

August 3, 2015

Claire Hodgkins
Ecology and Environment, Inc.
505 Sansome Street, Suite 300
San Francisco, CA 94111

Subject: Results of 2015 Protocol Rare Plant Surveys

Dear E&E/CPUC:

Please find attached the full survey report documenting the methods and results of the protocol rare plant surveys for 2015. Below is a summary of the results of those protocol surveys. This is an update on the biological information in support of the CPUC preparing an Environmental Impact Report (EIR).

Protocol rare plant surveys were undertaken in June 2015 during the bloom period for rare annuals with a moderate potential to occur and after visits to reference populations determined that each of the rare plants were blooming or apparent. Reference populations were visited prior to surveys, in accordance with the California Department of Fish and Wildlife (CDFW) protocol.

The three rare plant species with a moderate potential to occur: southern tarplant (*Centromadia parryi* ssp. *australis*), Plummer's mariposa-lily (*Calochortus plummerae*), and intermediate mariposa-lily (*C. weedii* var. *intermedius*) were not observed within the project footprint and, therefore, determined to be absent. Two species with the native plant rank of 4.2, California black walnut (*Juglans californica*) and Coulter's matilija poppy (*Romneya coulteri*), were observed; however, the poppy is outside expected impact areas and planted as a part of the Whittier Narrows Nature Center. In addition to the walnuts reported in the Proponent's Environmental Assessment (PEA), eight additional walnut individuals were documented in the study area, six of which were on the telecommunications route. Federally endangered Nevin's barberry (*Berberis nevinii*), which was previously documented in the PEA, was determined to be a planted individual along the paved nature trail in the native plant gardens of the Nature Center and also would not be impacted by construction.

Please let us know if there are any additional questions or comments.

Sincerely,

Brian J. Bielfelt
Biologist
Natural and Cultural Resources Division
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Attachments: Mesa Substation, Rare Plant Report

Mesa Substation Project

July 2015

Plant Survey Report

El Monte, Los Angeles, Mt. Wilson, and South Gate
United States Geological Service 7.5-minute Quadrangle Maps
San Bernardino Base and Meridian within non-sectioned portions of the Potrero Grande, San
Antonio, San Francisquito, San Rafael, and Santa Anita Land Grants.

Prepared By



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1.0 INTRODUCTION

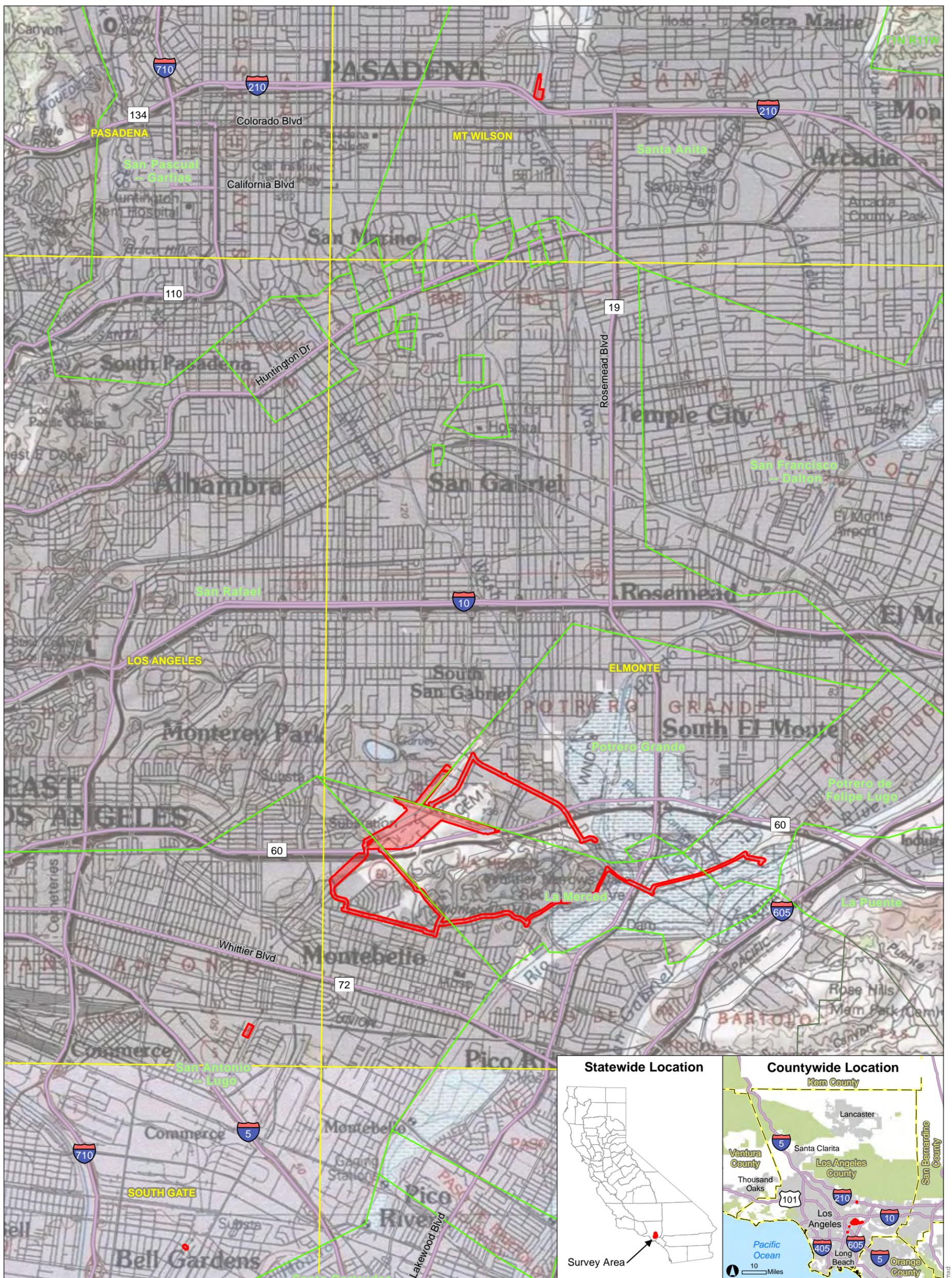
Southern California Edison (SCE) is proposing the Mesa 500 kilovolt (kV) Substation Project hereafter referred to as the Project; Figure 1). The Project consists of the following main components:

- ✓ Construction of the proposed Mesa Substation and demolition of the existing Mesa Substation within the City of Monterey Park;
- ✓ Modification of telecommunications structures within the cities of Monterey Park, Montebello, Rosemead, South El Monte, and Commerce, and in portions of unincorporated Los Angeles County (telecom route). Areas between poles are not expected to be impacted; the telecom line will be walked between poles. However, pull locations will be needed along the route;
- ✓ Conversion of an existing distribution source line from overhead to underground between three street lights on Loveland Street within the City of Bell Gardens; and
- ✓ Installation of a temporary 220 kV line loop-in at Goodrich Substation within the City of Pasadena.

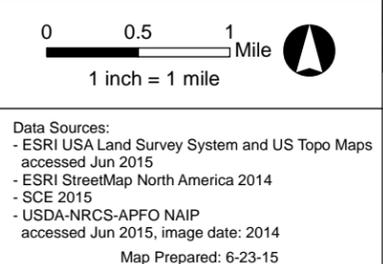
NOREAS Inc. (NOREAS) has been contracted to survey common and special-status plants within discrete portions of the Project limits. The Project footprint also overlaps with portions of Segments 7, 8, 9, and 11 of the Tehachapi Renewable Transmission Project. SCE prepared a Biological Resources Technical Report (BRTR) for the Project and identified five rare plant species that have a potential to occur within the project study area. This report describes the general procedures, survey, and data analysis methods related to targeted surveys for southern California black walnut (*Juglans californica*), Nevin's barberry (*Berberis nevinii*), southern tarplant (*Centromadia parryi* ssp. *australis*), Plummer's mariposa-lily (*Calochortus plummerae*), and intermediate mariposa-lily (*C. weedii* var. *intermedius*).

For the purposes of this report, the "survey area" includes the Project's proposed impact area and a 100-foot buffer, consistent with the Project's BRTR (Figure 2). As such, the survey area includes all plant populations likely to be affected directly or indirectly by the Project; and is not merely the lands directly associated with proposed ground disturbances. Based on the BRTR, the dominant land cover types within the survey area include California Annual Grassland, California Walnut Woodland, Coast Live Oak Woodland, Coastal Sage Scrub, Disturbed/Developed, Mulefat Scrub, Non-Native Giant Reed, Non-Native Woodland, Riparian Woodland, Ruderal, Ephemeral Drainage, Intermittent Drainage, and Man-Induced Wetland.

The Project can be found on the El Monte, Los Angeles, Mt. Wilson, and South Gate United States Geological Service (USGS) 7.5-minute Quadrangle Maps; San Bernardino Base and Meridian within non-sectioned portions of the Potrero Grande, San Antonio (Lugo), San Francisquito (Dalton), San Rafael, and Santa Anita land grants. The elevation of the Project ranges from approximately 200 to 300 ft. above mean sea level.



- Survey Area
- County Boundary (inset)
- USGS 7.5-Minute Quadrangle Map Boundary
- Urban Area (inset)
- Land Grant Boundary
- Water Body (inset)
- Park or National Forest (inset)
- Major Highway



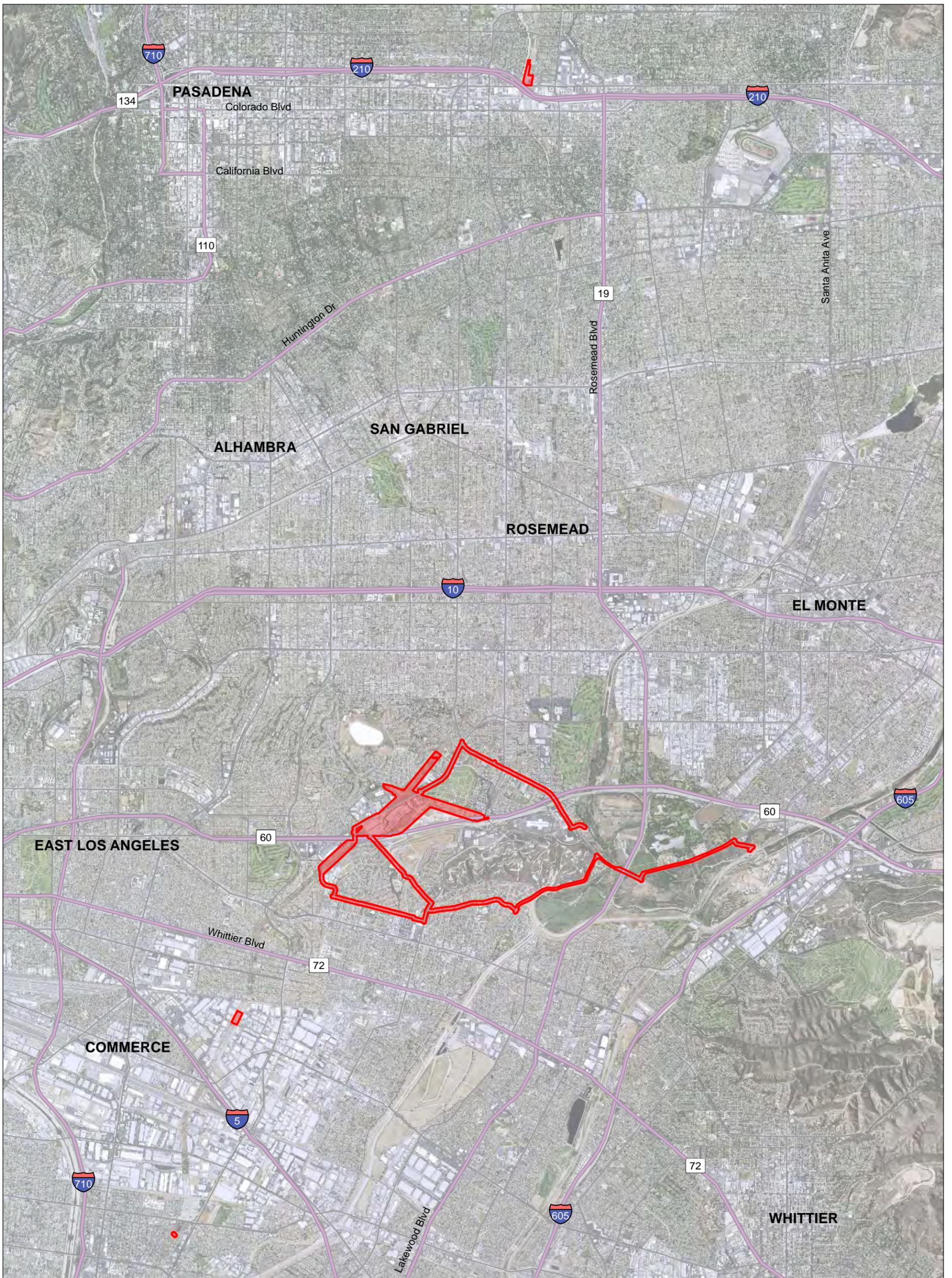
Data Sources:
 - ESRI USA Land Survey System and US Topo Maps accessed Jun 2015
 - ESRI StreetMap North America 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jun 2015, image date: 2014
 Map Prepared: 6-23-15

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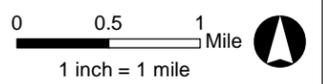
The Survey Area is located on the El Monte, Los Angeles, Mt. Wilson and South Gate USGS 7.5-minute quadrangle maps; San Bernadino Base & Meridian, in unsectioned portions of the Potrero Grande, San Antonio (Lugo), San Francisquito (Dalton), San Rafael and Santa Anita Land Grants.

Figure 1. Regional Location

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 Survey Area (454 acres)
 Major Highway



Data Sources:
 - ESRI StreetMap North America 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP
 accessed Jun 2015, image date: 2014

Map Prepared: 6-22-15

Prepared by:



Figure 2. Survey Area Vicinity

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2.0 METHODS

2.1 Rare Plant Survey

Prior to beginning field surveys in 2015, botanical specialists were consulted and available information from resource management plans and relevant documents were reviewed to determine the locations and types of special-status species¹ that have the potential to exist within and adjacent to the survey area. Resources were evaluated within several miles of the Project. The primary materials reviewed included, but were not limited to, the following:

- ✓ SCE's BRTR for the Mesa 500 kV Substation Project
- ✓ U.S. Fish and Wildlife Service (USFWS) Critical Habitat Mapper and File Data (USFWS 2015a);
- ✓ USFWS Ventura Field Office Species List for Los Angeles County (USFWS 2015b);
- ✓ California Natural Diversity Database maintained by the California Department of Fish and Wildlife (CDFW; CDFW 2015);
- ✓ California Native Plant Society (CNPS) Electronic Inventory (CNPS 2015);
- ✓ Aerial Photographs (Microsoft Corporation 2015); and
- ✓ General Biological Data Provided by Insignia Environmental 2015 (Personal communications in May and June of 2015 with Brian J. Bielfelt and Ashley Stewart of SCE).

Prior to field surveys, a biologist visited a representative number of reference populations in 2015 to ensure that survey timing was appropriate and to assess local variations in plant phenology (Figure 3). Reference populations were visited for all three herbaceous species that have a potential to occur. However, Plummer's mariposa-lily was used to gauge the start of the 2015 focused plant surveys because all the other species area bloom and/or are apparent during this species' blooming period. Reference populations were visited² on 21, 22, 23 May for Plummer's mariposa-lily and intermediate mariposa-lily. To addition to the literature review, pedestrian-based field surveys were performed by NOREAS on 30 and 31 May, and 03, 04, 05, 06, 08, 09, 11, and 12 June 2015 to assess previously mapped general community types, dominant vegetation, and targeted plant species present within communities. Plants were identified to the lowest taxonomic level sufficient to determine whether the species detected were non-native, native, or special-status. Plants of uncertain identity were subsequently identified from taxonomic keys (Baldwin et al. 2012). Scientific and common species names were recorded according to Baldwin et al. (2012).

Field survey methods were derived from the standardized guidelines issued by the CDFW (CDFW 2009) and CNPS (CNPS 2001). The field surveys were conducted to determine the confirm presence/absence of following special-status plant species within the survey area: southern California black walnut, Nevin's barberry, Southern tarplant, Plummer's mariposa-lily and Intermediate mariposa-lily. However, all plants encountered during the surveys were identified, as specified by CDFW and CNPS survey guidelines. These species were determined to have a potential to occur within the Project study area in

¹ For the purposes of this analysis, "special-status plant species" refers to any species that has been afforded special protection by federal, state, or local resource agencies (e.g., U.S. Fish and Wildlife Service [USFWS], U.S. Forest Service, California Department of Fish and Wildlife [CDFW]) or resource conservation organizations (e.g., CNPS) and excludes Joshua Trees.

² Southern tarplant was observed by SCE personnel in late May 2015. Personal communications with Brian J. Bielfelt. This reference population is within a gun club. The property was locked when NOREAS attempted to gain access 21, 22, 23, 30, and 31 May 2015. Specifics associated with this reference locale are available from SCE upon request.

the BRTR. Surveys were conducted during the appropriate blooming period³ for the target species within the region.

Discrete locales proposed for disturbance within the survey area were deliberately selected for census based on suitable habitat for targeted flora⁴. Within the survey area, the actual sampling locales was established and prioritized for evaluation based on their potential to support targeted species. Sampling locations varied from >15 to 30-meters from locales where Project related disturbances are proposed (e.g., locations where fiber optics and new cables, and/or where facilities are scheduled for replacement, repair, new facility installation, and pull/tension points). The survey routes and transect widths were determined in the field to efficiently and thoroughly cover the assigned survey area⁵. An irregular, meandering path was also walked by each team member in the field while keeping more-or-less parallel with one another – to the greatest extent practical, maintaining the general heading determined for a given survey location. Detailed color aerial photos and maps were also used to assist with field navigation; as well as a Trimble hand-held Global Positioning System (GPS). The GPS was uploaded with a geodatabase and data dictionary for efficient collection of data in Geographic Information System (GIS). A complete list of plant species detected was recorded during the field survey. Whenever an individual or small patch (<10 individuals) of a target species was detected during field activities, its location was mapped and GPS coordinates obtained. When larger patches of plants were located, the perimeters of the patches were mapped and the number of individual plants within the patch counted (i.e., smaller patches of <50 individuals in less than 0.1 acres), or estimated (e.g., large patches > 0.1 acres with more than 50 individuals).

2.2 Additional Documentation in Conjunction with Rare Plant Surveys

NOREAS documented plant composition by establishing a quadrat-based system to disclose representative plants within each vegetation community type proposed for temporary disturbance within the survey area. (Figure 4). Twenty-seven randomly distributed monitoring stations were selected consisting of 1 × 1-m quadrats within each of the vegetation communities present within the survey area that are expected to experience ground disturbing activities. The monitoring stations were sampled to estimate the percent absolute cover for each representative species detected within the quadrat. Monitoring stations were located within the following plant communities: Man-Induced Wetland, Milkfat Scrub, Riparian Woodland, Ephemeral Drainage, California Annual Grassland, Non-native Woodland, Coastal Sage Scrub, Coast Live Oak Woodland, and Ruderal. Plant communities present within the study area where ground disturbance was not expected (e.g., namely the telecommunications route) did not have monitoring stations and composition was not documented beyond what was disclosed in the BRTR. Table 1 includes each stations cover type designation.

For standardization, the scientific notation was limited to two decimal places within digit terms (i.e., 0.00). Total cover of natives, non-natives, and bare ground were measured as a percentage of each 1 × 1-m quadrat. Additionally, absolute cover by quadrat was subsequently calculated as a percentage of natives and non-natives observed by species. For example, if the sample is 1 square meter (10.76 square ft.), and *Erigeron Canadensis* occurred over 0.46 square meters (5.00 square ft.) of this area, then the absolute cover of *Erigeron Canadensis* within this observation area was calculated to be 46.47%

³ Appropriate blooming periods were derived from the California Native plant Society's Inventory of Rare and Endangered Vascular Plants of California, 1994.

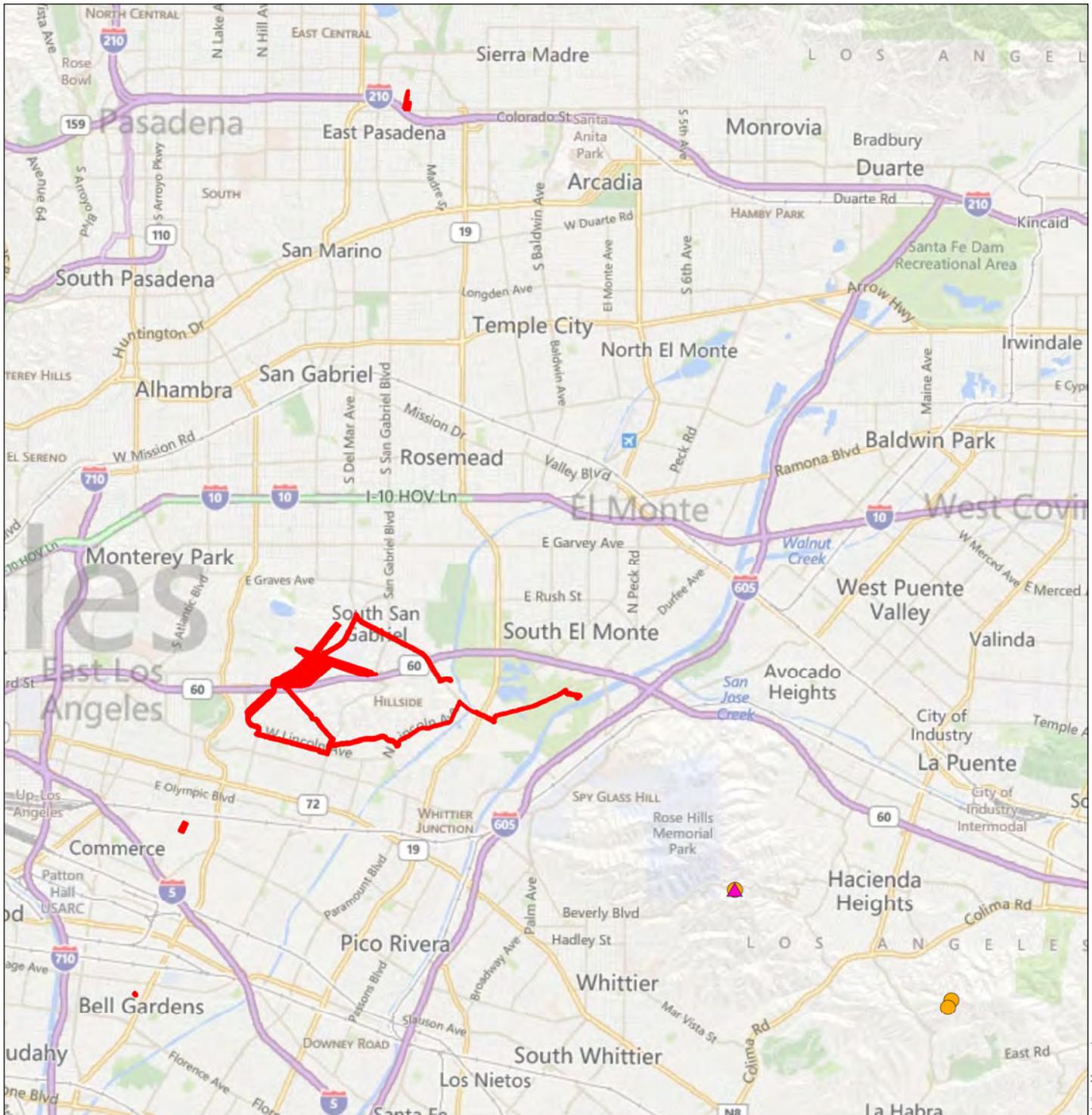
⁴ Paved lands and other disturbed/developed locations that did not support native vegetation or that were not proposed for disturbance were not surveyed.

⁵ Transect spacing was adjusted where necessary - reduced or expanded - to account for differences in terrain, vegetation density, and visibility during pedestrian-based surveys.

(5.00 divided by/10.76). Subsequently, the absolute cover by species was averaged among quadrat within the same vegetation communities (Table 2).

Table 1: Station Cover Type Designation.

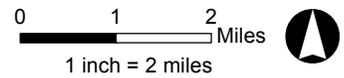
| Station Number | SCE Cover Type Designation |
|----------------|-----------------------------|
| 1 | Ruderal |
| 2 | California Annual Grassland |
| 3 | Riparian Woodland |
| 4 | Man-Induced Wetland |
| 5 | Man-Induced Wetland |
| 6 | Man-Induced Wetland |
| 7 | Mulefat Scrub |
| 8 | Mulefat Scrub |
| 9 | Ruderal |
| 10 | Coastal Sage Scrub |
| 11 | Coastal Sage Scrub |
| 12 | Coastal Sage Scrub |
| 13 | Ephemeral Drainage |
| 14 | Riparian Woodland |
| 15 | Ephemeral Drainage |
| 16 | Riparian Woodland |
| 17 | California Annual Grassland |
| 18 | Non-native Woodland |
| 19 | Ephemeral Drainage |
| 20 | California Annual Grassland |
| 21 | Non-native Woodland |
| 22 | Non-native Woodland |
| 23 | Coastal Sage Scrub |
| 24 | Coast Live Oak Woodland |
| 25 | Coast Live Oak Woodland |
| 26 | Coast Live Oak Woodland |
| 27 | Ruderal |



- Survey Area
- Freeway
- Major Road
- Water Body
- Forest, Golf Course or Park

Reference Populations

- Plummer's Mariposa-Lily (*Calochortus plummerae*)
- Intermediate Mariposa-Lily (*Calochortus weedii* var. *intermedius*)

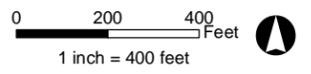
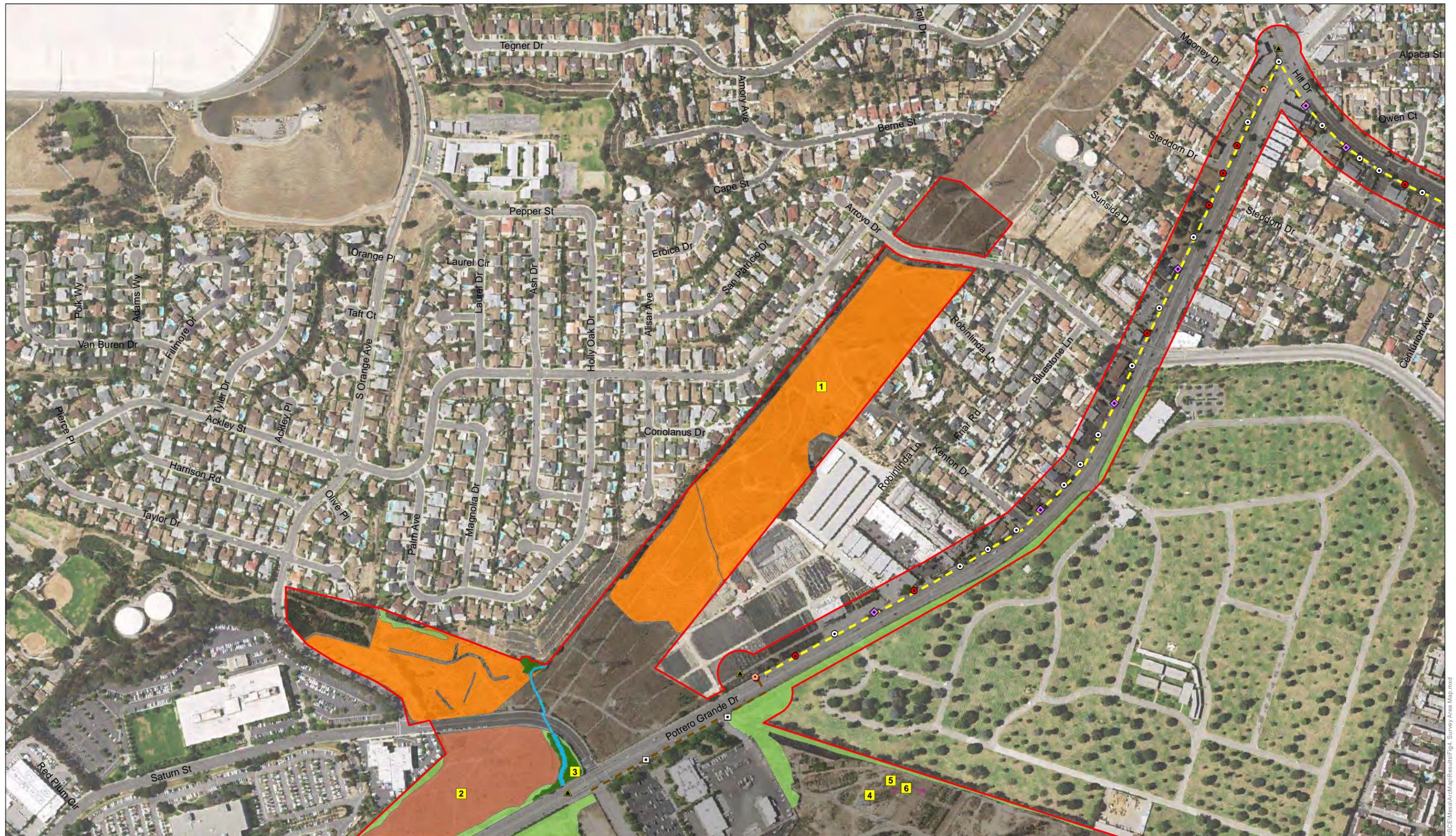


Data Sources:
 - Bing accessed Jun 2015
 - SCE 2015
 Map Prepared: 6-23-15

Prepared by:

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Figure 3. Reference Population Map

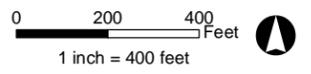
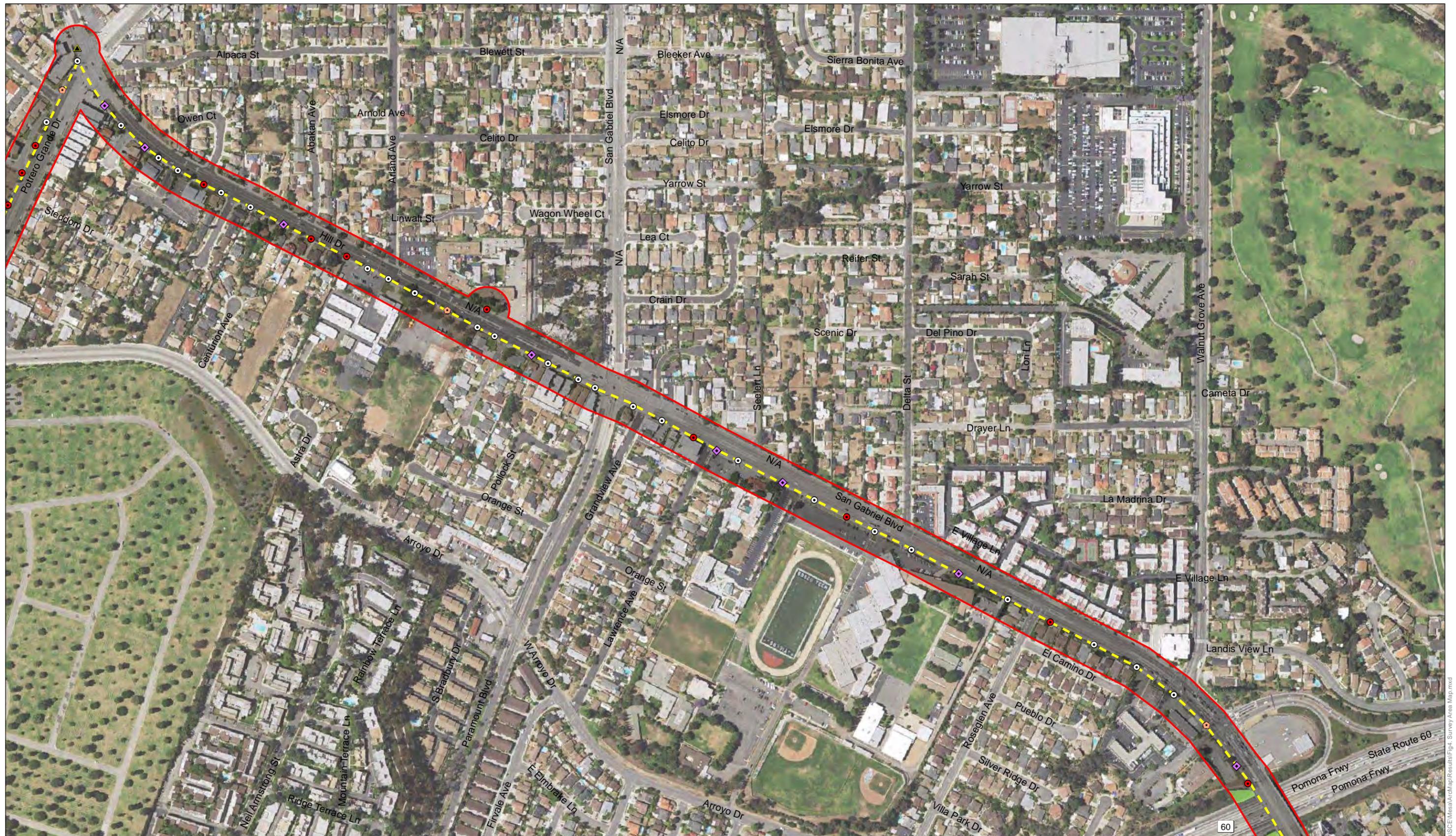


Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
NOREAS
 Environmental Engineering and Science

Figure 4. Survey Area Map - Sheet 1



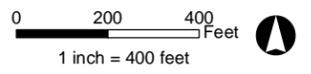
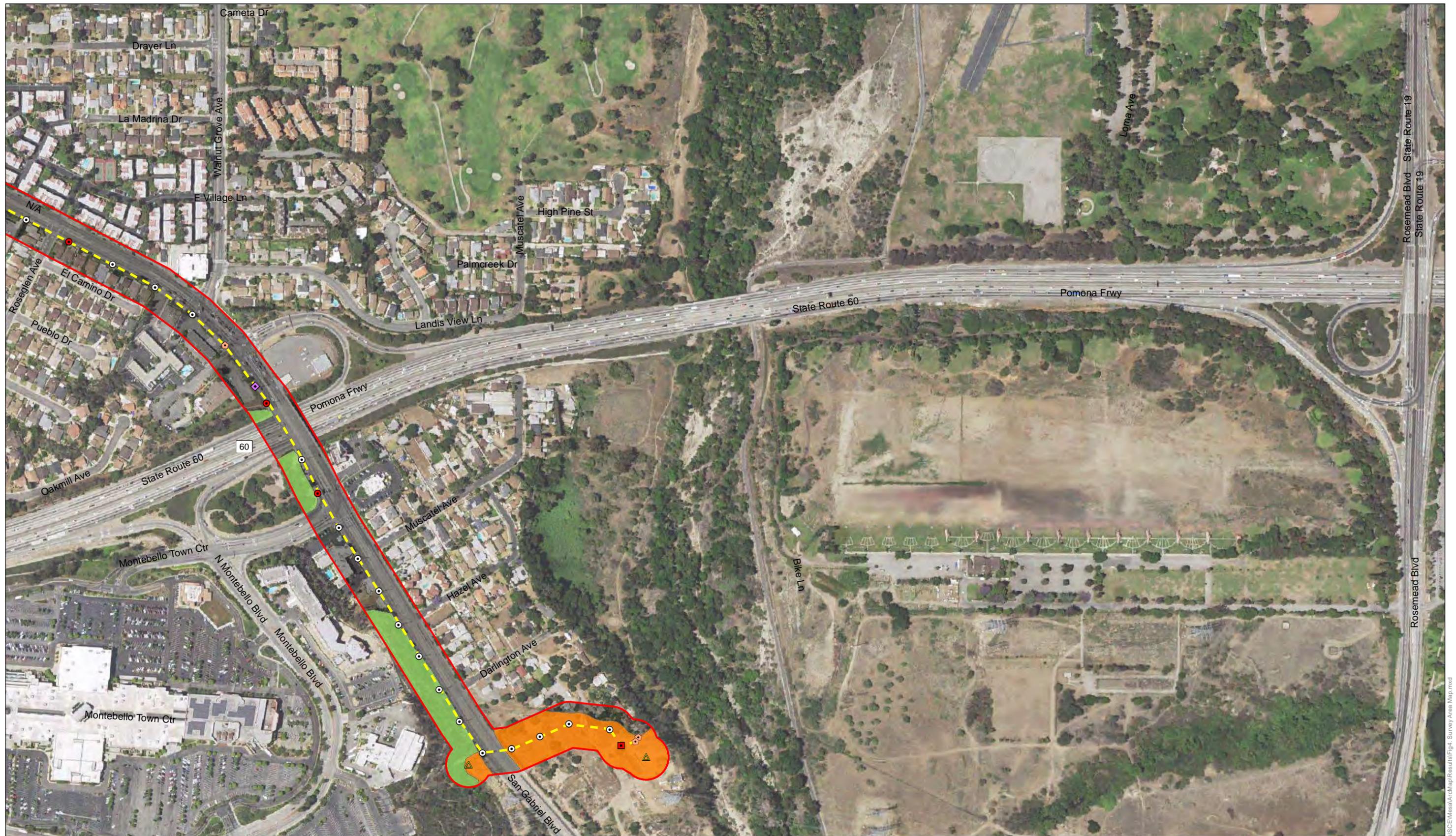
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
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Figure 4. Survey Area Map - Sheet 2

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Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
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Figure 4. Survey Area Map - Sheet 3

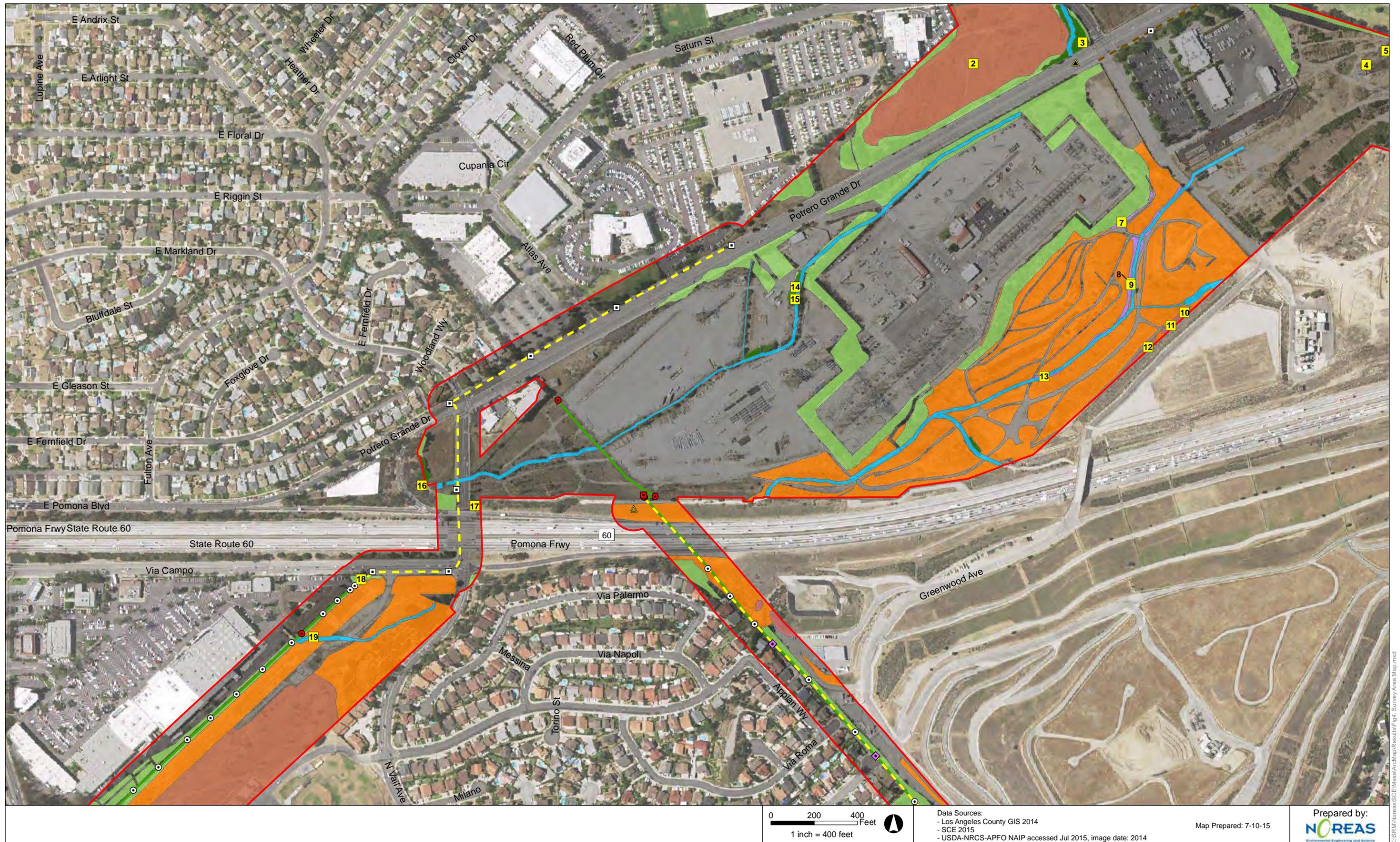
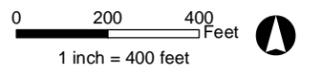


Figure 4. Survey Area Map - Sheet 4



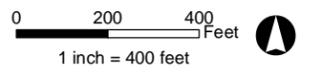
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
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 Environmental Engineering and Science

Figure 4. Survey Area Map - Sheet 5

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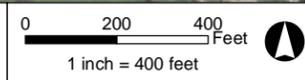


Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

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Figure 4. Survey Area Map - Sheet 6



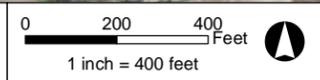
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 4. Survey Area Map - Sheet 8



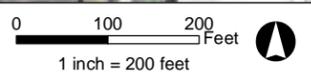
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 4. Survey Area Map - Sheet 9



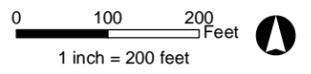
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 4. Survey Area Map - Sheet 10



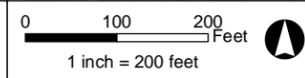
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
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Figure 4. Survey Area Map - Sheet 11



Data Sources:
- Los Angeles County GIS 2014
- SCE 2015
- USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-10-15

Prepared by:
NOREAS
Environmental Engineering and Science

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Figure 4. Survey Area Map - Sheet 12

3.0 BOTANICAL SURVEY RESULTS

Weather conditions included clear skies, temperatures ranging from 61–82 °F, and winds fluctuating from 0 to 10 miles per hour. Human disturbances within the study area included: illegal dumping, on- and off-highway vehicle related traffic, residences and commercial developments, road and shoulder maintenance activities, an operating electrical substation, and power distribution and transmission facilities.

3.1 Special-Status Plants

Southern tarplant⁶, Plummer's mariposa-lily, and Intermediate mariposa-lily were observed at known reference populations prior to the initiation of rare plant surveys; however, none of these species was observed with the Project study area. One individual Nevin's barberry, a Federally-endangered plant species, was detected within the Project study area adjacent to a maintained trail near the Whittier Narrows Open Space in the in the eastern portion of the survey area (Figure 5). It should be noted that this individual appears to have been planted as part of the Whittier Narrows Restoration Program and was located near a patch of Coulter's matilija poppy (*Romneya coulteri*), also likely planted. The location of the Nevin's barberry was disclosed in the BRTR. Three individual Coulter's matilija poppies were documented near the Whittier Narrows Open Space in the in the eastern portion of the survey area (Figure 5). Southern California black walnut also were observed during field surveys. Most of the southern California black walnut locations were disclosed in the BRTR; however, an additional walnut was observed near the existing Mesa Substation, another individual west of the Paramount Blvd on-ramp, and three more on the north side of east Lincoln Avenue (Figure 5). Coulter's matilija poppy and southern California black walnut are both recognized by CNPS as rare plants with a ranking of 4.2, meaning they have limited distribution in California and their status should be monitored. No other state- or federally-listed plant species have been observed within the survey area nor does the survey area include USFWS-critical habitat for plants, as documented in the BRTR.

Representative photographs of the survey area are provided in Appendix A. Plant species observed during the surveys are presented in Appendix B. California Natural Diversity Database Forms associated with reference populations, Nevin's barberry, Southern California black walnut, and Coulter's matilija poppy observations are provided within Appendix C. Monitoring station data is presented in Appendix D.

3.2 Monitoring Stations

The Man-Induced Wetland, Mulefat Scrub, and Coastal Sage Scrub plant communities were dominated by native species (Table 2 and Appendix D). The Man-Induced Wetland vegetation community was represented by Horseweed (*Erigeron Canadensis*), Cattail (*Typha* spp.), and Tall flat-sedge (*Cyperus eragrostis*). The Mulefat Scrub cover type was dominated by Mulefat (*Baccharis salicifolia*). Coastal Sage Scrub included notable concentrations of Mulefat, California sagebrush (*Artemisia californica*), and golden current (*Ribes aureum*). In sharp contrast, the Ruderal, California Annual Grassland, Riparian Woodland, Ephemeral Drainage, Coast Live Oak Woodland, and Non-native Woodland monitoring stations were all inundated by non-native species. Typical oak woodland trees (i.e., *Quercus agrifolia*) were observed within the Coast Live Oak Woodland vegetation type; however none were recorded within the quadrats. The meter square quadrat sampling system is well suited for herbaceous plants and can accommodate shrubs, but a larger sampling area would have optimized data collection for

⁶ Southern tarplant was observed by SCE personnel in late May 2015. Personal communications with Brian J. Bielfelt.

woody species. Results identify baseline conditions and detail that the lost functions and values by proposed Project activities predominately affect non-native species.

Table 2. Monitoring Station Data

| Absolute Cover | | | | | | | | | |
|-----------------------------|------------------------------|--------------------|-----------|-----------|-----------|-----------------|---------------|----------------|------------|
| Ruderal | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station Average | Native Forbes | Natives Shrubs | Non-Native |
| | Bare Ground | 3 | 1.00% | 0.00% | 5.00% | 2.00% | 0.00% | 0.00% | 98.00% |
| | <i>Bromus diandrus</i> | | 40.00% | 40.00% | 0.00% | 26.67% | | | |
| | <i>Bromus hordeaceus</i> | | 0.00% | 0.00% | 15.00% | 5.00% | | | |
| | <i>Bromus tectorum</i> | | 9.00% | 10.00% | 0.00% | 6.33% | | | |
| | <i>Convolvulus arvensis</i> | | 0.00% | 0.00% | 35.00% | 11.67% | | | |
| | <i>Erodium cicutarium</i> | | 30.00% | 0.00% | 5.00% | 11.67% | | | |
| | <i>Erodium moschatum</i> | | 0.00% | 35.00% | 0.00% | 11.67% | | | |
| | <i>Hirshfeldia incana</i> | | 0.00% | 0.00% | 25.00% | 8.33% | | | |
| | <i>Malva parviflora</i> | | 20.00% | 15.00% | 15.00% | 16.67% | | | |
| Absolute Cover | | | | | | | | | |
| California Annual Grassland | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station Average | Native Forbes | Natives Shrubs | Non-Native |
| | Bare Ground | 3 | 20.00% | 10.00% | 0.00% | 10.00% | 0.00% | 0.00% | 90.00% |
| | <i>Avena barbata</i> | | 0.00% | 0.00% | 30.00% | 10.00% | | | |
| | <i>Bromus diandrus</i> | | 0.00% | 0.00% | 30.00% | 10.00% | | | |
| | <i>Bromus madritensis</i> | | 0.00% | 15.00% | 0.00% | 5.00% | | | |
| | <i>Bromus tectorum</i> | | 10.00% | 0.00% | 0.00% | 3.33% | | | |
| | <i>Erodium cicutarium</i> | | 0.00% | 75.00% | 0.00% | 25.00% | | | |
| | <i>Hirshfeldia incana</i> | | 40.00% | 0.00% | 0.00% | 13.33% | | | |
| | <i>Salsola tragus</i> | | 30.00% | 0.00% | 40.00% | 23.33% | | | |
| Absolute Cover | | | | | | | | | |
| Non-Native Woodland | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station Average | Native Forbes | Natives Shrubs | Non-Native |
| | Bare Ground | 3 | 40.00% | 20.00% | 0.00% | 20.00% | 0.00% | 0.00% | 80.00% |
| | <i>Carpobrotus chilensis</i> | | 0.00% | 0.00% | 60.00% | 20.00% | | | |
| | <i>Eucalyptus</i> sp. | | 60.00% | 80.00% | 0.00% | 46.67% | | | |
| | <i>Washingtonia robusta</i> | | 0.00% | 0.00% | 40.00% | 13.33% | | | |

| Absolute Cover | | | | | | | | | |
|---------------------|------------------------------------|--------------------|-----------|-----------|-----------------|-----------------|----------------|----------------|------------|
| Riparian Woodland | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station Average | Native Forbes | Natives Shrubs | Non-Native |
| | Bare Ground | 3 | 10.00% | 0.00% | 10.00% | 6.67% | 0.00% | 0.00% | 93.33% |
| | <i>Ailanthus altissima</i> | | 0.00% | 95.00% | 0.00% | 31.67% | | | |
| | <i>Bougainvillea</i> | | 0.00% | 2.00% | 0.00% | 0.67% | | | |
| | <i>Lactuca serriola</i> | | 0.00% | 0.00% | 35.00% | 11.67% | | | |
| | <i>Malva parviflora</i> | | 0.00% | 0.00% | 10.00% | 3.33% | | | |
| | <i>Schinus terebinthifolius</i> | | 0.00% | 3.00% | 0.00% | 1.00% | | | |
| | <i>Sonchus oleraceus</i> | | 0.00% | 0.00% | 45.00% | 15.00% | | | |
| | <i>Ulmus parviflora</i> | | 90.00% | 0.00% | 0.00% | 30.00% | | | |
| Absolute Cover | | | | | | | | | |
| Ephemeral Drainage | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station Average | Native Forbes | Natives Shrubs | Non-Native |
| | Bare Ground | 3 | 50.00% | 0.00% | 0.00% | 16.67% | 0.00% | 0.33% | 83.00% |
| | <i>Ailanthus altissima</i> | | 0.00% | 80.00% | 0.00% | 26.67% | | | |
| | <i>Avena fatua</i> | | 0.00% | 0.00% | 50.00% | 16.67% | | | |
| | <i>Grewia occidentalis</i> | | 0.00% | 19.00% | 0.00% | 6.33% | | | |
| | <i>Heteromeles arbutifolia</i> | | 0.00% | 1.00% | 0.00% | 0.33% | | | |
| | <i>Quercus ilex</i> | | 50.00% | 0.00% | 0.00% | 16.67% | | | |
| | <i>Raphanus sativicus</i> | | 0.00% | 0.00% | 50.00% | 16.67% | | | |
| Absolute Cover | | | | | | | | | |
| Man-Induced Wetland | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station Average | Native Forbes | Natives Shrubs | Non-Native |
| | Bare Ground | 3 | 85.00% | 20.00% | 20.00% | 41.67% | 56.67% | 0.00% | 1.67% |
| | <i>Cyperus eragrostis</i> | | 0.00% | 20.00% | 80.00% | 33.33% | | | |
| | <i>Erigeron canadensis</i> | | 10.00% | 0.00% | 0.00% | 3.33% | | | |
| | <i>Pseudognaphalium luteoalbum</i> | | 5.00% | 0.00% | 0.00% | 1.67% | | | |
| | <i>Typha sp</i> | | 0.00% | 60.00% | 0.00% | 20.00% | | | |
| Absolute Cover | | | | | | | | | |
| Mulefat Scrub | Cover Type | Number of Stations | Station 1 | Station 2 | Station Average | Native Forbes | Natives Shrubs | Non-Native | |

| | | | | | | | | | | |
|--------------------------------|------------------------------|--------------------|-----------|-----------|-----------|-----------------|-----------------|----------------|----------------|------------|
| | Bare ground | 2 | 0.00% | 10.00% | 5.00% | 5.00% | 82.50% | 7.50% | | |
| | <i>Baccharis salicifolia</i> | | 90.00% | 75.00% | 82.50% | | | | | |
| | <i>Hirshfeldia incana</i> | | 0.00% | 15.00% | 7.50% | | | | | |
| | <i>Solanum douglasii</i> | | 10.00% | 0.00% | 5.00% | | | | | |
| Absolute Cover | | | | | | | | | | |
| Coastal Sage Scrub | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station 4 | Station Average | Native Forbes | Natives Shrubs | Non-Native |
| | Bare Ground | 4 | 85.00% | 0.00% | 10.00% | 10.00% | 26.25% | 0.00% | 65.00% | 8.75% |
| | <i>Artemisia californica</i> | | 10.00% | 10.00% | 70.00% | 0.00% | 22.50% | | | |
| | <i>Baccharis salicifolia</i> | | 0.00% | 80.00% | 0.00% | 0.00% | 20.00% | | | |
| | <i>Bromus madritensis</i> | | 0.00% | 5.00% | 0.00% | 0.00% | 1.25% | | | |
| | <i>Festuca myuros</i> | | 5.00% | 0.00% | 0.00% | 0.00% | 1.25% | | | |
| | <i>Frangula californica</i> | | 0.00% | 0.00% | 0.00% | 30.00% | 7.50% | | | |
| | <i>Hirshfeldia incana</i> | | 0.00% | 5.00% | 0.00% | 0.00% | 1.25% | | | |
| | <i>Nicotiana glauca</i> | | 0.00% | 0.00% | 0.00% | 20.00% | 5.00% | | | |
| | <i>Ribes aureum</i> | | 0.00% | 0.00% | 0.00% | 40.00% | 10.00% | | | |
| | <i>Salvia mellifera</i> | | 0.00% | 0.00% | 20.00% | 0.00% | 5.00% | | | |
| Absolute Cover | | | | | | | | | | |
| Coast Live Oak Woodland | Cover Type | Number of Stations | Station 1 | Station 2 | Station 3 | Station Average | Native Forbes | Natives Shrubs | Non-Native | |
| | <i>Bare ground</i> | 3 | 25.00% | 25.00% | 89.00% | 46.33% | 0.00% | 0.00% | 53.67% | |
| | <i>Avena barbata</i> | | 25.00% | 0.00% | 0.00% | 8.33% | | | | |
| | <i>Bromus diandrus</i> | | 50.00% | 50.00% | 0.00% | 33.33% | | | | |
| | <i>Erigeron canadensis</i> | | 0.00% | 0.00% | 1.00% | 0.33% | | | | |
| | <i>Erodium botrys</i> | | 0.00% | 25.00% | 0.00% | 8.33% | | | | |
| | <i>Salsola tragus</i> | | 0.00% | 0.00% | 10.00% | 3.33% | | | | |

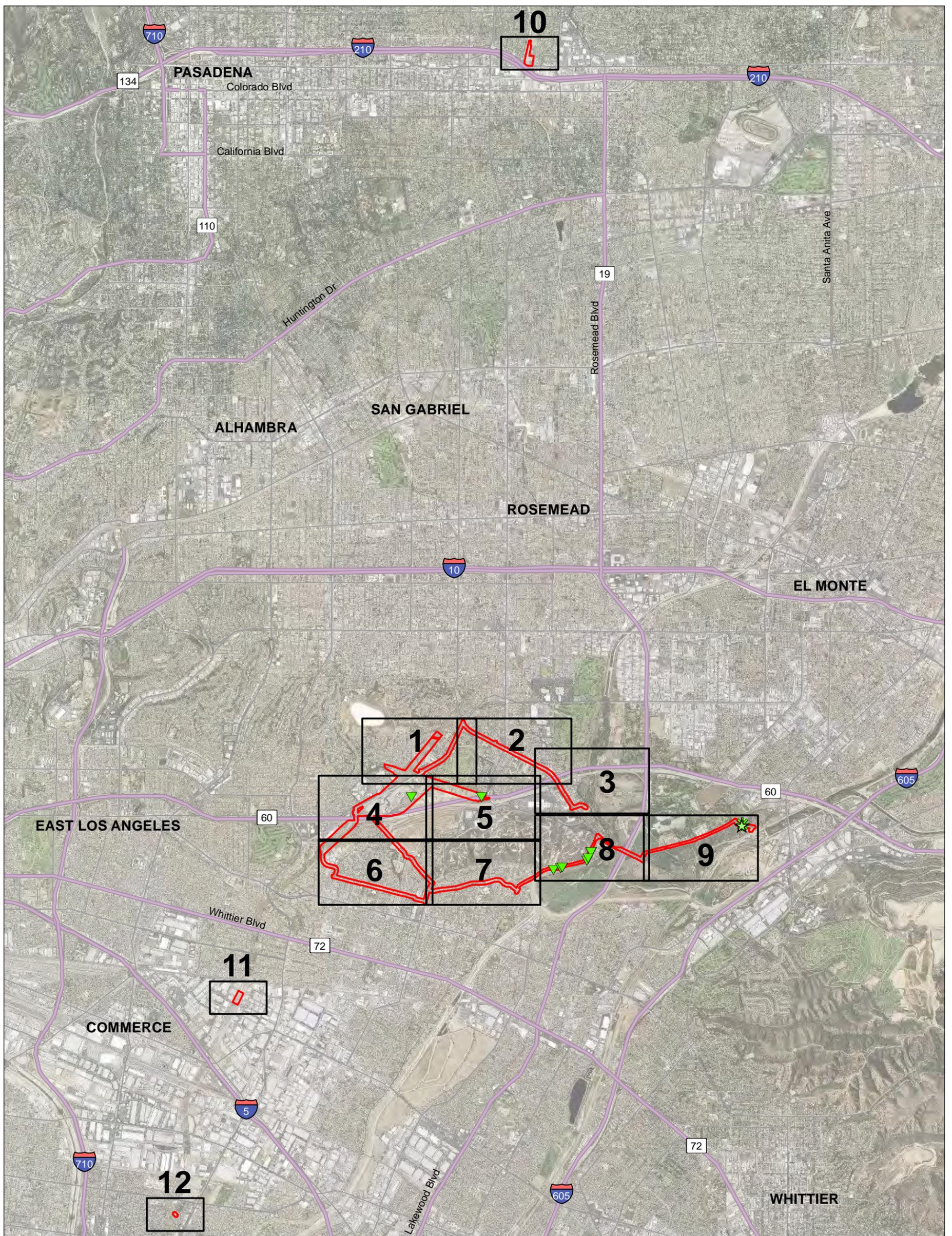
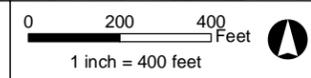


Figure 5. Results Map - Overview

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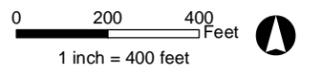
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 1



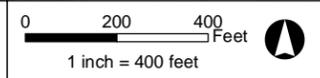
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

Figure 5. Results Map - Sheet 2

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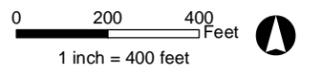


Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

Figure 5. Results Map - Sheet 3



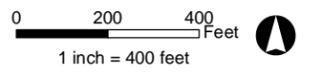
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 4



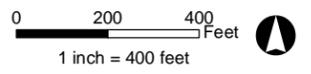
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 5



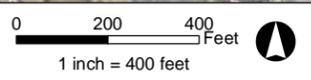
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 6



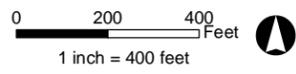
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 7



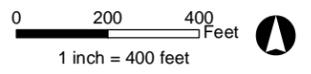
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 8



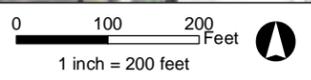
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
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 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 9



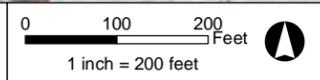
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
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 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 10



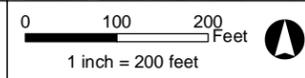
Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 11



Data Sources:
 - Los Angeles County GIS 2014
 - SCE 2015
 - USDA-NRCS-APFO NAIP accessed Jul 2015, image date: 2014

Map Prepared: 7-13-15

Prepared by:
NOREAS
 Environmental Engineering and Science

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Figure 5. Results Map - Sheet 12

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Personal Communications

Personal communications in May and June 2015 with Brian J. Bielfelt and Ashley Stewart of SCE.

APPENDIX A
PHOTOGRAPHIC LOG

APPENDIX A

PHOTOGRAPHIC LOG



Photograph1. Plummer's mariposa-lily, observed at a known reference population.



Photograph2. Intermediate mariposa-lily, detected at a known reference population.

APPENDIX A

PHOTOGRAPHIC LOG



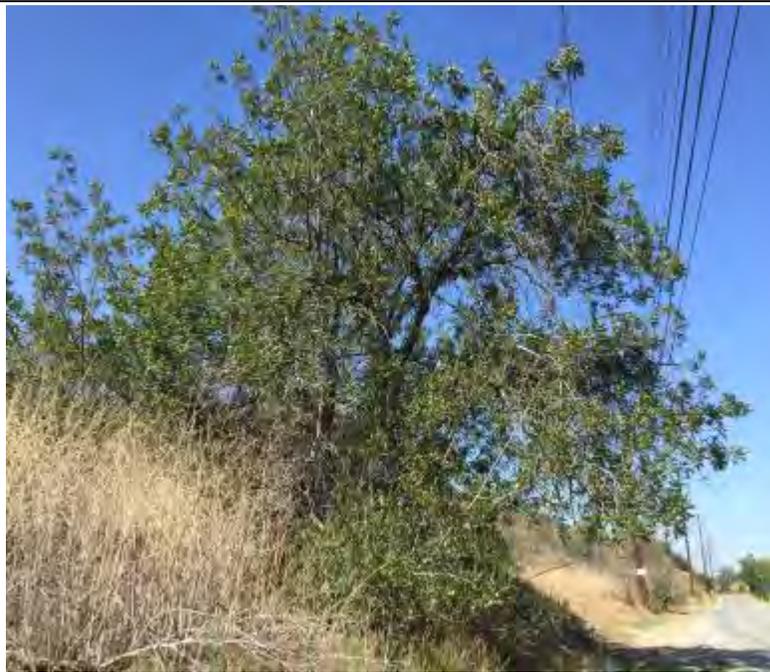
Photograph3. Coulter's matilija poppy observed within the survey area.



Photograph4. Nevin's barberry observed within the survey area.

APPENDIX A

PHOTOGRAPHIC LOG



Photograph5. Southern California black walnut observed within the survey area.



Photograph6. Mesa Substation overview.

APPENDIX A

PHOTOGRAPHIC LOG



Photograph7. Station 1, facing north.



Photograph8. Station 7, facing south.

APPENDIX B
PLANT SPECIES OBSERVED WITHIN THE STUDY AREA

| Scientific Name | Common Name |
|--|------------------------|
| GYMNOSPERMS | |
| Cupressaceae (Cypress family) | |
| <i>Cupressus sempervirens</i> * | Italian cypress |
| <i>Juniperus californica</i> | California juniper |
| Pinaceae (Pine family) | |
| <i>Pinus canariensis</i> * | Canary Island pine |
| EUDICOTS | |
| Adoxaceae (Muskroot family) | |
| <i>Sambucus nigra</i> ssp. <i>caerulea</i> | Mexican elderberry |
| Aizocaceae (Iceplant/Muskroot family) | |
| <i>Carpobrotus chilensis</i> * | sea fig |
| <i>Malephora crocea</i> * | coppery mesem |
| Anacardiaceae (Sumac or Cashew family) | |
| <i>Schinus molle</i> * | California pepper |
| <i>Schinus terebinthifolius</i> * | Brazilian pepper |
| <i>Rhus laurina</i> | lemonadeberry |
| <i>Rhus ovata</i> | sugar bush |
| <i>Toxicodendron diversilobum</i> | poison oak |
| Apiaceae (Carrot family) | |
| <i>Conium maculatum</i> * | poison hemlock |
| Apocynaceae (Dogbane family) | |
| <i>Nerium oleander</i> * | oleander |
| Asclepiadaceae (Milkweed family) | |
| <i>Asclepias fascicularis</i> | narrow-leaf milkweed |
| Asteraceae (Aster family) | |
| <i>Ambrosia psilostachya</i> | western ragweed |
| <i>Artemisia californica</i> | California sagebrush |
| <i>Artemisia douglasiana</i> | mugwort |
| <i>Baccharis salicifolia</i> | mulefat |
| <i>Bidens pilosa</i> * | hairy beggarticks |
| <i>Carduus pycnocephalus</i> * | Italian thistle |
| <i>Centaurea melitensis</i> * | totalote |
| <i>Cirsium vulgare</i> * | bull thistle |
| <i>Corethrogyne filaginifolia</i> | California aster |
| <i>Deinandra fasciculata</i> | fascicled tarplant |
| <i>Erigeron canadensis</i> | horseweed |
| <i>Helianthus annuus</i> | common sunflower |
| <i>Helminthotheca echioides</i> * | bristly ox-tongue |
| <i>Heterotheca grandiflora</i> | telegraph weed |
| <i>Hypochaeris glabrata</i> * | smooth cat's ear |
| <i>Isocoma menziesii</i> | coast goldenbush |
| <i>Lactuca serriola</i> * | prickly lettuce |
| <i>Malacothrix saxatilis</i> | cliff malacothrix |
| <i>Pseudognaphalium beneolens</i> | fragrant everlasting |
| <i>Pseudognaphalium californicum</i> | California everlasting |
| <i>Pseudognaphalium luteo-album</i> * | weedy cudweed |
| <i>Sonchus oleraceus</i> * | common sow thistle |
| <i>Stephanomeria virgata</i> | virgate wreath plant |
| <i>Taraxacum officinale</i> * | dandelion |
| <i>Tetradymia comosa</i> | cotton-thorn |
| <i>Verbesina encelioides</i> * | golden crownbeard |

| Scientific Name | Common Name |
|---------------------------------------|-------------------------|
| <i>Xanthium strumarium</i> | cocklebur |
| Berberidaceae (Barberry family) | |
| <i>Berberis nevinii</i> | Nevin's barberry |
| Bignoniaceae (Bignonia family) | |
| <i>Jacaranda mimosifolia</i> * | jacaranda |
| Bombacaceae (Kapok family) | |
| <i>Chorisia speciosa</i> * | silk floss tree |
| Boraginaceae (Borage family) | |
| <i>Echium candicans</i> * | pride-of-Madeira |
| Brassicaceae (Mustard family) | |
| <i>Brassica nigra</i> * | black mustard |
| <i>Hirshfeldia incana</i> * | short-podded mustard |
| <i>Raphanus sativa</i> * | wild radish |
| <i>Sisymbrium irio</i> * | London rocket |
| Cactaceae (Cactus family) | |
| <i>Cylindropuntia prolifera</i> | coast cholla |
| <i>Opuntia ficus-indica</i> * | mission fig |
| <i>Opuntia littoralis</i> | coast prickly pear |
| Chenopodiaceae (Goosefoot family) | |
| <i>Atriplex semibaccata</i> * | Australian saltbush |
| <i>Chenopodium album</i> * | common lambsquarters |
| <i>Chenopodium murale</i> * | nettle-leaved goosefoot |
| <i>Salsola tragus</i> * | Russian thistle |
| Convolvulaceae (Morning-glory family) | |
| <i>Convolvulus arvensis</i> * | bindweed |
| <i>Cuscuta</i> sp. | California dodder |
| Cucurbitaceae (Cucumber family) | |
| <i>Cucurbita foetidissima</i> * | calabazilla |
| Euphorbiaceae (Spurge family) | |
| <i>Chamaesyce albomarginata</i> | rattlesnake weed |
| <i>Croton setigerus</i> | doveweed |
| <i>Euphorbia crenulata</i> * | Chinese caps |
| <i>Euphorbia maculata</i> * | spotted spurge |
| <i>Ricinus communis</i> * | castor bean |
| Fabaceae (Pea family) | |
| <i>Acacia longifolia</i> * | golden wattle |
| <i>Acmispon strigosus</i> | strigose lotus |
| <i>Cercis occidentalis</i> | redbud |
| <i>Lotus unifoliolatus</i> | Spanish clover |
| <i>Medicago polymorpha</i> * | bur-clover |
| <i>Melilotus indicus</i> * | yellow sweet clover |
| <i>Parkinsonia aculeata</i> * | Mexican palo verde |
| Fagaceae (Oak family) | |
| <i>Quercus agrifolia</i> | coast live oak |
| <i>Quercus ilex</i> * | holly oak |
| Geraniaceae (Geranium family) | |
| <i>Erodium botrys</i> * | big heron bill |
| <i>Erodium cicutarium</i> * | red-stemmed filaree |
| <i>Erodium moschatum</i> * | white-stemmed filaree |
| Grossulariaceae (Gooseberry family) | |
| <i>Ribes aureum</i> | golden currant |

| Scientific Name | Common Name |
|--|----------------------------------|
| Juglandaceae (Walnut family) | |
| <i>Juglans californica</i> | southern California black walnut |
| Lauraceae (Laurel family) | |
| <i>Cinamomum camphorum</i> * | camphor tree |
| Lamiaceae (Mint family) | |
| <i>Marrubium vulgare</i> * | horehound |
| <i>Salvia apiana</i> | white sage |
| <i>Salvia leucophylla</i> | purple sage |
| <i>Salvia mellifera</i> | black sage |
| Lythraceae (No common family name) | |
| <i>Lagerstroemia indica</i> * | crapemyrtle |
| <i>Punica granatum</i> * | pomegranate |
| Malvaceae (Mallow family) | |
| <i>Grewia occidentalis</i> * | lavender starflower |
| <i>Malva parviflora</i> * | cheeseweed |
| Moraceae (Fig family) | |
| <i>Ficus carica</i> * | edible fig |
| <i>Ficus elastica</i> * | rubber fig |
| <i>Ficus macrocarpa</i> * | Indian laurel fig |
| Myrtaceae (Myrtle family) | |
| <i>Callistemon citrinus</i> * | rimson bottlebrush |
| <i>Eucalyptus camaldulensis</i> * | red gum |
| <i>Eucalyptus cinerea</i> * | silver dollar tree |
| <i>Eucalyptus citriodora</i> * | lemon scented gum |
| <i>Eucalyptus globulus</i> * | blue gum |
| <i>Eucalyptus sideroxylon</i> * | red ironbark |
| Nyctaginaceae (Four o'clock family) | |
| <i>Bougainvillea spectabilis</i> * | great bougainvillea |
| Oleaceae (Olive family) | |
| <i>Olea europaea</i> * | olive |
| Papaveraceae (Poppy family) | |
| <i>Eschscholzia californica</i> | California poppy |
| <i>Romneya coulteri</i> | Coulter's matilija poppy |
| Phrymaceae (Lopseed family) | |
| <i>Diplacus aurantiacus</i> | bush monkey flower |
| Platanaceae (Plane-tree family) | |
| <i>Platanus racemosa</i> | California sycamore |
| Plantaginaceae (Plantain family) | |
| <i>Plantago major</i> * | common plantain |
| Polygonaceae (Buckwheat family) | |
| <i>Eriogonum fasciculatum</i> var. <i>fasciculatum</i> | coastal California buckwheat |
| <i>Rumex crispus</i> * | curly dock |
| Proteaceae (Proteus family) | |
| <i>Grevillea robusta</i> * | silkoak |
| Primulaceae (Primrose family) | |
| <i>Anagallis arvensis</i> * | scarlet pimpernel |
| Rhamnaceae (Buckthorn family) | |
| <i>Frangula californica</i> | coffee berry |
| Rosaceae (Rose family) | |
| <i>Heteromeles arbutifolia</i> | toyon |
| <i>Prunus ilicifolia</i> | holly-leaved cherry |

| Scientific Name | Common Name |
|--|----------------------------|
| <i>Prunus</i> sp. (cultivated) | cultivated <i>Prunus</i> |
| <i>Rubus ursinus</i> | California blackberry |
| Salicaceae (Willow family) | |
| <i>Salix lasiolepis</i> | arroyo willow |
| Sapindaceae (Soapberry family) | |
| <i>Cupaniopsis anacardioides</i> * | carrotwood |
| Scrophulariaceae (Figwort family) | |
| <i>Verbascum virgata</i> | wand mullein |
| Simaroubaceae (Quassia family) | |
| <i>Ailanthus altissima</i> * | ailanthus |
| Solanaceae (Potato family) | |
| <i>Datura wrightii</i> | jimsonweed |
| <i>Nicotiana glauca</i> * | tree tobacco |
| <i>Solanum douglasii</i> | Douglas nightshade |
| Tamaricaceae (Tamarisk family) | |
| <i>Tamarix ramosissima</i> * | Mediterranean tamarisk |
| Ulmaceae (Elm family) | |
| <i>Ulmus parviflora</i> * | Chinese elm |
| Urticaceae (Nettle family) | |
| <i>Urtica urens</i> * | orchard nettle |
| Verbenaceae (Verbena family) | |
| <i>Lantana montevidensis</i> * | trailing lantana |
| Vitaceae (Grape family) | |
| <i>Vitis californica</i> | California grape |
| MONOCOTS | |
| Agavaceae (Agave family) | |
| <i>Agave americana</i> * | century plant |
| Araceae (Arum family) | |
| <i>Philodendron bipinnatifidum</i> * | cut-leaf philodendron |
| Arecaceae (Palm family) | |
| <i>Washingtonia robusta</i> * | Mexican fan palm |
| Cyperaceae (Cyperus family) | |
| <i>Cyperus eragrostis</i> | tall umbrella sedge |
| <i>Scirpus</i> sp. | bulrush |
| Liliaceae (Lily family) | |
| <i>Asparagus setaceus</i> * | asparagus fern |
| Poaceae (Grass family) | |
| <i>Arundo donax</i> * | giant reed |
| <i>Avena barbata</i> * | slender wild oat |
| <i>Avena fatua</i> * | wild oat |
| <i>Bromus diandrus</i> * | ripgut brome |
| <i>Bromus hordeaceus</i> * | soft brome |
| <i>Bromus madritensis</i> ssp. <i>rubens</i> * | red brome |
| <i>Bromus tectorum</i> * | cheatgrass |
| <i>Cortaderia selloana</i> * | pampas grass |
| <i>Cynodon dactylon</i> * | Bermuda grass |
| <i>Ehrharta erecta</i> * | panic veldtgrass |
| <i>Lolium perenne</i> * | perennial ryegrass |
| <i>Pennisetum setaceum</i> | African fountain grass |
| <i>Polypogon monspeliensis</i> * | rabbitfoot grass |
| <i>Schismus barbatus</i> * | common Mediterranean grass |

| Scientific Name | Common Name |
|----------------------------|--------------------|
| <i>Stipa miliacea</i> * | smilo grass |
| Typhaceae (Cattail family) | |
| <i>Typha</i> sp. | cattail |

* denotes non-native species

APPENDIX C

CALIFORNIA NATURAL DIVERSITY DATABASE FORMS

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/03/2015

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: Romneya coulteri

Common Name: Coulter's matilija poppy

Species Found? Yes No _____
If not found, why?

Total No. Individuals: 3 Subsequent Visit? Yes No

Is this an existing NDDDB occurrence? _____
Yes, Occ. # No Unk.

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.

Address: 16361 Scientific Way, Irvine, CA 92618

E-mail Address: lincoln.hulse@noreasinc.com

Phone: 949-467-9116

Plant Information

Phenology:

100
% vegetative % flowering % fruiting

Animal Information

adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown

Quad Name: El Monte Elevation: 102 feet

T 2S R 11W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Trimble Geo 7X

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 0.1 meters meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)

Coordinates: 403401 3766326

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Located in loamy soil in nature reserve with installed native and non-native plants. Associated flora include installed (and partially maintained) Platanus racemosa, Vitis girdiana, Sambucus nigra, and Sal leucophylla.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Located in protected natural area.

Visible disturbances: Adjacent to maintained decomposed granite nature trail.

Threats: No threats anticipated.

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
- Compared with specimen housed at: _____
- Compared with photo / drawing in: Calflora 2015.
- By another person (name): _____
- Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 05/21/2015

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: *Calochortus weedii* var. *intermedius*

Common Name: Intermediate Mariposa-lily

Species Found? Yes No _____ If not found, why?

Total No. Individuals: 1 Subsequent Visit? Yes No

Is this an existing NDDDB occurrence? 84 No Unk.
Yes, Occ. #

Collection? If yes: _____
Number Museum / Herbarium

Reporter: NOREAS Inc.

Address: 16361 Scientific Way, Irvine, CA 92618

E-mail Address: lincoln.hulse@nreasinc.com

Phone: 949-467-9116

Plant Information

Phenology:
100
% vegetative % flowering % fruiting

Animal Information

adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown
Quad Name: Whittier Elevation: 330 feet
T 2S R 11W Sec 14, - 1/4 of - 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T ___ R ___ Sec ___, ___ 1/4 of ___ 1/4, Meridian: H M S GPS Make & Model: Garmin 60CSX
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 4 meters _____ meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)
Coordinates: 407056 3761964

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Located on north facing slope surrounded by non-native grasses, Artemisia californica and Eriogonum fasciculatum.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Located in undeveloped area next.

Visible disturbances: None.

Threats: No threats anticipated.

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
- Compared with specimen housed at: _____
- Compared with photo / drawing in: Calflora 2015.
- By another person (name): _____
- Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/08/2015

California Native Species Field Survey Form

Clear Form Print Form

Scientific Name: Berberis nevinii

Common Name: Nevins barberry

Species Found? Yes No _____ If not found, why? _____
Total No. Individuals: 1 Subsequent Visit? Yes No
Is this an existing NDDDB occurrence? 51 No Unk.
Yes, Occ. #
Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.
Address: 16361 Scientific Way, Irvine, CA 92618
E-mail Address: lincoln.hulse@noreasinc.com
Phone: 949-467-9116

Plant Information
Phenology:
100
% vegetative % flowering % fruiting

Animal Information
adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown
Quad Name: El Monte Elevation: 102 feet
T 2S R 11W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Trimble Geo 7X
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 0.1 meters meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)
Coordinates: 403391 3766303

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Located in loamy soil in nature reserve with installed native and non-native plants. Associated flora include installed (and partially maintained) Platanus racemosa, Vitis girdiana, Sambucus nigra, Sal leucophylla, and Romneya coulteri.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor
Immediate AND surrounding land use: Located in protected natural area.
Visible disturbances: Adjacent to maintained decomposed granite nature trail.
Threats: No threats anticipated.
Comments:

Determination: (check one or more, and fill in blanks)
 Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
 Compared with specimen housed at: _____
 Compared with photo / drawing in: Calflora 2015.
 By another person (name): _____
 Other: _____

Photographs: (check one or more)
Plant / animal Slide Print Digital
Habitat
Diagnostic feature
May we obtain duplicates at our expense? yes no

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California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 05/21/2015

Clear Form

California Native Species Field Survey Form

Print Form

Scientific Name: Calochortus plummerae

Common Name: Plummer's Mariposa-lily

Species Found? Yes No _____
If not found, why?

Total No. Individuals: 3 Subsequent Visit? Yes No

Is this an existing NDDDB occurrence? 161 No Unk.
Yes, Occ. #

Collection? If yes: _____
Number Museum / Herbarium

Reporter: NOREAS Inc.

Address: 16361 Scientific Way, Irvine, CA 92618

E-mail Address: lincoln.hulse@noreasinc.com

Phone: 949-467-9116

Plant Information

Phenology:
100
% vegetative % flowering % fruiting

Animal Information

adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown

Quad Name: Whittier Elevation: 340 feet

T 2 S R 11 W Sec 14, - 1/4 of - 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Garmin 60CSX

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 4 meters meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)

Coordinates: 407056 3761962

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Located growing with Artemisia californica and Eriogonum fasciculatum.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Located in undeveloped area next to Turnbull Canyon Road.

Visible disturbances: None.

Threats: No threats anticipated.

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
- Compared with specimen housed at: _____
- Compared with photo / drawing in: Calflora 2015.
- By another person (name): _____
- Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

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California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 05/23/2015

California Native Species Field Survey Form

Clear Form Print Form

Scientific Name: Calochortus plummerae

Common Name: Plummer's Mariposa-lily

Species Found? Yes No _____ If not found, why?
Total No. Individuals: 1 Subsequent Visit? Yes No
Is this an existing NDDDB occurrence? 118 No Unk.
Yes, Occ. #
Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.
Address: 16361 Scientific Way, Irvine, CA 92618
E-mail Address: lincoln.hulse@noreasinc.com
Phone: 949-467-9116

Plant Information
Phenology:
100
% vegetative % flowering % fruiting

Animal Information
adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown
Quad Name: La Habra Elevation: 315 feet
T 2 S R 10 W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Garmin 60CSX
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 4 meters meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)
Coordinates: 411873 3759489

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Located on south west facing slope at ridgeline in bare ground under Eucalyptus tree.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Located in undeveloped area.
Visible disturbances: None.
Threats: No threats anticipated.
Comments:

Determination: (check one or more, and fill in blanks)
 Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
 Compared with specimen housed at: _____
 Compared with photo / drawing in: Calflora 2015.
 By another person (name): _____
 Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 05/23/2015

California Native Species Field Survey Form

Clear Form Print Form

Scientific Name: Calochortus plummerae

Common Name: Plummer's Mariposa-lily

Species Found? Yes No _____ If not found, why? _____

Total No. Individuals: 1 Subsequent Visit? Yes No

Is this an existing NDDDB occurrence? 118 No Unk.
Yes, Occ. #

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.

Address: 16361 Scientific Way, Irvine, CA 92618

E-mail Address: lincoln.hulse@noreasinc.com

Phone: 949-467-9116

| | |
|---|--|
| Plant Information Phenology: <u>100</u> % vegetative % flowering % fruiting | Animal Information # adults # juveniles # larvae # egg masses # unknown <input type="checkbox"/> wintering <input type="checkbox"/> breeding <input type="checkbox"/> nesting <input type="checkbox"/> rookery <input type="checkbox"/> burrow site <input type="checkbox"/> lek <input type="checkbox"/> other |
|---|--|

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown

Quad Name: La Habra Elevation: 322 feet

T 2 S R 10 W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Garmin 60CSX

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 4 meters meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)

Coordinates: 411790 3759331

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*

Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Located on north-facing slope within Artemisia californica and Eriogonum fasciculatum.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Located in undeveloped area.

Visible disturbances: None.

Threats: No threats anticipated.

Comments:

| | |
|--|--|
| Determination: (check one or more, and fill in blanks) <input checked="" type="checkbox"/> Keyed (cite reference): <u>Jepson Manual: Vascular Plants of California. 2012</u> <input type="checkbox"/> Compared with specimen housed at: _____ <input checked="" type="checkbox"/> Compared with photo / drawing in: <u>Calflora 2015.</u> <input type="checkbox"/> By another person (name): _____ <input type="checkbox"/> Other: _____ | Photographs: (check one or more) Slide Print Digital Plant / animal <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Habitat <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Diagnostic feature <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> May we obtain duplicates at our expense? <input checked="" type="radio"/> yes <input type="radio"/> no |
|--|--|

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/04/2015

California Native Species Field Survey Form

Clear Form Print Form

Scientific Name: Juglans hindsii var. californica

Common Name: Southern California Black Walnut

Species Found? Yes No _____ If not found, why? _____

Total No. Individuals: 1 Subsequent Visit? Yes No

Is this an existing NDDDB occurrence? _____ No Unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.

Address: 16361 Scientific Way, Irvine, CA 92618

E-mail Address: lincoln.hulse@noreasinc.com

Phone: 949-467-9116

Plant Information

Phenology:
100
% vegetative % flowering % fruiting

Animal Information

adults # juveniles # larvae # egg masses # unknown

wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown

Quad Name: El Monte Elevation: 223 feet

T 1 S R 12 W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Trimble Geo 7X

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 0.1 meters meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)

Coordinates: 397739 3766788

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Located on open level field of non-native grassland on embankment edge of drainage channel. Soils fine sandy. Associated species include Bromus spp, Avena barbata, Hirshfeldia incana, and Raphanus sativus.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Located within an open field, adjacent to freeway and SCE electrical substation facility.

Visible disturbances: None.

Threats: No threats anticipated.

Comments:

Determination: (check one or more, and fill in blanks)

Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012

Compared with specimen housed at: _____

Compared with photo / drawing in: Calflora 2015.

By another person (name): _____

Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/04/2015

California Native Species Field Survey Form

Clear Form Print Form

Scientific Name: Juglans hindsii var. californica

Common Name: Southern California Black Walnut

Species Found? Yes No _____ If not found, why?
Total No. Individuals: 1 Subsequent Visit? Yes No
Is this an existing NDDDB occurrence? _____ No Unk.
Yes, Occ. # _____
Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.
Address: 16361 Scientific Way, Irvine, CA 92618
E-mail Address: lincoln.hulse@noreasinc.com
Phone: 949-467-9116

Plant Information
Phenology:
100
% vegetative % flowering % fruiting

Animal Information
adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown
Quad Name: El Monte Elevation: 292 feet
T 1 S R 12 W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Trimble Geo 7X
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 1 meter meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)
Coordinates: 398939 3766789

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*
Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Located on gently east sloping hillside of non-native grassland on embankment edge of drainage channel. Soils fine sandy. Associated species include Bromus spp, Avena barbata, Hirshfeldia incana, Raphanus sativus

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor
Immediate AND surrounding land use: Located in open field, adjacent to container plant nursery beneath high voltage power lines.
Visible disturbances: None.
Threats: No threats anticipated.
Comments:

Determination: (check one or more, and fill in blanks)
 Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
 Compared with specimen housed at: _____
 Compared with photo / drawing in: Calflora 2015.
 By another person (name): _____
 Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/08/2015

California Native Species Field Survey Form

Clear Form Print Form

Scientific Name: Juglans hindsii var. californica

Common Name: Southern California Black Walnut

Species Found? Yes No _____ If not found, why?
Total No. Individuals: 1 Subsequent Visit? Yes No
Is this an existing NDDDB occurrence? _____ No Unk.
Yes, Occ. # _____
Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.
Address: 16361 Scientific Way, Irvine, CA 92618
E-mail Address: lincoln.hulse@noreasinc.com
Phone: 949-467-9116

Plant Information
Phenology:
100
% vegetative % flowering % fruiting

Animal Information
adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown
Quad Name: El Monte Elevation: 92 feet
T 2S R 11W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Trimble Geo 7X
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 0.1 meters meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)
Coordinates: 400167 3765545

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:
Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Located north of Whittier Narrows Reserve on north side of East Lincoln Avenue, slightly upslope and adjacent to Schinus molle.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor
Immediate AND surrounding land use: Surrounding land use includes active thoroughfare and open space.
Visible disturbances: None.
Threats: No threats anticipated.
Comments:

Determination: (check one or more, and fill in blanks)
 Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
 Compared with specimen housed at: _____
 Compared with photo / drawing in: Calflora 2015.
 By another person (name): _____
 Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

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California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/08/2015

California Native Species Field Survey Form

Clear Form Print Form

Scientific Name: Juglans hindsii var. californica

Common Name: Southern California Black Walnut

Species Found? Yes No _____ If not found, why?
Total No. Individuals: 1 Subsequent Visit? Yes No
Is this an existing NDDDB occurrence? _____ No Unk.
Yes, Occ. # _____
Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.
Address: 16361 Scientific Way, Irvine, CA 92618
E-mail Address: lincoln.hulse@noreasinc.com
Phone: 949-467-9116

Plant Information
Phenology:
100
% vegetative % flowering % fruiting

Animal Information
adults # juveniles # larvae # egg masses # unknown
 wintering breeding nesting rookery burrow site lek other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown
Quad Name: El Monte Elevation: 93 feet
T 2S R 11W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Trimble Geo 7X
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 0.2 meters meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)
Coordinates: 400317 3765583

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:
Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Located north of Whittier Narrows Reserve on north side of East Lincoln Avenue, slightly upslope surrounded by non-native grasses.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor
Immediate AND surrounding land use: Surrounding land use includes active thoroughfare and open space.
Visible disturbances: None.
Threats: No threats anticipated.
Comments:

Determination: (check one or more, and fill in blanks)
 Keyed (cite reference): Jepson Manual: Vascular Plants of California. 2012
 Compared with specimen housed at: _____
 Compared with photo / drawing in: Calflora 2015.
 By another person (name): _____
 Other: _____

Photographs: (check one or more)

| | | | |
|--------------------|--------------------------|--------------------------|-------------------------------------|
| | Slide | Print | Digital |
| Plant / animal | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Habitat | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Diagnostic feature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
California Dept. of Fish & Wildlife
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@wildlife.ca.gov

For Office Use Only

Source Code: _____ Quad Code: _____
Elm Code: _____ Occ No.: _____
EO Index: _____ Map Index: _____

Date of Field Work (mm/dd/yyyy): 06/08/2015

California Native Species Field Survey Form

Scientific Name: Juglans hindsii var. californica

Common Name: Southern California Black Walnut

Species Found? Yes No _____ If not found, why? _____

Total No. Individuals: 1 Subsequent Visit? Yes No

Is this an existing NDDDB occurrence? _____ No Unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: NOREAS Inc.
Address: 16361 Scientific Way, Irvine, CA 92618
E-mail Address: lincoln.hulse@noreasinc.com
Phone: 949-467-9116

| | |
|---|--|
| Plant Information Phenology: <u>100</u> % vegetative % flowering % fruiting | Animal Information # adults # juveniles # larvae # egg masses # unknown <input type="checkbox"/> wintering <input type="checkbox"/> breeding <input type="checkbox"/> nesting <input type="checkbox"/> rookery <input type="checkbox"/> burrow site <input type="checkbox"/> lek <input type="checkbox"/> other |
|---|--|

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: Los Angeles Landowner / Mgr: Unknown

Quad Name: El Monte Elevation: 92 feet

T 2S R 11W Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model: Trimble Geo 7X

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy: 0.3 meters meters/feet

Coordinate System: UTM Zone 10 UTM Zone 11 **OR** Geographic (Latitude & Longitude)

Coordinates: 400294 3765573

Habitat Description (plants & animals) *plant communities, dominants, associates, substrates/soils, aspects/slope:*

Animal Behavior *(Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):*

Located north of Whittier Narrows Reserve on north side of East Lincoln Avenue, slightly upslope surrounded by non-native grasses.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Surrounding land use includes active thoroughfare and open space.

Visible disturbances: None.

Threats: No threats anticipated.

Comments:

| | |
|--|--|
| Determination: (check one or more, and fill in blanks) <input checked="" type="checkbox"/> Keyed (cite reference): <u>Jepson Manual: Vascular Plants of California. 2012</u> <input type="checkbox"/> Compared with specimen housed at: _____ <input checked="" type="checkbox"/> Compared with photo / drawing in: <u>Calflora 2015.</u> <input type="checkbox"/> By another person (name): _____ <input type="checkbox"/> Other: _____ | Photographs: (check one or more) Slide Print Digital Plant / animal <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Habitat <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> Diagnostic feature <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> May we obtain duplicates at our expense? <input checked="" type="radio"/> yes <input type="radio"/> no |
|--|--|

APPENDIX D
MONITORING STATION DATA

| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
|----------------|------------------------------------|--------------|-------------------------------------|---------------|
| 1 | Ruderal | 0.00 | 99.00 | 1.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Erodium cicutarium</i> | 30.00% | 99.00 | |
| | <i>Malva parviflora</i> | 20.00% | | |
| | <i>Bromus diandrus</i> | 40.00% | | |
| | <i>Bromus tectorum</i> | 9.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 2 | California Annual Grassland | 0.00 | 80.00 | 20.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Hirshfeldia incana</i> | 40.00% | 80.00 | |
| | <i>Salsola tragus</i> | 30.00% | | |
| | <i>Bromus tectorum</i> | 10.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 3 | Riparian Woodland | 0.00 | 90.00 | 10.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Ulmus parviflora</i> | 90.00% | 90.00 | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 4 | Man-Induced Wetland | 10.00 | 5.00 | 85.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Erigeron canadensis</i> | 10.00% | 15.00 | |
| | <i>Pseudognaphalium luteoalbum</i> | 5.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 5 | Man-Induced Wetland | 80.00 | 0.00 | 20.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Typha</i> sp | 60.00% | 80.00 | |
| | <i>Cyperus eragrostis</i> | 20.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 6 | Man-Induced Wetland | 80.00 | 0.00 | 20.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Cyperus eragrostis</i> | 80.00% | 80.00 | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |

| | | | | |
|----------------|-----------------------------------|-----------------|-------------------------------------|----------------------|
| 7 | Mulefat Scrub | 100.00 | 0.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Baccharis salicifolia</i> | 90.00% | 100.00 | |
| | <i>Solanum douglasii</i> | 10.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 8 | Mulefat Scrub | 75.00 | 15.00 | 10.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Baccharis salicifolia</i> | 75.00% | 90.00 | |
| | <i>Hirshfeldia incana</i> | 15.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 9 | Ruderal | 0.00 | 100.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Erodium moschatum</i> | 35.00% | 100.00 | |
| | <i>Malva parviflora</i> | 15.00% | | |
| | <i>Bromus diandrus</i> | 40.00% | | |
| | <i>Bromus tectorum</i> | 10.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 10 | Coastal Sage Scrub | 10.00 | 5.00 | 85.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Artemisia californica</i> | 10.00% | 15.00 | |
| | <i>Festuca myuros</i> | 5.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 11 | Coastal Sage Scrub | 90.00 | 10.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Baccharis salicifolia</i> | 80.00% | 100.00 | |
| | <i>Artemisia californica</i> | 10.00% | | |
| | <i>Hirshfeldia incana</i> | 5.00% | | |
| | <i>Bromus madritensis</i> | 5.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 12 | Coastal Sage Scrub | 90.00 | 0.00 | 10.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Salvia mellifera</i> | 20.00% | 90.00 | |
| | <i>Artemisia californica</i> | 70.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |

| | | | | |
|----------------|-----------------------------------|-----------------|-------------------------------------|----------------------|
| 13 | Ephemeral Drainage | 0.00 | 50.00 | 50.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Quercus ilex</i> | 50.00% | 50.00 | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 14 | Riparian Woodland | 0.00 | 100.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Ailanthus altissima</i> | 95.00% | 100.00 | |
| | <i>Schinus terebinthifolius</i> | 3.00% | | |
| | <i>Bougainvillea</i> | 2.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 15 | Ephemeral Drainage | 1.00 | 99.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Ailanthus altissima</i> | 80.00% | 100.00 | |
| | <i>Grewia occidentalis</i> | 19.00% | | |
| | <i>Heteromeles arbutifolia</i> | 1.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 16 | Riparian Woodland | 0.00 | 90.00 | 10.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Lactuca serriola</i> | 35.00% | 90.00 | |
| | <i>Sonchus oleraceus</i> | 45.00% | | |
| | <i>Malva parviflora</i> | 10.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 17 | California Annual Grassland | 0.00 | 90.00 | 10.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Erodium cicutarium</i> | 75.00% | 90.00 | |
| | <i>Bromus madritensis</i> | 15.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 18 | Non-native Woodland | 0.00 | 60.00 | 40.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Eucalyptus sp.</i> | 60.00% | 60.00 | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 19 | Ephemeral Drainage | 0.00 | 100.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |

| | Species | | | |
|----------------|------------------------------|---------------------------|------------------------------|---------------|
| | | <i>Raphanus sativicus</i> | 50.00% | 100.00 |
| | <i>Avena fatua</i> | 50.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 20 | California Annual Grassland | 0.00 | 100.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Salsola tragus</i> | 40.00% | 100.00 | |
| | <i>Avena barbata</i> | 30.00% | | |
| | <i>Bromus diandrus</i> | 30.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 21 | Non-native Woodland | 0.00 | 80.00 | 20.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Eucalyptus sp.</i> | 80.00% | 80.00 | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 22 | Non-native Woodland | 0.00 | 100.00 | 0.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Carpobrotus chilensis</i> | 60.00% | 100.00 | |
| | <i>Washingtonia robusta</i> | 40.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 23 | Coastal Sage Scrub | 70.00 | 20.00 | 10.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Ribes aureum</i> | 40.00% | 90.00 | |
| | <i>Frangula californica</i> | 30.00% | | |
| | <i>Nicotiana glauca</i> | 20.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 24 | Coast Live Oak Woodland | 0.00 | 75.00 | 25.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Avena barbata</i> | 25.00% | 75.00 | |
| | <i>Bromus diandrus</i> | 50.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 25 | Coast Live Oak Woodland | 0.00 | 75.00 | 25.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Bromus diandrus</i> | 50.00% | 75.00 | |

| | | | | |
|----------------|-----------------------------------|-----------------|-------------------------------------|----------------------|
| | <i>Erodium botrys</i> | 25.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 26 | Coast Live Oak Woodland | 1.00 | 10.00 | 89.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Salsola tragus</i> | 10.00% | 11.00 | |
| | <i>Erigeron canadensis</i> | 1.00% | | |
| Station Number | SCE Cover Type Designation | % Native | % Non-Native | % Bare ground |
| 27 | Ruderal | 0.00 | 95.00 | 5.00 |
| | Representative Species | Cover | % Absolute Cover for Station | |
| | <i>Convolvulus arvensis</i> | 35.00% | 95.00 | |
| | <i>Hirshfeldia incana</i> | 25.00% | | |
| | <i>Malva parviflora</i> | 15.00% | | |
| | <i>Bromus hordeaceus</i> | 15.00% | | |
| | <i>Erodium cicutarium</i> | 5.00% | | |