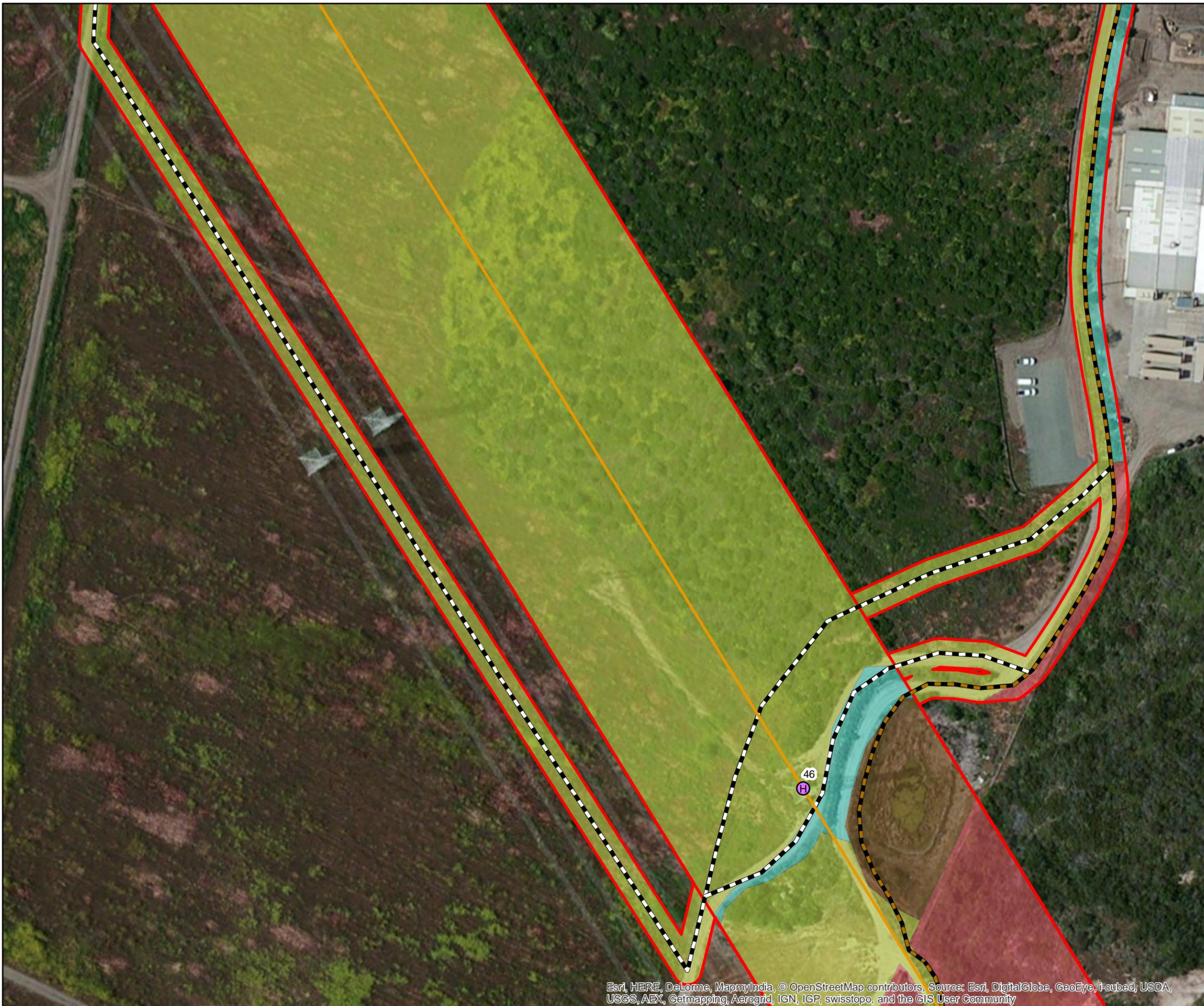
Project Utility Poles
 Overhead Work

Project Features
 Proposed Overhead Route

Access
 Non-TCM Road
 Access Road

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Mulefat Scrub
 Urban/Developed



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

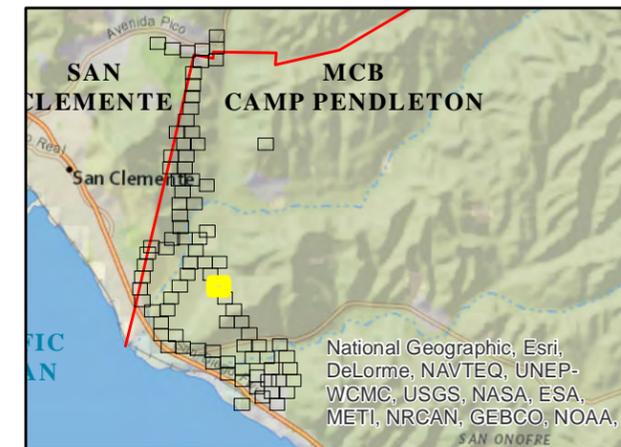
Project Utility Poles
 Overhead Work

Project Features
 Proposed Overhead Route

Access
 Non-TCM Road
 Access Road

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Urban/Developed



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1 inch = 100 feet @11" x 17"



LEGEND

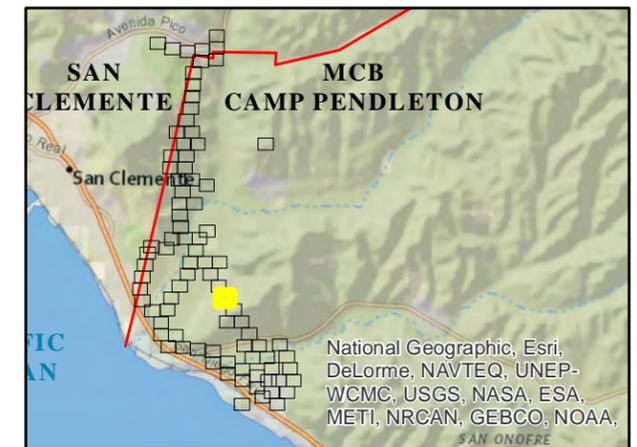
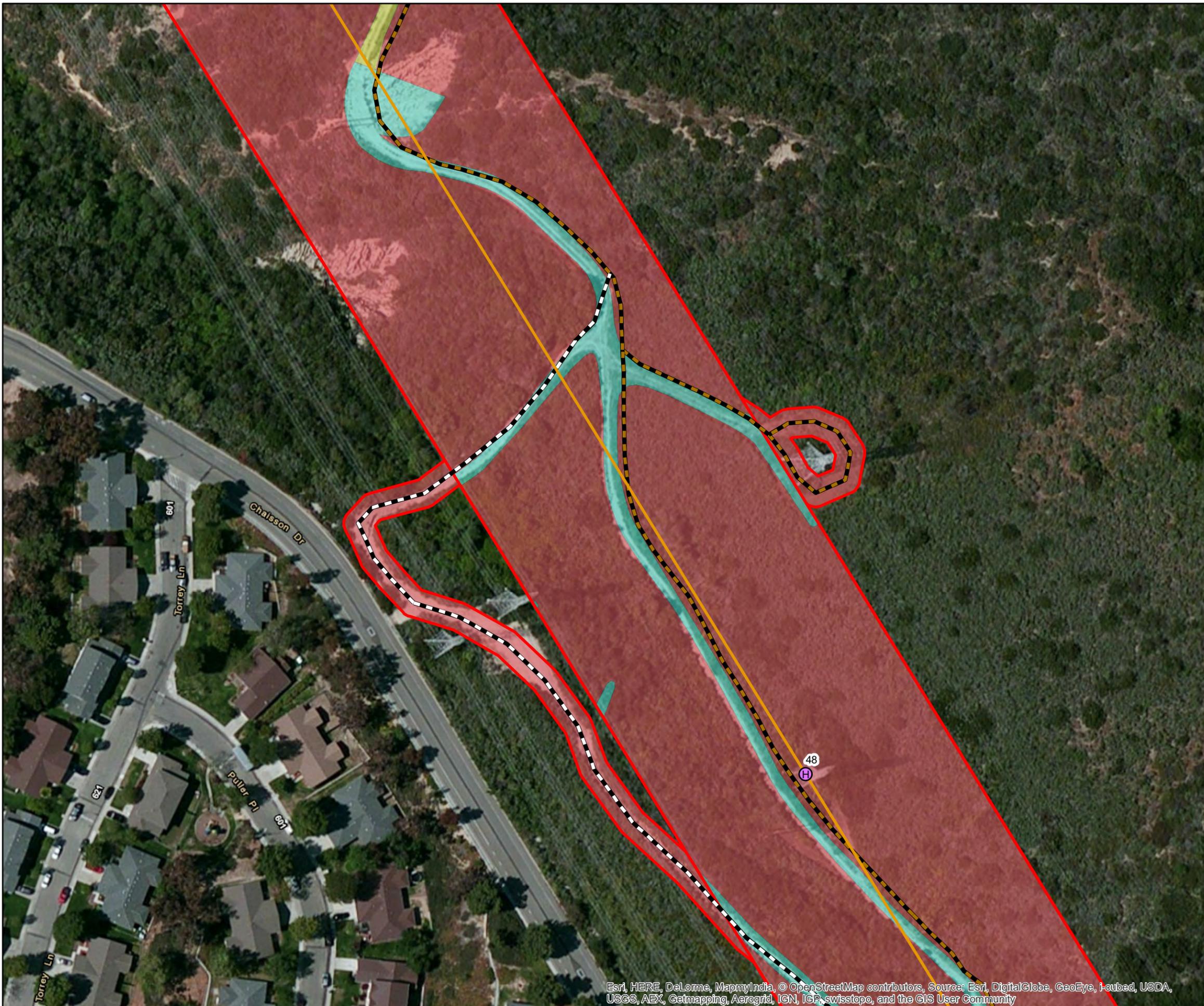
Project Utility Poles
 (H) Overhead Work

Project Features
 Proposed Overhead Route

Access
 Non-TCM Road
 Access Road

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Urban/Developed



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 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



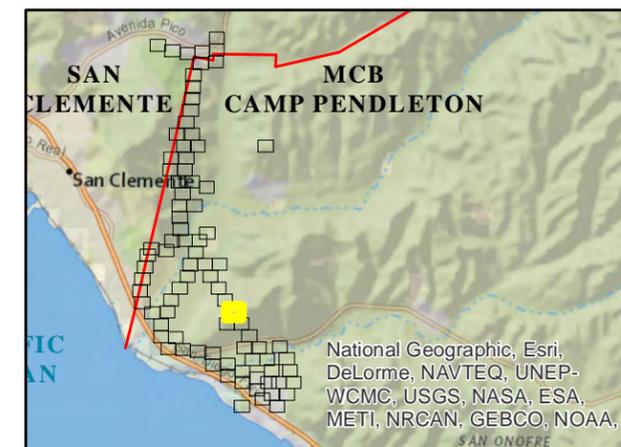
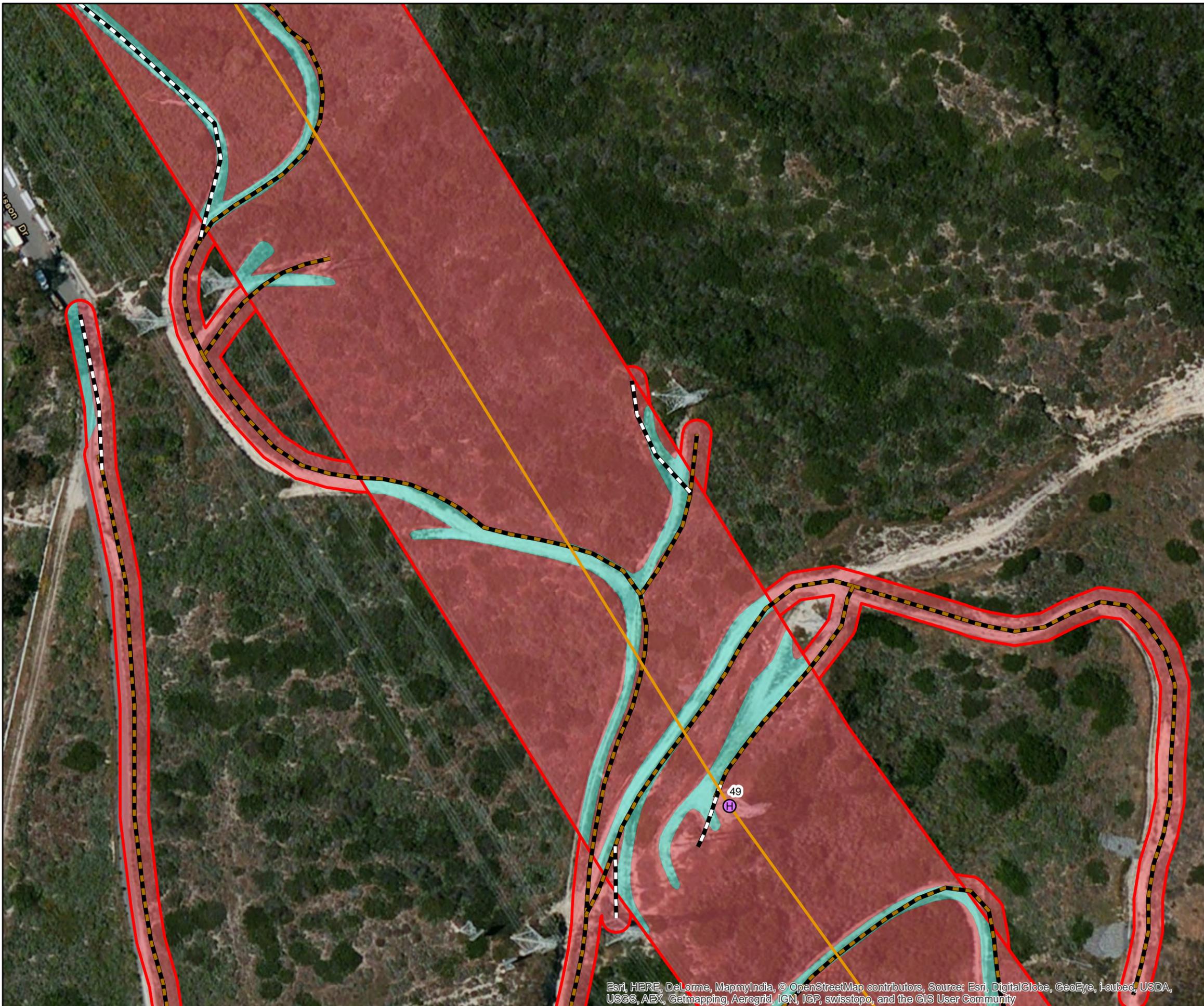
LEGEND

Project Utility Poles
 Overhead Work

Project Features
 Proposed Overhead Route

Access
 Non-TCM Road
 Access Road

Vegetation Type
 Diegan Coastal Sage Scrub
 Urban/Developed



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles
 Overhead Work

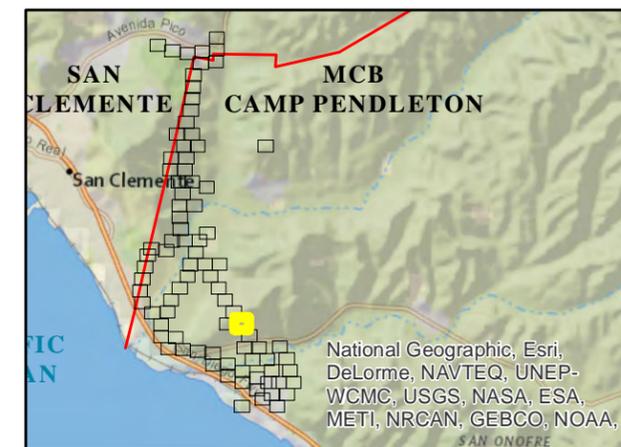
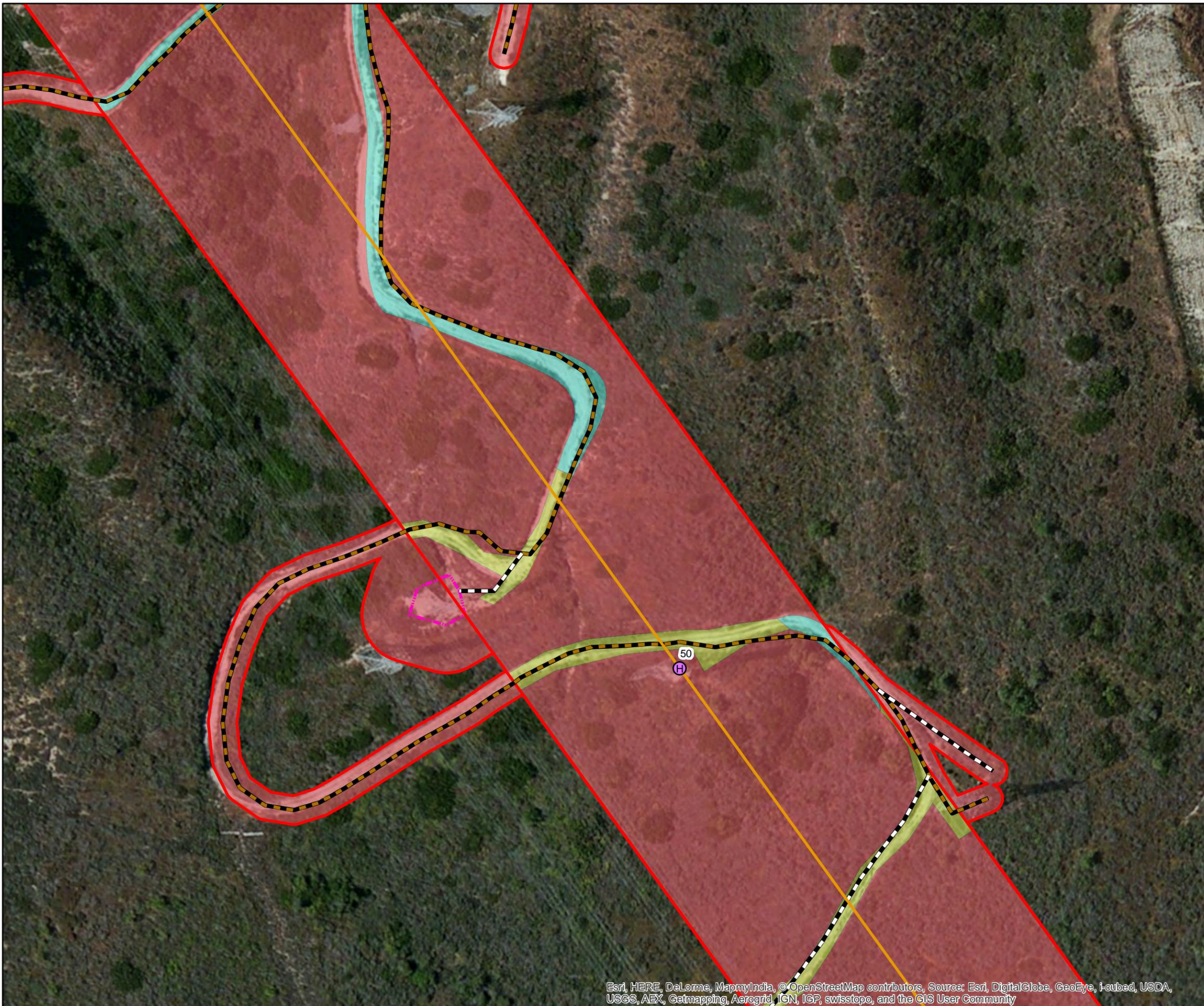
Project Features
 Proposed Overhead Route

Access
 Non-TCM Road
 Access Road

Work/Staging/Turnaround Area
 Work/Staging/Turnaround Area

Project Study Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Urban/Developed



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 Reconductor Project
 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



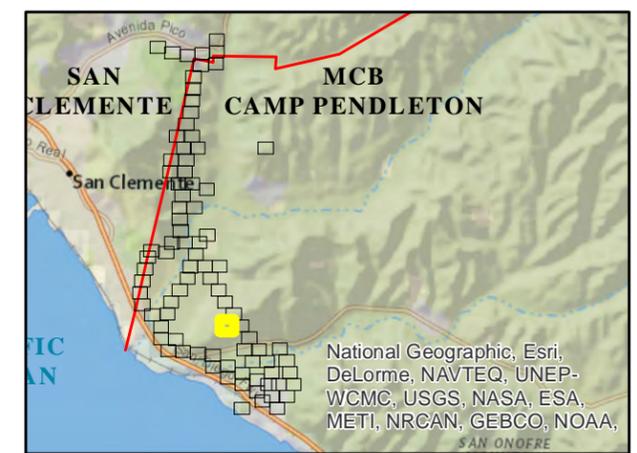
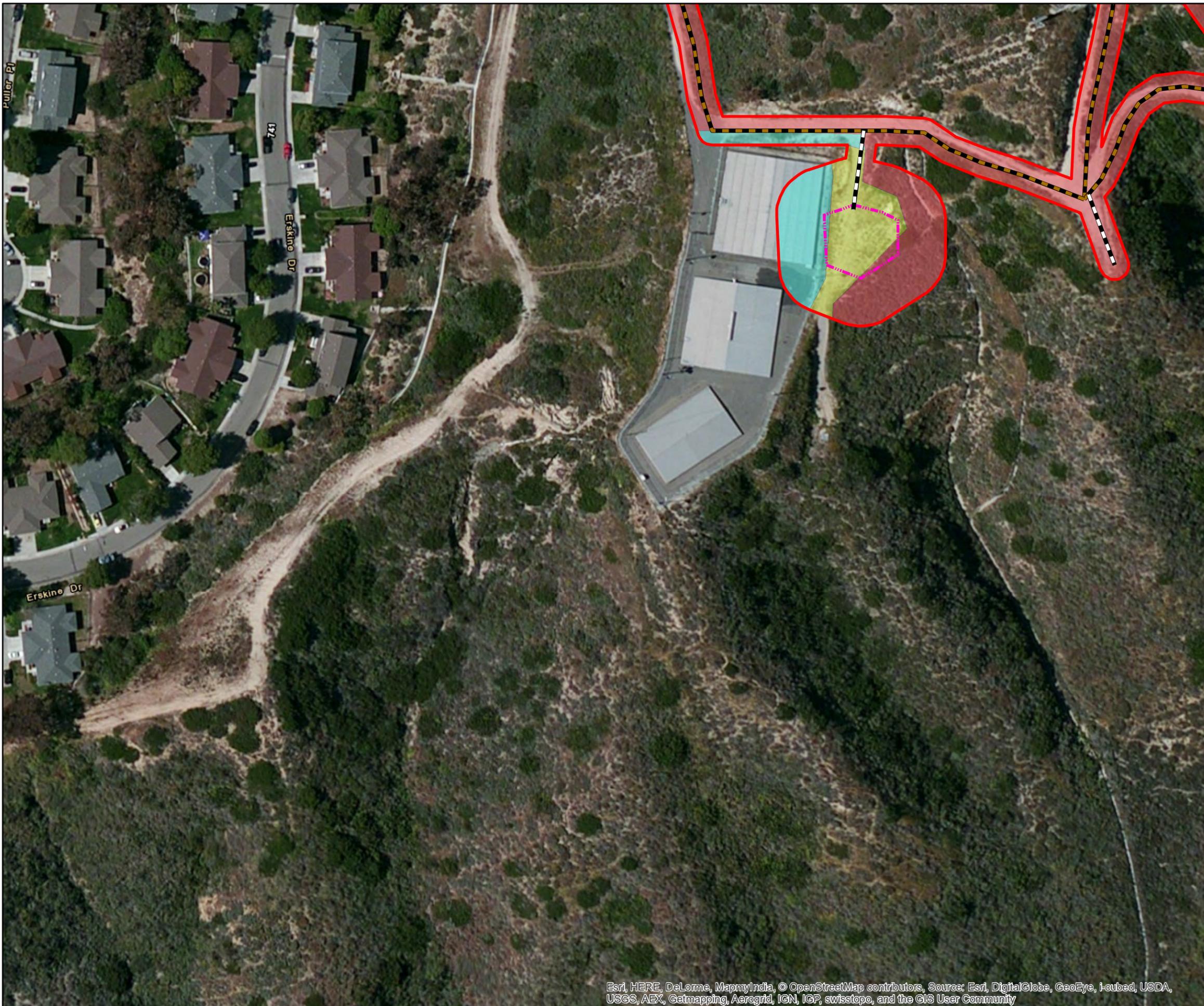
LEGEND

Access

- Non-TCM Road
- Access Road
- Work/Staging/Turnaround Area
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Urban/Developed



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work
- Guard Structure

Project Features

- Proposed Overhead Route

Access

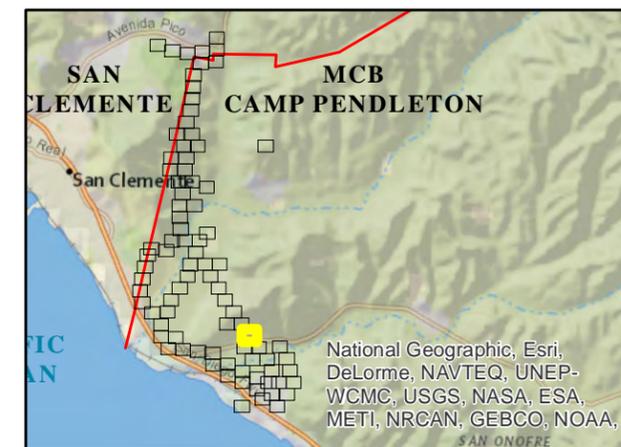
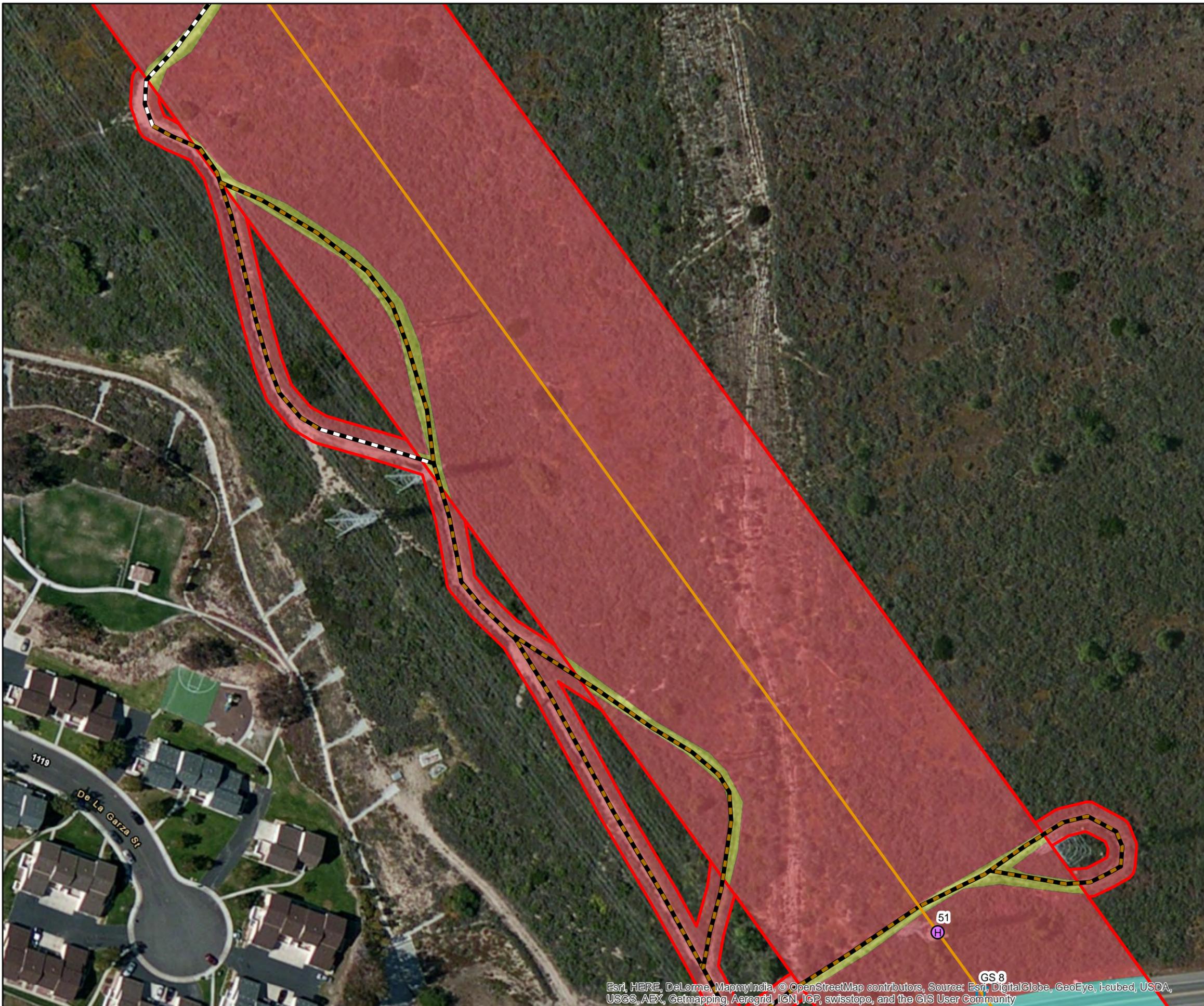
- Non-TCM Road
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Urban/Developed



Created By Pangea Biological, June 2016
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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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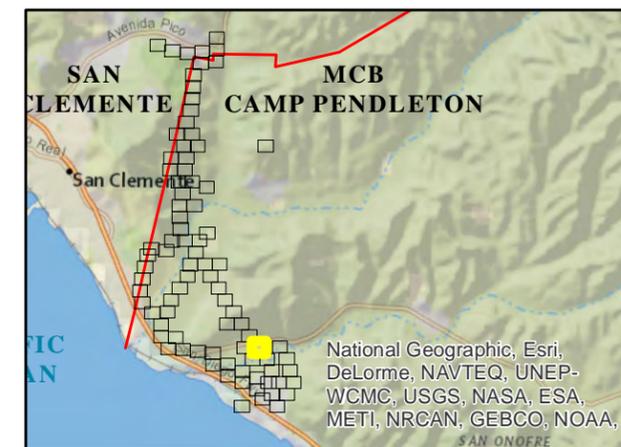
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1 inch = 100 feet @11" x 17"



LEGEND

- Guard Structure
- Project Features**
- Proposed Overhead Route
- Access**
- Access Road
- Project Study Area
- Vegetation Type**
- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Urban/Developed



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



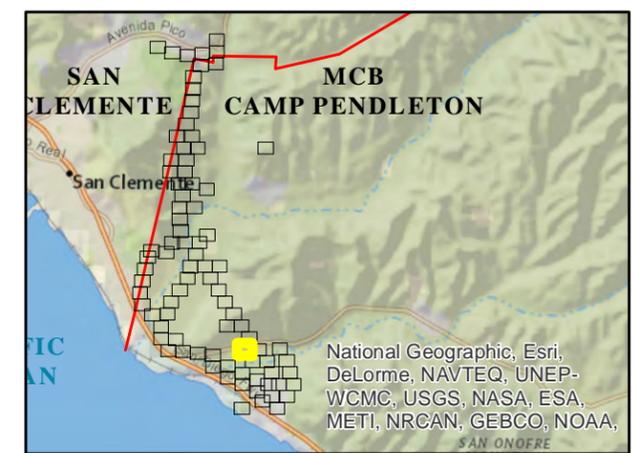
LEGEND

Access

- Access Road (dashed yellow line)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (pink)
- Disturbed Habitat (yellow)
- Urban/Developed (cyan)



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work

Project Features

- Proposed Overhead Route

Access

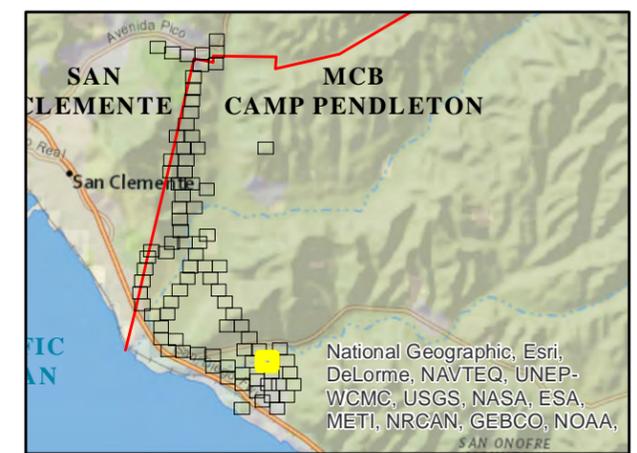
- Non-TCM Road
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Mulefat Scrub
- Nonvegetated Channel
- Urban/Developed



Created By Pangea Biological, June 2016
 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



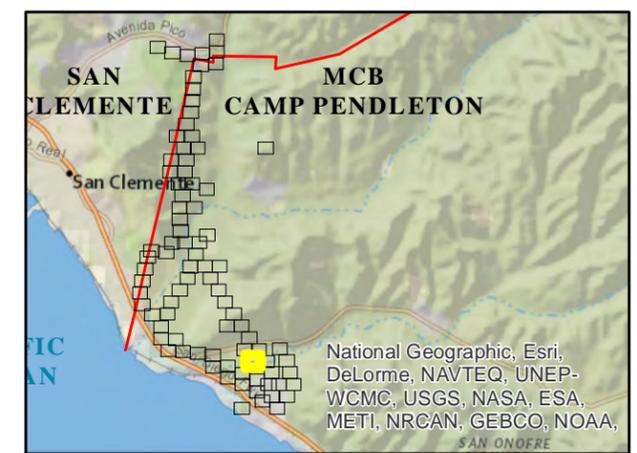
LEGEND

Access

- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Mulefat Scrub
- Nonvegetated Channel



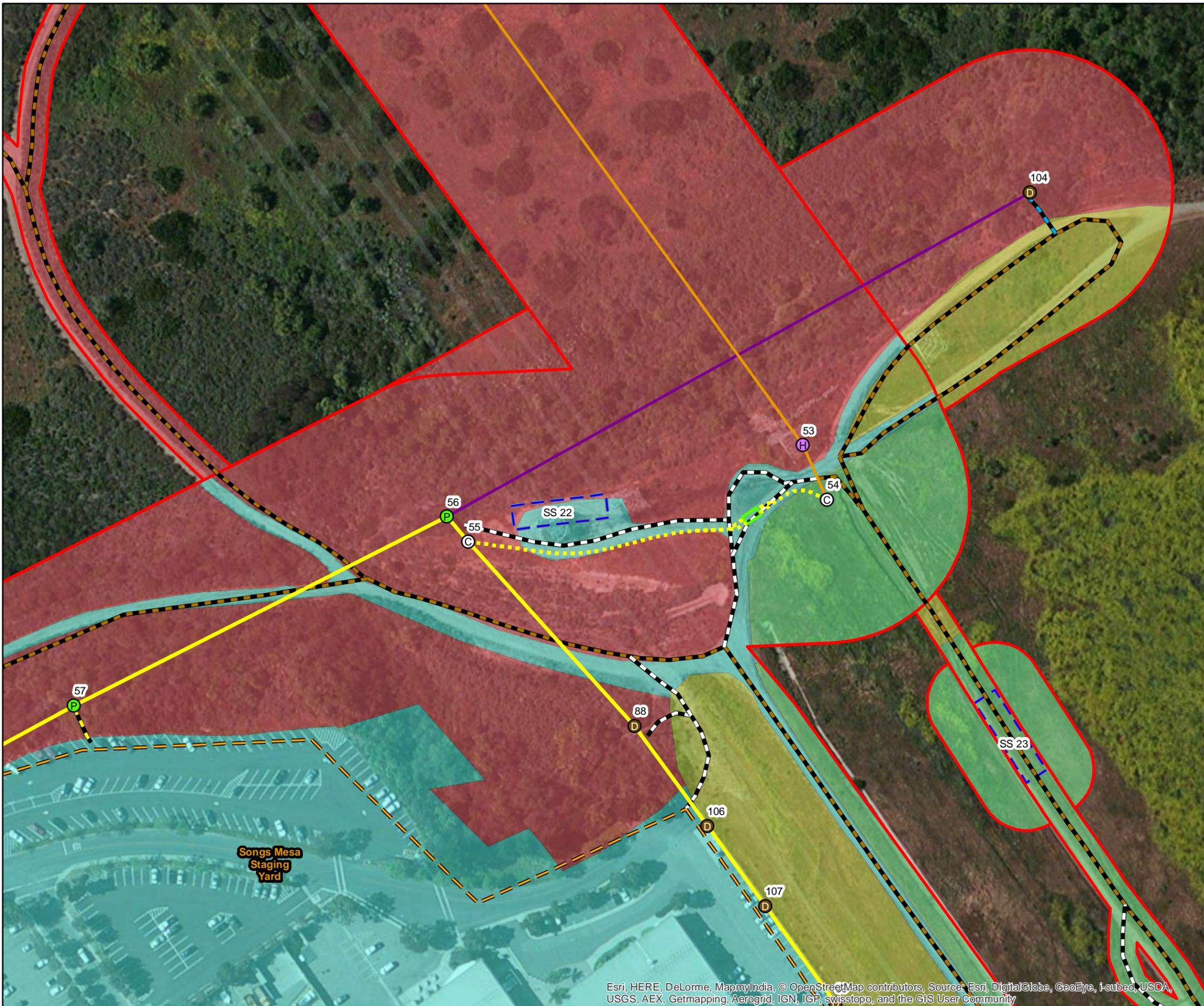
Created By Pangea Biological, June 2016
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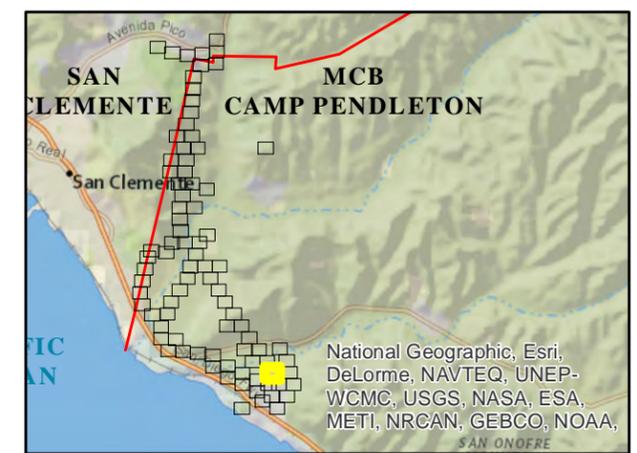
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Vegetation Type
⊙ Cable Pole	Diegan Coastal Sage Scrub
ⓓ Direct Bury	Disturbed Habitat
Ⓜ Overhead Work	Non-native Grassland
Ⓟ Pier Foundation	Urban/Developed
Project Features	
— Overhead Route	
— Proposed Overhead Route	
— Underground Route	
— Distribution Connection	
Access	
— Non-TCM Road	
— Footpath	
— Overland Travel	
— Access Road	
— Stringing Site	
— Proposed 69kV Vault	
— Project Study Area	



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

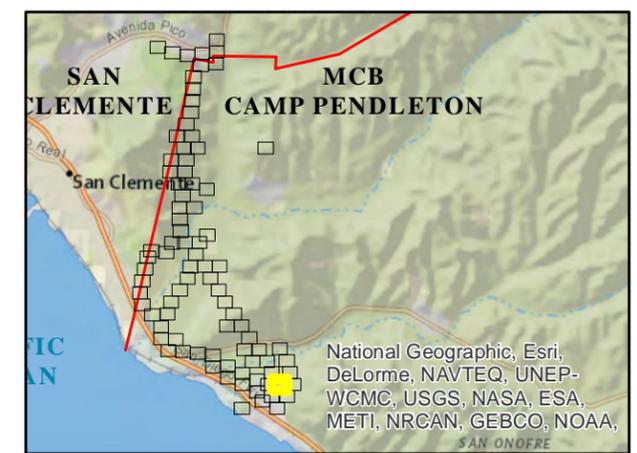
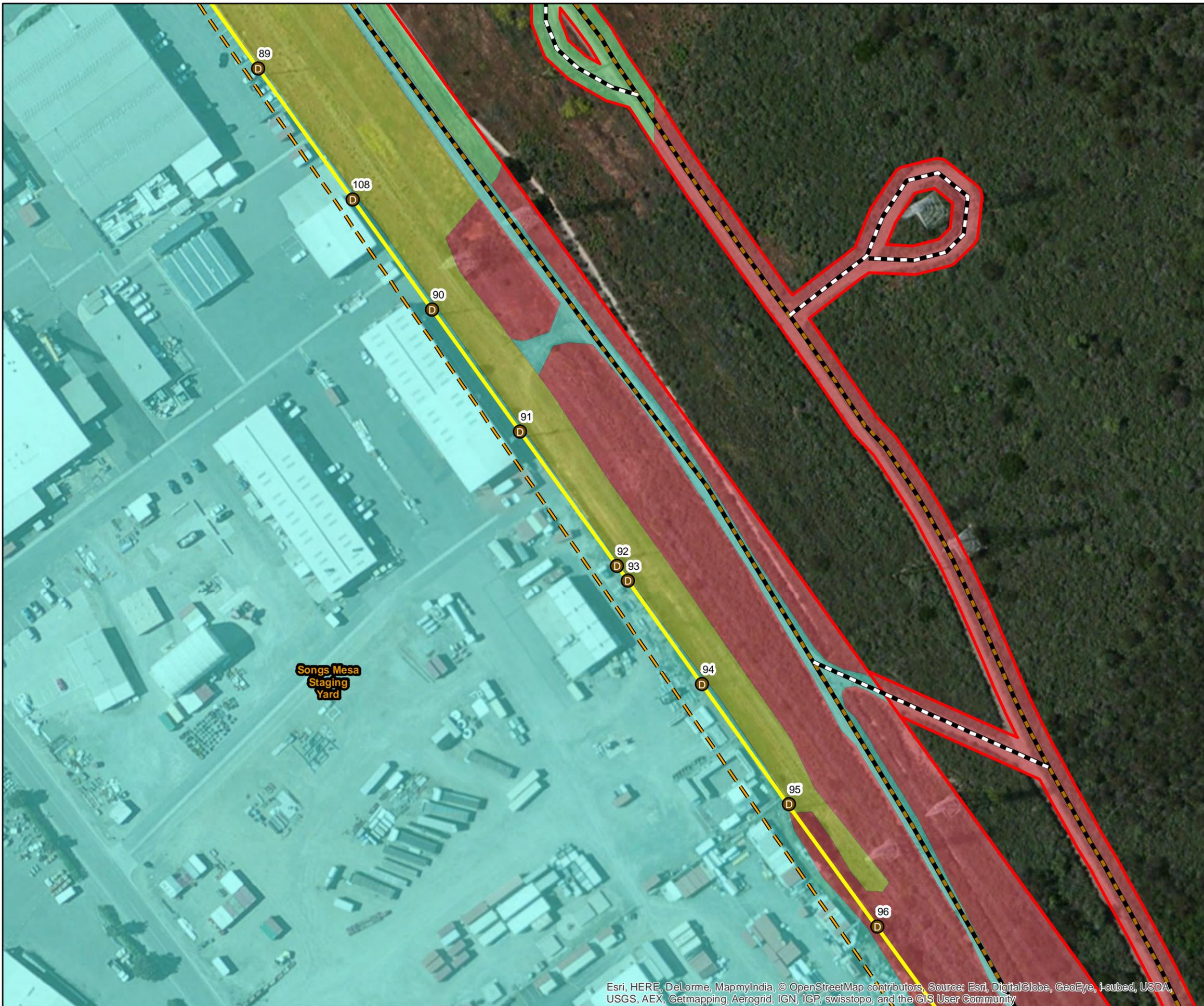
Project Utility Poles
 (D) Direct Bury

Project Features
 Overhead Route

Access
 Non-TCM Road
 Access Road

Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Non-native Grassland
 Urban/Developed



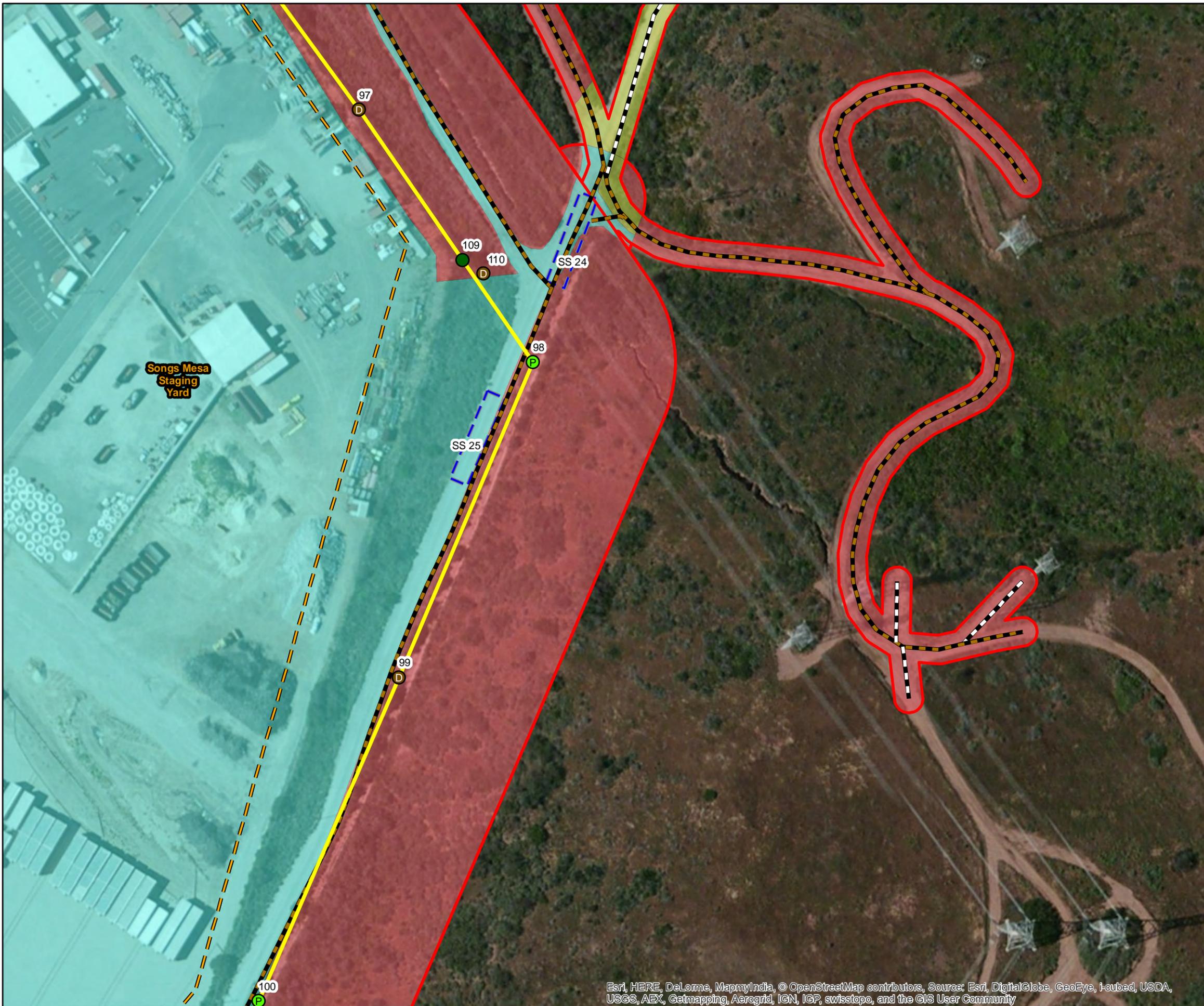
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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- D Direct Bury
- P Pier Foundation
- PR PR

Project Features

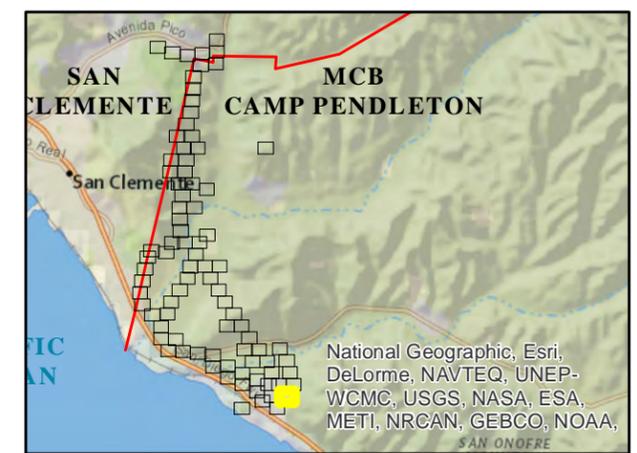
- Overhead Route

Access

- Non-TCM Road
- Access Road
- Stringing Site
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Urban/Developed



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work (H symbol)
- Pier Foundation (P symbol)
- Guard Structure (T symbol)

Project Features

- Overhead Route (Yellow line)

Access

- Proposed Road (Black dashed line)
- Access Road (Black dashed line)

Work/Staging/Turnaround Area

- Work/Staging/Turnaround Area (Pink dashed line)

Stringing Site

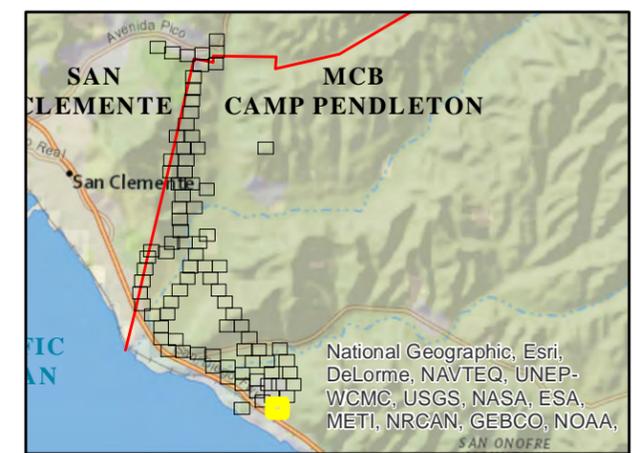
- Stringing Site (Blue dashed line)

Project Study Area

- Project Study Area (Red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (Pink fill)
- Urban/Developed (Cyan fill)



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury

Project Features

- Overhead Route

Access

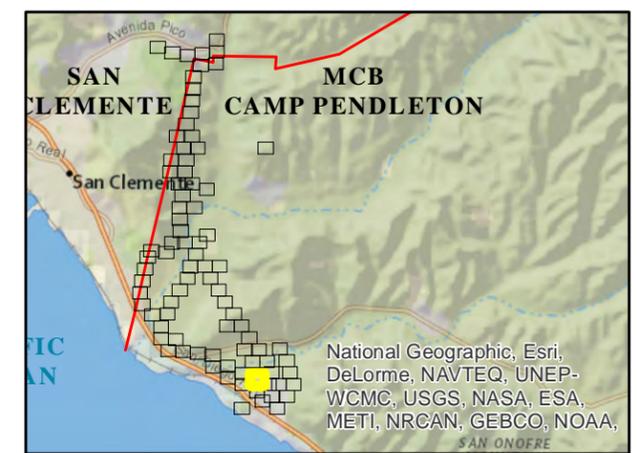
- Overland Travel
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Urban/Developed



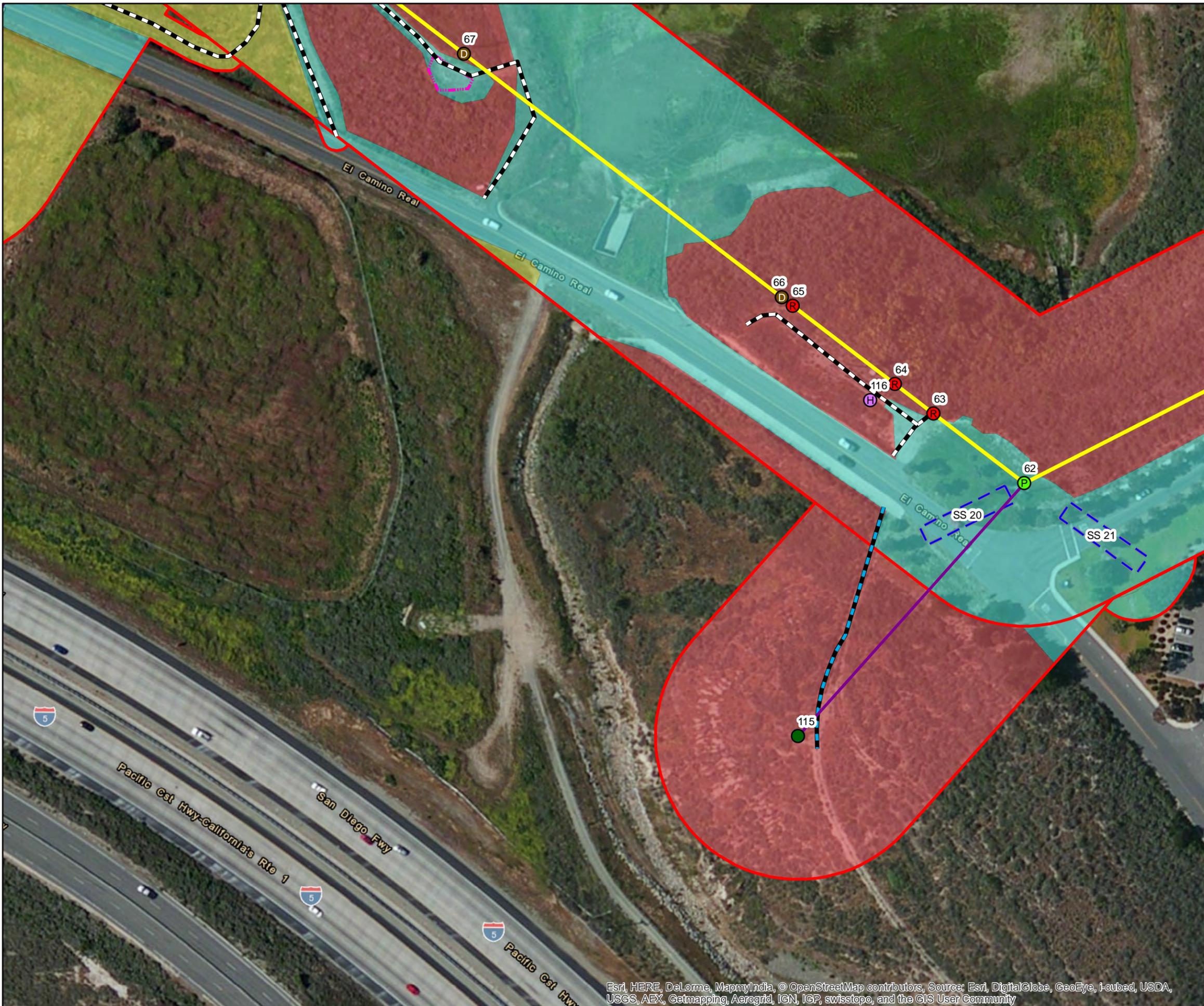
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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- D Direct Bury
- H Overhead Work
- P Pier Foundation
- PR PR
- R Remove From Service

Project Features

- Overhead Route
- Distribution Connection

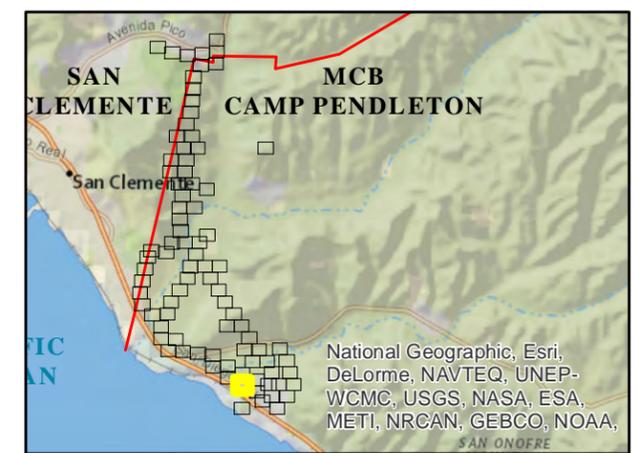
Access

- Non-TCM Road
- Overland Travel
- Work/Staging/Turnaround Area
- Stringing Site
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat

Urban/Developed



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury

Project Features

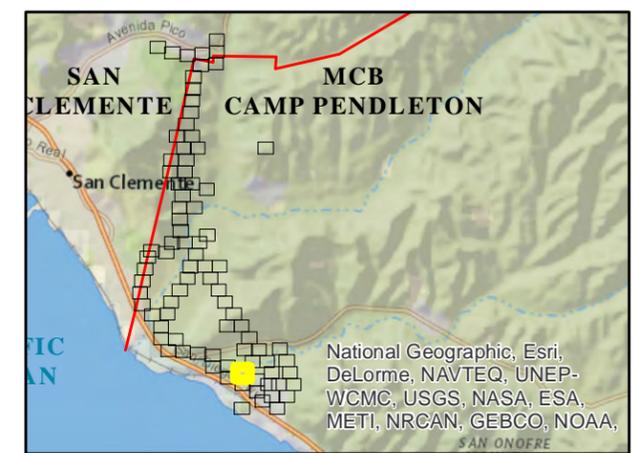
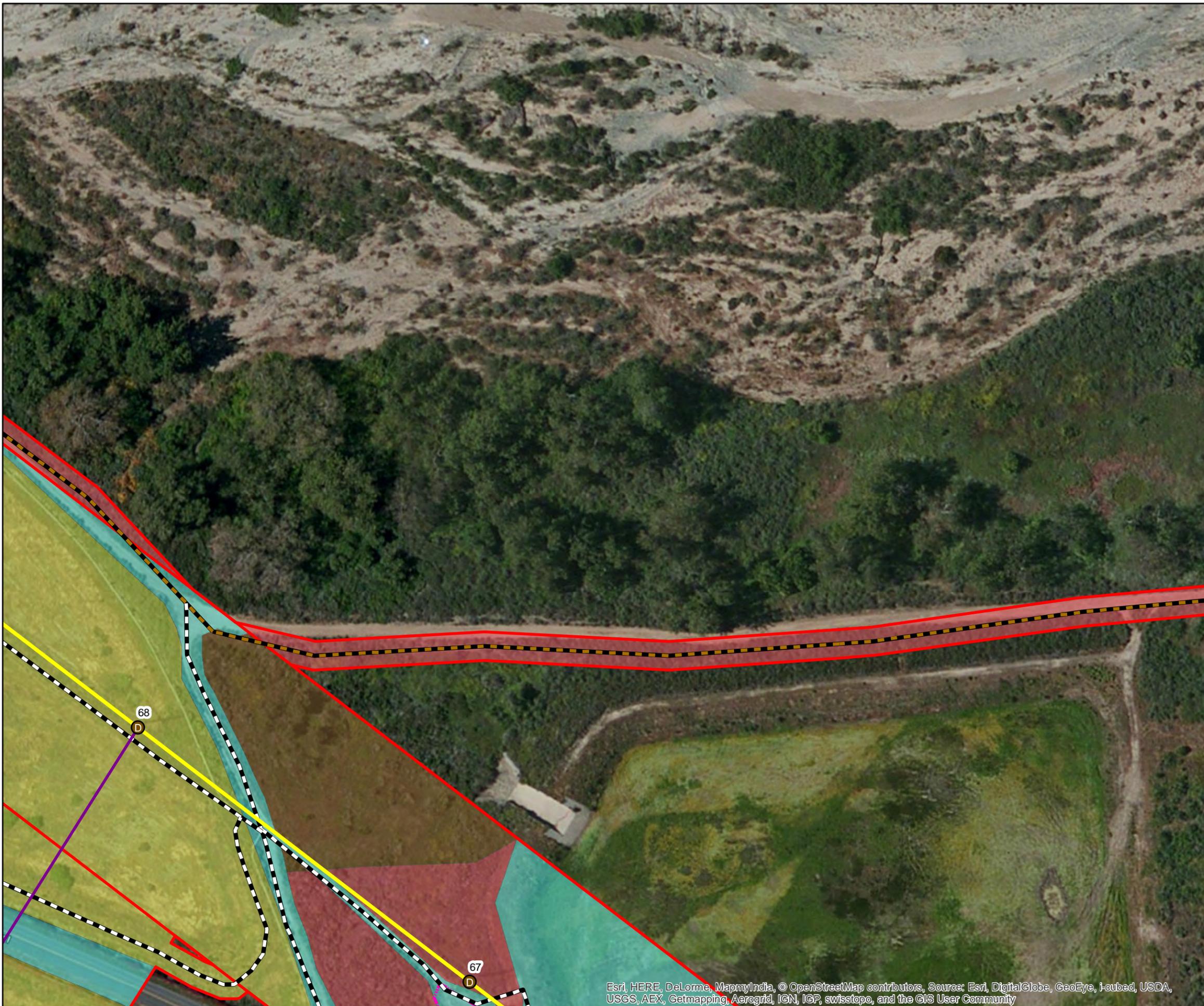
- Overhead Route
- Distribution Connection

Access

- Non-TCM Road
- Access Road
- Work/Staging/Turnaround Area
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Mulefat Scrub
- Urban/Developed



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 Data Source: SDG&E
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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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 Vegetation Communities Mapbook

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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury (D in a circle)
- PR (Green circle)

Project Features

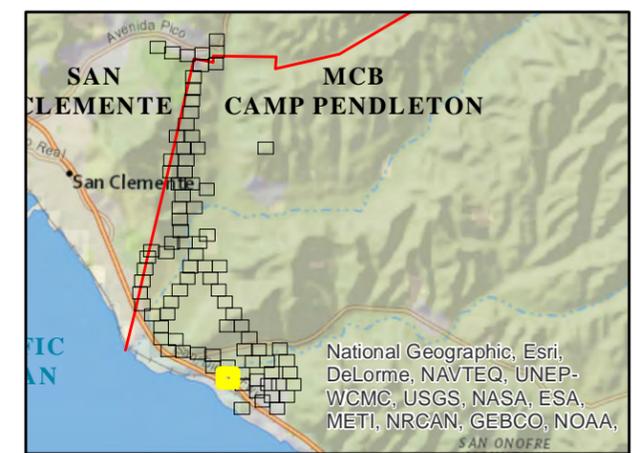
- Overhead Route (Yellow line)
- Distribution Connection (Purple line)

Access

- Non-TCM Road (Dashed black line)
- Overland Travel (Blue dashed line)
- Access Road (Black dashed line)
- Project Study Area (Red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (Pink)
- Disturbed Habitat (Yellow)
- Urban/Developed (Cyan)



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



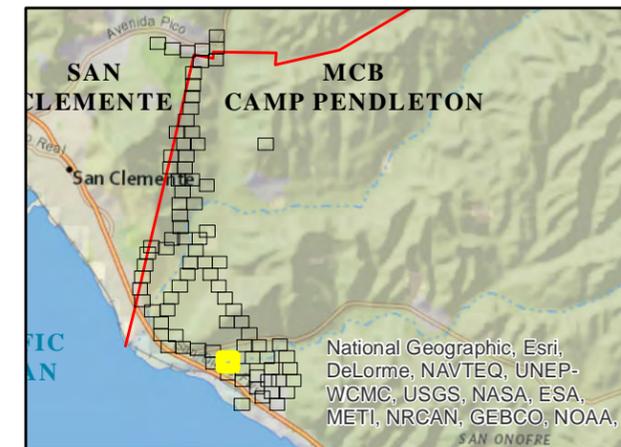
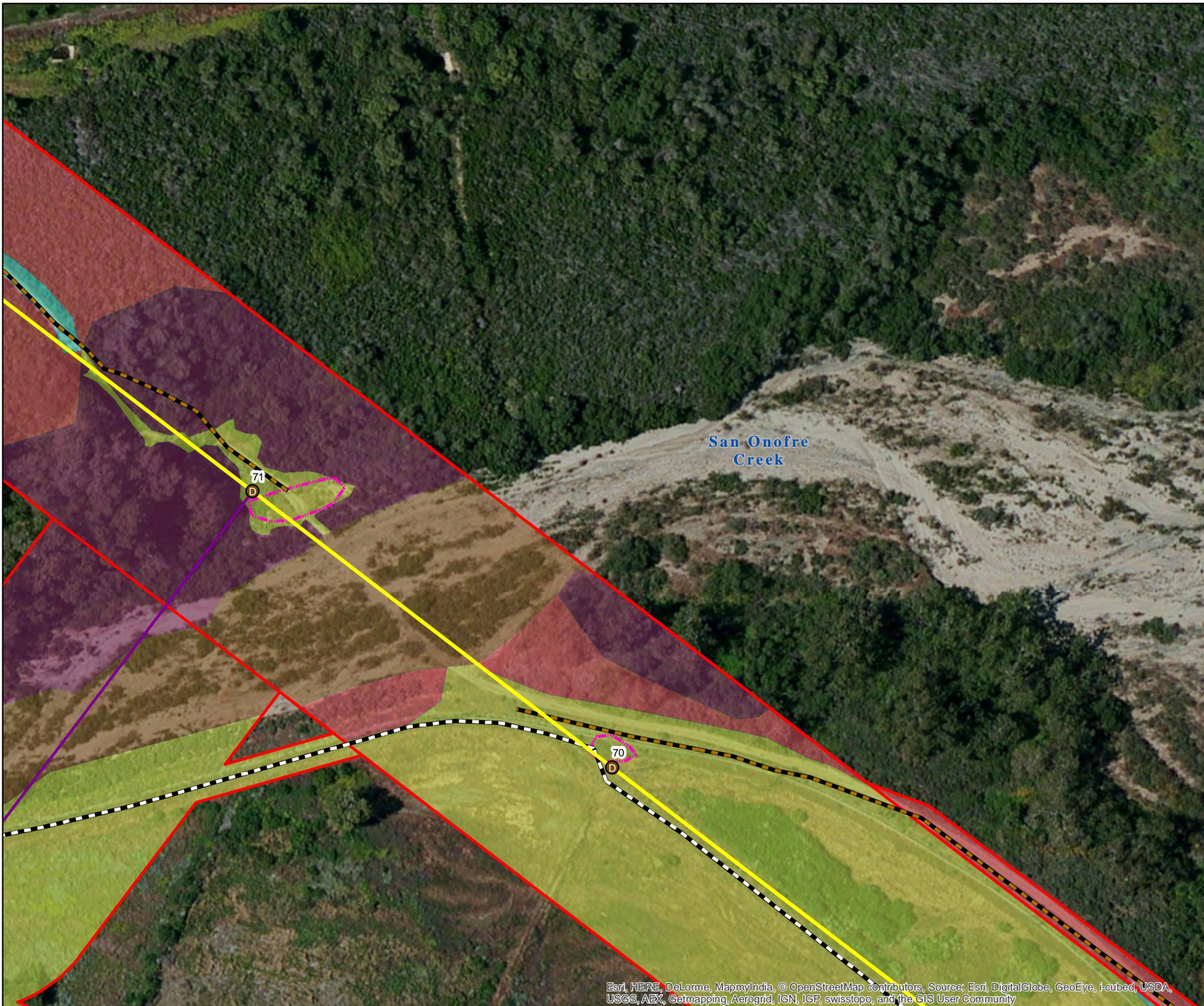
LEGEND

Project Utility Poles
 (D) Direct Bury

Project Features
 Overhead Route
 Distribution Connection

Access
 Non-TCM Road
 Access Road
 Work/Staging/Turnaround Area
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Mulefat Scrub
 Southern Sycamore-Alder Riparian Woodland
 Urban/Developed



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- D Direct Bury
- PR PR

Project Features

- Overhead Route
- Distribution Connection

Access

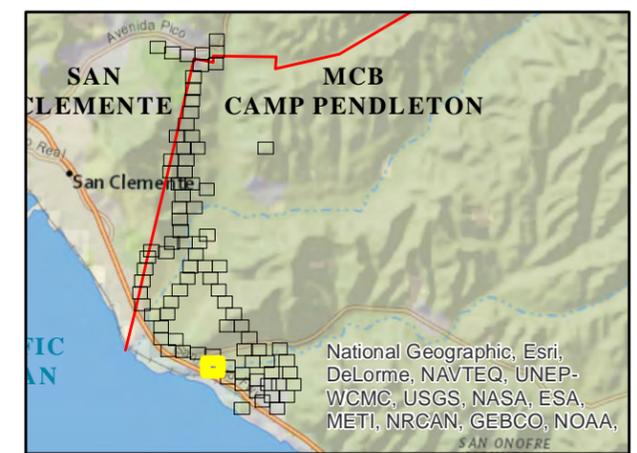
- Non-TCM Road
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Mulefat Scrub
- Southern Sycamore-Alder Riparian Woodland
- Urban/Developed



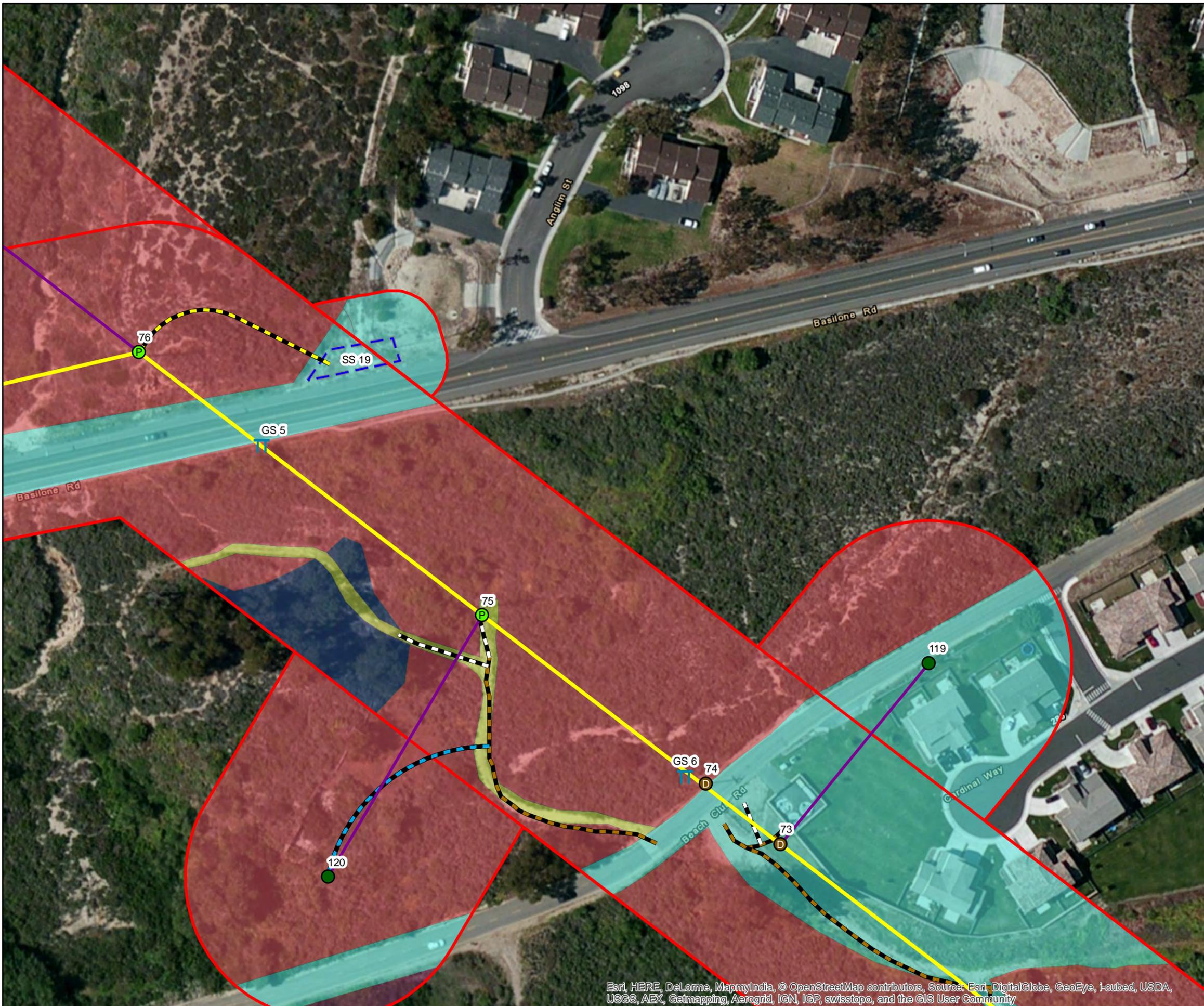
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 Vegetation Communities Mapbook

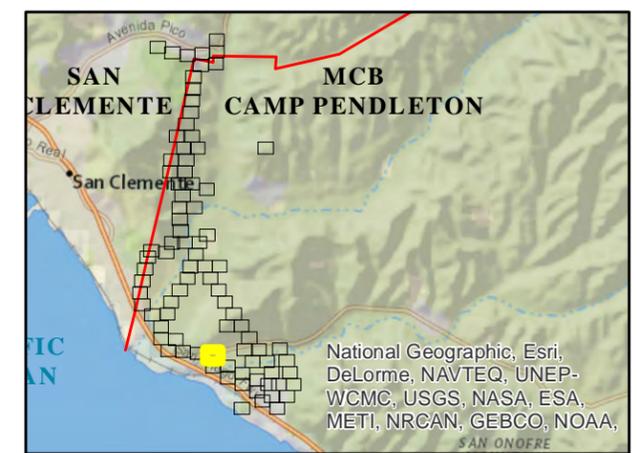
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles		Southern Sycamore-Alder Riparian Woodland
Direct Bury	Pier Foundation	Urban/Developed
PR	Guard Structure	
Overhead Route	Distribution Connection	
Project Features		
Non-TCM Road	Footpath	
Overland Travel	Access Road	
Stringing Site	Project Study Area	
Vegetation Type		
Diegan Coastal Sage Scrub	Disturbed Habitat	Eucalyptus Woodland



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury
- Pier Foundation
- PR

Project Features

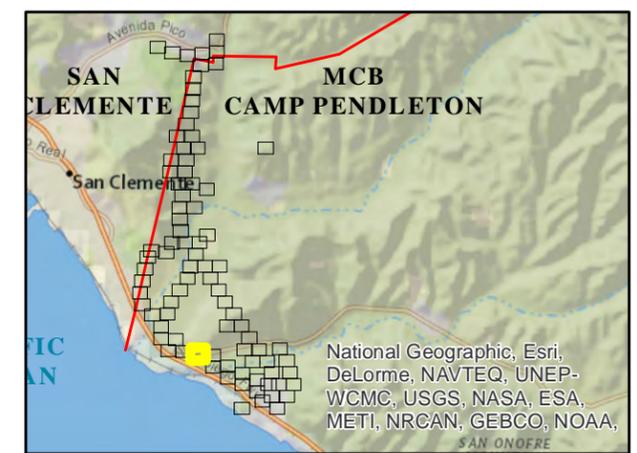
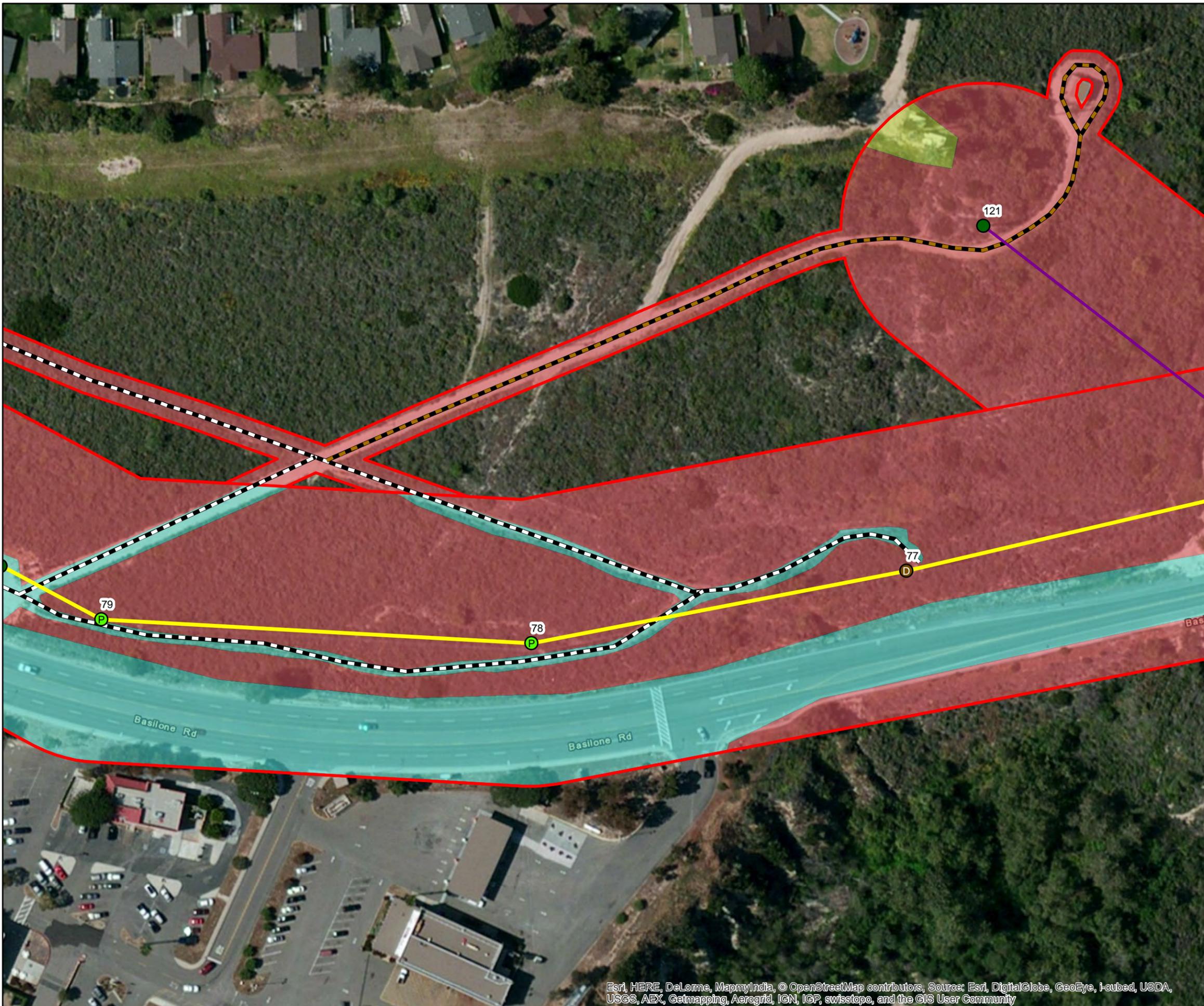
- Overhead Route
- Distribution Connection

Access

- Non-TCM Road
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Urban/Developed



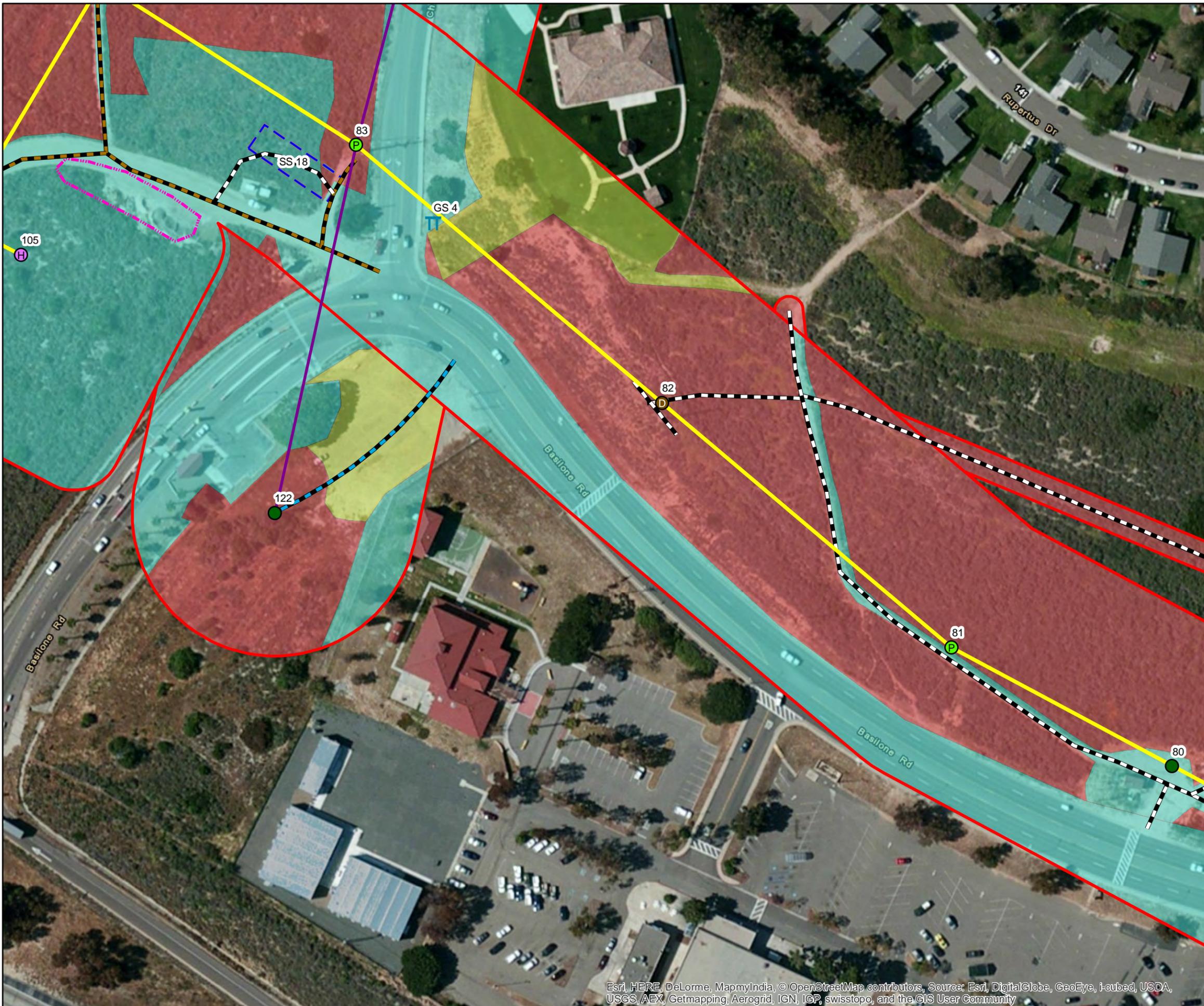
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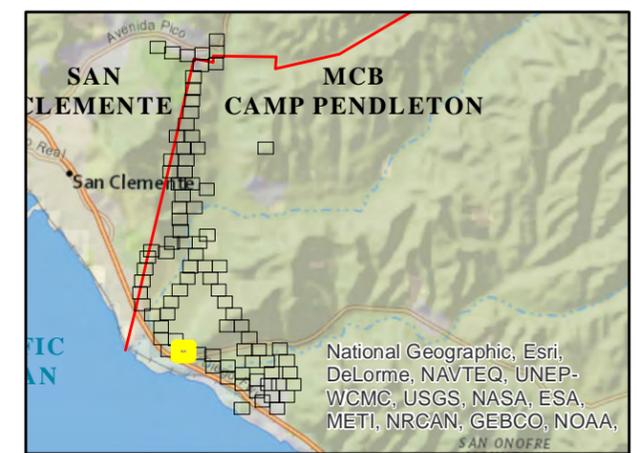
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Disturbed Habitat
Direct Bury	Urban/Developed
Overhead Work	
Pier Foundation	
PR	
Guard Structure	
Project Features	
Overhead Route	
Distribution Connection	
Access	
Non-TCM Road	
Overland Travel	
Access Road	
Work/Staging/Turnaround Area	
Stringing Site	
Project Study Area	
Vegetation Type	
Diegan Coastal Sage Scrub	



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 Datum: North American 1983



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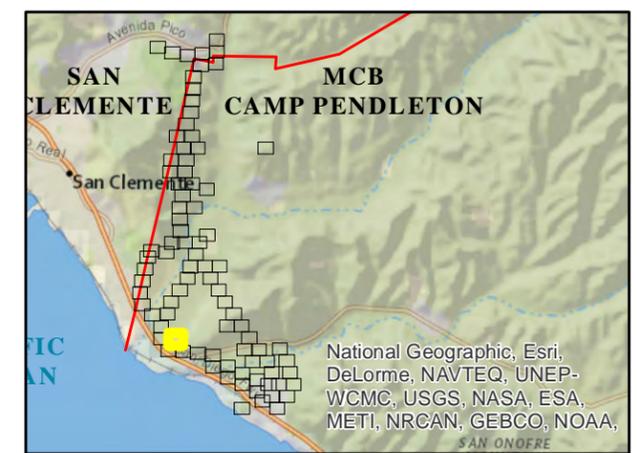
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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles	Vegetation Type
Direct Bury	Diegan Coastal Sage Scrub
Overhead Work	Disturbed Habitat
Pier Foundation	Southern Sycamore-Alder Riparian Woodland
PR	Urban/Developed
Top Pole	
Project Features	
Overhead Route	
Topping Segment	
Distribution Connection	
Access	
Footpath	
Overland Travel	
Access Road	
Work/Staging/Turnaround Area	
Stringing Site	
Project Study Area	



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

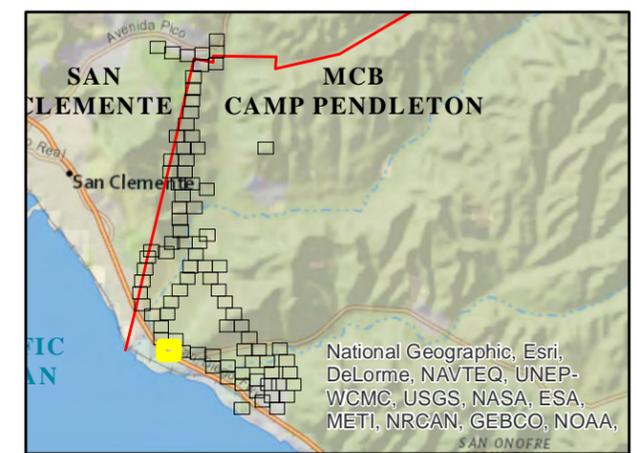
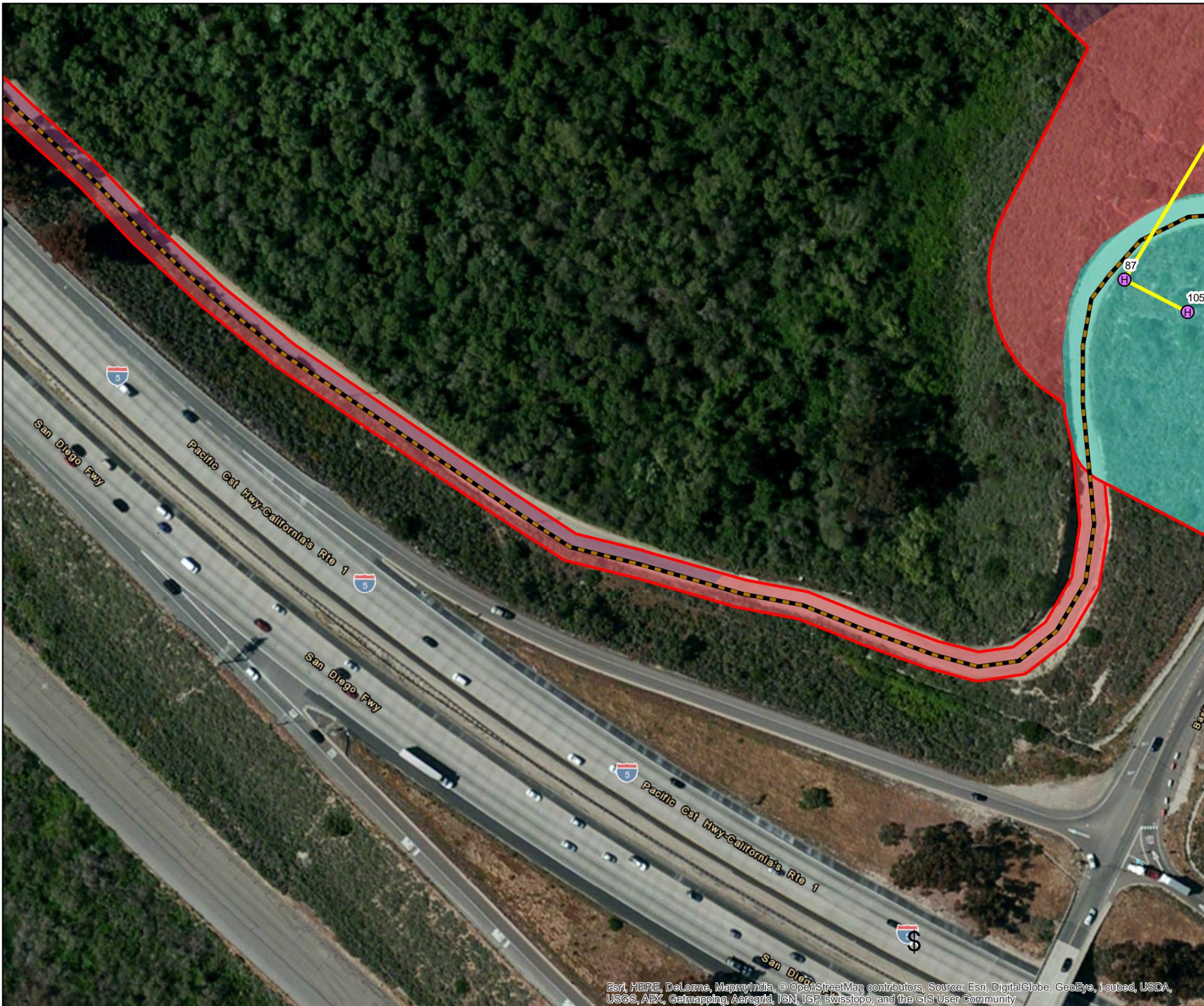
Project Utility Poles
 Overhead Work

Project Features
 Overhead Route

Access
 Access Road

Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Southern Sycamore-Alder Riparian Woodland
 Urban/Developed



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Top Pole

Project Features

- Topping Segment

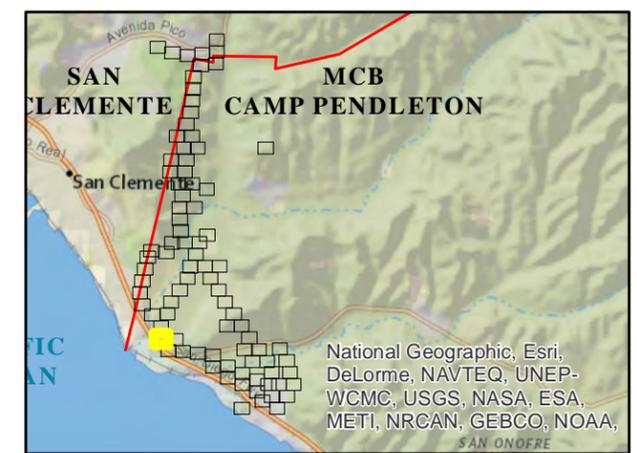
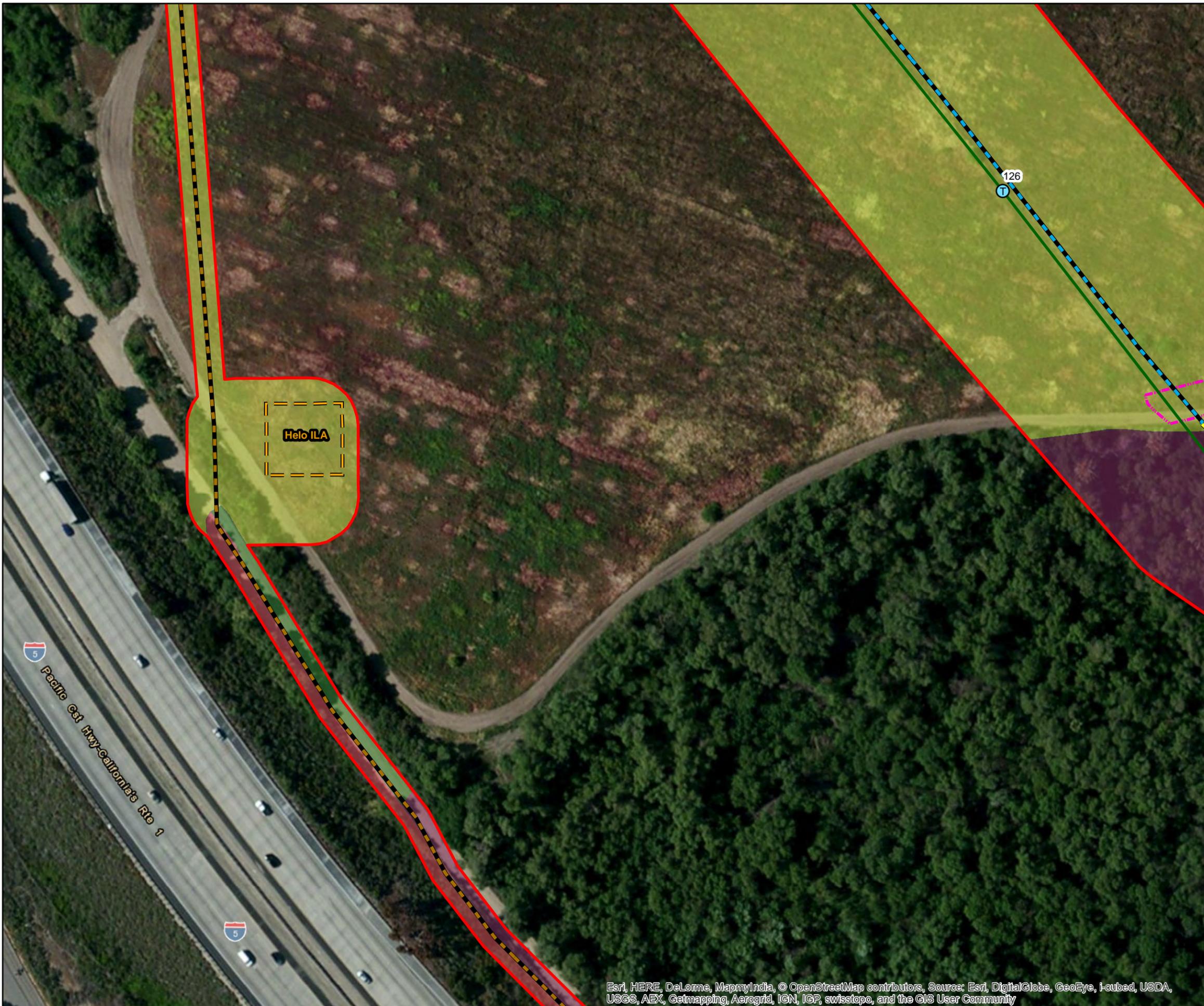
Access

- Footpath
- Overland Travel
- Access Road
- Work/Staging/Turnaround Area

Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Southern Sycamore-Alder Riparian Woodland
- Southern Willow Scrub



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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work
- Remove From Service
- Top Pole
- Additional Stringing Site

Project Features

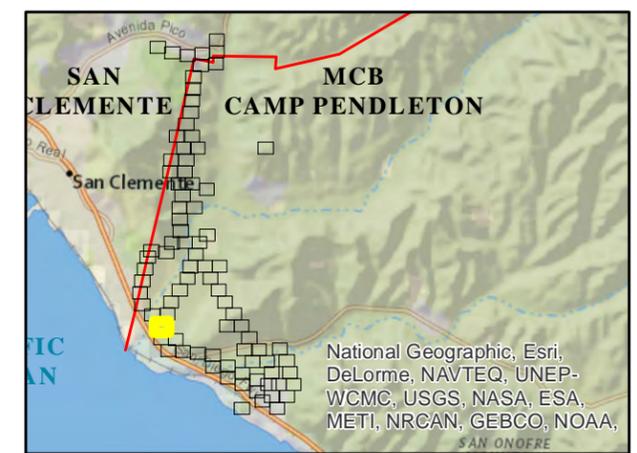
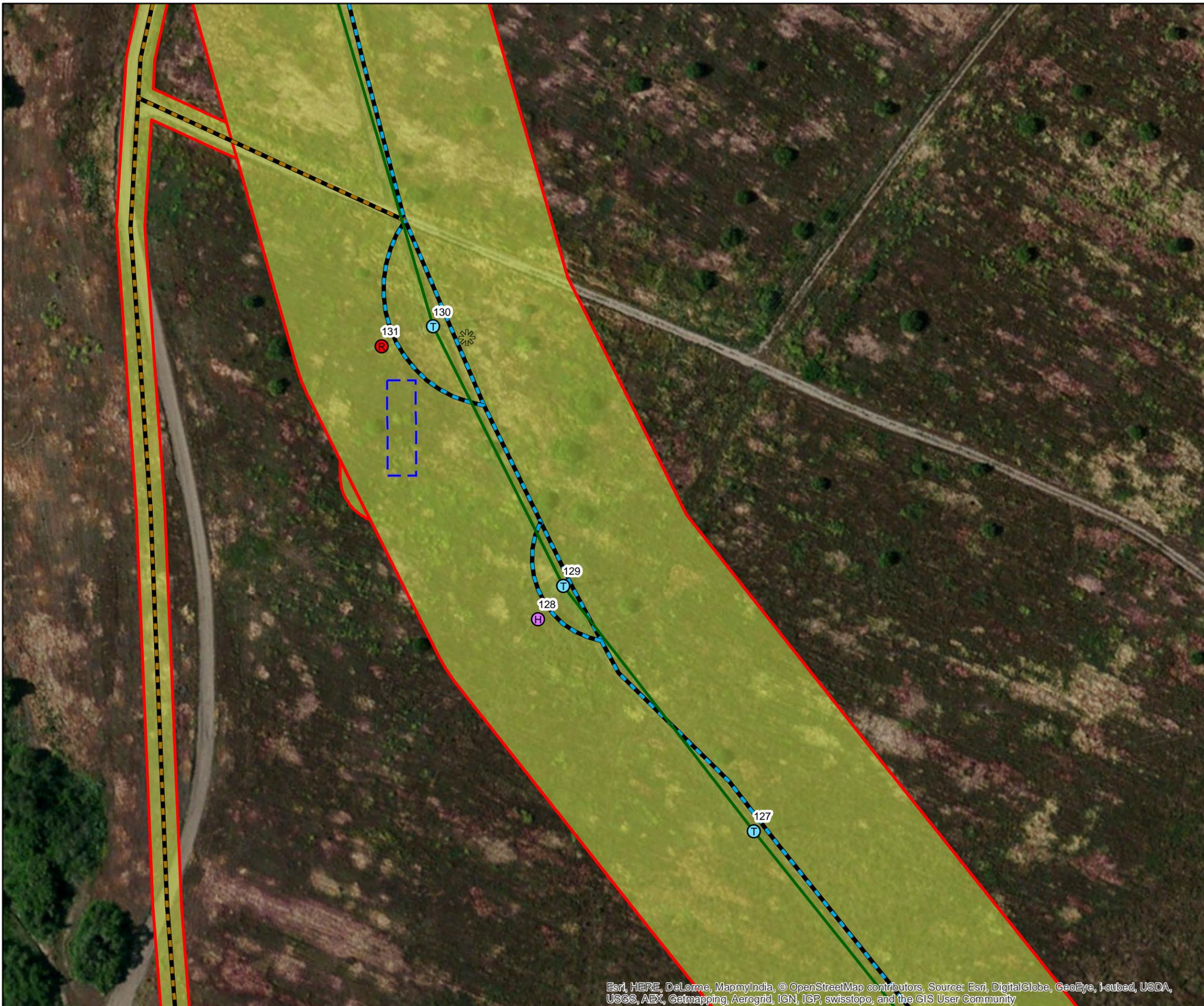
- Topping Segment

Access

- Overland Travel
- Access Road
- Stringing Site
- Project Study Area

Vegetation Type

- Disturbed Habitat



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 Data Source: SDG&E
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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Top Pole (T in blue circle)

Project Features

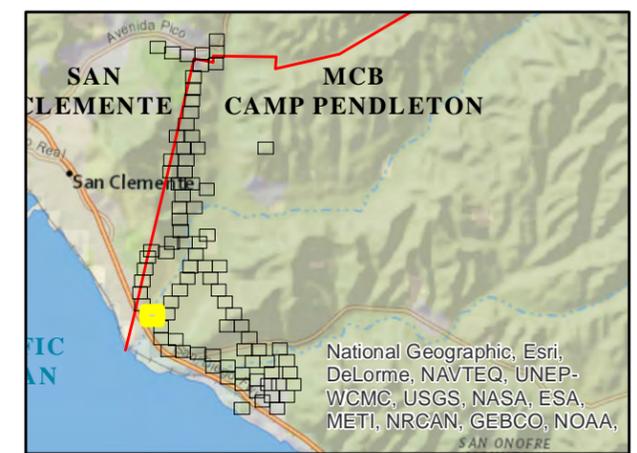
- Topping Segment (green line)

Access

- Non-TCM Road (black dashed line)
- Overland Travel (blue dashed line)
- Access Road (yellow dashed line)
- Stringing Site (blue dashed box)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (pink)
- Disturbed Habitat (yellow)
- Nonvegetated Channel (light purple)
- Southern Sycamore-Alder Riparian Woodland (dark purple)
- Southern Willow Scrub (green)



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 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury (D)
- Top Pole (T)
- Guard Structure (T)
- Additional Stringing Site (starburst)

Project Features

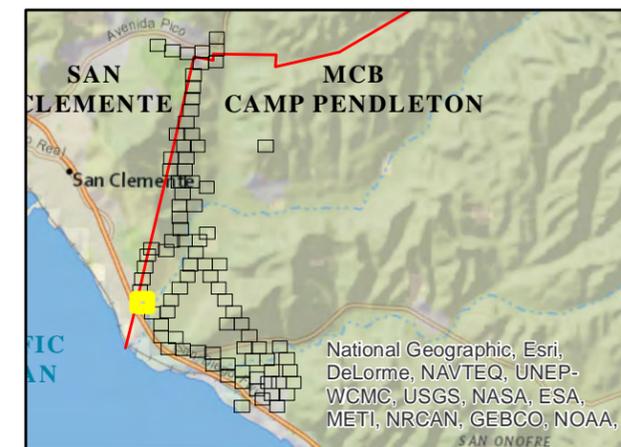
- Topping Segment (green line)

Access

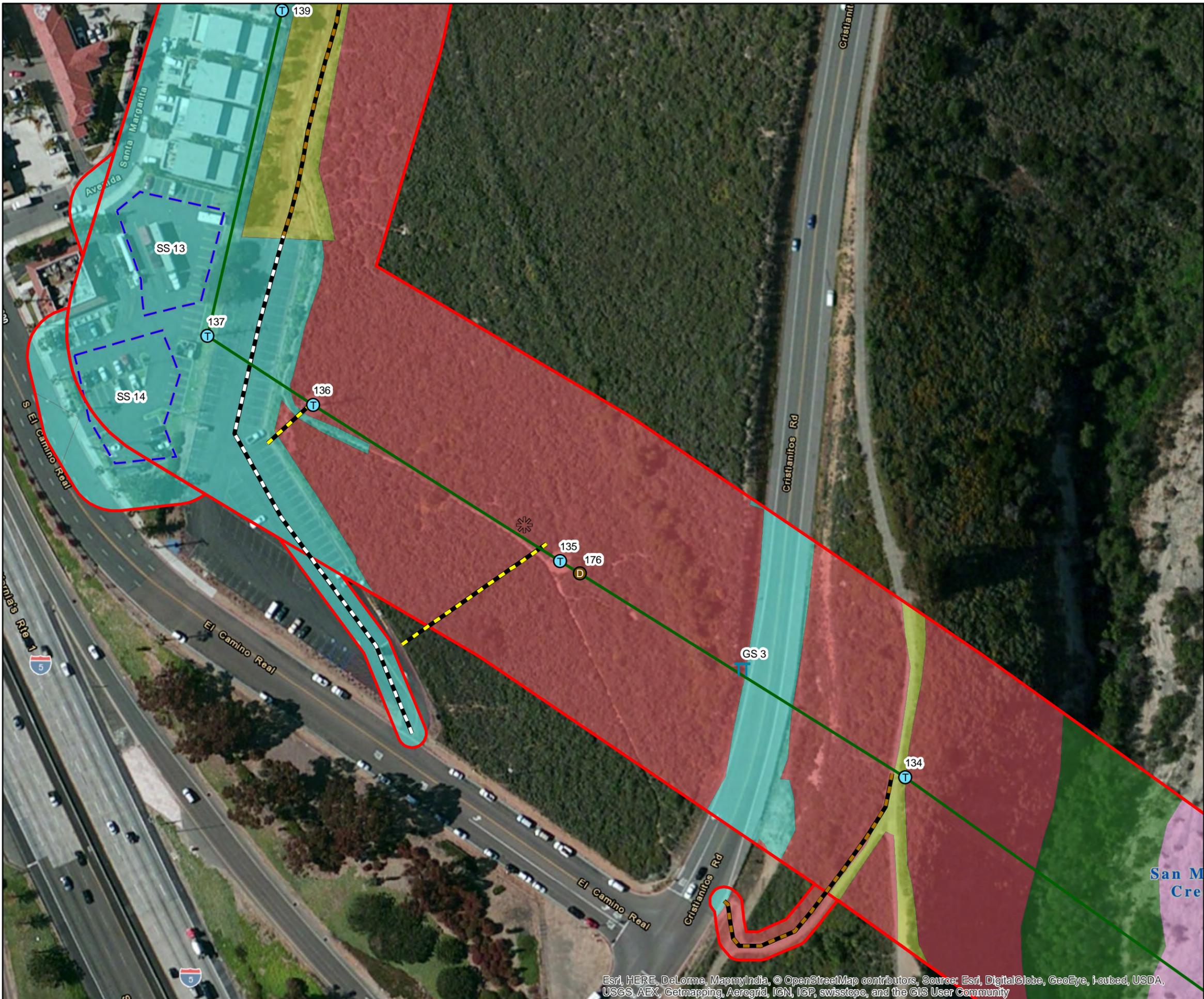
- Non-TCM Road (dashed black line)
- Footpath (yellow dashed line)
- Access Road (yellow dashed line)
- Stringing Site (blue dashed line)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (red)
- Disturbed Habitat (yellow)
- Nonvegetated Channel (pink)
- Southern Willow Scrub (green)
- Urban/Developed (light blue)



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 Data Source: SDG&E
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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work (H symbol)
- Top Pole (T symbol)

Project Features

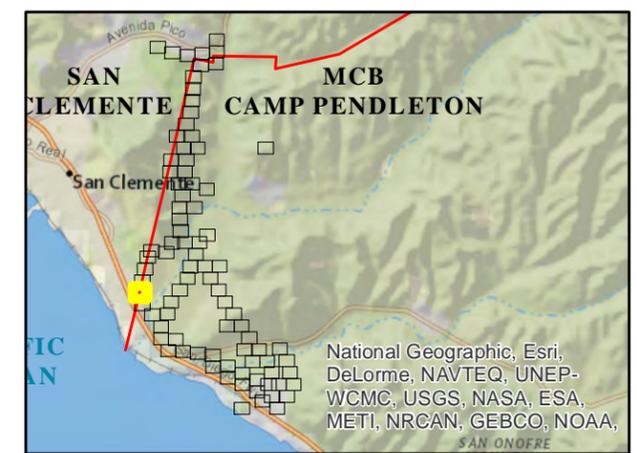
- Topping Segment (green line)

Access

- Access Road (dashed black line)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (pink)
- Disturbed Habitat (yellow)
- Urban/Developed (cyan)



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Direct Bury (D)
- Overhead Work (H)
- Top Pole (T)

Project Features

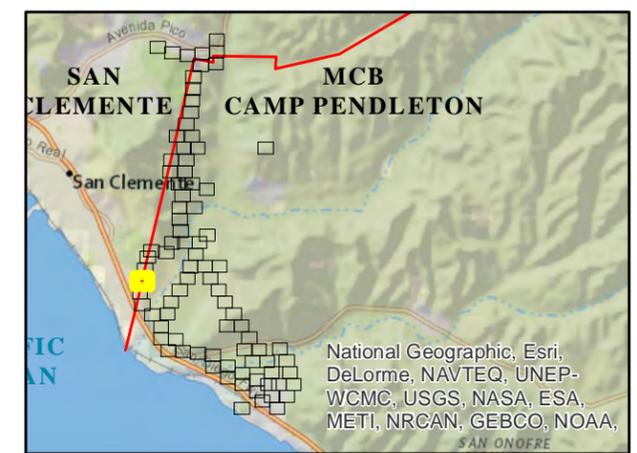
- Topping Segment (green line)

Access

- Access Road (dashed black line)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (pink)
- Disturbed Habitat (yellow)
- Urban/Developed (cyan)



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work (H symbol)
- Top Pole (T symbol)

Project Features

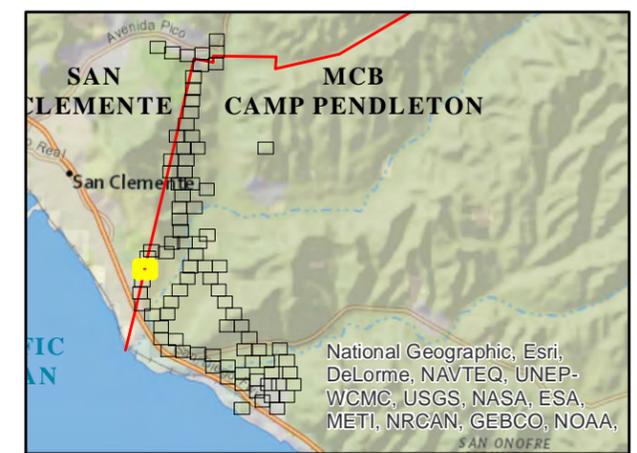
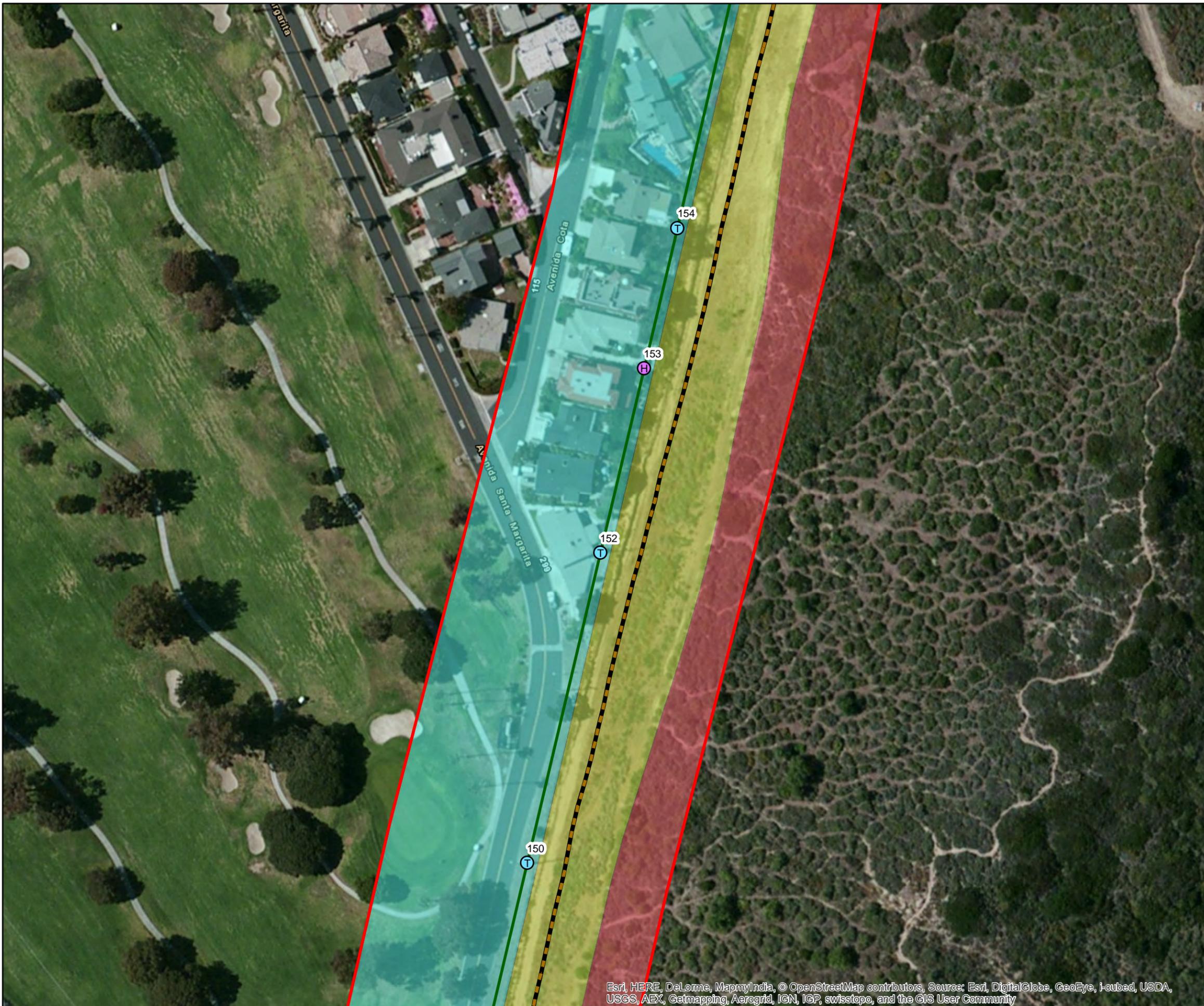
- Topping Segment (green line)

Access

- Access Road (dashed black line)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (pink)
- Disturbed Habitat (yellow)
- Urban/Developed (cyan)



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work (H symbol)
- Top Pole (T symbol)

Project Features

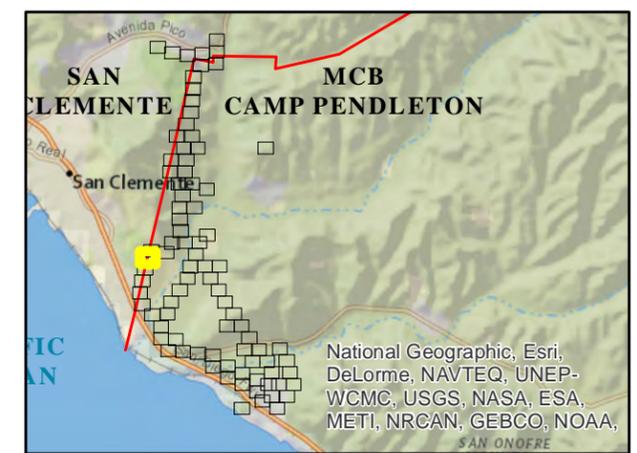
- Topping Segment (green line)

Access

- Non-TCM Road (dashed black line)
- Footpath (yellow dashed line)
- Overland Travel (blue dashed line)
- Access Road (black dashed line)
- Stringing Site (blue dashed box)
- Project Study Area (red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (pink)
- Disturbed Habitat (yellow)
- Southern Sycamore-Alder Riparian Woodland (purple)
- Urban/Developed (cyan)



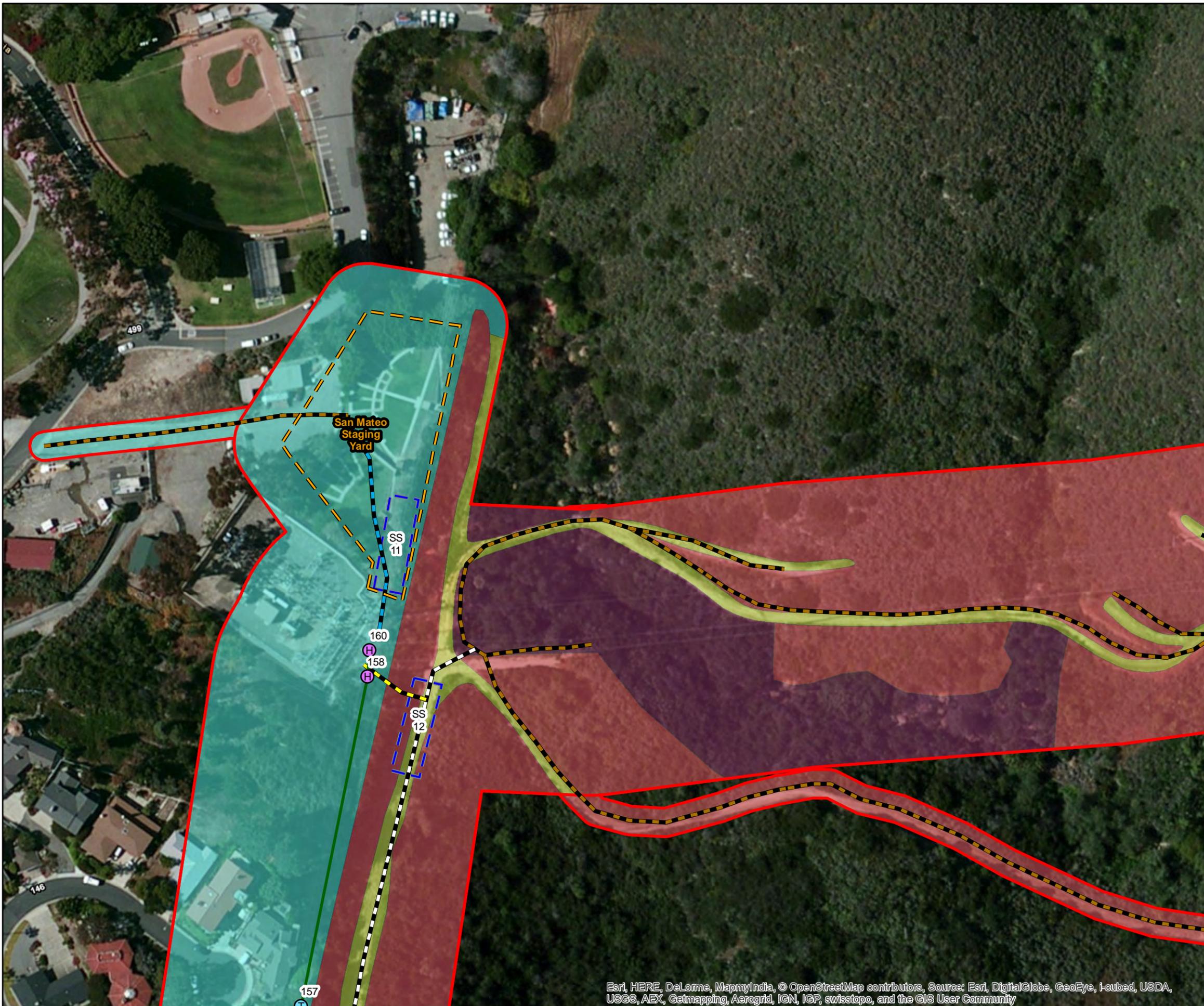
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 Projection: Lambert Conformal Conic
 Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Project Utility Poles

- Overhead Work (Purple circle with 'H')
- Top Pole (Blue circle with 'T')

Project Features

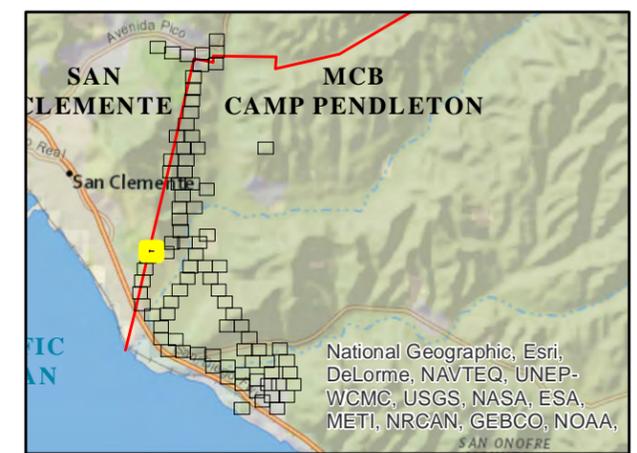
- Topping Segment (Green line)

Access

- Non-TCM Road (Black dashed line)
- Footpath (Yellow dashed line)
- Overland Travel (Blue dashed line)
- Access Road (Black dashed line with yellow border)
- Stringing Site (Blue dashed line)
- Project Study Area (Red outline)

Vegetation Type

- Diegan Coastal Sage Scrub (Pink)
- Disturbed Habitat (Yellow)
- Southern Sycamore-Alder Riparian Woodland (Purple)
- Urban/Developed (Cyan)



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983



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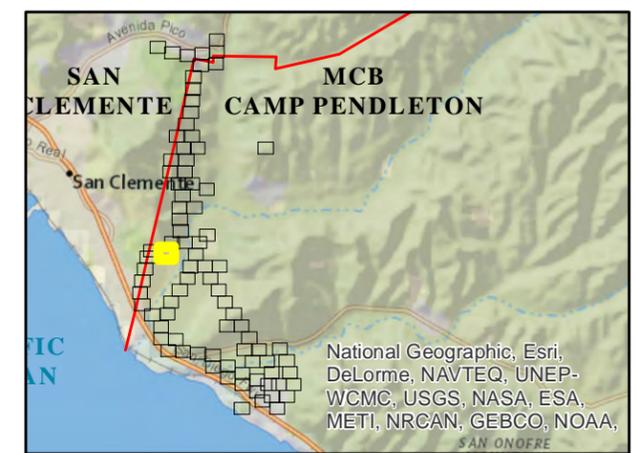
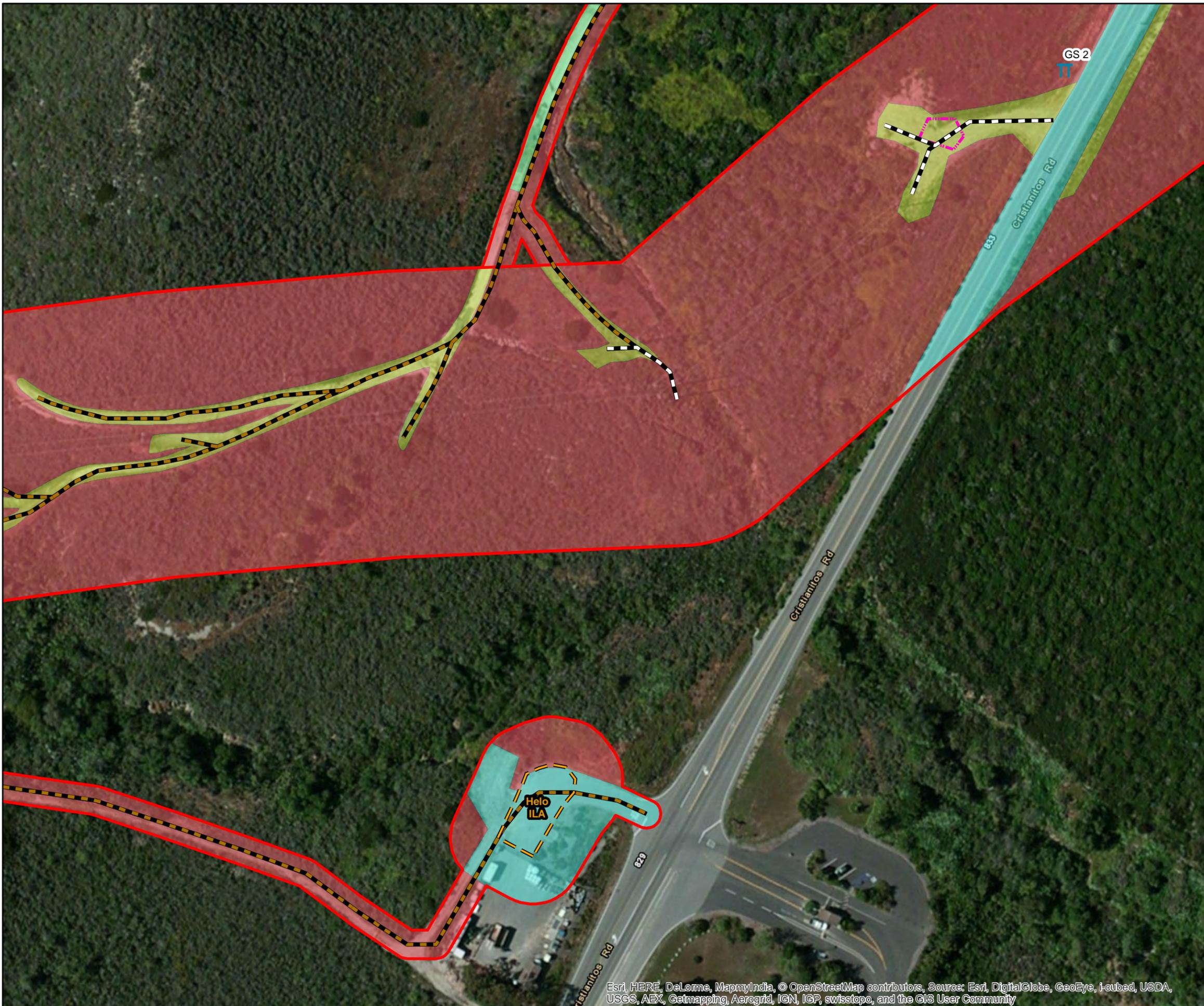
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1 inch = 100 feet @11" x 17"



LEGEND

- Guard Structure
- Access**
- Non-TCM Road
- Access Road
- Work/Staging/Turnaround Area
- Project Study Area
- Vegetation Type**
- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland
- Urban/Developed



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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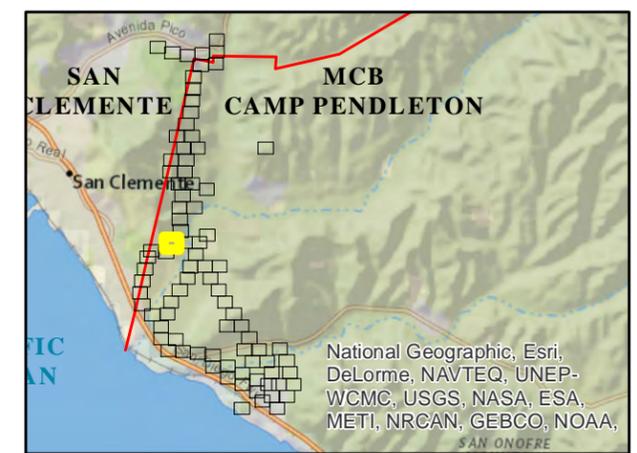
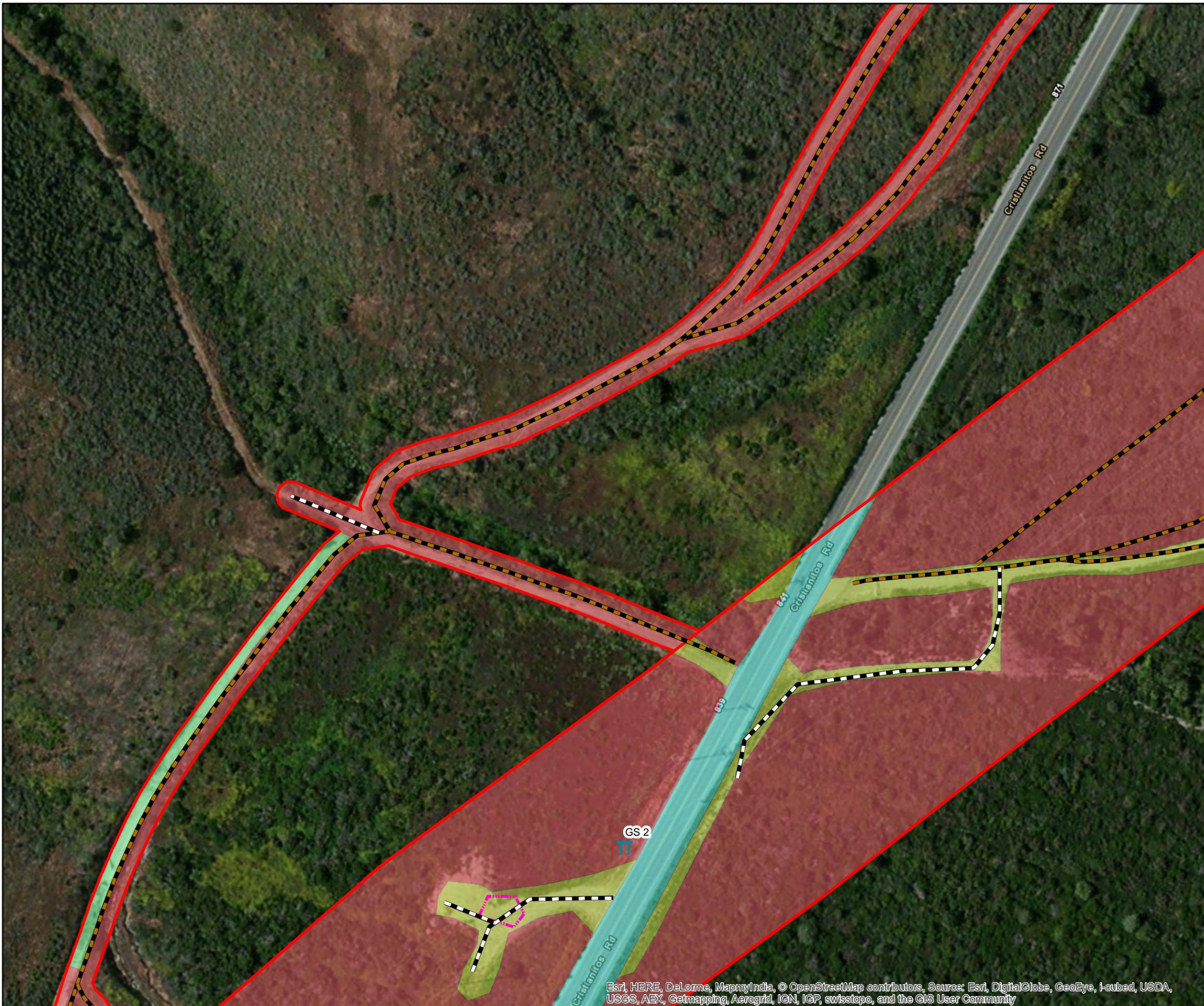
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1 inch = 100 feet @11" x 17"



LEGEND

- Guard Structure
- Access**
- Non-TCM Road
- Access Road
- Access Road
- Work/Staging/Turnaround Area
- Project Study Area
- Vegetation Type**
- Diegan Coastal Sage Scrub
- Disturbed Habitat
- Non-native Grassland
- Urban/Developed



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 Data Source: SDG&E
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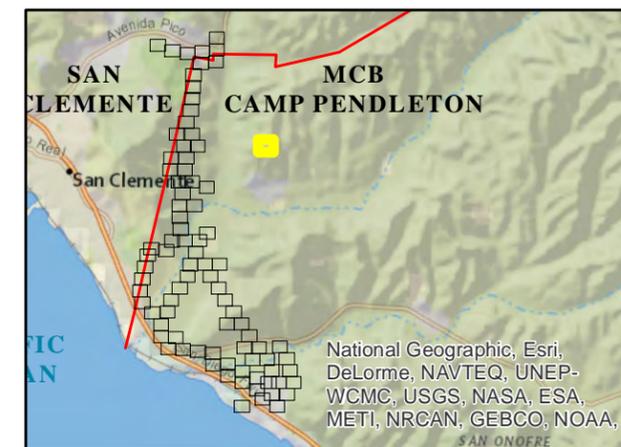
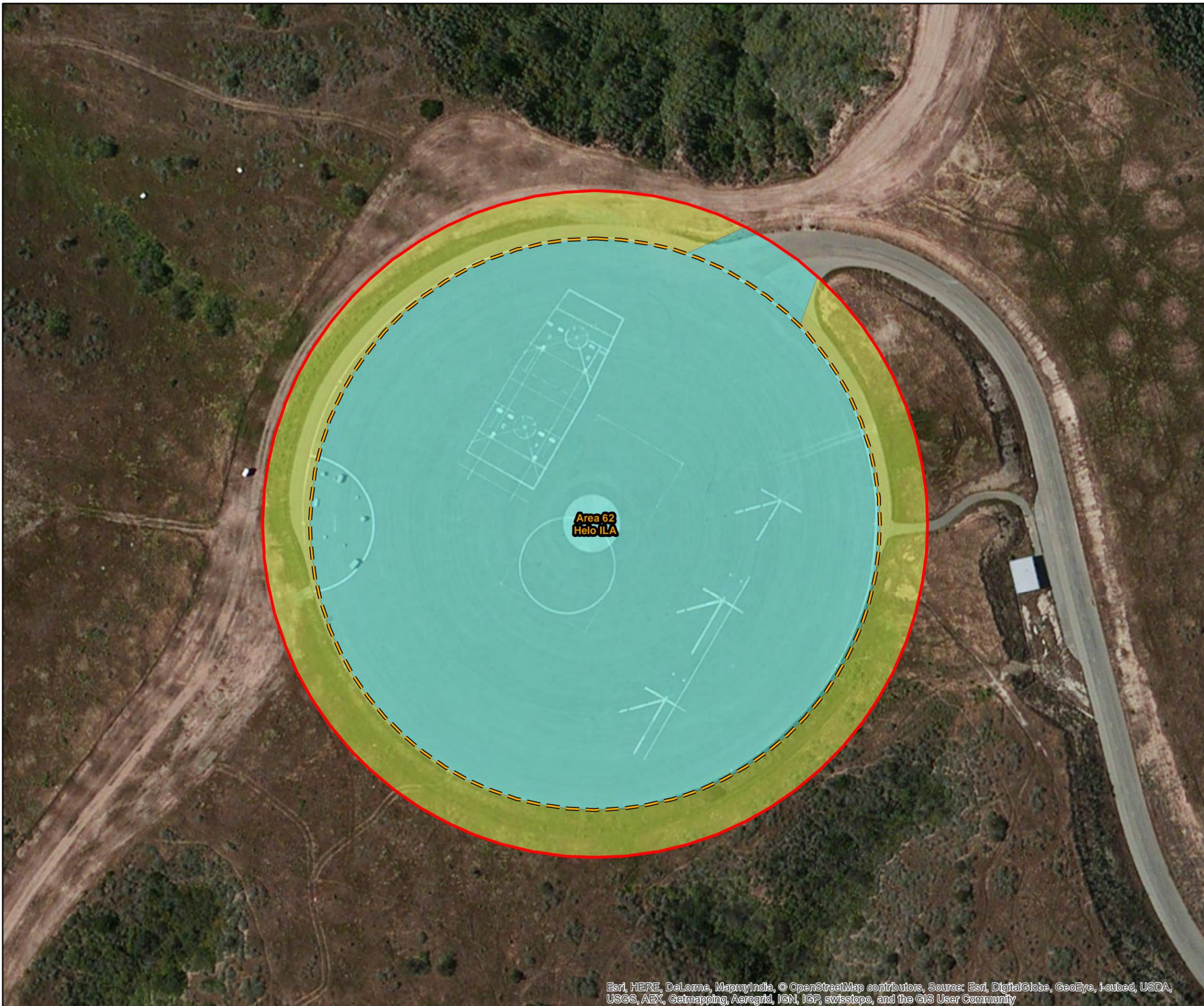


1 inch = 100 feet @11" x 17"



LEGEND

- Project Study Area
- Vegetation Type**
- Disturbed Habitat
- Urban/Developed



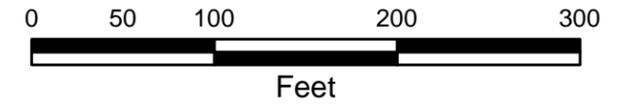
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Datum: North American 1983



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1 inch = 100 feet @11" x 17"



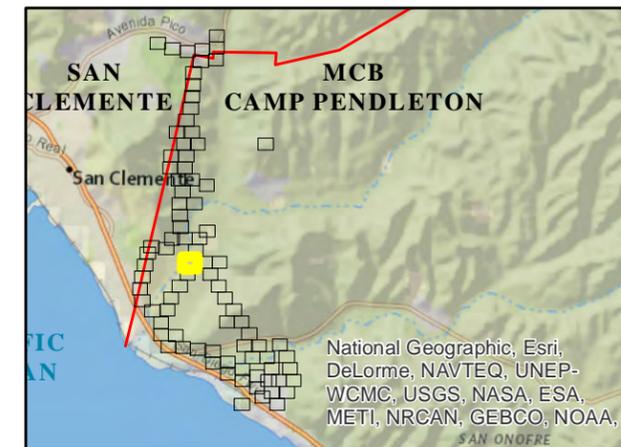
LEGEND

Access

- Non-TCM Road
- Access Road
- Project Study Area

Vegetation Type

- Disturbed Habitat



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Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Access

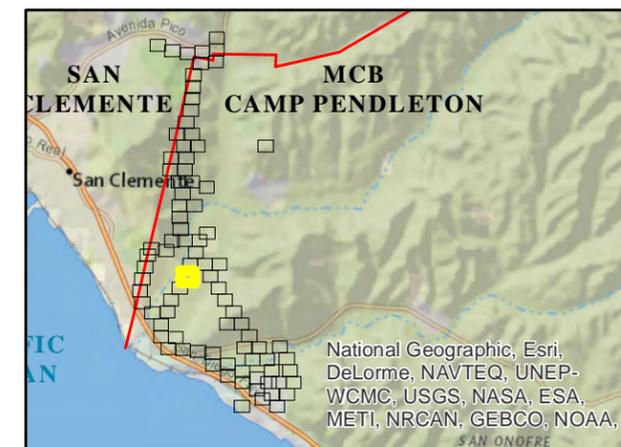
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Disturbed Habitat



Created By Pangea Biological, June 2016
Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Access

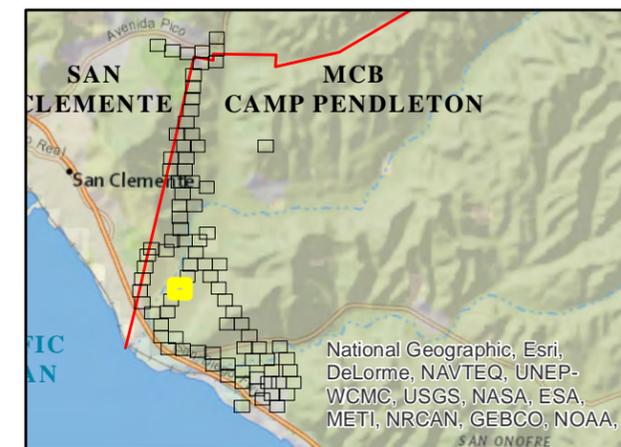
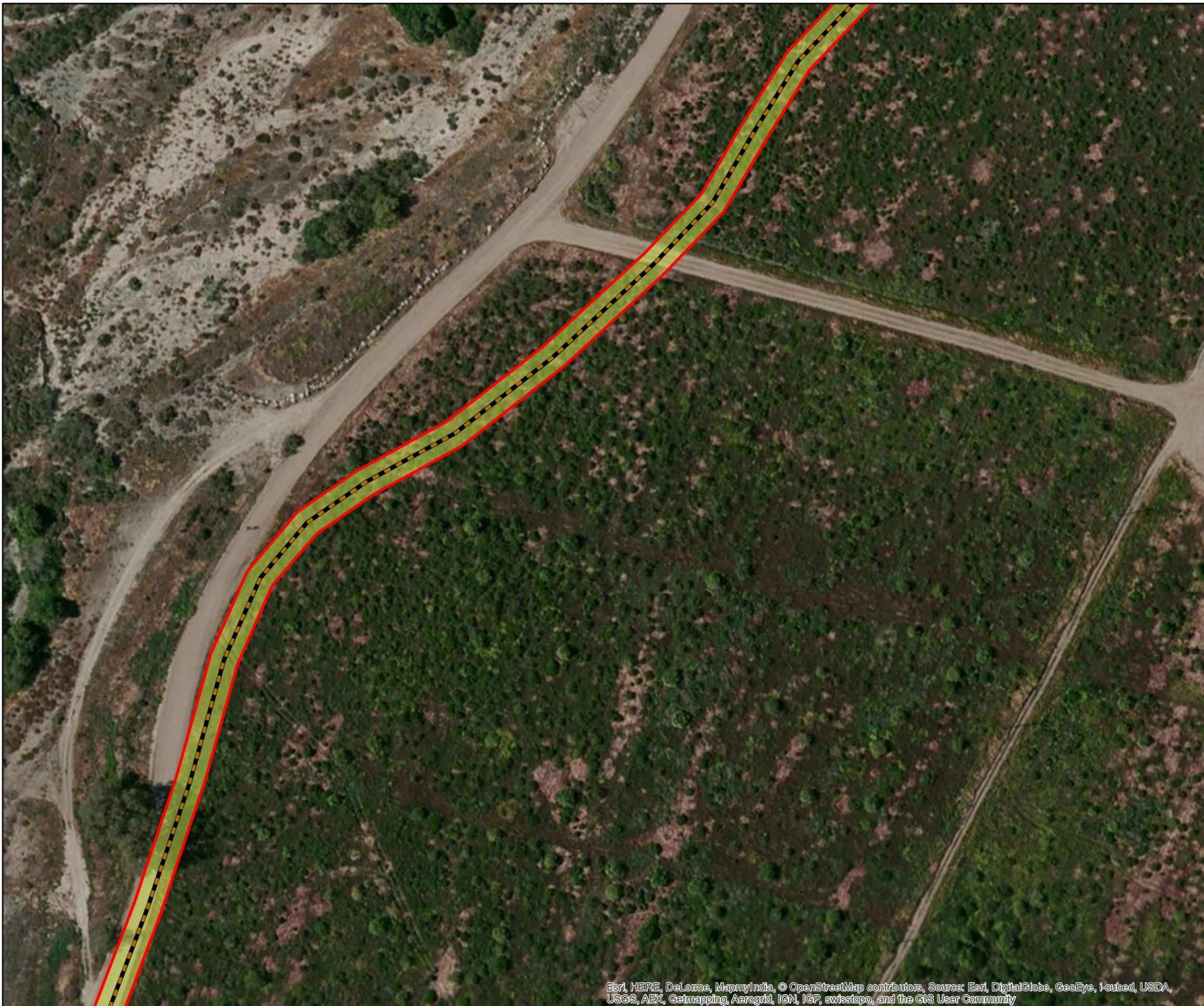
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Disturbed Habitat



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Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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1 inch = 100 feet @11" x 17"



LEGEND

Access

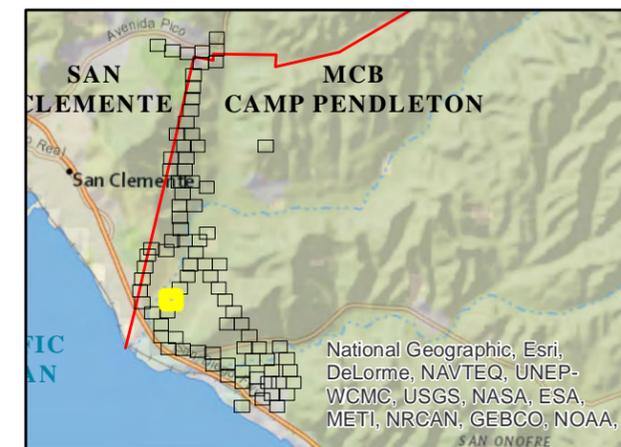
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Disturbed Habitat



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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Datum: North American 1983



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1 inch = 100 feet @11" x 17"



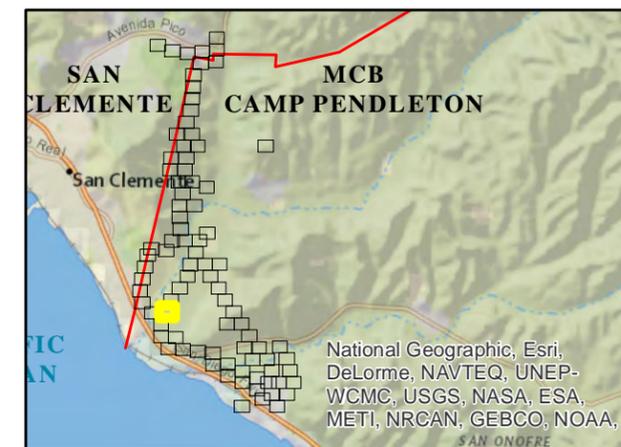
LEGEND

Access

- Access Road
- Project Study Area

Vegetation Type

- Disturbed Habitat



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Data Source: SDG&E
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1 inch = 100 feet @11" x 17"



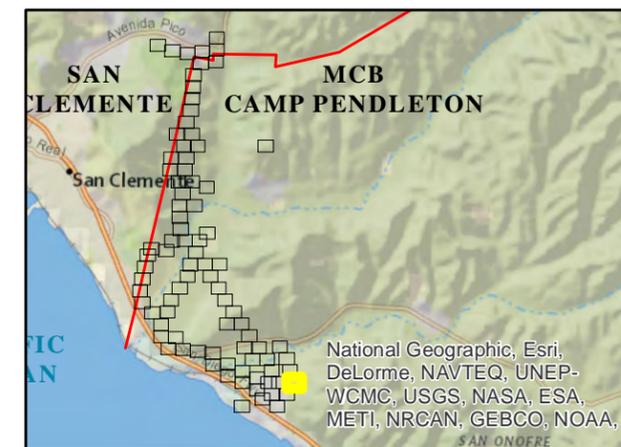
LEGEND

Access

- Non-TCM Road
- Access Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Disturbed Habitat



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1 inch = 100 feet @11" x 17"



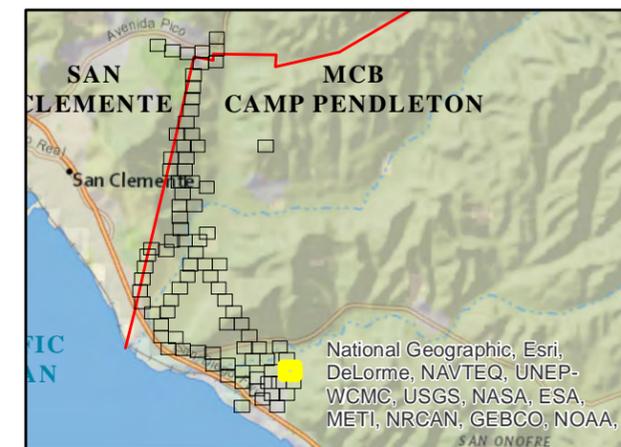
LEGEND

Access

- Non-TCM Road

Vegetation Type

- Diegan Coastal Sage Scrub



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Datum: North American 1983



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1 inch = 100 feet @11" x 17"



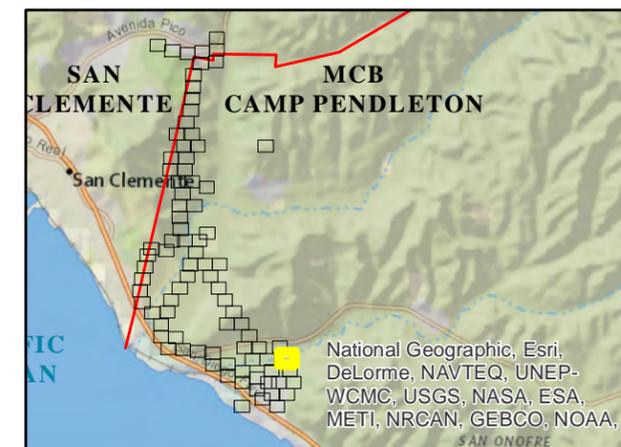
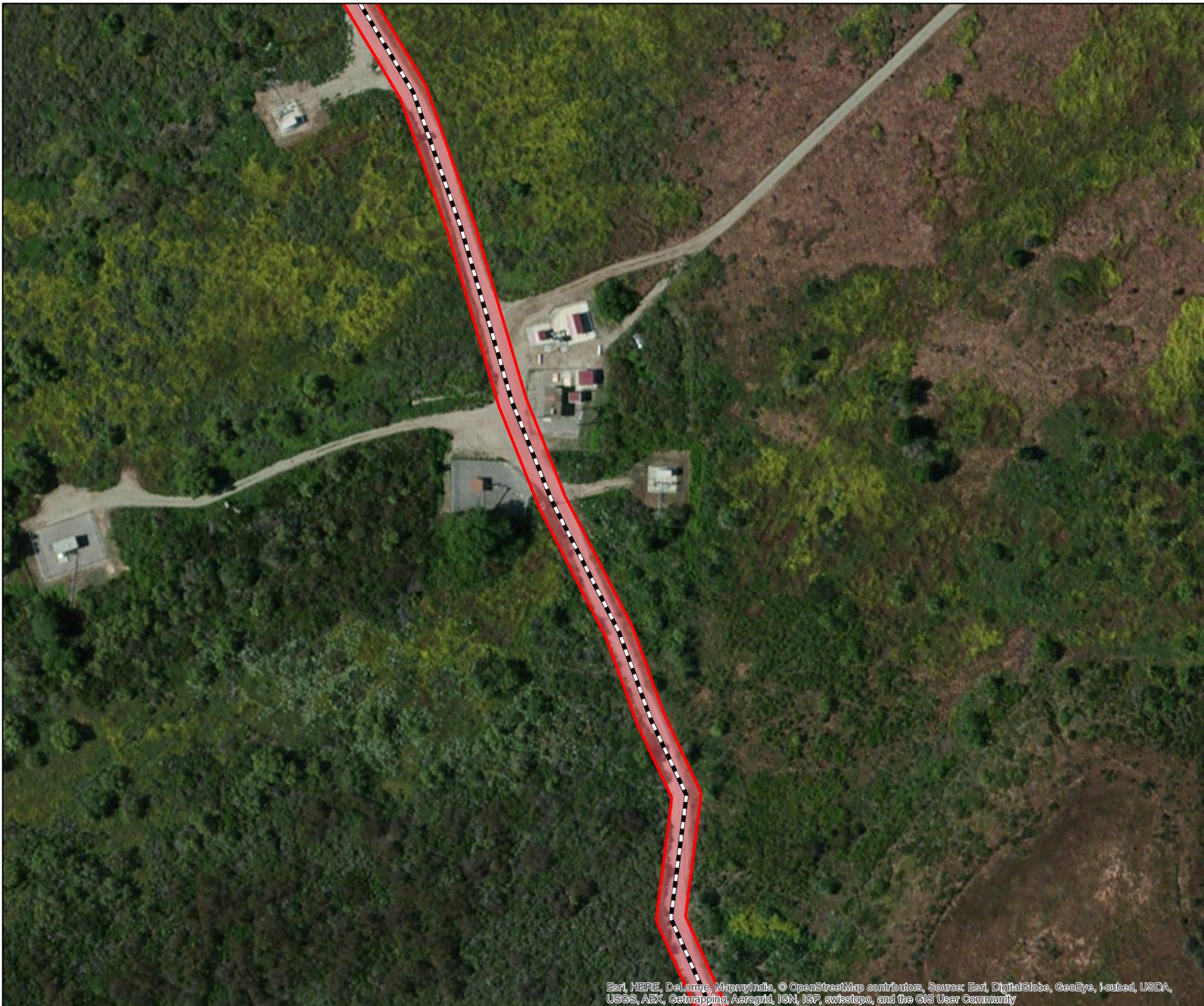
LEGEND

Access

- Non-TCM Road

Vegetation Type

- Diegan Coastal Sage Scrub



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Data Source: SDG&E
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Datum: North American 1983



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1 inch = 100 feet @11" x 17"



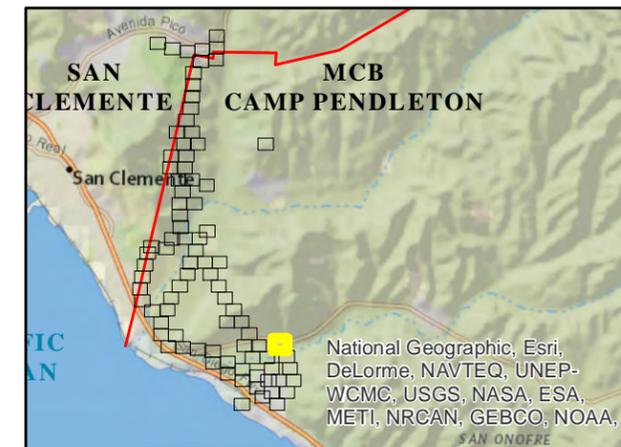
LEGEND

Access

- Non-TCM Road
- Project Study Area

Vegetation Type

- Diegan Coastal Sage Scrub
- Mulefat Scrub
- Nonvegetated Channel



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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1 inch = 100 feet @11" x 17"



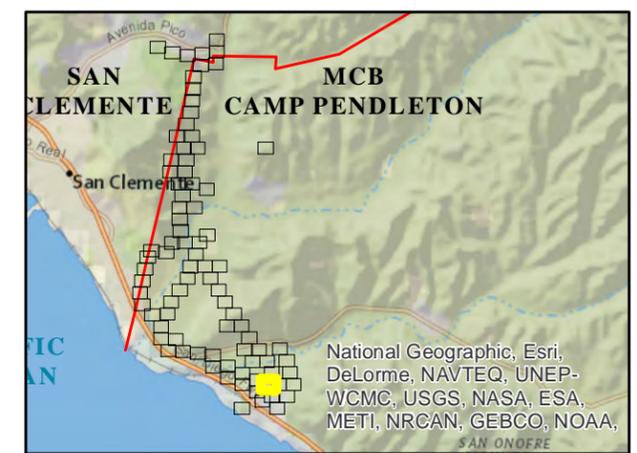
LEGEND

Project Utility Poles
 (D) Direct Bury

Project Features
 Overhead Route

Access
 Access Road
 Project Study Area

Vegetation Type
 Diegan Coastal Sage Scrub
 Disturbed Habitat
 Non-native Grassland
 Urban/Developed



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
 Projection: Lambert Conformal Conic
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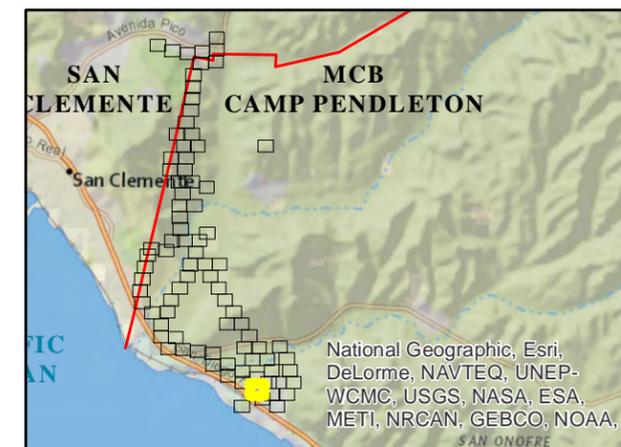
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1 inch = 100 feet @11" x 17"



LEGEND

- Project Study Area
- Vegetation Type**
- Urban/Developed



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1 inch = 100 feet @11" x 17"

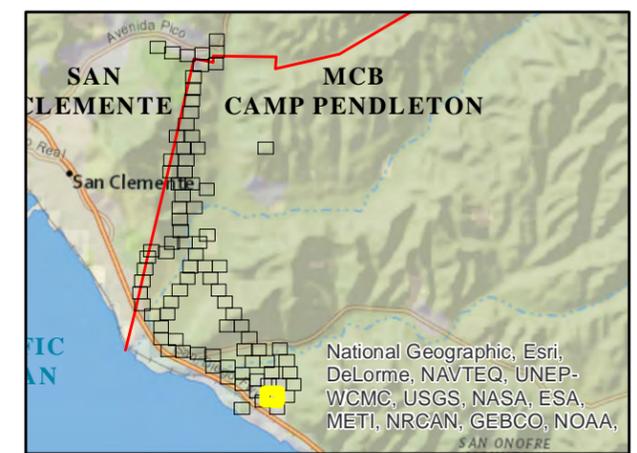


LEGEND

- Project Study Area
- Vegetation Type**
- Urban/Developed



Songs Mesa
Staging Yard



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Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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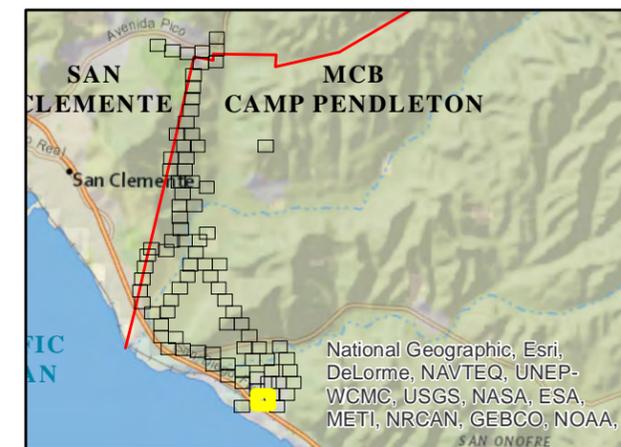
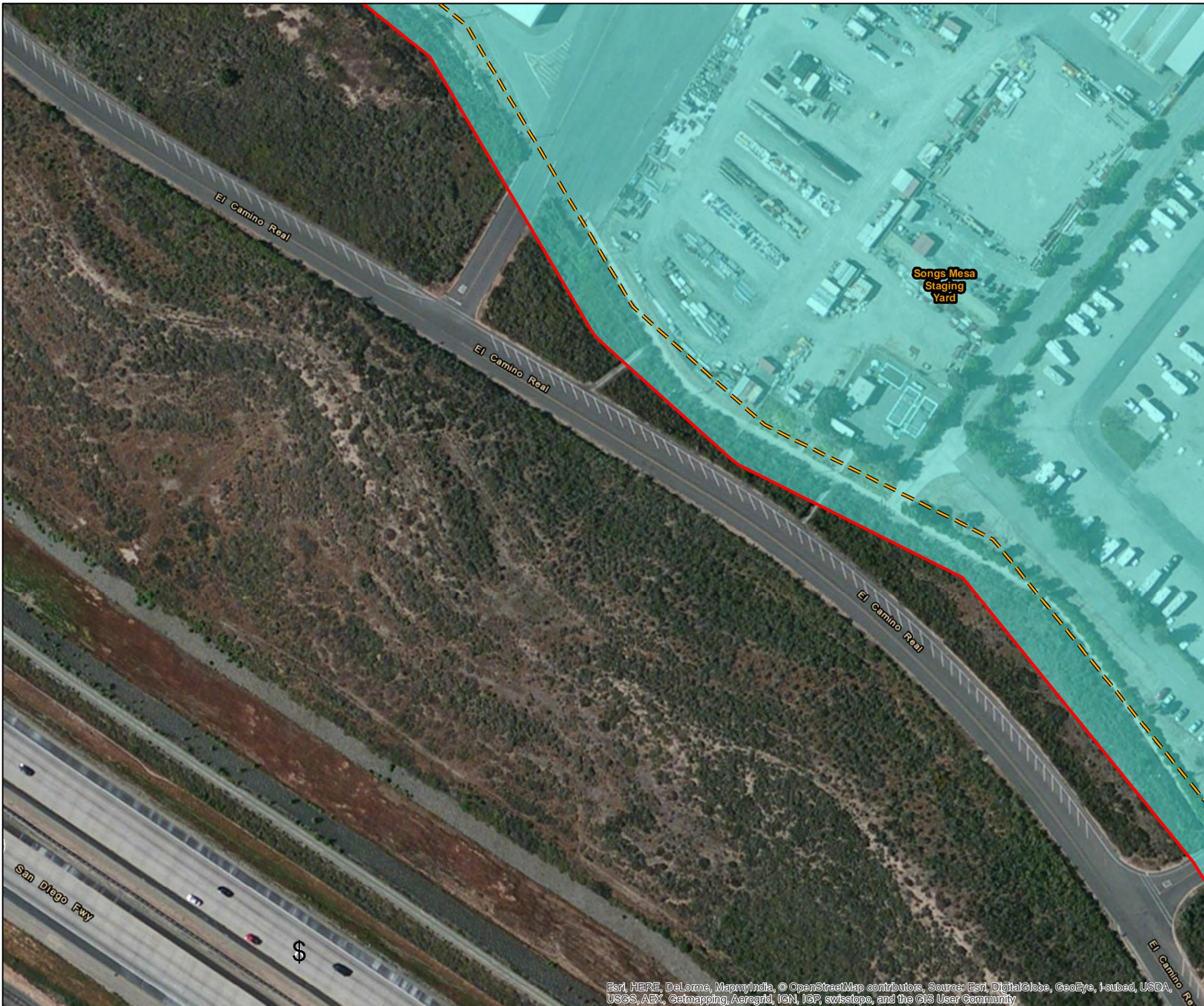
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1 inch = 100 feet @11" x 17"



LEGEND

- Project Study Area
- Vegetation Type**
- Urban/Developed



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Data Source: SDG&E
Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
Projection: Lambert Conformal Conic
Datum: North American 1983



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1 inch = 100 feet @11" x 17"



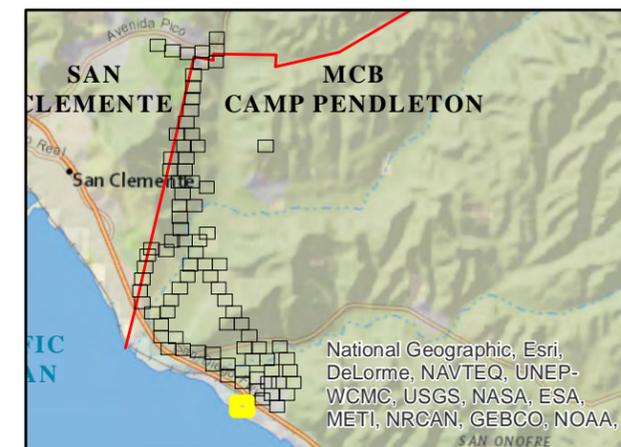
LEGEND

Access

- Access Road
- Project Study Area

Vegetation Type

- Urban/Developed



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 Data Source: SDG&E
 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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1 inch = 100 feet @11" x 17"



LEGEND

Access

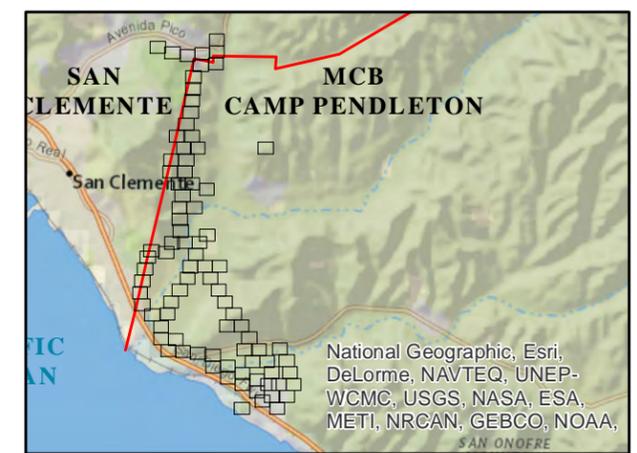
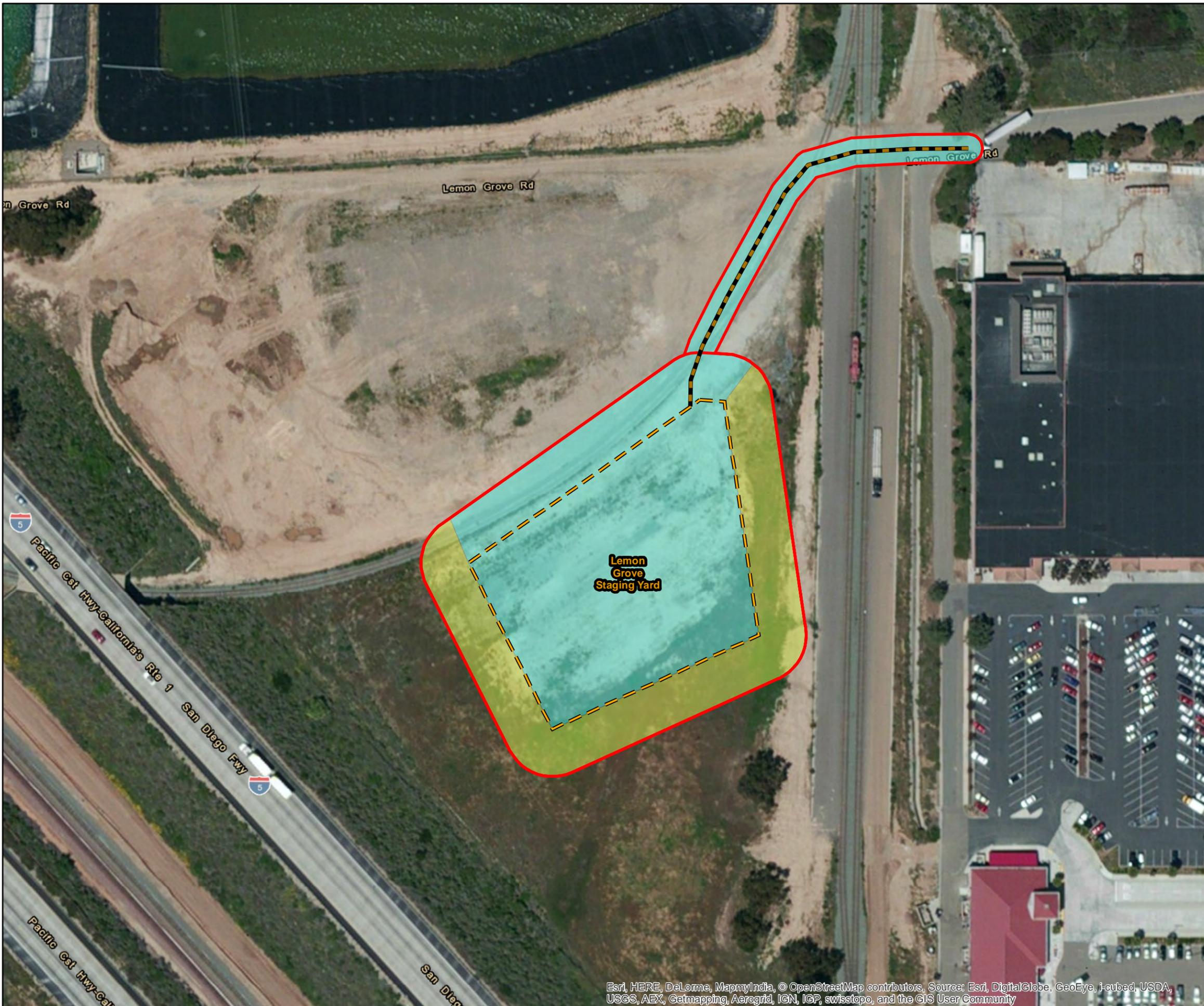
- Access Road

Project Study Area

- Project Study Area

Vegetation Type

- Disturbed Habitat
- Urban/Developed



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 Coordinate System: NAD 1983 StatePlane California VI FIPS 0406 Feet
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ATTACHMENT B

Table 1: Vegetation Communities Located Within the PSA

Vegetation Community	Approximate Area in Acres
<i>Grassland</i>	
Non-native Grassland	12.26
<i>Subtotal</i>	12.26
<i>Scrubland</i>	
Diegan Coastal Sage Scrub	278.49
<i>Subtotal</i>	278.49
<i>Riparian/Wetland</i>	
Mulefat Scrub	8.15
Non-vegetated Channel	1.66
Southern Sycamore-Alder Riparian Woodland	13.63
Southern Willow Scrub	9.00
<i>Subtotal</i>	32.44
<i>Upland Woodland</i>	
Eucalyptus Woodland	0.37
Coast Live Oak Woodland	0.48
<i>Subtotal</i>	0.85
<i>Disturbed/Developed/Unknown</i>	
Disturbed Habitat	123.12
Urban/Developed	165.79
<i>Subtotal</i>	288.91
TOTAL	612.95

ATTACHMENT C

Table 2: Estimated Construction Impacts to Vegetation Communities

Vegetation Community	Anticipated Area of Impact in Square Feet	Anticipated Area of Impact in Acres
<i>Temporary Impacts</i>		
Non-native Grassland	64,882	1.49
Diegan Coastal Sage Scrub	186,454	4.28
Southern Sycamore-Alder Riparian Woodland	625	0.015
Disturbed Habitat	565,100	12.97
Urban/Developed	4,249,493	97.56
Total Estimated Temporary Impacts	5,066,554	116.32
<i>Permanent Impacts</i>		
Non-native Grassland	147	0.003
Diegan Coastal Sage Scrub	1,850	0.042
Southern Sycamore Alder Riparian Woodland	0	0
Disturbed Habitat	743	0.017
Urban/Developed	687	0.016
Total Estimated Permanent Impacts	3,427	0.078

Table 3: Estimated Impacts to Sensitive and Non-Sensitive Habitats

Type of Impact	Total Estimated Area of Impact in Square Feet	Total Estimated Area of Impact in Acres
<i>Temporary Impacts</i>		
Total Estimated Temporary Impacts to Native Vegetation Communities (Diegan Coastal Sage Scrub, Nonnative Grassland, Southern Sycamore-Alder Riparian Woodland)	251,961	5.79
Total Estimated Temporary Impacts to Non-Sensitive Vegetation Communities (Disturbed, Developed, Bare Ground, and Landscape/Ornamental Areas)	4,814,593	110.53
Total Estimated Temporary Impacts	5,066,554	116.32
<i>Permanent Impacts</i>		
Total Estimated Permanent Impacts to Native Vegetation Communities (Diegan Coastal Sage Scrub, Nonnative Grassland, Southern Sycamore-Alder Riparian Woodland)	1,997	0.045
Total Estimated Permanent Impacts to Non-Sensitive Vegetation Communities (Disturbed, Developed, Bare Ground, and Landscape/Ornamental Areas)	1,430	0.033
Total Estimated Permanent Impacts	3,427	0.078