



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105

May 6, 2011

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U.S. Fish and Wildlife Service  
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Ms. Mary Meyer  
California Department of Fish and Game  
226 West Ojai Avenue, Suite 101  
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Ojai, CA 93023

Subject: EPA Radiological Study of the Santa Susana Field Laboratory Area IV and the Northern Buffer Zone; **Quarterly Biological Monitoring Report #3**

Dear Ms. Marek, Mr. Humble, and Ms. Meyer:

The United States Environmental Protection Agency (US EPA) has begun its radiological study at Area IV and the Northern Buffer Zone of the Santa Susana Field Laboratory (SSFL) located in eastern Ventura County. EPA is conducting this project pursuant to federal legislative mandate HR2764, the Consolidated Appropriations Act of 2008, and the authority granted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Attached is EPA's Quarterly Biological Monitoring Report #3 dated April 23, 2011. The purpose of this report is to provide a quarterly monitoring update, which summarizes:

- Project Activities and Operations,
- Biological Surveys, Monitoring, and Impacts to Federally Listed Species and their Critical Habitat, if applicable,
- Biological Surveys, Monitoring, and Impacts to State listed species and Species of Special Concern,

- Riparian Area impacts, and
- Issues Encountered and Adaptive Management.

The attached report covers EPA project activities during the period from January 7<sup>th</sup> to April 6<sup>th</sup>, 2011. EPA intends to issue biological monitoring status reports to document our ongoing compliance with the Biological Opinion concerning the subject project issued by the U.S. Fish and Wildlife Service (USFWS) on May 25, 2010 and our compliance with the substantive technical requirements of the California Endangered Species Act, the California Department of Fish and Game Code Section 1602 (riparian protection), the Federal Migratory Bird Treaty Act and the California Fish and Game Code Sections 3503 and 3503.5 (for protection of nesting birds).

Please give me a call at (415) 947-4148 if you have any questions regarding the information provided herein.

Sincerely,



Craig Cooper  
Project Manager  
SSFL Site

Cc:           Stephie Jennings, Department of Energy  
               Rick Brausch, California Department of Toxic Substances Control

Attachment:   Quarterly Biological Monitoring Report #1 dated April 23, 2011

# QUARTERLY BIOLOGICAL MONITORING REPORT #3

## RADIOLOGICAL STUDY OF THE SANTA SUSANA FIELD LABORATORY AREA IV AND NORTHERN BUFFER ZONE

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April 23, 2011

## INTRODUCTION

The U.S. Environmental Protection Agency (EPA) is conducting a radiological characterization of a portion of the Santa Susana Field Laboratory (SSFL), located in the Simi Hills of eastern Ventura County, California (**Figure 1**). The two areas at SSFL being characterized are Area IV, a 290-acre administrative section where the U.S. Department of Energy and its contractors once operated several nuclear reactors and associated fuel facilities and laboratories, and the Northern Buffer Zone (NBZ), a 182-acre area with no history of development that lies adjacent to Area IV. These two areas comprise the Area IV study area.

Several activities associated with the radiological study of the Area IV Study Area have the potential to impact federally listed species and their critical habitat, as well as resources protected under California State law. These activities include vegetation cutting, gamma scanning, geophysical survey, surface and subsurface soil sampling, groundwater monitoring well sampling, surface water sampling, and sediment sampling. The scope of these project activities is described in further detail in the Biological Assessment (BA) prepared for EPA by HydroGeoLogic, Inc. (HGL), and Envicom Corporation on February 12, 2010. To minimize the impact to natural resources and riparian habitat within the study area, protection measures were developed and are being implemented as scanning activities progress. These measures are detailed in Appendices E, G, and N of the Site Management Plan (dated September 24, 2010).

EPA is conducting this project pursuant to federal legislative mandate HR2764, the Consolidated Appropriations Act of 2008, and the authority granted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Formal consultation under Section 7 of the Endangered Species Act has been conducted with the U.S. Fish and Wildlife Service (USFWS), and a Biological Opinion was issued on May 25, 2010. The USFWS Biological Opinion identified Avoidance and Minimization Measures (AMMs) keyed to each of the proposed activities and Federally listed species with potential to occur within the Action Area. EPA has agreed to implement the various components of the Radiological Survey in compliance with the Biological Opinion and its requirements. Although not under discretionary approval, it is also EPA's goal to comply with the substantive technical requirements of State of California natural resource protection laws, such as the California Endangered Species Act and California Fish and Game Code Section 1602 for impacts to riparian resources. Additional applicable biological resource laws or regulations to which the project is adhering include the Federal Migratory Bird Treaty Act and California Fish and Game Code 3503 and 3503.5 (for protection of nesting birds).

The purpose of this report is to provide a quarterly monitoring update, which summarizes 1) Project Activities and Operations, 2) Biological Surveys, Monitoring, and Impacts to Federally Listed Species and their Critical Habitat, if applicable, 3) Biological Surveys, Monitoring, and Impacts to State listed species and Species of Special Concern, 4) Riparian Area impacts, and 5) Issues Encountered and Adaptive Management. The report covers the period from January 7, 2010, to April 6, 2011.

## PROJECT ACTIVITIES AND OPERATIONS

The Area IV Study Area is subdivided into Subareas 3, 5A, 5B, 5C, 5D North, 5D South, 6, 7, 8N, 8S, NBZ-W, and NBZ-E (**Figure 2**). The subareas have been divided into 76 Survey Sections (SS). The SSs include roads. To date, EPA has begun conducting all six of the primary project tasks: vegetation cutting, gamma scanning, geophysical survey, surface and subsurface soil sampling, groundwater monitoring well sampling, and surface water and sediment sampling.

Vegetation within the study area is being cut or trimmed to allow access to vehicles and equipment, and to provide clearance for gamma scanning equipment at optimum levels of sensitivity. Vegetation cutting protocols were prepared and are found in Appendix E of the Site Management Plan. Vegetation cutting has been completed in Subareas 3, 5A, 5B, 5C, 5D North, 6, 7, 8N, and 8S. Subarea 5D South has been cut with the exception of SS-59 (**Figure 3**). Standard equipment used during vegetation cutting includes weed whackers, lopping shears, chainsaws, skid steer with mower and fork-lift attachments, chipper, and front-loading tractor for the safe removal of poison oak (*Toxicodendron diversilobum*) branches (**Plate 1A**).

Gamma scanning is being accomplished using various scanning devices, depending on site conditions. Scanning equipment includes two ERGS/JCB off-road forklift vehicles, a Canycom compact walk-behind rubber track carrier, mule-mounted scanning devices, a handcart scanner, and handheld scanners (**Plates 1B and 1C**). Gamma scanning has continued in Subareas 3, 5A, 5B, 5C, and 5D North, 6, 7, and 8 North but has not yet begun in 5D South, 8 South, NBZ-W, and NBZ-E (**Figure 3**). Some areas will need to be rescanned due to data gaps that occur during gamma scanning.

Geophysical surveys have continued in Subareas 5A, 5B, 5C, 5D North, 6, and 8 North (**Figure 3**).

Surface and subsurface soil sampling commenced in November 2010 and has been conducted in Subareas 5B and 5C (**Plate 1D**). Equipment used for this task includes a mobile drilling/coring rig, hand tools, tables, chairs, and equipment boxes. The number of sampling points within each SS varies depending on the findings of the Historical Site Assessment (HSA) and the results of the gamma scanning surveys already conducted. The sampling procedure at each sample point involves retrieving a surface sample of approximately 1 gallon of soil from the 0 to 6 inches below ground surface (bgs). A subsurface soil sample consisting of a core sample obtained from a depth of 10 feet bgs is collected at a subset of the surface sampling sites.

Two sediment samples were collected in drainage ways in the Northern Buffer Zone and 32 surface water samples were collected in mid-March.

Monitoring-well sampling commenced during the monitoring period. All of the monitoring wells are located along roads and are vehicle accessible.

## **BIOLOGICAL CLEARANCE SURVEYS, MONITORING, AND IMPACTS**

### ***Clearance Survey Methodology***

Before project activities commenced within each of the subareas, one of the USFWS-approved biologists from Envicom (Scott Werner, Jim Anderson, and Carl Wishner) conducted clearance surveys to document the presence/absence and location of Federal and State special-status biological resources and riparian habitat (Figure 3). The locations of the resources were marked in the field with conspicuous flagging and mapped using Global Positioning System (GPS) technology and Geographic Information System (GIS) software. Mapped resources are shown on **Figures 4, 5, and 6**. Clearance survey monitoring forms (Attachment 1) are prepared for each clearance survey to document the resources observed and to identify which AMMs included in the Biological Opinion are applicable to future activities occurring within the survey area.

### ***Biological Monitoring Methodology***

One or more of the approved biological monitors from Envicom are present on a daily basis. The monitors attend the safety meeting with crews and monitor project activities. During the reporting period (January 7 to April 6, 2011), the following primary project tasks were conducted: vegetation cutting, gamma scanning, geophysical surveying, surface and subsurface soil sampling, surface water sampling, and sediment sampling. The biological monitor(s) work alongside the field crews to point out the locations of special-status biological resources and in some cases assist the crews in avoiding impacts. Daily biological monitoring forms (Attachment 2) are prepared to document the activities monitored, any special-status biological resources encountered, and impacts resulting from project activities. Any further recommendations on reducing impacts to biological resources also are reported on this form. In compliance with the Biological Opinion, all project-related crews participate in an environmental education program administered by the USFWS-approved biologist to inform participants as to the sensitive biological resources within the project area and the AMMs to be employed.

### **Clearance Survey and Monitoring Results for Federally Listed Species**

Of the federally listed species identified in the Biological Opinion, only one (Braunton's milkvetch) has been positively identified in the study area, although suitable habitat or unidentifiable individuals that could, in fact, be listed were identified as well. **Table 1** summarizes the locations where these species have been detected during either clearance surveys or monitoring.

No Federally listed species were impacted by EPA project activities during the monitoring period.

#### ***Braunton's milkvetch (Astragalus brauntonii); Federally Endangered***

During the monitoring period, no new milkvetch plants were identified, and no work took place in the core milkvetch areas identified in the second quarterly monitoring report. One isolated milkvetch plant located in SS-10 apparently fell down during a winter storm with very high winds in late March. No EPA activities were being conducted in this area when the plant was noticed to have fallen.

Project activities were conducted within the northern portion of Critical Habitat Unit 1d for Braunton's milkvetch (SS-55, SS-56, SS-111). However, these SSs consist of grassland and lack presence of individuals or the primary constituent elements (PCEs) for Braunton's milkvetch (calcium carbonate soils derived from marine sediment, low proportion (<10%) of shrub cover directly around the plant, and chaparral and coastal sage scrub communities characterized by periodic disturbances that stimulate seed germination [e.g., fire, flooding, erosion] and reduce vegetative cover).

#### ***Dudleya species: Conejo dudleya (Dudleya abramsii subsp. parva [=D. parva]), Santa Monica Mountains live-forever (D. cymosa subsp. ovatifolia [inclusive of D. cymosa subsp. agourensis]), and marcescent dudleya (D. cymosa subsp. marcescens); all Federally Threatened***

None of the Federally or State listed dudleya species have been encountered. Many individual dudleya that resemble *D. lanceolata* (no protection status) have been documented but were unidentifiable because the monitoring period took place outside of the flowering period for these species. Therefore all unidentifiable dudleya are flagged and protected during project activities. During this monitoring period, species were flagged in Subareas 6 and 8N (SS-26, SS-28, SS-31, SS-32, SS-33, SS-34, SS-35, SS-38, SS-43, SS-46). No flagged dudleya have been harmed during project activities.

***Vernal Pool Branchiopods: Riverside fairy shrimp (Streptocephalus woottoni), Federally Endangered, and vernal pool fairy shrimp (Branchinecta lynchi), Federally Threatened***

Unidentified fairy shrimp were observed in vernal pools in Subareas 5A (SS-17), 5C (SS-7), AND NBZ-W. The pools in SS-7 are located in broad, flat areas of compacted soil, whereas the pools in SS-17 and NBZ-W are located atop large sandstone outcrops in rocky basins (**Figures 4, 5 and 6**)(**Plates 2A and 2B**). Unidentified fairy shrimp were observed as late as March 15 (SS-17). A presence/absence survey for Riverside fairy shrimp and vernal pool fairy shrimp has not been conducted, and none are currently planned because soil disturbance activities in fairy shrimp habitat areas are not anticipated, unless the pools are dry.

***California red-legged frog (Rana draytonii); Federally Threatened***

Project activities occurred in proximity to three areas identified in the Biological Assessment as potentially suitable habitat for the California red-legged frog. These habitat areas consist of three outfall collection pools in Subareas 6 (SS-38) and 8 (SS-43, SS-46). A 300-foot buffer was mapped around these features using a GIS, and the biological monitor supervised all project activities within the upland buffer area. During the monitoring period, vegetation cutting, gamma scanning, and geophysical surveys were conducted in these areas. Water was present in all three areas during the monitoring period. Pacific chorus frogs (*Pseudacris regilla*) were observed in the SS-38 and SS-46 habitat areas, but no red-legged frogs were observed.

***Least Bell's vireo (Vireo bellii pusillus); Federally Endangered***

In addition to the Least Bell's Vireo (LBV) habitat area in Subarea 5B (SS-12) described in previous monitoring reports, additional LBV habitat was identified in Subarea 6 (SS-26) (**Figures 4, 5, and 6**)(**Plates 2C and 2D**). Before the start of the LBV nesting season (March 15), vegetation cutting, gamma scanning, and geophysical surveys were conducted in SS-26. Surface and subsurface soil sampling also took place in SS-12 before to March 15. No LBV have been observed in the project area during clearance surveys or monitoring. A focused survey to determine presence or absence of LBV will be conducted in SS-12 and SS-26 this spring, per the USFWS protocol.

***California gnatcatcher (Poliptila californica californica); Federally Threatened***

During the monitoring period, clearance surveys and monitoring were conducted within potentially suitable habitat for California gnatcatcher in Subarea 7 (SS-39, SS-42) and Subarea 8N (SS-43, SS-45, SS-46, and SS-47). In 2010 a protocol survey for California gnatcatcher was conducted for an area defined by the USFWS as having suitable habitat. The results of the 2010 survey were negative with no individuals observed. A 2011 California gnatcatcher protocol survey and habitat assessment within the study area was initiated on March 15, 2011. No California gnatcatchers have been detected thus far.

**Table 1**  
**List of Federally Listed Resources and Critical/Suitable Habitat**  
**Observed in Survey Sections during the Monitoring Period**

Species/Resource	Survey Section	Subarea
Braunton's milkvetch	SS-10	5B
<i>Dudleya</i> sp.	SS-26	6
<i>Dudleya</i> sp.	SS-28	6
<i>Dudleya</i> sp.	SS-31	6
<i>Dudleya</i> sp.	SS-32	6
<i>Dudleya</i> sp.	SS-33	6
<i>Dudleya</i> sp.	SS-34	6
<i>Dudleya</i> sp.	SS-35	6
<i>Dudleya</i> sp.	SS-38	6
<i>Dudleya</i> sp.	SS-43	8N
<i>Dudleya</i> sp.	SS-46	8N
Occupied vernal pool branchiopod habitat (unidentified branchiopods)	SS-7	5C
Occupied vernal pool branchiopod habitat (unidentified branchiopods)	SS-17	5A
Occupied vernal pool branchiopod habitat (unidentified branchiopods)	NBZ-W	NBZ-W
Suitable vernal pool branchiopod habitat	SS-15	5A
Suitable vernal pool branchiopod habitat	SS-34	6
California Red-legged Frog suitable habitat	SS-34	6
California Red-legged Frog suitable habitat	SS-35	6
California Red-legged Frog suitable habitat	SS-38	6
California Red-legged Frog suitable habitat	SS-43	8N
California Red-legged Frog suitable habitat	SS-46	8N
California Red-legged Frog suitable habitat	SS-47	8N
Least Bell's Vireo habitat	SS-12	5B
Least Bell's Vireo habitat	SS-26	6
Coastal California Gnatcatcher potential habitat	SS-39	7
Coastal California Gnatcatcher potential habitat	SS-42	7
Coastal California Gnatcatcher potential habitat	SS-43	8N
Coastal California Gnatcatcher potential habitat	SS-45	8N
Coastal California Gnatcatcher potential habitat	SS-46	8N
Coastal California Gnatcatcher potential habitat	SS-47	8N



**Clearance Surveys and Monitoring Results for Non-Federally listed Protected Biological Resources**

The Santa Susana tarplant is the only State-listed species observed during the clearance surveys and biological monitoring. However, other State-protected biological resources have been observed. The locations of Santa Susana Tarplant and other State-protected biological resources within the Action Area are illustrated on **Figures 4 through 7**. The following is a more detailed description of the observations and impacts associated with State-protected biological resources. A summary of the State-Sensitive resource observations listed by Survey Section is shown in **Table 2**.

***Santa Susana tarplant (Deinandra minthornii); State Rare, CNPS List 1B.2***

This species is locally common in sections of Area IV with sandstone outcrops (**Table 2**). Three plants were impacted by project activities during the monitoring period (**Table 3**) (**Plates 3A through 3D**).

***Potential special-status mariposa lilies***

- **Slender mariposa lily (*Calochortus clavatus* var. *gracilis*); CNPS List 1B.2**
- **Plummer's mariposa lily (*Calochortus plummerae*); CNPS List 1B.2**

Unidentifiable *Calochortus* leaves and stems (some with seed pods from the previous blooming season) were recorded in Subarea 3 (SS-32), Subarea 6 (SS-34, SS-35, SS-38, SS-39), Subarea 7 (SS-39, SS-42), and Subarea 8 North (SS-43, SS-50). These species are perennial bulbiferous herbs that cannot be identified until they flower in the upcoming spring and summer seasons. Slender mariposa lily blooms March to June, and Plummer's mariposa lily, which is often seen in recent burn areas, blooms May to July. Observed locations have been recorded and will be inspected during 2011 for specific identification. The plants will be protected from project activities until the species can be confirmed, and further protection will be provided if they are confirmed to be the rare types.

***Southern California black walnut (Juglans californica); CNPS List 4.2***

A population of southern California black walnut trees is located along the north-facing slopes of Subarea 5D and 8. The only SSs with southern California black walnut where project activities occurred are in 8 South (SS-48) and 8 North (SS-50). Activities in the vicinity were limited to grass trimming and operation of gamma scanning equipment. No impacts occurred.

***Coast horned lizard (Phrynosoma blainvillii); State Species of Special Concern***

Suitable habitat for this species was identified in most of the undeveloped survey sections of the study area, but no coast horned lizards were observed during the monitoring period.

***Silvery legless lizard (Anniella pulchra pulchra); State Species of Special Concern***

Suitable habitat was identified in many of the undeveloped survey sections of the study area. No silvery legless lizards were observed during this quarterly reporting period.

***Coast patch-nosed snake (Salvadora hexalepis virgultea); State Species of Special Concern***

Suitable habitat was identified in many of the undeveloped survey sections of the study area. No coast patch-nosed snakes were observed during this quarterly reporting period.

***Cooper's Hawk (Accipiter cooperii); State Watch List***

Cooper's hawks were recorded in Subarea 7 (SS-39, SS-42) and Subarea 8 North (SS-43, SS-50). No nesting behavior or activities were observed during this quarterly reporting period.

***Golden eagle (Aquila chrysaetos); Fully Protected (Federal and State), State Watch List***

An active golden eagle nest site is located on the SSFL property boundary in the NBZ, and a suitable nesting buffer has been established prohibiting project activities that may disturb the eagles. The nest buffer encircles nearly the entire canyon where the nest is located and measures approximately 1,300 ft by 1,500 ft in area (**Figures 5 and 6**) (**Plates 4A and 4B**). The first activity at the nest was recorded on February 3, and one eagle was observed to be incubating one or more eggs on February 9. On this day, vegetation clearing activity was being conducted under the supervision of the biological monitor in SS-35, at the top of the canyon in direct line-of-sight to the nest approximately 800 feet down the canyon. Although the eagles appeared to occasionally look at the work crews in SS-35, the visual and noise disturbances did not cause the eagles to become agitated to the point of leaving the nest. This was a positive outcome considering that the nest selection and egg-laying stages are the times when the eagles would be most susceptible to abandoning the nest due to human disturbance.

By Monday, February 14, vegetation cutting work was completed in the portion of SS-35 that directly overlooks the nest, and workers had moved to the section of the canyon out of view of the eagles and worked toward SS-38 during the next week. The golden eagle eggs appeared to have hatched before a visit to the overlook on March 23, and as of April 7 there were downy 2 eaglets at the nest. The nestlings are expected to fledge sometime during June. If EPA activities are scheduled within the canyon before June, activities will continue to be restricted with the established buffer until the young eagles have left the nest and are independent enough to fly out of the canyon.

***Peregrine falcon (Falco peregrinus); Federal Bird Species of Conservation Concern; DFG Fully Protected***

A peregrine falcon was observed on March 4 in Subarea 5B (SS-10) atop an electrical transmission tower. This appeared to be a transient individual moving through the area during spring migration.

***Lewis's woodpecker (Melanerpes lewisii); Federal Bird Species of Conservation Concern***

A Lewis's woodpecker was seen regularly throughout much of the monitoring period in Subarea 6 (SS-34, SS-36, SS-104). Lewis's woodpeckers are uncommon winter visitors in Ventura County. In the southern half of California they generally nest in higher elevation areas such as the Tehachapi and Sierra Nevada Mountains.

***Loggerhead shrike (Lanius ludovicianus); State Species of Special Concern***

Loggerhead shrikes were observed hunting in Subarea 5A (SS-19) and Subarea 6 (SS-38). Loggerhead shrikes inhabit open country with short vegetation and breed in isolated trees or large shrubs. In coastal Ventura County they are mainly found as winter visitors. No nesting behavior was exhibited by these individuals.

***Oak titmouse (Baeolophus inornatus); Federal Bird Species of Conservation Concern***

Oak titmice are common in oak woodland habitats in the study area. They inhabit nearly every SS that contains mature coast live oaks. No direct evidence of nesting has been documented, primarily because

they nest in cavities high up in the protected coast live oak trees, where most project activities do not create a significant disturbance.

***Northern harrier (Circus cyaneus); State Species of Special Concern***

A northern harrier was seen hunting along the cliffs in Subarea 6 (SS-35) and the adjacent NBZ-E. Northern harriers generally do not breed in coastal Ventura and Los Angeles Counties, but can be seen overwintering and migrating through the local area.

***Southern California rufous-crowned sparrow (Aimophila ruficeps canescens); State Watch List***

Southern California rufous-crowned sparrows are year-round residents in the Simi Hills and Santa Susana Mountains, typically nesting at or near ground-level near rocky outcrops and associated low-growing shrubby and herbaceous cover. A singing male was observed in Subarea 6 (SS-38) on February 9 while monitoring vegetation cutting activities. No mated pairs or nesting behavior in this area were observed, and the area was trimmed without any impacts to individual rufous-crowned sparrows. This area borders the NBZ and this bird's territory likely extends into the NBZ, which has not yet been trimmed.

***San Diego desert woodrat (Neotoma lepida intermedia); State Species of Special Concern***

Suitable habitat was identified in much of the study area, especially areas that contain shrubby vegetation and rocky outcrops. Incidental sightings of big-eared woodrat (*Neotoma macrotis*) and/or their nest structures were recorded in most survey sections containing woody vegetation throughout the study area (see map figures with aerial photograph base layer). No San Diego desert woodrats have been found in the project area.

**Table 2**

**List of State-Sensitive Resources Observed during the Monitoring Period, Grouped by Area**

Species/Resource	Survey Section	Subarea
Santa Susana tarplant	SS-9	5B
Santa Susana tarplant	SS-13	5A
Santa Susana tarplant	SS-14	5A
Santa Susana tarplant	SS-15	5A
Santa Susana tarplant	SS-16	5A
Santa Susana tarplant	SS-17	5A
Santa Susana tarplant	SS-18	5A
Santa Susana tarplant	SS-27	6
Santa Susana tarplant	SS-28	6
Santa Susana tarplant	SS-31	6
Santa Susana tarplant	SS-32	6
Santa Susana tarplant	SS-33	6
Santa Susana tarplant	SS-34	6
Santa Susana tarplant	SS-35	6
Santa Susana tarplant	SS-36	6
Santa Susana tarplant	SS-37	6

Species/Resource	Survey Section	Subarea
Santa Susana tarplant	SS-38	6
Santa Susana tarplant	SS-39	6
Santa Susana tarplant	SS-42	7
Santa Susana tarplant	SS-43	8N
Santa Susana tarplant	SS-44	8N
Santa Susana tarplant	SS-46	8N
Santa Susana tarplant	SS-104	6
Potentially special-status mariposa lilies	SS-32	3
Potentially special-status mariposa lilies	SS-34	6
Potentially special-status mariposa lilies	SS-35	6
Potentially special-status mariposa lilies	SS-38	6
Potentially special-status mariposa lilies	SS-39	6, 7
Potentially special-status mariposa lilies	SS-42	7
Potentially special-status mariposa lilies	SS-43	8N
Southern California black walnut	SS-48	8S
Southern California black walnut	SS-50	8N
Cooper's hawk	SS-39	7
Cooper's hawk	SS-42	7
Cooper's hawk	SS-43	8N
Cooper's hawk	SS-50	8N
Golden eagle nest and nest buffer	NBZ-E	NBZ-E
Golden eagle nest buffer	SS-35/39	6
Northern harrier	SS-35	6
Peregrine falcon	SS-10	5B
Lewis's woodpecker	SS-34/36/104*	6
Loggerhead shrike	SS-19	5A
Loggerhead shrike	SS-38	6
Southern California rufous-crowned sparrow	SS-38	6
Southern California rufous-crowned sparrow	NBZ-E	NBZ-E
Riparian area	SS-12	5B
Riparian area	SS-26	6
Riparian area	SS-27	6
Riparian area	SS-35	6
Riparian area	SS-38	6
Riparian area	SS-43	8N

\* Likely the same individual

**Table 3**  
**List of State-sensitive Resources Impacted**

Species/Resource (# impacted)	Survey Section	Date recorded	Associated project activity	Impact	Description
Santa Susana tarplant (1)	SS-9	1/20/11	SS	Crushed	Sole plant on SS-9 lost due to vehicle/foot traffic
Santa Susana tarplant (2)	SS-17	4/4/11	SS	Trampled/damaged	Small plants growing in pavement in parking area

**Clearance Surveys and Monitoring Results for Protected Nesting Birds**

Native bird species potentially nesting in the study area are protected under several different laws at the State and Federal level, depending on the species. These laws include the Federal Endangered Species Act, Federal Migratory Bird Treaty Act, Federal Bald and Golden Eagle Protection Act, California Endangered Species Act, and California Department of Fish and Game Code Sections 3503, 3503.5, 3511, and 3513. Eighty-five native bird species have been recorded in the study area since biological studies in support of the EPA Radiological Study began in 2010, and the majority of these species have the potential to nest in the study area.

**Table 4** lists the nests found during the monitoring period, survey section where they were recorded, and any impacts. Many of the nests listed below were found during vegetation cutting activities, which were completed within a few days, and subsequent project activities requiring rechecking the nests had not yet occurred before the end of the monitoring period. The biologist also located many inactive nests from 2010 or earlier in 2011. These are not shown in **Table 4**, with the exception of the red-winged blackbird nests; these birds are shown to demonstrate the high likelihood of nesting in a densely vegetated nearby area shown in **Figure 4** (Subarea 5D North: SS-50). Representative photos for the nests described in **Table 4** are shown on **Plates 4C through 5D**.

**Table 4**  
**List of Protected Bird Nests Found in the Study Area**

Common Name	Survey Section	Subarea	Date recorded	Substrate	Project Activities Monitored*	Impacts
Golden Eagle	NBZ-E	NBZ-E	2/9/2011	Rock/cliff	VC, GS, GP (SS-35 only)	None
Bushtit	SS-35	6	2/14/2011	Q. agrifolia	VC, GP	None
Bushtit	SS-38	6	2/18/2011	Q. agrifolia	VC, GS, GP	None
Bushtit	NBZ-W	NBZ-W	2/23/2011	Q. agrifolia	VC	None
Bushtit	SS-42	7	3/4/2011	Q. agrifolia	VC, GS, GP	None
Common Raven	NBZ-E	NBZ-E	3/4/2011	Rock/cliff	VC	None
Bushtit	SS-38	6	3/15/2011	Q. agrifolia	GS	None
Bushtit	SS-32	6	3/15/2011	Q. agrifolia	n/a	None; abandoned after storm

Common Name	Survey Section	Subarea	Date recorded	Substrate	Project Activities Monitored*	Impacts
Bushtit	NBZ-E	NBZ-E	3/16/2011	Q. agrifolia	n/a	None
Western Scrub-jay	SS-17	5A	3/16/2011	Q. agrifolia	SS	None; predation during incubation
Bushtit	SS-34	6	3/17/2011	Q. agrifolia	n/a	abandoned after storm
Red-winged Blackbird	SS-55	5D North	3/21/2011	Cheeseweed	VC	abandoned after storm
Red-winged Blackbird	SS-55	5D North	3/21/2011	Cheeseweed	VC	abandoned after storm
Red-winged Blackbird	SS-55	5D North	3/21/2011	Cheeseweed	VC	abandoned after storm
Red-winged Blackbird	SS-55	5D North	3/21/2011	Cheeseweed	VC	abandoned after storm
Bushtit	SS-43	8 North	3/23/2011	Q. agrifolia	VC	None
Mourning Dove	SS-43	8 North	3/25/2011	Q. agrifolia	n/a	Predation of eggs after tree partially trimmed. Trimming work conducted outside of biologically cleared area.
Bushtit	SS-38	6	3/31/2011	Q. agrifolia	n/a	None
Bewick's Wren	SS-35	6	3/31/2011	Q. agrifolia	GP, GS	None
Bushtit	SS-18	6	3/31/2011	Q. agrifolia	SS	None
Bushtit	SS-35	6	4/6/2011	Q. agrifolia	GS	None

\* VC = Vegetation Clearing; GS = Gamma Scanning; GP = Geophysical Survey; SS = Soil Sampling; n/a = incidental discovery or monitor not present during activities

### Clearance Surveys and Monitoring Results for Riparian Habitat

**Table 5** shows the riparian areas associated with project activities not already discussed in the California Red-legged Frog section above. These riparian areas do not support enough water to be considered suitable habitat for California red-legged frog. Regardless, activities within the riparian habitat have been conducted under the supervision of the USFWS-approved biological monitor with experience identifying California red-legged frog species and habitat. During vegetation cutting, the biologist typically marks the shrubs along the banks to be left intact. In the dense mule fat and willow scrub area of SS-26, a relatively large amount of vegetation was left intact, while trimming only those shrubs necessary to allow gamma scanning equipment into the habitat (**Plates 2C and 2D**). Most downed logs were removed, and pathways large enough to accommodate the mule-mounted scanner and handcart were established within the vegetation.

**Table 5**  
**Activities Conducted with Monitoring within Riparian Habitat**

Location	Description	Description of Activities Performed*	Significant Impacts
SS-12	450' long by 3-6' wide; open coyote brush and willow scrub	SS	None
SS-26	600' long by 3-6' wide; dense mule fat and willow scrub	VC, GP, GS	Vegetation selectively trimmed
SS-27	550' long by 3' wide; grassland with a few shrubs along banks	VC, GP, GS	Vegetation selectively trimmed
SS-38	250' long by 3-6' wide; bedrock-lined drainage basin in chaparral	VC, GP, GS	Vegetation selectively trimmed
SS-43	3 soil and bedrock-lined drainage basins in chaparral and coast live oak woodland totaling 1000' long by 4' wide	VC, GP, GS	Vegetation selectively trimmed

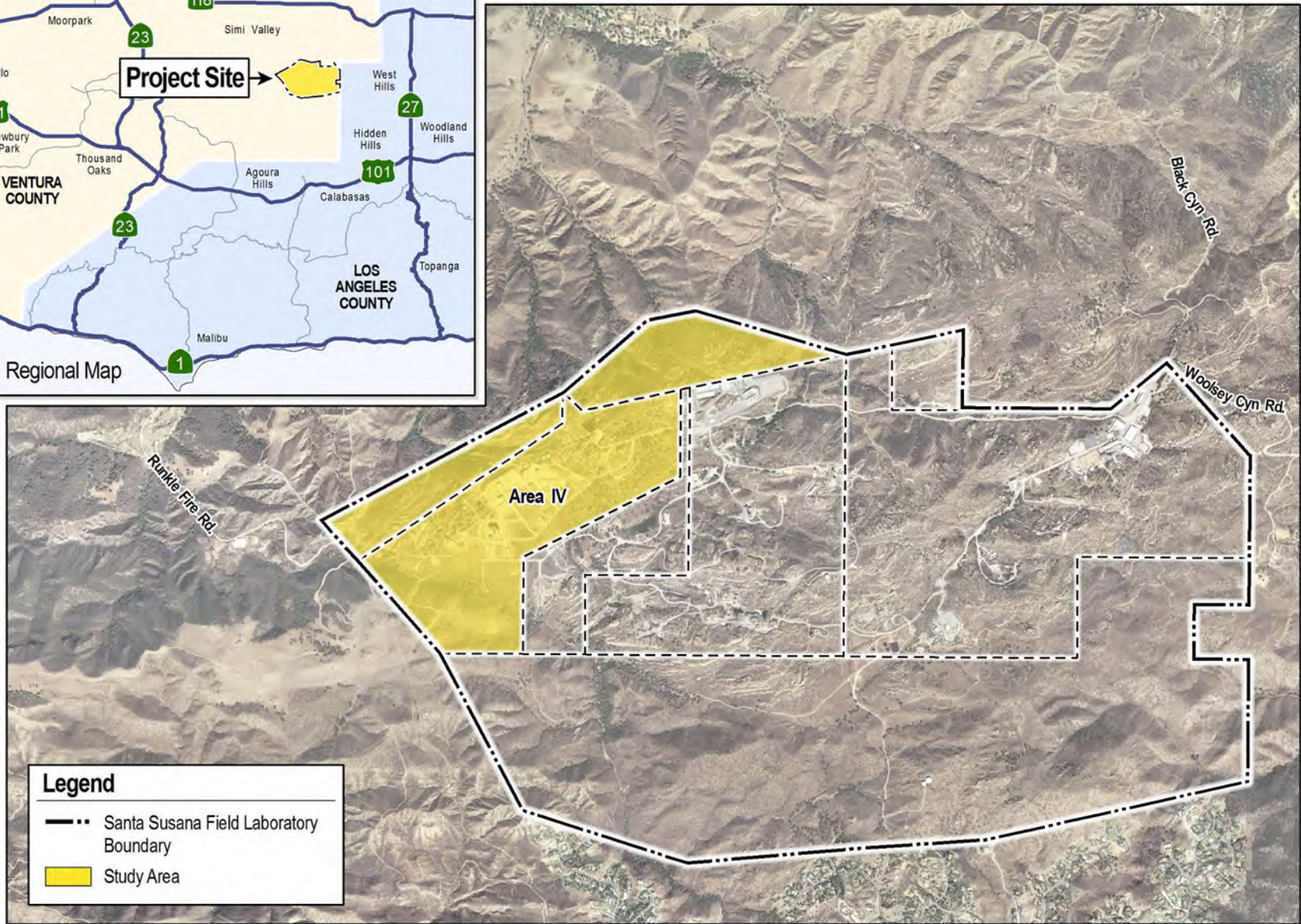
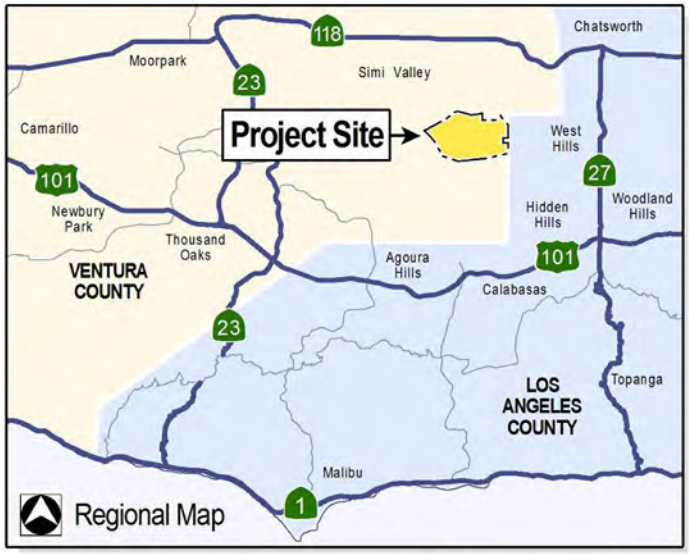
\*VC = Vegetation Clearing; GS = Gamma Scanning; GP = Geophysical Survey

**Issues Encountered and Adaptive Management**

To date there have been no issues with implementing the terms, conditions, avoidance and minimization measures and/or other protective measures required by USFWS in the Biological Opinion. At this time we have no recommendations for modifying the terms and conditions to enhance the protection of Federally listed and State-Listed/Sensitive species.

**Figures and Photo Plates**



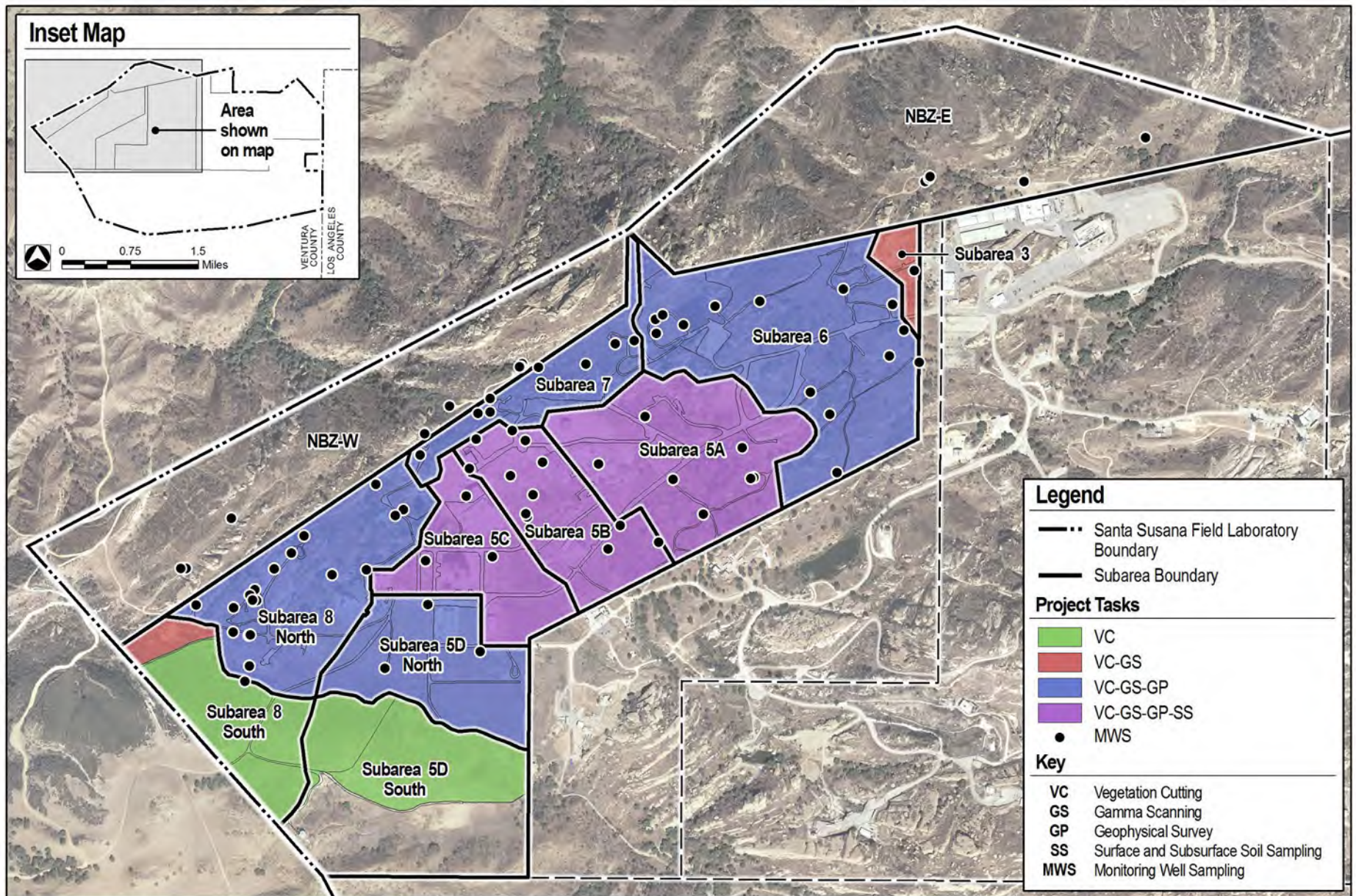


Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.

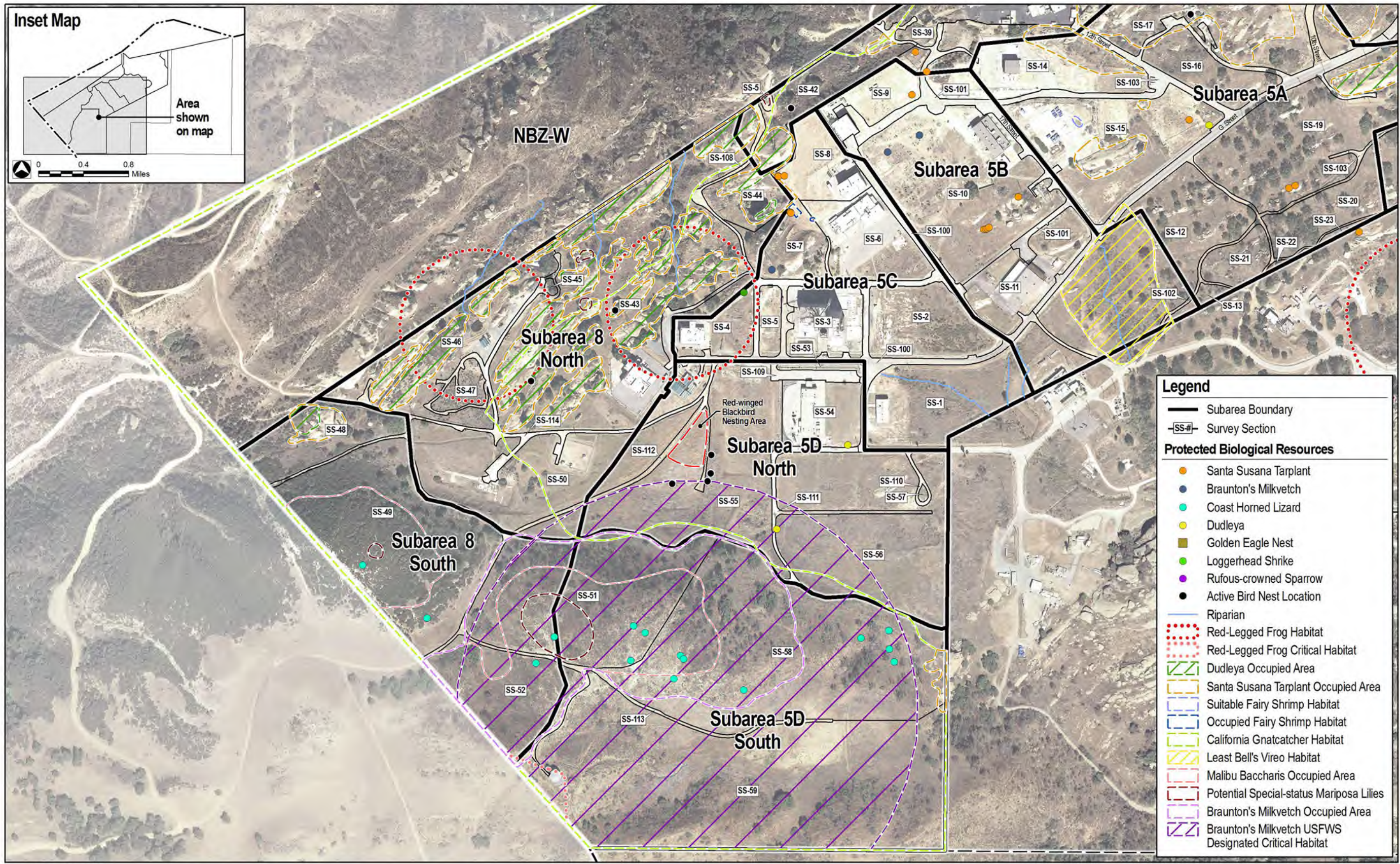
Subareas and Survey Sections



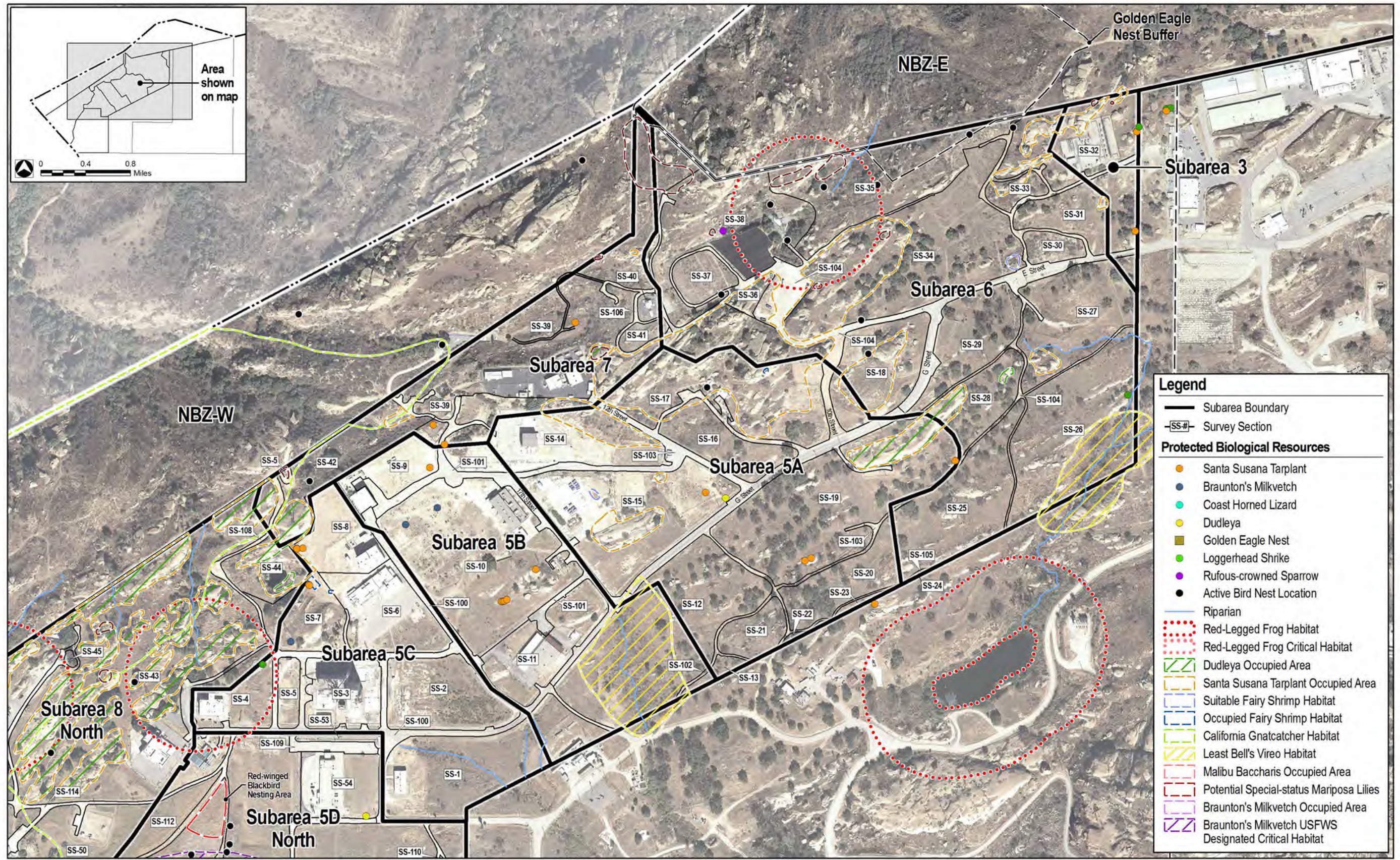
Aerial Source: CIRGIS, 2007.

## Project Tasks Completed or In Progress





Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.



**Plate 1A** - Vegetation cutting in Subarea 6 (SS-27).



**Plate 1B** - Modified Canycom track-mounted gamma scanner being operated in Subarea 6 (SS-35).



**Plate 1C** - Gamma scanning with mule-mounted scanner in Subarea 6 (SS-26).



**Plate 1D** - Subsurface soil sampling equipment located in Subarea 5A (SS-17) in a dense stand of Santa Susana tarplant.



**Plate 2A** - Suitable fairy shrimp vernal pool habitat in Subarea 5C (SS-7).



**Plate 2B** - Vernal pool in sandstone outcrop occupied by unidentified fairy shrimp in Subarea 5A (SS-17).



**Plate 2C** - Least Bell's Vireo riparian habitat in Subarea 6 (SS-26).



**Plate 2D** - Vegetation cutting in Least Bell's Vireo riparian habitat in Subarea 6 (SS-26).





**Plate 3A** - Crushed/uprooted Santa Susana tarplant during subsurface soil sampling in Subarea 5B (SS-9).



**Plate 3B** - Subsurface soil sampling team set up in Subarea 5B (SS-9).



**Plate 3C** - Small Santa Susana tarplants growing in pavement that were crushed by vehicles (Subarea 5A: SS-17).



**Plate 3D** - Intact Santa Susana tarplant growing in pavement in Subarea 5A (SS-17).



**Plate 4A** - Photo taken from SS-35 at top of canyon with golden eagle nest. Nest is 800 feet away, in distant shaded rocks in upper right of frame.



**Plate 4B** - Golden eagle nest with adult at right and white downy nestling in shade at left. Photo was taken from SS-35 using an 8-inch telescope.



**Plate 4C** - Bushtit nest built in a coast live oak in Subarea 6 (SS-38).



**Plate 4D** - Red-winged blackbird nest damaged from high winds, located in Subarea 5D North (SS-50).



**Plate 5A** - Coast live oak located in Subarea 8 North (SS-43) containing mourning dove nest whose eggs were depredated after vegetation trimming.



**Plate 5B** - Close-up view of mourning dove nest described in Plate 5B.



**Plate 5C** - Eggshells from mourning dove nest described in previous photo.



**Plate 5D** - Cavity in coast live oak containing Bewick's wren nest in Subarea 6 (SS-35).

**ATTACHMENT 1  
BIOLOGICAL CLEARANCE SURVEY FORMS**

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 8-43 (western 1/2)

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status species and suitable habitat	J. Anderson	Mar 1, 2011

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Riparian habitat	N	SMP Appendix N Protection of Riparian Resources
1	Potential coastal Calif. gnatcatcher habitat	N	GCN-8 (Implemented 2010 by protocol surveys)
1	Potential red-lesser frog habitat	N (boundary staked)	VC-5; GS-4; GN-11
1	Protected trees (Palafoxia)	N	HGL SMP Veg management protocols; Vta Control
1	Santa Susana tarplant	Y*	VC-10; GS-5
1	Dudleya sp	Y*	VC-9; GS-1

\* Not all individuals flagged.

**NOTES AND RECOMMENDATIONS:**

- Clearance survey for western 1/2 of section 43. Eastern 1/2 conducted on 10/18/10.
- Potential for occurrence of California species of Special Concern: coast patch nosed Snake, desert woodrat, coast-horned lizard, silver ch lessed lizard.
- Absence of coastal California gnatcatcher verified by protocol surveys in 2010. Also outside nesting season.
- Most Santa Susana tarplants flagged - plants not in harms way on rock outcrops not flagged.
- Red-lesser frog potential habitat ~~had~~ <sup>was</sup> boundary not staked during clearance survey - requires demarcation by bio monitor prior to ~~veg~~ <sup>clearance</sup> activities.
- Drainage with minimal riparian habitat ~~is~~ <sup>is</sup> jurisdictional in northern part of section.

**BIO MONITORING REQUIREMENTS:**

- All vegetation cutting
- Gamma scanning within 25-foot buffer of occupied areas or individual protected species, and gamma scanning within boundaries of potential red-lesser frog habitat (See GS 4)
- other activities (geophysical/sats) if would require use of vehicles off road or if protected resources cannot be avoided. If ~~robotics~~ <sup>robotics</sup> cannot be avoided, consult with bio monitor before proceeding.

Biologist Signature: [Signature]

Date: 1/10/11

HGL Field Supervisor Signature: [Signature]

Date: 1/10/11

Date: 1/11/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SS-25 Subarea 6, SS-105

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Specialists Survey	Scott Wain	2/15/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Endemic Trees (Sycamore, etc.)	N	Western Gnatcatcher
2	Habitat for Striped Gopher	N	VC1 monitor required for VC

**NOTES AND RECOMMENDATIONS:**

SS 25 consists of about 100 acres (10,000 sq ft) of riparian forest and scrub area on the south side of the creek (approx. 100 ft wide) and includes the following species:

- Endemic habitat exists for California Insect species - San Diego Drosophila (Drosophila melanogaster) - coastal forest lizard (Phyllorhynchus bimaculatus), scrub gopher and snake (Salvadora hexalepis virgata) and silver legless lizard (Uta stansburiana).

Monitoring requirements: constant monitoring required.

Avoidance measures: no work to be performed within identified riparian area. VC1 monitor required for VC. All activities must be completed by biologist due to breeding potential. All activities are conducted under State and Federal law. VC1 monitor is active 2/15 to 9/15.

-No work to be conducted within the riparian area unless the riparian area is cleared for the benefit of the VC project.

Biologist Signature: [Signature] Date: 1/11/11

HGL Field Supervisor Signature: [Signature] Date: 1/11/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SS-28

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status species/habitat survey	Scott Werner	2/15/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarplant	Y	VCI, VC-9
2	Dudleya	Y (moss)	VCI, VC-10
3	Protected trees	N	Verdugo County Trimming Guidelines
4	Habitat for state-listed species	N	VCI

**NOTES AND RECOMMENDATIONS:**

SS-28 consists of Coast live oak (*Quercus agrifolia*) woodland with an open understory of grasses and weedy species, and several rocky outcrops.

In addition to occurrence of tarplant and dudleya site supports suitable habitat for state-listed species: San Diego desert woodrat (evidence of woodrat observed but big-eared woodrat known from area), coast horned lizard, west patch-nosed snake, and silver legless lizard.

Monitoring requirements: ~~Vegetation cutting - required~~

Geophysical: no monitoring

~~Soil sampling - required at least during initial setup~~

Gamma scanning - none, assuming listed species are not found per.

\*\* After 2/15/11, biological monitoring required for all activities due to breeding bird potential. Clearance survey may substitute for monitoring.

Biologist Signature: *Scott Werner*

Date: 1/13/11

HGL Field Supervisor Signature: *Julie Ann Peltier McElwain*

Date: 1/13/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SS-29 Subarea G

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Specialist on-site surveys	Scott Wagner	2/15/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Killed trees	N	Montana County Farming Guidelines
2	Limitations for state resources	N	V.I.

**NOTES AND RECOMMENDATIONS:**

SS-29 consists of coast live oak (*Quercus agrifolia*) woodland with a modest understory of limited succumb *Malvastrum laevigatum*, deerweed (*Lotus scorpiarius*), mulefat (*Baccharis salicifolia*), and other shrubs, grasses, and weeds. Scattered rocky outcrops support habitats with for special status plants and wildlife.

(1) Potential road live oaks and blue elderberry (*Sambucus mexicana*) exist on site and should be removed per county regulations.

(2) Suitable habitat occurs for Santa Susana Terplant (*Mimothornii deinandia*), *Dryas* species (*Dryas* sp.), San Diego desert woodrat (*Neotoma lepida waterburyi*), coast horned lizard (*Phrynosoma blainvillii*), silver cholla lizard (*Chamaeleo amplexicauda*), and coast parakeet (*Sayornis forsteri*). Woodrat signs observed on site.

Minimization requirements: Vegetation cutting required.   
 Beams and excavations, *Prunella californica* and other above species are contained.   
 Soil sampling: no activities unless above species are contained.

\*\*\* After 2/15/11, clearance surveys/minimization required for all activities above, particular for nesting birds, etc. - DFE and Federal Migratory Bird ~~\_\_\_\_\_~~ *Melospiza* sp.

Biologist Signature: [Signature] Date: 1/13/11

HGL Field Supervisor Signature: [Signature] Date: 1/13/11



Date: 1/17/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

**Work Area:** SS-26 Subarea 6

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	<del>SS-26</del> Protected bio resources	Scott Werner	2/15/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	<del>SS-26</del> Protected trees	N	Ventura Co. Trimming Guidelines
2	Riparian habitat	N	App. N-Tier in of Biological Resources
3	Suitable habitat for State sensitive wildlife	N	Monitoring Required for VC.

**NOTES AND RECOMMENDATIONS:**

- ① Coast live oaks, elderberries, willows present on SS. Implement proper trimming techniques.
- ② Riparian habitat in the form of ephemeral willow riparian stream (some mudflats present and deeper standing water present just off site. Mower not permitted in stream or on banks. Most bank and stream shrub/trees must remain but can be trimmed to allow stream seepage.
- ③ Suitable habitat identified for State sensitive wildlife: San Diego gopher woodrat (*Neotoma lepida intermedia*), coast horned lizard (*Phrynosoma blewittii*), coast neck mosed snake (*Salvadora hexalepis virgata*), silver legless lizard (*Ameiva pulchra pulchra*), as well as inland habitat for aquatic species: western pond turtle (*Actinemys naminata*) and two-striped gopher snake (*Thamnophis hammondi*).

Monitoring: VC-required  
 All other activities in riparian canyon required (no mowing, no grading, no surveying) after 2/15/11 prior to work.

Biologist Signature: [Signature] Date: 1/18/11  
 HGL Field Supervisor Signature: Julian Robert Melman Date: 1/18/11

Date: 1/17/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SS-27 Subarea 6

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status bi-resources & habitat	Scott Werner	2/15/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana Tarplant	Y, most	VC-1, VC-ID
2	Protected Trees	N	Valencia County Trimming Guidelines
3	Suitable habitat for State special-status species	N	VC-1

**NOTES AND RECOMMENDATIONS:**

SS-27 consists primarily of rough live oak (*Quercus agrifolia*) woodland on fairly flat terrain, with a stand of thick-bark white santa (Eriodictyon crassifolium) scrub around the transmission tower and some rocky outcrops in the southwest corner. A small gully with no riparian vegetation is fed by an asphalt drainage channel that collects water from SS-34 and SS-29. Santa Susana tarplants are present on the rocky outcrops. Suitable habitat for coast horned lizard, silver legless lizard, and San Diego Desert Woodrat.

Monitoring requirements: VC - required  
 GS - SS SWSS - monitor required for work around rocky outcrops but not for rest of site unless sensitive wildlife are found  
 GP - none unless sensitive wildlife described above are confirmed present

**\*\* This clearance survey report expires on 2/15/11, the start of nesting bird season. All work conducted 2/15/11 to 9/15/11 will require a breeding bird survey to avoid impacts pursuant to Calif. Dept. of Fish and Game regulations and Federal Migration Bird Treaty Act.**

Biologist Signature: [Signature]

Date: ~~1/17/11~~ 1/17/11

HGL Field Supervisor Signature: [Signature]

Date: 1/17/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: HSA-6 SS 30, 31, 32, 33, 34

35, 37, 38

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
	Clearance	Carl Wishner	

See map for locations **SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Fairy shrimp habitat	Y	
2	Sandstone outcrops	Y	
3	Woodrat nest	Y	
4	Leafless lizard habitat	Y	
5	Mariposa lilies	Y	
6	Red-legged frog habitat	N	

**NOTES AND RECOMMENDATIONS:**

- ① Area in large patch of mulefat sometimes inundated. All activity in this area should be done when soil is dry.
- ② Avoid cutting bareplants
- ③ woodrat nest potentially San Diego desert woodrat. Leave nest intact to extent possible.
- ④ Thick oak leaf litter accumulation under trees and against base of sandstone outcrops. Avoid severe disturbance during vegetation clearance. When scanning, if necessary to expose soil do so carefully, and replace leaf litter to original position after scan is complete. Leaf litter should not be removed more than 2 hrs in advance of scan and should be replaced within 2 hrs after scan.
- ⑤ Mariposa lilies should not be cut during vegetation clearance. Avoid foot or vehicle trampling or crushing while in growth.

Monitor required at all times

Cattail marsh area within pond. All work requires monitoring.

Biologist Signature: Carl Wishner Date: 26 Jan 2011  
 HGL Field Supervisor Signature: Al Dean Felling Date: 2/2/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-26	<b>Subarea:</b> 6
<b>Biologist:</b> Scott Werner	<b>Date:</b> 2/4/2011
<b>Survey Type:</b> <i>amendment to original clearance report dated 1/17/2011 by Scott Werner</i>	<b>Expiration:</b> n/a

### AMENDED SURVEY FINDINGS

Survey Section	Protected Resources	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-26	Suitable habitat for Least Bell's Vireo (LBV)	Y	All activities prohibited within LBV habitat area shown on attached map during the LBV nesting season of March 15 to September 30.

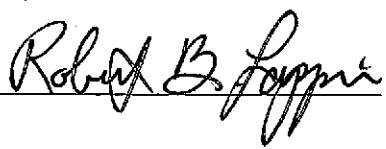
#### NOTES AND RECOMMENDATIONS:

During a closer look at the site than was possible during the original clearance survey, the riparian zone in the southeastern corner of SS-26 contains habitat elements suitable for Federally endangered Least Bell's Vireo (*Vireo bellii pusillus*), such as dense riparian shrub and tree components of mule fat (*Baccharis salicifolia*), arroyo willow (*Salix lasiolepis*), and mature but burned coast live oak (*Quercus agrifolia*). The understory consists of mule fat, poison oak (*Toxicodendron diversilobum*), coyote brush (*Baccharis pilularis*), downed woody debris and logs, and nonnative annuals. During the last week of January there was standing water in the main drainage. Downstream of the site, just off Area IV, there exists a much larger riparian woodland upstream of large permanent settling pond. This woodland is contiguous with the SS-26 habitat and also contained substantial amounts of standing water in late January.

Without a focused LBV survey that would determine presence or absence of LBV in SS-26, all project activities will be restricted within the habitat area indicated on the attached map during the LBV nesting season of March 15 to September 30.

Biologist Signature: 

Date: 2/4/11

HGL Field Supervisor Signature: 

Date: 2/4/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Survey Section (SS): SS-36	Subarea: 6
Biologist: Scott Werner	Date: 2/7/2011
Survey Type: Special-status species and suitable habitats, nesting birds	Expiration: March 1, 2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-36	Santa Susana tarplant	Y	VC-10
SS-36	Protected Trees	Y	Appendix E, Veg Mgmt
SS-36	Suitable habitat for San Diego desert woodrat	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

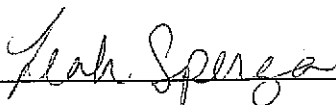
SS-36 is a relatively small plot bordered by roads on both sides and contains a tall, narrow sandstone outcrop and a previously disturbed flat section with a dense stand of Santa Susana tarplant.

Vegetation Cutting: monitor required. No mower due to abundance of tarplant. Monitor should guide one vegetation removal worker with weed whacker through site and avoid all tarplant. Other shrubs (mulefat, coyote brush, poison oak) can be cut with chainsaws/loppers. Per vegetation management protocol, poison oak should be cut, not pulled out with roots attached.

Gamma scanning, Geophysical Survey, Soil Sampling: monitor required due to abundance of tarplant.

Biologist Signature: 

Date: 2/7/11

HGL Field Supervisor Signature: 

Date: 2/9/11

Date: 2/17/11

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SS-39 (portion <sup>in Phase</sup> of Subarea 6)

SURVEYS PERFORMED

Table with 4 columns: ID, Survey Type, Biologist, Expiration. Row 1: 1 Special status species, suitable habitat J. Anderson Mar 1, 2012. Row 2: 2 Nesting birds J. Anderson Mar 1, 2011.

TO BE DETERMINED

SURVEY FINDINGS

Table with 4 columns: ID, Protected Resources, Flagged (Y/N), Applicable Avoidance and Minimization Measures. Row 1: Potential special-status manzanita lilies (Calochortus sp.) YA VC-1, GS-1. Row 2: Coast live oaks N HGL SMP Veg Management Protocols / Vta Co Tree Trimming Guidelines. Row 3: Suitable habitat for DFG species of Special Concern N VC-1 (Monitor required during all vegetation clearance).

\* Likely not all individuals flagged. NOTES AND RECOMMENDATIONS:

- Northeastern part of SS-39 cleared, i.e. part of SS-39 within Subarea 6 that is

BIOLOGICAL MONITORING REQUIREMENTS:

A Monitoring biologist shall supervise vegetation clearance, gamma scanning using ERGS or Mule within 25 ft of protected resources; other project activities involving light or heavy off-road vehicle use within 25 ft of protected resources. If protected resources can't be avoided, consult w/ biologist before proceeding.

Nesting birds: Additional nesting bird surveys / monitoring requirements to be determined.

Biologist Signature: [Signature] HGL Field Supervisor Signature: [Signature]

Date: 3/1/11 Date: 3/1/2011

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-31, 32	<b>Subarea:</b> 3
<b>Biologist:</b> Scott Werner	<b>Date:</b> 2/18/2011
<b>Survey Type:</b> Special-status species and suitable habitats, nesting birds	<b>Expiration:</b> 3/1/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-31, 32	Santa Susana tarplant	Y	Y	VC-10
SS-32	Dudleya	Y	Y	VC-9
SS-32	mariposa-lily	Y	Y	VC-1
SS-36	Protected Trees: coast live oak, blue elderberry	N	Y	Appendix E, Veg Mgmt
SS-36	Suitable habitat for San Diego desert woodrat, legless lizard, coast horned lizard	N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

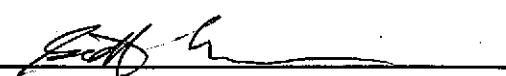
Survey encompassed all of Subarea 3 (eastern portions of SS-31 and SS-32 but excluding SS-27, which was surveyed and trimmed on January 20, 2011).

The portion of Subarea 3 south of the Southern California Edison substation is coast live oak woodland with an understory of annual grasses and some laurel sumacs amongst a few sandstone outcrops. Sensitive resources identified in the area include Santa Susana tarplant, protected trees, and suitable habitat for California special-concern wildlife species listed above.

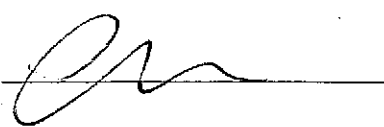
Around the substation and to its north, Subarea 3 is composed of chaparral and scrub species (chamise, California buckwheat, etc.) with annual grasses and a few coast live oaks with many sandstone outcrops. Santa Susana tarplant is common here, even away from the rocks on areas of consolidated soil. Two significant patches of intermixed Dudleya and mariposa-lilies in vegetative form were flagged

No bird nesting activity was observed. Resident bird species observed that could nest on the site included western scrub-jay, canyon wren, California towhee, Nuttall's woodpecker, oak titmouse, spotted towhee, common raven, red-tailed hawk, and Bewick's wren. Additional species observed included yellow-rumped warbler and golden-crowned sparrow.

Monitoring will be required during all project tasks (vegetation cutting, gamma scanning, geophysical survey, soil sampling) due to the abundance of protected plants and sensitive wildlife habitat.

Biologist Signature: 

Date: 2/22/11

HGL Field Supervisor Signature: 

Date: 02/22/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-39 (partial – see below)	<b>Subarea:</b> 3, 7
<b>Biologist:</b> Scott Werner	<b>Date:</b> 2/22/2011
<b>Survey Type:</b> Special-status species and suitable habitats, nesting birds	<b>Expiration:</b> 3/1/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-39	Santa Susana tarplant	Y	Y	VC-10
SS-39	mariposa-lilies	Y	Y	VC-1
SS-39	Protected Trees: coast live oak	N	Y	Appendix E, Veg Mgmt
SS-39 (NBZ-E)	Golden eagle nest nearby	N	Y	Restrictions in northern portion of SS-39
SS-39	Suitable habitat for San Diego desert woodrat, coast horned lizard	N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**


The survey encompassed SS-39 within Subarea 6, and the northernmost portion of SS-39 in Subarea 7, bounded on the south by extending a line westward from the line separating SS-38 and 39 in NE Subarea 6.

The survey area is chamise chaparral, or mixed chaparral. Patchy mariposa-lilies were observed growing in the area. No bird nesting behavior was observed.

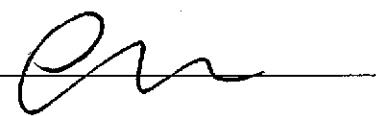
The northernmost section on SS-39 is in a direct line-of-sight with the rock outcrop containing the golden eagle nest (700-800 ft away) and should not be cut using power tools until the baby eagles have fledged (approx. June 1).

Monitoring will be required during all project tasks (vegetation cutting, gamma scanning, geophysical survey, soil sampling) due to the abundance of protected plants and sensitive wildlife habitat.

This report expires on March 1, 2011. All activity scheduled on the plot after March 1 will require a nesting bird survey beforehand.

Biologist Signature: 

Date: 2/22/11

HGL Field Supervisor Signature: 

Date: 2/22/11



Date: 2/24/11

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: T-39 (south western corner)

SURVEYS PERFORMED

See attached map for extent of survey.

Table with 4 columns: ID, Survey Type, Biologist, Expiration. Row 1: 1, Suitable habitat; special status Species, J. Anderson, Mar 1 2012. Row 2: 2, Nesting birds, J. Anderson, TO BE DETERMINED.

SURVEY FINDINGS

Table with 4 columns: ID, Protected Resources, Flagged (Y/N), Applicable Avoidance and Minimization Measures. Rows include: 1/2 Potential coastal Calif. gnatcatcher habitat (N, GEN 8), 1 Protected trees (N, HGL-SMP), 1 Wood rat nest structures (X, leave in place), 1 Suitable habitat for DFG Species (N, monitor).

NOTES AND RECOMMENDATIONS:

No nesting birds observed during clearance survey.

BIO MONITORING REQUIREMENTS:

A monitoring biologist shall supervise vegetation clearance, gamma scanning using ERBS or mule within 25ft of protected resources; other project activities involving light or heavy off-road vehicle use within 25 feet of protected resources. If protected resources can't be avoided, consult with biologist before proceeding.

Nesting birds: Additional nesting bird surveys monitoring requirements for nesting birds to be determined.

Coastal California gnatcatcher: Protocol surveys in Spring 2010 have confirmed absence. Upcoming protocol survey in 2011 will verify presence/absence as required on annual basis.

Biologist Signature: [Signature]
HGL Field Supervisor Signature: [Signature]

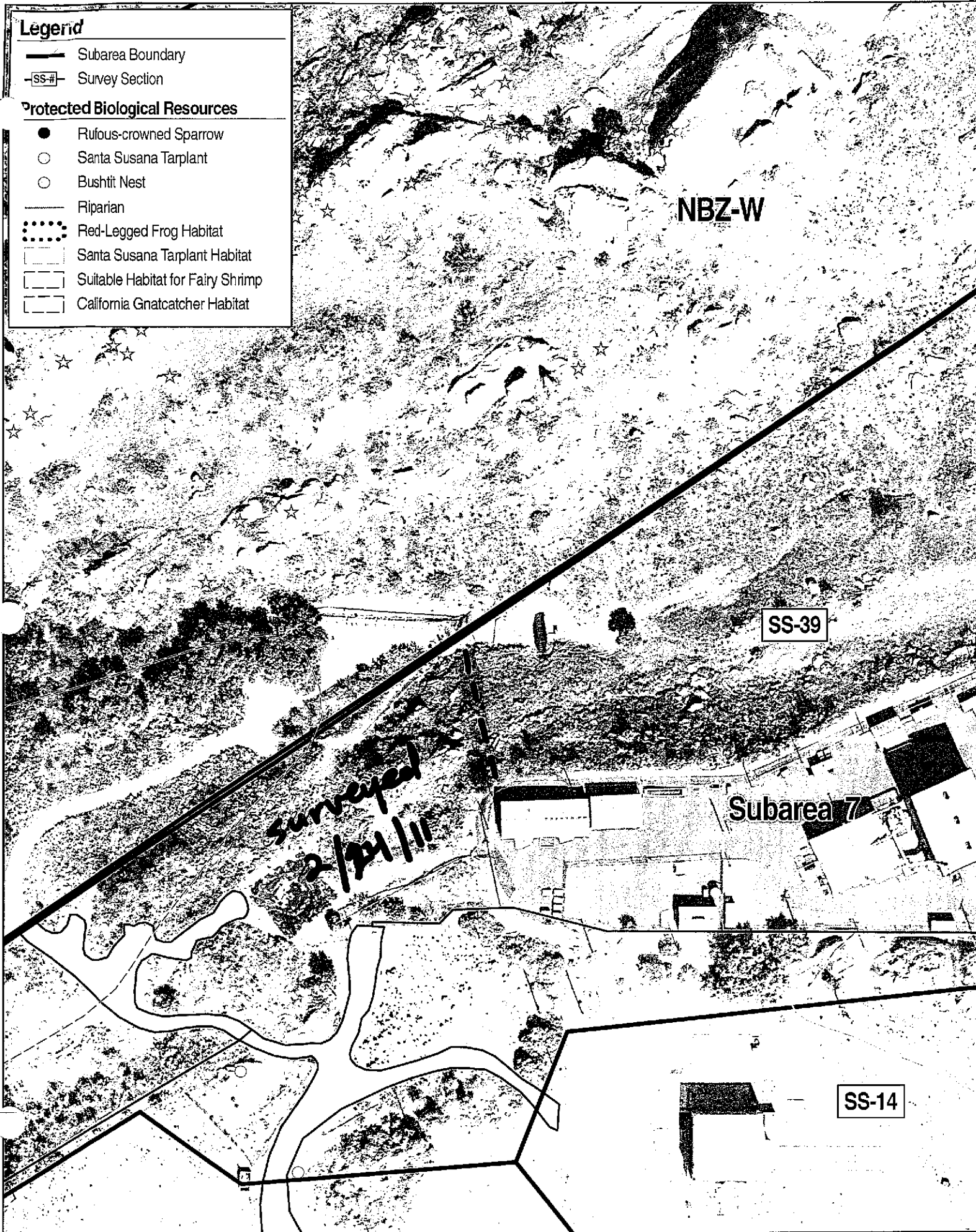
Date: 3/1/11
Date: 3/1/2011

**Legend**

- Subarea Boundary
- SS-#- Survey Section

**Protected Biological Resources**

- Rufous-crowned Sparrow
- Santa Susana Tarplant
- Bush-tit Nest
- Riparian
- ⋯ Red-Legged Frog Habitat
- ▭ Santa Susana Tarplant Habitat
- ▭ Suitable Habitat for Fairy Shrimp
- ▭ California Gnatcatcher Habitat



Date: 2/24/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 7-42

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special-status species; suitable habitat	J. Anderson	Mar <del>2012</del> 2012
2	Nesting birds	J. Anderson	TO BS DETERMINED

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Potential coastal Calif. graticatcher habitat	N	GEN-8 (Absence confirmed by protocol surveys)
1	Santa Susana tanglet	Y	VC-10; BS-5
1	Dudleya sp.	Y	VC-9; BS-1
1	Protected trees (blue eld.)	N	HGL Veg Management Protocols; tree trimming guidelines
1	Potential status lilies	N	VC-1 (Avoid, monitor required)
1	Suitable habitat for off-SSC	N	VC-1 (Monitor required during all veg clearance)
1	Woodrat nest structures	Y	Leave in place but may cut veg around nests

\* Smaller seedling/sapling coast live oaks flagged.  
**NOTES AND RECOMMENDATIONS:**

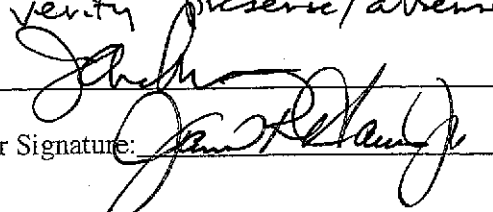
**Bio monitoring requirements:**

A monitoring biologist shall supervise vegetation clearance; gamma scanning using GRS or mule within 25 ft of protected resources; other project activities involving light or heavy off-road vehicle use within 25 ft of protected resources. If protected resources can't be avoided, consult w/ biologist before proceeding.

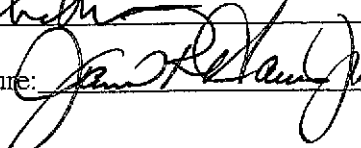
Nesting birds: No nesting birds identified during clearance survey. Additional clearance survey/monitoring requirements to be determined ~~to nesting birds~~

Two concentrations of new growth potentially <sup>special</sup> status *Maryosa liliis* - not flagged. Avoid during all activities.

Coastal California graticatcher: Protocol surveys in Spr 2010 have confirmed absence. ~~status~~ Upcoming protocol surveys in 2011 will verify presence/absence ~~to management~~ as required annually.

Biologist Signature: 

Date: 3/1/11

HGL Field Supervisor Signature: 

Date: 3/3/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

SS-16 (-SW)

Survey Section (SS): <del>SS-13</del> Group 1	Subarea: 5A
Biologist: Scott Werner	Date: 3/7/2011
Survey Type: Nesting birds, special-status species and habitats	Expiration: 3/14/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS- <del>13</del> 16 -SW	Santa Susana tarplant	Y	Y	SS-1, SS-2; monitor req'd if drilling among tarplant

**NOTES AND RECOMMENDATIONS:**

No nesting birds were found in area.

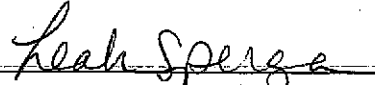
Avian species observed included:

- House finch
- Dark-eyed junco
- American crow

Nesting habitat has been greatly reduced since vegetation activities in summer 2010. However, some shrubs such as laurel sumac have partially grown back and could support nesting birds.

Biologist Signature: 

Date: 3/7/11

HGL Field Supervisor Signature: 

Date: 3/14/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-56	<b>Subarea:</b> 5D
<b>Biologist:</b> Scott Werner	<b>Date:</b> 3/7/2011
<b>Survey Type:</b> Nesting birds, special-status species and habitats	<b>Expiration:</b> 3/14/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-56	Potential California Gnatcatcher habitat	N	N	GEN-8: Suitable habitat elements not present within SS-56
SS-56	Braunton's milkvetch Critical Habitat Unit 1D	N	N	GEN-8: Suitable habitat elements not present
SS-56	Protected Trees: blue elderberry	N	N	Appendix E, Veg Mgmt, Ventura Co Trimming Guidelines.

**NOTES AND RECOMMENDATIONS:**

No nesting birds were found in area.

Avian species observed included:

White-crowned sparrow  
Western meadowlark  
European starling  
Nuttall's woodpecker

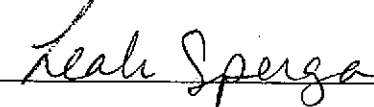
House finch  
Yellow-rumped warbler  
Red-winged blackbird  
Song sparrow

Bewick's wren  
Anna's hummingbird

Time did not allow for a survey of nearby SS-55, although several dozen red-winged blackbirds were seen from a distance to be using the fresh mustard stand in SS-55 for foraging and loafing activities. Red-winged blackbirds were confirmed to be nesting in that area in 2010.

Biologist Signature: 

Date: 3/7/11

HGL Field Supervisor Signature: 

Date: 3/14/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-12 (only the portion within Subarea 5B)	<b>Subarea:</b> 5B
<b>Biologist:</b> Scott Werner	<b>Date:</b> 3/9/2011
<b>Survey Type:</b> Nesting birds, special-status species and habitats	<b>Expiration:</b> 3/16/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-12	Least Bell's vireo habitat area	N	Y	All activity restricted March 15-Sept 30.
SS-12	Riparian	N	Y	App N: Avoid impacts to drainage

**NOTES AND RECOMMENDATIONS:**

Survey included all of SS-12 within Subarea 5A.

No nesting birds were observed.

Avian species observed included:

American crow  
White-crowned sparrow  
House finch  
California towhee  
Anna's hummingbird  
Common raven  
Yellow-rumped warbler

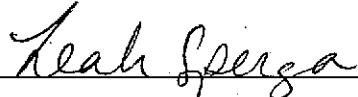
Acorn woodpecker  
Say's phoebe  
Canyon wren  
Song sparrow  
Lesser goldfinch  
Lark sparrow  
Oak titmouse

Bushtit  
European starling  
Turkey vulture  
Dark-eyed junco  
Nuttall's woodpecker

Substantial nesting habitat exists with young oaks, sumac, and other shrubs left intact during vegetation trimming due to riparian protections.

Biologist Signature: 

Date: 3/9/11

HGL Field Supervisor Signature: 

Date: 3/14/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-35, SS-33, SS-31, SS-32 (partial), SS-38 (partial) (see below)	<b>Subarea:</b> 6
<b>Biologist:</b> Scott Werner	<b>Date:</b> 3/11/2011
<b>Survey Type:</b> Nesting birds, special-status species and habitats	<b>Expiration:</b> 3/18/2011

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-35	Bushtit nest	Y	Y	Nesting bird buffer, monitor required for work
All referenced above	Protected trees	N	N	Vegetation mgmt
SS-35	Golden Eagle nest buffer	N	Y	Monitor required for heavy machinery in eastern SS-35 overlooking canyon.
All referenced above	Woodrat nests (potential for San Diego desert woodrat)	Y/N	N	Avoid nests.

### NOTES AND RECOMMENDATIONS:

Survey included most of the northern portion of Subarea 6 that has not been Gamma scanned; above-referenced Survey Sections including NE SS-34 grassland area, and eastern edge of SS-38.

Bushtits completing nest in coast live oak described in 2/14/2011 monitoring report. ~30 ft initial buffer established. All work in area around buffer will require monitor.

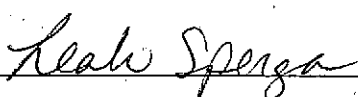
Avian species observed included:

House wren	Northern flicker	Yellow-rumped warbler
White-throated swift	Acorn woodpecker	Wrentit
House finch	Bushtit	Common raven
Anna's hummingbird	Canyon wren	Oak titmouse
California towhee	Western bluebird	Golden eagle
European starling	Western scrub-jay	Black phoebe
Mourning dove	Greater roadrunner	Lesser goldfinch
Bewick's wren	Spotted towhee	

Pacific chorus frog adults and tadpoles seen in pond in eastern SS-38.

Biologist Signature: 

Date: 3/11/11

HGL Field Supervisor Signature: 

Date: 3/14/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-56	<b>Subarea:</b> 5D
<b>Biologist:</b> Scott Werner	<b>Date:</b> 3/14/2011
<b>Survey Type:</b> Nesting birds, special-status species and habitats	<b>Expiration:</b> 3/21/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-56	Potential California Gnatcatcher habitat	N	N	GEN-8: Suitable habitat elements not present within SS-56
SS-56	Braunton's milkvetch Critical Habitat Unit 1D	N	N	GEN-8: Suitable habitat elements not present
SS-56	Protected Trees: blue elderberry	N	N	Appendix E, Veg Mgmt, Ventura Co Trimming Guidelines.

**NOTES AND RECOMMENDATIONS:**

No nesting birds were found in area.

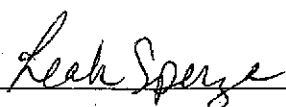
Avian species observed included:

Common raven  
Western meadowlark  
Savannah sparrow  
White-crowned sparrow  
European starling  
Rock pigeon  
Red-tailed hawk

Lark sparrow  
Say's phoebe  
House wren  
Song sparrow  
Northern rough-winged swallow  
Mourning dove  
Red-winged blackbird

Biologist Signature: 

Date: 3/14/11

HGL Field Supervisor Signature: 

Date: 3/21/11



**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Survey Section (SS): SS-39 (partial), SS-40, SS-41, SS-106	Subarea: 6
Biologist: Scott Werner	Date: 3/16/2011
Survey Type: Nesting birds, special-status species and habitats	Expiration: 3/21/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-39	Mariposa-lilies	Y	Y	VC-1; GS-1; GS-2; GP-1; SS-1
SS-39	Santa Susana Tarplant	Y	Y	VC-10; GS-1; GS-2; GP-1; SS-1
SS-39	Dudleya	Y	Y	VC-9; GS-1; GS-2; GP-1; SS-1
SS-39, SS-41	Protected Trees: blue elderberry, coast live oak, willow	N	Y	Appendix E, Veg Mgmt, Ventura Co Trimming Guidelines.
All listed above	Nesting bird habitat	N	Y	VC-1; GS-1; GS-2; GP-1; SS-1
SS-39	Woodrat activity, potential San Diego desert woodrat	N	Y	VC-1; GS-1; GS-2; GP-1; SS-1

**NOTES AND RECOMMENDATIONS:**

The survey included all of SS-40, SS-41, SS-106, and the uncut portion of SS-39, which stretches from Outfall 3 eastward to the sandstone outcrops north of SS-40 (the portion of SS-17 within Subarea 7 has already been cut).

No nesting birds were found in the Subarea 7 work area, although a Bushtit nest was found along the road to Outfall 3, 50 ft outside of Subarea 7 in BZ-NW. Nest is currently in the building stage, 10 ft up in a coast live oak at UTM 342320E, 3789470N. A pair of red-tailed hawks observed copulating in the vicinity of SS-38 but no nest seen.

List of avian species observed during the survey is indicated below. Species with an asterisk (\*) are summer resident species that will likely be nesting at SSFL.

Bushtit\*  
House finch\*  
Lark sparrow\*  
House wren\*  
Rock wren\*  
Red-tailed hawk\*  
Mourning dove\*  
Hermit thrush  
Western scrub-jay\*

Bewick's wren\*  
Golden-crowned sparrow  
White-crowned sparrow  
California towhee\*  
Canyon wren\*  
Spotted towhee\*  
White-throated swift\*  
Oak titmouse\*  
Anna's hummingbird\*

Wrentit\*  
California quail\*  
California thrasher\*  
Cliff swallow\*  
Yellow-rumped warbler  
Song sparrow\*

Biologist Signature: *Scott Werner*

Date: 3/16/11

HGL Field Supervisor Signature: *Leah Speyer*

Date: 3/21/11

Date: 3/22/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

**Work Area:** portions of SS-56 SS-50

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Nesting Birds, special-status plants/wildlife	S. Werner	3/29/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Protected trees (walnut oak, elderberry)	N	Tree trimming guidelines.
	(No nesting birds found)		

**NOTES AND RECOMMENDATIONS:**

SS-56: Survey included S half of SS-56 (area S of SS-111 road): Elderberry present; 99% of plot covered by *Bromus* and *Avena* annual grasses which is comparatively poor quality nesting habitat for ground-nesting species. Bird species observed: white-throated sparrow, western meadowlark, California towhee, house finch.

SS-50: Survey area includes entire plot W of observatory. Walnut consist live oak trees. Diversity in topography and plant species (though mostly annual grassland) provides modest amount of habitat for ground- and tree-nesting birds. Bird species observed: lark sparrow, Nuttall's woodpecker, California towhee, oak titmouse, song sparrow, lesser goldfinch, dark-eyed junco, bush-tit, western bluebird, mourning dove, northern flicker, ruby-crowned kinglet, spotted towhee, house wren, canyon wren, black-chinned turkey vulture's roosting on SCE tower. (A few species heard just outside of SS-50 included).

Monitoring recommended but not required given early point in nesting season and adverse weather conditions this week (affecting nesting behavior).

Biologist Signature: *[Signature]*

Date: 3/22/11

HGL Field Supervisor Signature: *[Signature]*

Date: 3/22/2011

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Survey Section (SS): SS-43 (partial)	Subarea: 5A
Biologist: Scott Werner	Date: 3/23/2011
Survey Type: Nesting birds, special-status species and habitats	Expiration: 3/30/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-43	Santa Susana Tarplant	Y	Y	VC-10; GS-1; GS-2; GP-1; SS-1
SS-43	Dudleya	Y	Y	VC-9; GS-1; GS-2; GP-1; SS-1
SS-43	Mariposa lilies	Y	Y	VC-1; GS-1; GS-2; GP-1; SS-1
SS-43	Protected Trees: coast live oak, blue elderberry	N	Y	Appendix E, Veg Mgmt, Ventura Co Trimming Guidelines.
SS-43	Nesting bird habitat	N	Y	VC-1; GS-1; GS-2; GP-1; SS-1
SS-43	Woodrat activity, potential San Diego desert woodrat	N	Y	VC-1; GS-1; GS-2; GP-1; SS-1

**NOTES AND RECOMMENDATIONS:**

The survey included southeastern portion of SS-43 delineated on attached map: coast live oak woodland with understory of annual grasses and laurel sumac with sandstone outcrops.

One active bird nest was found in the work area: bushtit nest located 20 feet up in a mature coast live oak at UTM 341914E, 3789034N. Bushtits are still delivering fine material to interior of nest, so there are likely no eggs yet.

One patch of mariposa lilies flagged, indicated on attached map.

List of avian species observed during the survey is indicated below. Species with an asterisk (\*) are summer resident protected species that will likely be nesting at SSFL.

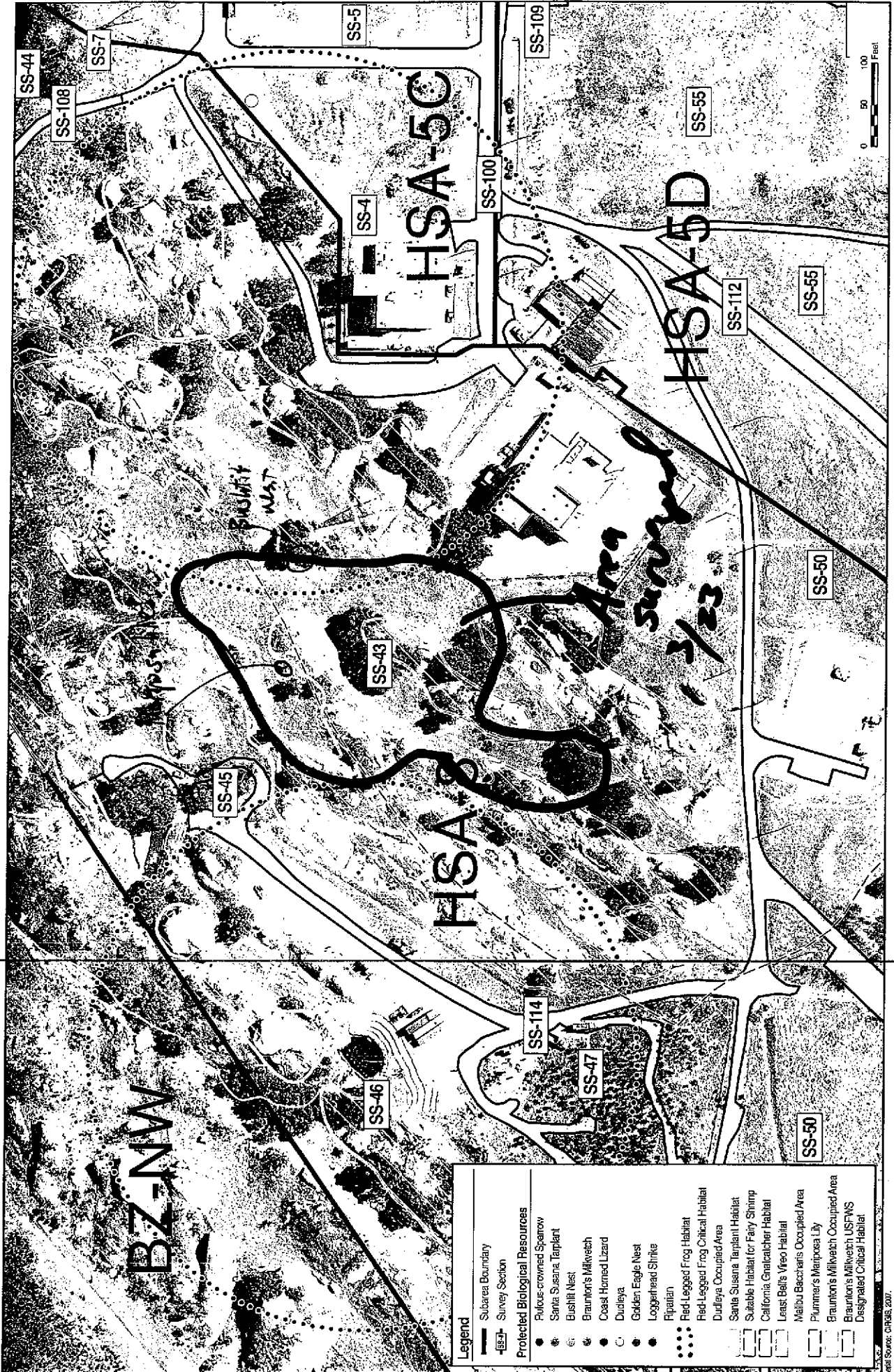
Bushtit*	California towhee*	Lincoln's Sparrow
House finch*	Oak titmouse*	Northern flicker*
House wren*	Yellow-rumped warbler	White-breasted nuthatch*
Rock wren*	Western bluebird*	Cooper's hawk*
Western scrub-jay*	Ruby-crowned kinglet	Dark-eyed junco*
Bewick's wren*	Spotted towhee*	

Biologist Signature: Scott Werner

Date: 3/24/11

HGL Field Supervisor Signature: Reek Spenza

Date: 3/30/11



Legend	
	Subarea Boundary
	Survey Section
Protected Biological Resources	
	Pilous-crowned Sparrow
	Santa Susana Tanager
	Bushlit Nest
	Braunton's Milkvetch
	Coast Horned Lizard
	Dudleya
	Golden Eagle Nest
	Loggerhead Shrike
	Pipitain
	Red-legged Frog Habitat
	Red-legged Frog Critical Habitat
	Dudleya Occupied Area
	Santa Susana Tanager Habitat
	Suitable Habitat for Fairy Shrimp
	California Gnatcatcher Habitat
	Least Bell's Vireo Habitat
	Malibu Baccharis Occupied Area
	Plummer's Mariposa Lily
	Braunton's Milkvetch Occupied Area
	Braunton's Milkvetch USFWS Designated Critical Habitat

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-17 (partial)	<b>Subarea:</b> 5A
<b>Biologist:</b> Scott Werner	<b>Date:</b> 3/29/2011
<b>Survey Type:</b> Nesting birds, special-status species and habitats	<b>Expiration:</b> 4/4/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-39	Santa Susana Tarplant	Y	Y	VC-10; GS-1; GS-2; GP-1; SS-1
SS-39, SS-41	Protected Trees: coast live oak	N	Y	Appendix E, Veg Mgmt, Ventura Co Trimming Guidelines.
All listed above	Nesting bird habitat	N	Y	VC-1; GS-1; GS-2; GP-1; SS-1
SS-39	Woodrat activity, potential San Diego desert woodrat	N	Y	VC-1; GS-1; GS-2; GP-1; SS-1

**NOTES AND RECOMMENDATIONS:**

The survey included eastern portion of SS-17 (NE corner of Soil Sampling Group 3), not including the coast live oaks in the SE corner or the portion of Group 3 in SS-18. Clearance survey was done in conjunction with Soil Sampling monitoring.


No nesting birds were found in the work area. Many Santa Susana tarplants were reflagged and staked to allow passage of the auger truck. Some tarplants flagged during summer 2010 and monitored since then have not resprouted (i.e. appear to have died of natural causes during the winter).

List of avian species observed during the survey is indicated below. Species with an asterisk (\*) are summer resident protected species that will likely be nesting at SSFL.

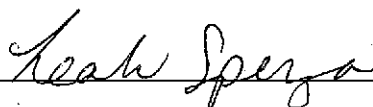
Bushtit\*  
House finch\*  
Lark sparrow\*  
House wren\*  
Rock wren\*  
Red-tailed hawk\*

Western scrub-jay\*  
Bewick's wren\*  
California towhee\*  
Canyon wren\*  
White-throated swift\*  
Oak titmouse\*

Anna's hummingbird\*  
Yellow-rumped warbler  
Western bluebird\*  
European starling

Biologist Signature: 

Date: 3/29/11

HGL Field Supervisor Signature: 

Date: 3/30/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-1	<b>Subarea:</b> 5C
<b>Biologist:</b> Scott Werner	<b>Date:</b> 3/31/2011
<b>Survey Type:</b> Nesting birds, special-status species and habitats	<b>Expiration:</b> 4/7/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-1	Riparian	N	Y	Appendix E: Veg Mgmt.
SS-1	Nesting bird habitat	N	Y	VC-1; GS-1; GS-2; GP-1; SS-1

**NOTES AND RECOMMENDATIONS:**

Clearance survey based on upcoming vegetation cutting in grassland area of SS-1. No activities expected in riparian zone.

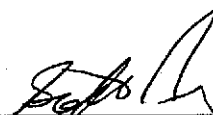
No nesting birds were found in the work area. During nesting bird season, monitor required for all VC activities in case any nests were missed during survey.

List of avian species observed during the survey is indicated below. Species with an asterisk (\*) are summer resident protected species that may be nesting at SSFL.

Western meadowlark\*  
 House finch\*  
 Lark sparrow\*  
 Red-winged blackbird\*  
 Western kingbird\*  
 Hooded oriole\*

Anna's hummingbird\*  
 House wren\*  
 Bewick's wren\*  
 American crow\*  
 Lark sparrow\*  
 Common raven\*

Say's phoebe  
 European starling

Biologist Signature: 

Date: 3/31/11

HGL Field Supervisor Signature: 

Date: 4/5/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Survey Section (SS):</b> SS-17 (partial)	<b>Subarea:</b> 5A
<b>Biologist:</b> Scott Werner	<b>Date:</b> 4/1/2011
<b>Survey Type:</b> Nesting birds, special-status species and habitats	<b>Expiration:</b> 4/6/2011

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-17	Santa Susana tarplant	N	Y	Appendix E: Veg Mgmt.
SS-17	Nesting bird habitat	N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Only the southeastern portion of SS-17 was surveyed, in anticipation of upcoming soil sampling in that part of the survey section.

Western scrub-jay nest that had 4 eggs on Monday is now empty (predation). Failure not attributable to EPA activities since there have been none in the area this week.

List of avian species observed during the survey is indicated below. Species with an asterisk (\*) are summer resident protected species that may be nesting at SSFL.

Spotted towhee\*

Bewick's wren\*

Acorn woodpecker\*

White-crowned sparrow

House finch\*

Western scrub-jay\*

Bushtit\*

California towhee\*

Dark-eyed junco\*

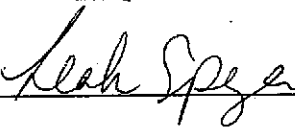
Yellow-rumped warbler

California quail\*

Common poorwill\*

Biologist Signature: 

Date: 4/1/11

HGL Field Supervisor Signature: 

Date: 4/5/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Date:</b> 4/5/2011	<b>Survey Section (SS):</b> SS-35, SS-38 (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> 6
<b>Expiration:</b> 4/11/2011	<b>Survey Type:</b> Nesting birds, special-status species and habitats

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-35	Santa Susana tarplant	N	Y	VC-1, GS-1, SS-1, SS-2
SS-35	Mariposa lilies	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-35	Nesting birds	Y/N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Clearance survey is in support of upcoming Gamma Scanning and focuses on areas not previously scanned. Survey included western 2/3 of SS-35 (area north of long narrow rocky outcrop to E not surveyed) and eastern portion of SS-38 around/below Outfall.

Status of Bewick's wren nest described on 3/31 in inaccessible coast live oak cavity unknown (likely finished building). Bushtit nest located above parking lot for Outfall (first described on 3/15) was thought to have been abandoned after heavy rains but is active and bird likely incubating. New bushtit nest just north of there (first described on 3/31) assumed still active but will be checked during scanning later this week.

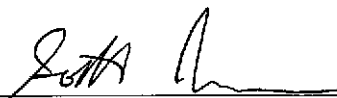
Newly discovered patch of Mariposa-lilies (confirmed by old seed pods) found along northern edge of SS-35, staked/flagged.

List of avian species observed during the survey is indicated below. Species with an asterisk (\*) are summer resident protected species that may be nesting at SSFL.

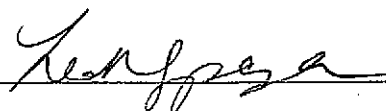
Northern harrier  
Spotted towhee\*  
Bewick's wren\*  
House finch\*  
Western scrub-jay\*  
Bushtit\*  
California towhee\*  
Dark-eyed junco\*

Yellow-rumped warbler  
California quail\*  
Oak titmouse\*  
Lesser goldfinch\*  
Wrentit\*  
Anna's hummingbird\*  
Greater roadrunner\*  
Nuttall's woodpecker\*

House wren\*  
Rock wren\*  
Canyon wren\*  
Lewis's woodpecker  
Red-tailed hawk\*

Biologist Signature: 

Date: 4/5/11

HGL Field Supervisor Signature: 

Date: 4/7/11



**ATTACHMENT 2  
BIOLOGICAL MONITORING FORMS**

Date: 1/18/11 JS

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	8:40 - 12:45	88-46	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chopper; hand tools
		47, 48, 50	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Protected trees	8-50	Western Co. Tree Trimming Guidelines SOP 05-076 Guidelines	Protected trees trimmed consistent w/ guidelines

**NOTES AND RECOMMENDATIONS:**

Compliance with 8-48 sub. Person oak removal in 8-46 area  
 compliance with 8-47, 8-46, and 8-50. But only  
 protected resources encountered were protected. These  
 protected trees were trimmed. Western Co. and  
 SOP 05-076  
 compliance w/ ~~Western Co. Tree Trimming~~  
 Guidelines.

Biologist Signature: [Signature]

Date: 1/11/11

HGL Field Supervisor Signature: [Signature]

Date: 1/11/11

Date: 1/10/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	746-500	SS-7	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	n/a
2	800-1315	SS-46	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	topps chainsaw, weed whacker
2	800-1315	SS-47	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	topps chainsaw, weed whacker
2	800-1315	SS-50	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chainsaw
2	800-1315	SS-43	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	topps front loading tractor

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

3 945-105 SS-17 n/a

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Fairy shrimp (unidentified species)	SS-7	n/a	none. checking on staked boundary of vernal pool. Fairy shrimp present.
2	Pruned trees, red-legged frog habitat	SS-46, SS-47, SS-43	VC, <del>VC5</del> Trimming Guidelines	none. Trees trimmed.
2	Dunley's, Santa Susana Tanager	SS-46, SS-43	VC1, <del>VC9</del> VC10	None.
3	Unidentified Fairy Shrimp species	SS-17	GEN-10	Fairy shrimp present in relatively inaccessible vernal pool in rocks.

**NOTES AND RECOMMENDATIONS:**

- #1: Keep biologist apprised of any scheduled activities in SS-7 near occupied fairy shrimp habitat (=vernal pools).
- #2: Mower not permitted within call red-legged frog boundary at SS-46, SS-43. Hand tools for trimming only.
- #3: New occupied vernal pool atop rocks at SS-17. 12' x 8' pool w/ low zoo fairy shrimp. Not feasible to stake off entire pool but biologist will place a single stake near pool indicating its presence. No ground disturbances within pool (wet or dry) without a biological monitor.

Biologist Signature: [Signature]

Date: 1/10/11

HGL Field Supervisor Signature: [Signature]

Date: 1/10/11

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-945	SS-43	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mower, chains, poles, chainsaw
1	1200-1345	SS-46	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	↓ ↓ ↓ ↓
		SS-47	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
		SS-45	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Dudleya, Santa Susana Torpedos	SS-43 SS-46	VC-1, VC-9, VC-10	None
1	Protected trees (oaks, pines)	SS-43 SS-46 SS-45	Temporary Guidelines	Trimmed
1	Red-legged frog habitat	SS-46 SS-45	VC-5, VC-6	Trimmed
	Calif. Spotted Owl Species Habitat	SS-46 SS-45	SS-43 VC-1	Habitat quality reduced

**NOTES AND RECOMMENDATIONS:**

Mower kept out of Calif Red-legged frog habitat buffer.

Biologist left VC from 945-1200 for bio clearance surveys in Subarea 6

Loggerhead shrike seen in SS-19 en route to Subarea 6. (Spotted-owl species when nesting).

Biologist Signature: [Signature] Date: 1/12/11

HGL Field Supervisor Signature: [Signature] Date: 1/12/11

Date: 1/12/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	8:00-14:15	SS-25	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chainsaw, mulch chopper, logging, weed whacker
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Protected trees	SS-25	Venture Co. Trimming Guidelines	Coast/live oaks trimmed.
1	Special-status species habitat (CA-1, str 2)	SS-25	VC 1	None (habitat quality reduced)

**NOTES AND RECOMMENDATIONS:**

- Current survey identified suitable habitat for state-listed wildlife (San Diego desert woodrat, coast horned lizard, silver legless lizard, coast patch-nosed snake) as well as habitat for Santa Susana tarplant and Dudleya species.

- None of these species observed during monitoring today. 1 VDI has cleared most of the western half of SS-25.

Woodrat sign observed on site. Species unknown.

Biologist Signature: [Signature]

Date: 1/12/11

HGL Field Supervisor Signature: [Signature]

Date: 1/12/11

Date: 1/13/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1100	SS-25	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chainsaw, loppers, weed whackers
2	1000-1100	SS-28	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	lopers (poison oak crew), trim
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	" "
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

backing tractor

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Protected trees	SS-25	Ventura Co. Trimming Guidelines	Coast live oaks trimmed
1	State protected special-status species	SS-25	VC-1	Habitat quality reduced
2	Santa Susana Terrant Dudleya sp.	SS-28	<del>VC-1</del> VC-1, VC-9, VC-10	None

**NOTES AND RECOMMENDATIONS:**

- Clearing survey identified suitable habitat for state sensitive wildlife: San Diego deer, woodrat, coast horned lizard, silver legless lizard, coast patch-nosed snake.

- Woodrat sign detected in rock outcrops - species unknown. None of the above listed species observed on site.

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Biologist Signature: [Signature]

HGL Field Supervisor Signature: [Signature]

Date: 1/13/11

Date: 1/13/11

Date: 1/14/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1200	SS-29	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chainsaws used w/brushes & barms
1	800-900	SS-29	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chainsaw
1	800-1100	SS-29	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	all of the above
2	1000-1100	SS-10	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input checked="" type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Soil tools
2	1330-1500	—	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Injured wildlife taken to rehab ctr.

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Protected trees	SS-25 SS-28 SS-29	Ventura Co. Trimming Guidelines	Trimmed
1	Habitat for state-sensitive species	SS-25 SS-28 SS-29	VC1	Habitat quality reduced
1	Dudleya, Sonoran Sagebrush, Toyon	SS-28	VC1, VC9, VC10	None
2	Injured desert cottontail rabbit	SS-10	—	Delivered to wildlife rehabilitation center.

**NOTES AND RECOMMENDATIONS:**

- Rattlesnake (a 36") removed from SS-29.

- 2 local California quail, likely vehicle collisions, found at NE corner of SS-29.

- SS crew member accidentally stepped on juvenile desert cottontail rabbit (*Sylvilagus auduboni*). Head trauma and impaired motor functions. Rabbit delivered at 2:30pm to California Wildlife Center, 26026 Pinna Rd, Calabasas.

Biologist Signature: *[Signature]*

Date: 1/17/11

HGL Field Supervisor Signature: *[Signature]*

Date: 1/17/11

Date: 1/17/11

Sheet      of     

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	900-1200	SS-27	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	* See below
	1200-445	SS-28	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
		SS-29	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Protected trees	SS-27, SS-28, SS-29	Ventura Co. Trimming Guidelines	Coast live oaks, alder/berrings thinned
1	Habitat for State sensitive wildlife species	SS-27, SS-28, SS-29	VC-1	Cover reduced
1	Santa Susana Riparian	SS-27, SS-28	VC-1, VC-10	None
1	Riparian habitat	SS-27	Appendix N, SMP	None

**NOTES AND RECOMMENDATIONS:**

\* SS-28 poison oak removal: front loader, loggers  
 SS-29 weed whackers, loggers, chainsaw, choker  
 SS-27, afternoon, weed whackers

Riparian habitat on SS-27 was re-evaluated today after clearance survey and some shrubs will be saved to maintain the bank and some wildlife habitat during VC, as described in Appendix N - ~~Appendix N~~ of Riparian Resources.

All mowing on ~~SS-27~~ SS-27 should be conducted under the supervision of the biological monitor to reduce injuries to wildlife, especially potentially occurring State-sensitive species.

(900-1200: Biologist away conducting clearance survey on SS-26, SS-27)

Biologist Signature: [Signature]

Date: 1/17/11

HGL Field Supervisor Signature: [Signature]

Date: 1/17/11



Date: 1/18/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1500	SS-27,	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mower, chainsaw, wood chippers
	↓	SS-26,	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chippers, front loader
	↓	SS-29,	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
	Protected trees	SS-26 SS-27 SS-28	Volturn Co. Trimming Guidelines	Coast live oaks, elderberries trimmed
	Santa Susana Tarplant	SS-27	VC-1, VC-10	None
	Habitat for special-status wildlife	SS-26 SS-27	VC-1	Cover reduced.

**NOTES AND RECOMMENDATIONS:**

SS-27: hill w/ transmission tower mowed. One western toad (*Bufo boreas*) injured during mowing, relocated off site. Other wildlife flushed from area (including kangaroo rat (*Dipodomys eremicus*), unknown mouse, 5 desert cottontails including 1 juvenile, 1 alligator lizard).

Some white sage flagged and saved per request of Native American monitor.

Biologist Signature: [Signature]

HGL Field Supervisor Signature: [Signature]

Date: 1/19/11

Date: 1/19/11

Date: 1/19/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
	800-1400	SS-26	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	mower, chainsaw, weed whacker
	↓	SS-27	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chainsaw ↓ ↓
	↓	SS-28	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
	Santa Susana Tarplant	SS-27	VC-1, VC-10	None
	Dudleya	SS-26	VC-1, VC-9	None
	Habitat for <del>CA</del> CA special-status wildlife	SS-26 SS-27 SS-28	VC-1	Cover reduced.

**NOTES AND RECOMMENDATIONS:**

*\*\* Update to SS-26 Clearance Survey: Dudleya sp. found on rocks in SE corner of plot.*

*Woodrat sign on SS-26, SS-27 - none seen though.*

*No casualties observed with mower clearing, chainsaw chaparral.*

*\*\* Poison oak crew seen pulling out poison oak roots and all. Crews should be reminded that vegetation is to be trimmed and not uprooted per vegetation mgmt protocol (and per project description analyzed for environmental impacts). I informed them of the correct procedure.*

Biologist Signature: [Signature]

Date: 1/19/11

HGL Field Supervisor Signature: [Signature]

Date: 1/19/11

Date: 1/21/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1500	SS 26, 27	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS <input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mower, chainsaws, weed whackers, front loader, loppers
2	1200-1220	SS-9	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input checked="" type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS <input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS <input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Auger, foot traffic, tables, bags, etc

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian	SS-26	Appendix N, Riparian Veg Maint	Trimmed
1	Suitable habitat for CA sensitive wildlife	SS-26 SS-27	VC-1, monitoring	Cover reduced
1	Protected trees	SS-26 SS-27	Vegetation Trimming Guidelines	Trimmed (Coast live oaks, Elderberries)
2	Santa Susana Tarplant	SS-9	VC-1, VC-10	Only plant on SS destroyed. Cells flagged.

**NOTES AND RECOMMENDATIONS:**

SS crew will require greater monitoring attention and coordination after they destroyed the cleared matted tarplant on SS-9.

Protected plants will be staked off from now on, and a spreadsheet will be distributed identifying which sections contain protected resources and require monitoring.

HGL crew loaders need to know which wide areas support protected resources and require monitoring. Such information may not be effectively communicated if HGL prohibits biological monitor from driving before 7:45 am.

Biologist Signature: [Signature] Date: 1/21/11

HGL Field Supervisor Signature: [Signature] Date: 1/21/11

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	8:10-1:50	SS-26, 27	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Manx chaper, chainsaws, weed whackers, loppers
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
	Riparian vegetation	SS-26	Appendix N - Riparian Mgmt	Herbaceous material to be left to G. Shrubs left in place but some trimmed.
	Woodrat nests	SS-26	VC-1	<del>Woodrat nests destroyed</del> Houses intact

**NOTES AND RECOMMENDATIONS:**

SS-27 = only chipping

Bearded woodrat (*Neotoma macrotis*), California vole (*Microtus californicus*) observed in riparian. No San Diego desert woodrat observed on plot (riparian habitat typically not suitable for S.D.D.W.).

Northeast stretch of riparian on SS-26 thinned, but much work to do.

Recommendations: ① VC crew must not begin work in riparian before biological monitor is onsite. (Monitor arrived at 08:10 this morning - tail board went a little long).

② Geophysical crew should use Survey Section numbers when coordinating with biologist: Subareas not specific enough.

Biologist Signature: [Signature]

Date: 1/21/11

HGL Field Supervisor Signature: [Signature]

Date: 1/21/11

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1400	SS-26	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chainsaws, weed whackers, choppers, mowers
	1430-1500		<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
2	1400-1430	SS-46	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mule
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian habitat	SS-26	Appendix G: Protection of Riparian Resources	Shrub thinned, ground cover reduced.
1	Least Bell's Vireo Habitat	SS-26	<del>AMM</del> GEN-9	As above. Habitat quality reduced. Work done outside of Nov. 15 - Sept 30 nesting season
1	Protected trees, suitable habitat for state sensitive wildlife	SS-26	W-1 Ventura Co. Timmy Guidelines	Trees (Coast live oaks) trimmed, Habitat quality reduced
2	Calif. Red-legged frog area, SS. tailplant. Dudley	SS-46	GS-1, GS-2, <del>GS-4</del> , GS-5	None

**NOTES AND RECOMMENDATIONS:**

(or 8A)

(1) Least Bell's Vireo habitat not addressed in clearance survey; pending clearance survey report will ~~AMM~~ contain more detail.

As with LBV habitat in SS-12, no direct activities not permitted in area March 15 - Sept 30 unless special survey is conducted.

Today mostly dead material removed from creek. biologist will supervise ~~AMM~~ VC crew for thinning out the vegetation in ensuing days.

Biologist Signature: Scott Ly Date: 1/25/11

HGL Field Supervisor Signature: Loch Jones Date: 1/25/11

Date: 1/25/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-900 1000-	SS-26	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chainsaw, wood shavings, chip
2	900-1000	SS-46	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mule
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian Habitat	SS-26	App. G. Rip Resource Protection	Shrub thickness, ground cover reduced.
1	Least Bell's Vireo Habitat	SS-26	GEN-9	As above. Habitat quality reduced. Work done 10/15-10/20.
1	Protected trees, suitable hab. for CA scrub spp.	SS-26	Whitin (a. Timmy) Guidelines VC-1	Trees remaining (most two oak, redberry). Habitat quality reduced.
2	Calif. Red-legged Frog Habitat area	SS-46	GS-1/2/4/5	None
2	Banta Susana Teplant Dumbia sp.	SS-46	GS-1/2/4/5	None

**NOTES AND RECOMMENDATIONS:**

The only animal found today in SS-26 after initially clearing dead material. Big-eared woodrat (~~Neotoma macrotis~~) seen in water bottom.

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Biologist Signature: [Signature]

Date: 1/25/11

HGL Field Supervisor Signature: [Signature]

Date: 1/25/11

Date: 1/26/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1100	SS-26	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	cha-saws, loggers, weed whackers, etc. per
2	1200-1415	SS-30, 31	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	" " " " " "
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian Habitat	SS-26	App. 6.	Shrubs thinned, ground cover reduced
1	Least Bell's Vireo Habitat	SS-26	GEN-9	As above. Habitat quality reduced. Work done outside of nesting season.
1, 2	Protected trees	SS-26, SS-31	Ventura Co. trimming Guidelines	Coast live oak, elderberry, willows trimmed
1, 2	Suitable habitat for CA sens. wildlife	SS-26, SS-31	VC-1	Cover reduced. Woodrat nests on SS-26 intact.
2	Santa Susana Tanager	SS-31	VC-1, VC-10	None

**NOTES AND RECOMMENDATIONS:**

No work allowed within the Least Bell's Vireo area in SE corner of SS-26 from March 15 - Sept 30 (= nesting season). Envision is in process of determining USFWS buffer around the riparian and will state it soon.

All work in the riparian areas (Riparian/LBV of SS-26) requires biological monitor.

Biologist Signature: [Signature]

Date: 1/26/11

HGL Field Supervisor Signature: [Signature]

Date: 1/26/11

Date: 1/28/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-845	SS-46/47	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	<del>ERG</del> ERGS mule
2	845-1220	SS-43	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chipper, chainsaws, weed whackers, steel
2	1220-1240	SS-43	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	ERG'S
4	1240-1430	SS-43	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chipper, chainsaws, road blower, steel
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
13	Santa Susana terraces, Protected frog habitat	SS-46, 47, 43	GS-1, 2, 4, 5	None
2, 4	SS terraces, Durlaga, Protected trees	SS-43	VC-1, 2, 9, 10; Trimmings Guidelines	None (trees trimmed)
2, 4	A pond frog habitat, Protected frog habitat	SS-43	VC-1, 2, 5; App. N	None. Skidsteer not allowed in riparian, brush removed by hand.

**NOTES AND RECOMMENDATIONS:**

- Western toad (Pleurodora) eggs seen in outfall pond in SS-46. No indication of Calif. Red-legged frogs.
- 5 baby California toads relocated after nests in logs/brush was disturbed by veg. crew. They were plus calling, etc, so we hope parents are around to tend to them when crews leave.
- Anna's hummingbird collecting nesting material @ in SS-43 adjacent to SS-45. Taking it to NW (=SS-46/NBZ). Nest not located.  
= First nest of year. Monitoring may be required in this area on Monday/next week.

Biologist Signature: [Signature]  
 HGL Field Supervisor Signature: [Signature]

Date: 1/28/11  
 Date: 1/28/11



Date: 27 Jan 2011

Sheet 1 of 1

Veg. Monitoring

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: Subarea 8, 5343

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
	Veg. Clearance & monitoring	Carl Wiskner	

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana farplant	Y	Avoid
2	Urtica sp	Y	avoid
3	Mariposa lilies	Y	avoid

**NOTES AND RECOMMENDATIONS:**

Terrain is very difficult with lots of Poison-oak and rock crevices where rattlesnakes can be hidden - extreme care and alertness for hazards

Biological resource avoidance issues mostly confined to rocks.

Mariposa lilies have only leaves, and appear to be either *Calochortus nuttallianus* or *C. clavatus* judging by shape of last year's capsules.

Clearance crews should be instructed to recognize these plants so they can ~~avoid~~ avoid them as much as possible.

Biologist Signature: Carl Wiskner

Date: 27-Jan-2011

HGL Field Supervisor Signature: Julian Robbins-Medwan

Date: 1/27/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 1/31/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8	SS-43 SS-44	0800-1400	VC	Weed whackers, loppers, chainsaw, skid steer with chipper

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

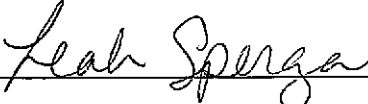
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-43	California red-legged frog habitat area	VC-1, VC-2, VC-5	Cover reduced
SS-43 SS-44	Santa Susana tarplant	VC-1, VC-2, VC-10	None.
SS-43	Dudleya	VC-1, VC-2, VC-9	None
SS-43	Coastal California gnatcatcher habitat	GEN-8: Work performed outside of height of gnatcatcher nesting season (March 15 –May 15)	Habitat quality reduced.
SS-43	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-43	Habitat for California Special Concern wildlife species	VC-1, VC-2, monitor present	Habitat quality reduced

### NOTES AND RECOMMENDATIONS:

Young California voles (*Microtus californicus*) moved out of harm's way on Friday were not recovered by parents and perished over the weekend. Biologist will attempt to prevent future mortality events of this type by delivering helpless young to a wildlife rescue/rehabilitation center.

Biologist Signature: 

Date: 2/8/11

HGL Field Supervisor Signature: 

Date: 2/9/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/1/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8	SS-43	0800-1000	VC	Weed whackers, loppers, chainsaw, chipper
6	SS-31 SS-32 SS-33	1000-1500	VC	Weed whackers, loppers, chainsaw, chipper, mower
5B	SS-12	1400-1440	SS	None yet (recon with SS field supervisor)

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-43	California red-legged frog habitat area	VC-1, VC-2, VC-5	Cover reduced
SS-43, SS-31, SS-32, SS-33	Santa Susana tarplant, Dudleya	VC-1, VC-2, V-9, VC-10	None.
SS-43, SS-31, SS-32, SS-33	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-43, SS-31, SS-32, SS-33	Habitat for California Special Concern wildlife species	VC-1, VC-2, monitor present	Habitat quality reduced
SS-12	Least Bell's Vireo habitat, Riparian	GEN9, Appendix N	None

### NOTES AND RECOMMENDATIONS:

Golden eagle nest site briefly monitored from SS-32 – appears inactive although this is not a conclusive finding. Single golden eagle hunting over NBZ-E just a few hundred yards from nest.

Biologist Signature: \_\_\_\_\_

Date: \_\_\_\_\_

HGL Field Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/2/2011      Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-32 SS-33	800-1440	VC	Weed whackers, loppers, chainsaw, chipper, mower

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

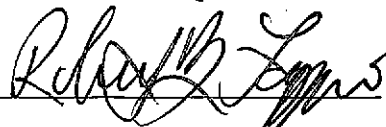
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-32, SS-33	Santa Susana tarplant, Dudleya	VC-1, VC-2, V-9, VC-10	None.
SS-32, SS-33	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-32, SS-33	Habitat for California Special Concern wildlife species (coast horned lizard, San Diego Desert woodrat, etc)	VC-1, VC-2, monitor present	Cover reduced

### NOTES AND RECOMMENDATIONS:

Biological monitor flagged fairy shrimp habitat in SE corner of SS-34 with stakes and red/white flagging. Soil and vegetation disturbing activities in this area prohibited (includes most foot traffic and all vehicle traffic). All proposed activities in this area require coordination with the biological monitor.

Biologist Signature: 

Date: 2/4/11

HGL Field Supervisor Signature: 

Date: 2/4/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/3/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-32 SS-33 SS-34	800-1245	VC	Weed whackers, loppers, chainsaw, chipper, mower

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-32, SS-33, SS-34	Santa Susana tarplant, Dudleya	VC-1, VC-2, V-9, VC-10	None.
SS-32, SS-33, SS-34	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-32, SS-33, SS-34	Habitat for California Special Concern wildlife species (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced
SS-34	Suitable habitat for listed fairy shrimp	GEN-10	None, avoided.

### NOTES AND RECOMMENDATIONS:

Soil and vegetation disturbing activities in flagged fairy shrimp habitat in SE corner of SS-34 prohibited (includes most foot traffic and all vehicle traffic). All proposed activities in this area require coordination with the biological monitor

Very large southern alligator lizard (*Elgaria multicarinata*) and western harvest mouse (*Reithrodontomys megalotis*), both uninjured, recovered from mowed area in SS-34 and relocated to adjacent rock outcrop.

Golden eagle nest in NBZ-E briefly monitored from SS-32. Nest is being visited by 2 golden eagles and is assumed to be active. Undetermined as to whether the pair has laid any eggs yet. Spotting scope recommended for monitoring from this distance.

Biologist Signature: \_\_\_\_\_

Date: \_\_\_\_\_

HGL Field Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 2/4/2011 Friday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-32 SS-33 SS-34	800-1400	VC	Weed whackers, loppers, chainsaw, chipper

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

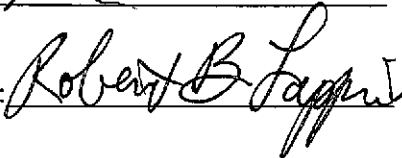
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-32, SS-33, SS-34	Santa Susana tarplant, Dudleya	VC-1, VC-2, V-9, VC-10	None.
SS-32, SS-33, SS-34	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-32, SS-33, SS-34	Habitat for California Special Concern wildlife species (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced
SS-34	Suitable habitat for listed fairy shrimp	GEN-10	None, avoided.

**NOTES AND RECOMMENDATIONS:**

Soil and vegetation disturbing activities in flagged fairy shrimp habitat in SE corner of SS-34 prohibited (includes most foot traffic and all vehicle traffic). All proposed activities in this area require coordination with the biological monitor

Biologist Signature: 

Date: 2/4/11

HGL Field Supervisor Signature: 

Date: 2/4/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/7/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-34	0720-1500	VC	Weed whackers, loppers, chainsaw, chipper

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-34	Santa Susana tarplant, Dudleya	VC-1, VC-2, V-9, VC-10	None.
SS-34	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-34	Habitat for California Special Concern wildlife species (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced.
SS-34	California red-legged frog habitat	VC-5	Cover reduced.
NBZ-E (viewed from SS-34)	Golden Eagle nest	None yet (see below).	None.

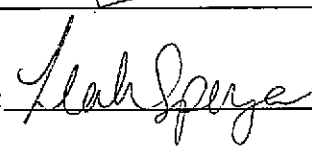
### NOTES AND RECOMMENDATIONS:

Golden eagle (Calif. Fish and Game Fully Protected Species) nest in NBZ-E monitored 0720-0800 with no activity and 1250-1320 with eagle pair nearby but not at nest. If they are using nest, they appear to have not laid any eggs yet, in which case the female would be sitting tight, incubating. Nest will be monitored as VC crew cuts SS-35, which could create a noise disturbance affecting the eagles.

Lewis's woodpecker (US Fish and Wildlife Bird Species of Conservation Concern) seen in SS-34 near Sodium Reactor Experiment Site.

Biologist Signature: 

Date: 2/7/11

HGL Field Supervisor Signature: 

Date: 2/9/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/8/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-34, SS-35, SS-38	0800-1230 1410-1445	VC	Weed whackers, loppers, chainsaw, chipper
6	SS-26	1230-1410	GS	Mule

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-34, SS-35, SS-38	Santa Susana tarplant, Dudleya	VC-1, VC-2, V-9, VC-10	None.
SS-34, SS-35, SS-38	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-34, SS-35, SS-38	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-34, SS-35, SS-38	California red-legged frog habitat	VC-5	Cover reduced.
NBZ-E (viewed from SS-34)	Golden Eagle nest	None yet (see below).	None.
SS-26	Least Bell's vireo habitat, Riparian habitat	GEN-9, Appendix N - Riparian Mgmt	None

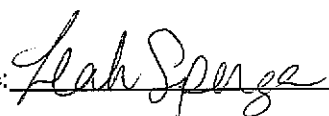
### NOTES AND RECOMMENDATIONS:

Golden eagle (Calif. Fish and Game Fully Protected Species) nest in NBZ-E monitored during mowing in SS-35 with no activity at nest, but golden eagle pair seen flying nearby.

Lewis's woodpecker (US Fish and Wildlife Bird Species of Conservation Concern) seen in SS-34 near Sodium Reactor Experiment Site. Big-eared woodrat seen near woodrat nests in SS-38. Pacific chorus frogs calling from wetland in SS-38.

Biologist Signature: 

Date: 2/8/11

HGL Field Supervisor Signature: 

Date: 2/9/11



# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/9/2011      Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-34, SS-35, SS-38	0800-0915 1015-1445	VC	Weed whackers, loppers, chainsaw, chipper
6	SS-26	0915-1015	GS	Mule

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-34, SS-35, SS-38	Santa Susana tarplant, Dudleya	VC-1, VC-2, V-9, VC-10	None.
SS-34, SS-35, SS-38	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-34, SS-35, SS-38	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-34, SS-35, SS-38	California red-legged frog habitat	VC-5	Cover reduced. No impacts to marsh.
NBZ-E (viewed from SS-34)	Golden Eagle nest	500-buffer around nest to be established.	None.
SS-26	Least Bell's vireo habitat, Riparian habitat	GEN-9, Appendix N - Riparian Mgmt	None


### NOTES AND RECOMMENDATIONS:

Golden eagle (Calif. Fish and Game Fully Protected Species, Watchlist Species) nest in NBZ-E monitored from SS-35 is active. Eagle sitting tight on nest all day. Minimum of 500-ft buffer around nest in which all project activities with the possible exception of foot traffic restricted until young fledge on or around June 1, 2011. Buffer may be modified to less than or more than 500 feet based on topography, the disturbance level of the proposed activity, and the skittishness of the eagle pair (i.e., the propensity for the birds to flush from the nest due to nearby human activity). All activities at the top of the cliff at SS-35 must be conducted with a biological monitor present due to the direct line-of-sight and sound to the eagle nest (distance = 800ft).

Southern California rufous-crowned sparrow (Calif. Fish and Game Watchlist Species) seen in SS-38 on northwest side of Sodium Reactor Experiment Site.

Biologist Signature: 

Date: 2/9/11

HGL Field Supervisor Signature: 

Date: 2-14-11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 2/10/2011 Thursday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-35, SS-38	0800-1500	VC	Weed whackers, loppers, chainsaw

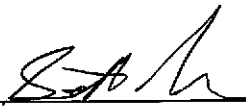
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

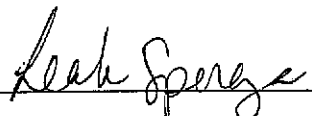
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-35, SS-38	Santa Susana tarplant	VC-1, VC-2, VC-10	None.
SS-35, SS-38	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-35, SS-38	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-35, SS-38	California red-legged frog habitat	VC-5	Cover reduced. No impacts to marsh.
NBZ-E (viewed from SS-35)	Golden Eagle nest	500-buffer around nest to be established, plus monitoring required for activities in SS-35 overlooking nest site.	None.

**NOTES AND RECOMMENDATIONS:**

Golden eagle nest in NBZ-E monitored from SS-35, where shrubs along cliff were cut with handtools. Eagle(s) sitting tight on nest all day (occasionally swapping incubation duties, presumably) and were not overly agitated by work in SS-35 (distance = 800 ft, direct line-of-sight). Eagle on nest appears to look at our activity occasionally but does not leave nest.

Biologist Signature: 

Date: 2/10/11

HGL Field Supervisor Signature: 

Date: 2-14-11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 2/11/2011 Friday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-35, SS-38	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper
6	SS-34	1030-1100	GS	ERGS

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

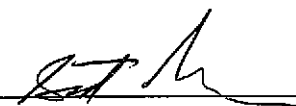
**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-34, SS-35, SS-38	Santa Susana tarplant	VC-1, VC-2, VC-10	None.
SS-34, SS-35, SS-38	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-34, SS-35, SS-38	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-34, SS-35, SS-38	California red-legged frog habitat	VC-5	Cover reduced. No impacts to marsh.
NBZ-E (viewed from SS-35)	Golden Eagle nest	500-buffer around nest to be established, plus monitoring required for activities in SS-35 overlooking nest site.	None.

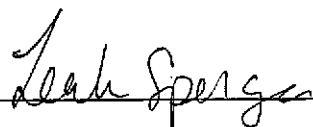
**NOTES AND RECOMMENDATIONS:**

Golden eagle nest in NBZ-E monitored from SS-35, where VC crews chipped brush piles accumulated yesterday. Chipper positioned away from cliff to minimize noise and visual disturbance to eagles. Eagles are tolerant of chipper and foot traffic. Eagle(s) sitting tight on nest all day (occasionally swapping incubation duties, presumably) and were not overly agitated by work in SS-35 (distance = 800 ft, direct line-of-sight). Eagle on nest appears to look at our activity occasionally but does not leave nest.

ERGS scanning monitored within red-legged frog upland habitat zone in SS-34.

Biologist Signature: 

Date: 2/14/11

HGL Field Supervisor Signature: 

Date: 2-14-11

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 2/14/2011 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-35	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper
6	SS-34/35/38	1300-1345	GS	Mule

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling.


**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-34/35/38	Santa Susana tarplant, Dudeya	VC-1, VC-2, VC-10	None.
SS-34/35/38	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-34/35/38	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard), Mariposa lilies	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-34/35/38	California red-legged frog habitat	VC-5	Cover reduced. No impacts to marsh.
NBZ-E (viewed from SS-35)	Golden Eagle nest	500-buffer around nest to be established, plus monitoring required for activities in SS-35 overlooking nest site.	None.

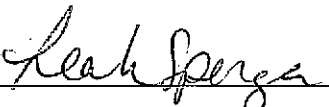
**NOTES AND RECOMMENDATIONS:**

Golden eagle nest in NBZ-E monitored from SS-35. Eagles are tolerant of noise and work that is not in the direct line-of-sight to nest. Chain-link fence in western SS-35 opened and VC piling brush just south of fence opening. Pacific chorus frog moved out of harm's way in SS-35.

Bushtits building nest in oak tree in western SS-35 but are not adding much to it today. Appears to have been started over the weekend. Will be at least several days before completed, if birds continue building amid noise and vegetation disturbance. Incomplete nest will be removed by biologist prior to completion if building continued (currently inaccessible with available tools).

Biologist Signature: 

Date: 2/14/11

HGL Field Supervisor Signature: 

Date: 2-16-11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/15/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-35	0800-1400	VC	Weed whackers, loppers, chainsaw, chipper, skid steer

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-35	Santa Susana tarplant, Dudeya	VC-1, VC-2, VC-10	None.
SS-35	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-35	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard), Mariposa lilies	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-35	California red-legged frog habitat	VC-5	Cover reduced. No impacts to marsh.
NBZ-E (viewed from SS-35)	Golden Eagle nest	500-buffer around nest to be established, plus monitoring required for activities in SS-35 overlooking nest site.	None.

### NOTES AND RECOMMENDATIONS:

Golden eagle nest in NBZ-E monitored from SS-35. Eagles are tolerant of noise and work that is not in the direct line-of-sight to nest. Skid steer has been retrieving brush from canyon bottom in SS-35 and transporting it to road beyond chain-link fence to chipper.

Bushtit nest (found yesterday) high up in oak tree in western SS-35 appears in same condition as yesterday (recently started, walls not solid yet, little if any nesting material added). One visit by Bushtit pair recorded today, but it is not known whether birds added material to nest. Incomplete nest may be removed by biologist prior to completion if building continues and work is still being conducted in this area. However, this species is relatively tolerant to nearby activity, and the nest (which is 25 feet up in the tree) could be left alone if vegetation cutting moves on to a different area before eggs are laid, with monitoring required for gamma scanning and other subsequent activities near it. This approach of leaving the nest in its current, relatively remote location, may be more prudent than removing the incomplete nest and risking that the birds re-nest in a location that is more susceptible to disturbance from project activities and therefore would require a larger area off limits to project activities.

Biologist Signature: Scott Werner

Date: 2/16/11

HGL Field Supervisor Signature: Leah Sperry

Date: 2-16-11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 2/16/2011 Wednesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-35 SS-38	0800-1350	VC	Weed whackers, loppers, chainsaw, chipper, skid steer

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

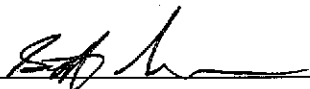
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-35 SS-38	Santa Susana tarplant, Dudeya	VC-1, VC-2, VC-10	None.
SS-35 SS-38	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-35 SS-38	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard), Mariposa lilies	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-35 SS-38	California red-legged frog habitat, Riparian area.	VC-5, Appendix N: Riparian Protection	Cover reduced. No impacts to marsh. Some shrubs along bank of riparian in SS-35 preserved.
NBZ-E (viewed from SS-35)	Golden Eagle nest	<sup>ft</sup> 500-buffer around nest to be established, plus monitoring required for activities in SS-35 overlooking nest site.	None.

**NOTES AND RECOMMENDATIONS:**


Golden eagle nest in NBZ-E monitored from SS-35. Eagles are tolerant of noise and work that is not in the direct line-of-sight to nest. Skid steer has been retrieving brush cut with hand tools from canyon bottom in SS-35 and transporting it to road beyond chain-link fence to chipper. This canyon bottom is within California red-legged frog habitat buffer and all skid steer work was monitored, with no frogs observed.

No activity at Bushtit nest in SS-35. Pair may have stopped building due to disturbance.

ID'd western toad holed up in sandstone crevice for SS crew at SS-12. No need to relocate toad.

Biologist Signature: 

Date: 2/22/11

HGL Field Supervisor Signature: 

Date: 02/22/11

Date: 2/17/11

UNIDENTIFIED FAIRY SHRIMP  
OBSERVED IN ROCK POOL  
IN NBZ 2/17/11. See  
notes.

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1500	6-38	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Vehicle mower, chipper, loppers,
2	800-1500	6-37	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Vehicle mower only
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

chain saws  
weed whippers

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	red-legged frog potential habitat	6-38	VC-5	None
1	Protected trees	6-38	HGL SMP Appendix E Protected VTA City tree trimming guidelines	understory branches of protected trees trimmed per VTA City tree trimming guidelines
1/2	Santa Susana farplant	6-37 6-38	VC-10	None
1/2	Suitable habitat for DFG species of special concern	6-37 6-38	VC-1	None No spp. found or impacted directly

**NOTES AND RECOMMENDATIONS:**

NW boundary of red-legged frog potential habitat not staked/flagged. This part of habitat on steep, rocky terrain no vehicle use possible in this area.

Golden eagles in NBZ: one observed in nest and both observed flying in vicinity of nest today.

Note: Lewis' woodpecker observed in vicinity - 1

Unidentified fairy shrimp observed in rock pool in NBZ (B2-NW-1) to the northwest of SS-39. Approximate location: 34° 14' 09.66" N 118° 42' 37.17" W. Potential special-status species. Rock pool contains sediment and <sup>very</sup> small amount of aquatic vegetation.

Biologist Signature: [Signature]  
HGL Field Supervisor Signature: [Signature]

Date: 3/1/2011  
Date: 3/1/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 2/18/2011 Friday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-38, SS-37	0800-1045 1315-1440	VC	Weed whackers, loppers, chainsaw, chipper, skid steer. SS-37 is already cut, but front loader is spreading excess mulch there.

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-38	Santa Susana tarplant, Dudeya	VC-1, VC-2, VC-9, VC-10	None.
SS-38	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-38	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard), Mariposa lilies	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-38	California red-legged frog habitat	VC-5	Cover reduced.

**NOTES AND RECOMMENDATIONS:**

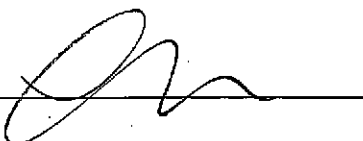
Checked once on incomplete Bushtit nest in SS-35 (#2011-002), and it appears to be in the same condition as on Wednesday, with no activity. Since nest does not contain eggs yet and it not protected, it is not listed in "Protected Resources" above.

New Bushtit nest approximately 700 feet west of Nest #2011-002 (appears to be a different pair), at UTM 342685E, 3789532N, 13 feet up in coast live oak in SS-38, on southeast side of SS-37. Nest just started today. Nest#: 2011-003.

Showed golden eagle nest to Native American monitor, viewed from SS-35. Eagles still incubating.

Biologist Signature: 

Date: 2/22/11

HGL Field Supervisor Signature: 

Date: 02/22/11



**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 2/21/2011 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-38, SS-39	0800-1045 1315-1440	VC	Weed whackers, loppers, chainsaw, chipper, skid steer, mower.

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-38	Santa Susana tarplant, Dudeya	VC-1, VC-2, VC-9, VC-10	None.
SS-38, SS-39	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-38, SS-39	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard),	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-38, SS-39	Mariposa lilies	VC-1, VC-2, monitor present	None

**NOTES AND RECOMMENDATIONS:**

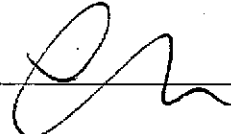
Mower working NE corner of SS-38, avoided mariposa-lily patch. California vole seen fleeing area, uninjured.

Bushtit nest #2011-003 (SS-38), looks same as on Friday, no new material added over weekend.

Golden Eagles still incubating eggs on nest in NBZ-E. Nest is beyond ridge from today's work (900 ft away), not affected by noise, people, although one of the eagles is using a plucking site atop a rock about midway between nest and SS-39.

Biologist Signature:  \_\_\_\_\_

Date: 2/22/11

HGL Field Supervisor Signature:  \_\_\_\_\_

Date: 2/22/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 2/22/2011 Tuesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6,7	SS-39	0800-1420	VC	Weed whackers, loppers, chainsaw, chipper, skid steer.

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-39	Santa Susana tarplant	VC-1, VC-2, VC-10	None.
SS-39	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-39	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard),	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-39	Mariposa lilies	VC-1, VC-2, monitor present	None
NBZ-E	Golden eagle nest	Buffer zone implemented	None

**NOTES AND RECOMMENDATIONS:**

VC work in northern 'triangle' of SS-39, Subareas 6 and 7. Additional mariposa-lilies flagged. Clearance survey conducted with the Subarea 7 portion of the triangle (see separate report).

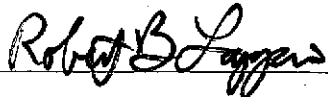
Far northern end of SS-39 overlooks golden eagle nest rock and regular plucking/perch site used by male eagle. This area is off limits to power tools that could create a noise disturbance to both eagles.

**Nests:**

- Golden Eagles still incubating eggs on nest in NBZ-E.
- Bushtit nest in SS-35 has additional material on it, bushtits seen nearby.
- Bushtit nest in SS-38: birds may have stopped building this one and have started second nest across road in coast live oak (SS-36).
- I have determined that it would currently be of no value to remove these Bushtit nests under construction because the birds would simply rebuild nearby, and no work is imminently planned in the area.

Biologist Signature: 

Date: 2/24/11

HGL Field Supervisor Signature: 

Date: 2-24-11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/23/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6,7	SS-39	0800-1415	VC	Weed whackers, loppers, chainsaw, chipper, skid steer.

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-39	Santa Susana tarplant	VC-1, VC-2, VC-10	None.
SS-39	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-39	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard),	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-39	Mariposa lilies	VC-1, VC-2, monitor present	None
NBZ-E	Golden eagle nest	Buffer zone implemented	None

### NOTES AND RECOMMENDATIONS:

VC work in northern 'triangle' of SS-39, Subareas 6 and 7. Additional mariposa-lilies flagged.

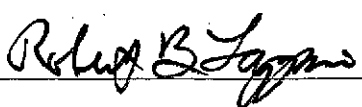
Nests:

- Golden Eagles still incubating eggs on nest in NBZ-E.
- New Bushtit nest being built in NBZ-W, 180 feet west of SS-39/Subarea 7 boundary within 'triangle.' (Viewed from Subarea 7; coordinates not available yet but location will be indicated on maps.)

Loggerhead shrike (California Special Concern Species) hunting from telephone lines near northernmost parking area in SS-39. Lewis's woodpecker (USFWS Bird Species of Conservation Concern) seen in SS-36/38.

Biologist Signature: 

Date: 2/24/11

HGL Field Supervisor Signature: 

Date: 2/24/11

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	745-1100	3-32	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chipper, whippers, loggers, chain saws, vehicle mower
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Potential special status manzanita	3-32	VC-1 (Avoid)	None
1	Coast live oaks	3-32	HGL-smp Veg management protocols	Vtaco tree trimming guidelines. Understory branches trimmed only
1	Santa Susana fanplant	3-32	VC-10	None

**NOTES AND RECOMMENDATIONS:**

- Vehicle mower should be raised up to cut vegetation at minimum >6" height, and its use ~~limited~~ stopped in areas where causing substantial soil disturbance, i.e. on steep slopes.
- New growth potential special-status manzanita (Calochortus sp) found at one location (2/10 individuals). Area marked by single 1/4" flagging.
- Discussed with LOI crew leader Miguel; he should work with other crew members so each can identify and avoid impacts to ~~protect~~ ~~new growth~~ potentially special-status manzanita likes, ~~as~~ as will be difficult for biologists to identify and flag all new growth, particularly in certain areas where there will likely be ~~thos~~ <sup>hundreds</sup> of individuals.

Biologist Signature: [Signature]  
 HGL Field Supervisor Signature: [Signature]

Date: 3/1/11  
 Date: 3/3/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 2/28/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
3	SS-32	0800-0930	VC	Weed whackers, loppers, chainsaw, chipper, skid steer w/ mower
7	SS-39	0930-1100	VC	Weed whackers, loppers, chainsaw, chipper, skid steer, mower.

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

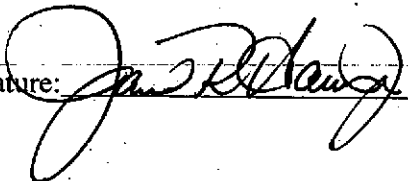
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-32 SS-39	Santa Susana tarplant	VC-1, VC-2, VC-10	None
SS-32 SS-39	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-32, SS-39	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-32	Mariposa lilies	VC-1, VC-2, monitor present	None

### NOTES AND RECOMMENDATIONS:

SS-39 VC work in SW corner. Western toad relocated 100 ft away in NBZ out of harm's way.

Biologist Signature: 

Date: 2/28/11

HGL Field Supervisor Signature: 

Date: 3/7/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/1/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
7	SS-39	0800-1415	VC	Weed whackers, loppers, chainsaw, chipper, skid steer, mower.
7	SS-42	1230-1415	VC	loppers, front loader

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-42	Santa Susana tarplant	VC-1, VC-2, VC-10	None
SS-39 SS-42	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-39, SS-42	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-39, SS-42	Nesting bird habitat	VC-1	Cover reduced

### NOTES AND RECOMMENDATIONS:

No observations of bird-nesting activity today.

Biologist Signature: \_\_\_\_\_

Date: 3/7/11

HGL Field Supervisor Signature: \_\_\_\_\_

Date: 3/7/11



Date: 3/3/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-205	7-42	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chipper, whippers,
2	215-330	5A	<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input checked="" type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chain saws, loggers,
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	<del>Sub</del> vehicle mower
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Subsurface soil sampling
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	rig/auger

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Protected trees	7-42	Haz Samp Veg Manag. protocols / Vta Co tree trimming guidelines	understory branches trimmed only per Vta Co tree trimming guidelines
1	Woodrat nest structures	7-42	Avoided	None
1	Suitable habitat for DFL species of special concern	7-42	VC-1 monitor present	None No spp. encountered or directly harmed.
1	Potential special status nonprop	7-42	Avoid/monitor VC-1 present	None
1	Duddey's Thrasher	7-42	VC-9	None
1	Potential migratory habitat	7-42	GSV-8	None

**NOTES AND RECOMMENDATIONS:**

Dead woodrat ~~observed~~ found by veg clearance crew. Cause of death unknown, but not result of project activities. Appears to be big-eared woodrat - non-sensitive species which is not a special-status species.

Golden eagle nest monitoring: One golden eagle observed flying within 1/3 mile of nest.

No sensitive resources around subsurface soil sampling today. Santa Susana raptor in vicinity should be reflagged as cur flagging has faded.

Biologist Signature:

HGL Field Supervisor Signature:

Date: 3/3/11

Date: 3/3/11



# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/4/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8	SS-43	0800-0900 1015-1045	GS, VC	GPR cart, rakes, weed whackers
7	SS-42	0900-1400	VC	Weed whackers, loppers, chainsaw, chipper, skid steer, mower, front loader
7	SS-14	1115-1145	SS	Power auger, foot traffic.

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-43	California legless lizard habitat (deep oak leaf litter), no legless lizards found	VC-1, GP-1	Habitat temporarily disturbed.
SS-14 SS-42	Santa Susana tarplant	VC-1, VC-2, VC-10	None
SS-42	Protected Trees (coast live oak, elderberry)	Ventura County Trimming Guidelines	Trees trimmed.
SS-42	Habitat for California Special Concern wildlife (coast horned lizard, San Diego desert woodrat, legless lizard)	VC-1, VC-2, monitor present	Cover reduced. Woodrat nests left intact.
SS-42	Nesting bird habitat	VC-1	Cover reduced

### NOTES AND RECOMMENDATIONS:

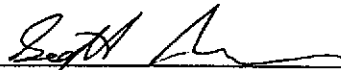
SS-42: New bushtit nest nearly completely built. Able to look inside with mirror and no eggs. Nest located in Coast live oak, 8 ft up, UTM 342145E, 3789294N.

New common raven nest under construction in NBZ-E adjacent to SS-42. In sandstone cliff at UTM 342133E, 3789512N.

Peregrine falcon (second-year bird still in juvenal plumage) perched in SCE lattice tower above substation in SS-10. Cooper's hawk seen in SS-42.

NBZ-E Golden eagle on nest @1405 hrs.

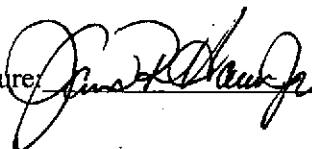
Biologist Signature: \_\_\_\_\_



Date: \_\_\_\_\_

3/7/11

HGL Field Supervisor Signature: \_\_\_\_\_



Date: \_\_\_\_\_

3/7/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/9/2011      Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5B	SS-12	0945-1230	SS	Power auger, foot traffic

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-12	Least Bell's Vireo habitat area	GEN-9; no activities March 15-Sept 30 without protocol survey	None
SS-12	Riparian habitat	App N.	None

### NOTES AND RECOMMENDATIONS:

Clearance survey done concurrently in area, no nesting birds found. See separate clearance survey report.

Biologist Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*3/9/11*

HGL Field Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

*3/14/11*

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/11/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-35	0800-0830	GS	ERGS
6	SS-36, SS-104	1040-1150	GS	ERGS

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-35	California red-legged frog habitat	GS-4	None
SS-36, SS-104	Santa Susana tarplant	GS-5	None

### NOTES AND RECOMMENDATIONS:

Bushtits likely nesting in SS-36 but nest not found today. This pair have stopped building the nest previously identified in SS-38 SE of SRE area.

Biologist conducted clearance surveys 0830-1040, reported separately.

Biologist Signature: \_\_\_\_\_

Date: \_\_\_\_\_

HGL Field Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/14/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-36, SS-104	1030-1130	GS	Hand cart

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-36, SS-104	Santa Susana tarplant	GS-5	None

### NOTES AND RECOMMENDATIONS:

Lewis's woodpecker still foraging in and around SS-104.

A portion of Least Bell's Vireo habitat in SS-26 flagged off after monitoring with stakes and red/white flagging.

Biologist Signature: \_\_\_\_\_

Date: \_\_\_\_\_

HGL Field Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 3/15/2011 Tuesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-16 SS-17	0930-1230 1500-1530	SS	Power auger, foot traffic, equipment boxes, tables
6	SS-38 SS-39	1300-1445	GS	ERGS

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-16 SS-17	Santa Susana tarplant	SS-1, SS-2	None
SS-17	Occupied fairy shrimp habitat	GEN-10	None
SS-38, SS-39	Potential Mariposa lilies, Santa Susana tarplant	GS-1, GS-5	None
SS-38, SS-39	Potential red-tailed hawk nest (not found).	GS-1	None

**NOTES AND RECOMMENDATIONS:**

Two rattlesnakes removed from SS-16 and SS-17.

Pond in top of rocks previously described in January still has fairy shrimp and about 1 foot of water in it.

Western toad inhabiting slanted flooded culvert/pipe near SS crew. Does not appear to be trapped given shallow slope of pipe.

New bushtit nest found under construction in SS-38 at UTM 342772E, 3789602N near outfall in coast live oak. Coastal western whiptail lizard rescued after being partially buried and stuck in hard soils at SS-38. Was possibly trapped in burrow from human foot traffic in wet weather several weeks earlier(?). Vital signs low.


Golden eagle sitting on nest in NBZ-E.

New bushtit nest found in coast live oak near gate in NW SS-32 at UTM 3433068E, 3789746N.

Red-tailed hawk pair inhabiting Sodium Reactor Experiment site (SS-38) observed copulating several times, no nest found.

Biologist Signature: 

Date: 3/15/11

HGL Field Supervisor Signature: 

Date: 3/21/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 3/16/2011 Wednesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-16 SS-17	1200-1430	SS	Power auger, foot traffic, equipment boxes, tables


\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

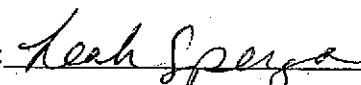
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-16 SS-17	Santa Susana tarplant	SS-1, SS-2	None
SS-17	Occupied fairy shrimp habitat	GEN-10	None
SS-17	Western scrub-jay nest	SS-1, SS-2	None

**NOTES AND RECOMMENDATIONS:**

Western scrub-jay nest 6 ft up in small coast live oak appears to be an old nest that the pair is reusing. No eggs or young yet; jay is bringing in lining material for inside of nest. Because there are scheduled soil-sampling points within 15 feet of the nest, Cliff has agreed to sample these nearby points as soon as possible before eggs are laid, rather than come back to the nest site later when eggs/young may be present. Birds are currently somewhat tolerant of the human activity. Assuming eggs are eventually laid, an appropriate buffer of restricted activities around the nest will be established to reduce the chances of a take incident. UTM of the nest: 342655E, 3789411N.

Biologist Signature: 

Date: 3/16/11

HGL Field Supervisor Signature: 

Date: 3/21/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/17/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5A	SS-16 SS-17	0800-0930 1330-1400	SS	Power auger, foot traffic, equipment boxes, tables
6	SS-38	0930-1000	GS	Handcart
3/6	SS-32	1050-1200	GS	ERGS
6	SS-35	1050-1200	GP	Foot traffic

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-16, SS-17, SS-38	Santa Susana tarplant	SS-1, SS-2	None
SS-17	Occupied fairy shrimp habitat	GEN-10	None
SS-17	Western scrub-jay nest	SS-1, SS-2	None
SS-38	Potential red-tailed hawk nest (scoping site in cliff).	GS-1	None
SS-35	Bushtit nest	GP-1	None
SS-32	Mariposa lilies, Santa Susana tarplant, Bushtit nest	GS-1, GS-5	None

### NOTES AND RECOMMENDATIONS:

Western scrub-jay nest at SS-17 still empty (no eggs yet) and jays still active around it.

Western toad still located in flooded angled culvert/pipe at SS-17 near SS crew. Branches inserted as escape ramp in case toad is trapped inside.


New bushtit nest found in SS-34 along E Street, 8 feet up in coast live oak, being built but nearly completed. UTM 342867E, 3789497N. Vehicles could impact low-hanging branches supporting nest, so stakes established along roadside to prevent this.

Golden eagle sitting on nest in NBZ-E. I may have flushed male from preferred perch site simply by approaching viewing area in SS-35 that is 800 ft from nest.


Pair of red-tailed hawks that have been copulating in SS-38 appear to have established a nest site in the side of the cliff overlooking SRE site. UTM 342688E, 3789665N. Birds are visiting site but I've not yet observed nesting material being brought to site.

3/17/2010  
~~10/27/2010~~

Scott Werner

Biologist Signature: 

Date: 3/18/11

HGL Field Supervisor Signature: 

Date: 3/21/11



# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/18/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6/7	SS-37 SS-38 SS-39	800-1115	GS	ERGS, handcart
6	SS-35	1430-1500	GS	ERGS
5A	SS-16 SS-17	1115-1345	SS	Power auger, foot traffic, equipment boxes, tables

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-37, SS-38, SS-39	Santa Susana tarplant	GS-5	None
SS-38	Potential red-tailed hawk nest (scoping site in cliff).	GS-1	None
SS-38, SS-39	Mariposa lilies	GS-1	None
SS-17	Western scrub-jay nest	SS-1, SS-2	None
SS-35	Golden Eagle nest buffer zone	GS-1	None

### NOTES AND RECOMMENDATIONS:

Pair of red-tailed hawks that have been copulating in SS-38 appear to have established a nest site in the side of the cliff overlooking SRE site. UTM 342688E, 3789665N. Female has begun bringing sticks to nest site today.

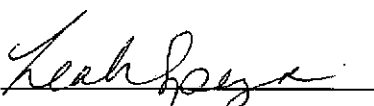
Western scrub-jay nest at SS-17 still empty (no eggs yet) and jays still active around it.

Western toad gone from flooded angled culvert/pipe at SS-17 near SS crew, after I inserted branches as escape ramp yesterday, suggesting it was possibly trapped in the culvert.

Golden eagles monitored while ERGS scanning at N edge of SS-35. Eagles appeared to have noticed us but did not alter their behavior due to the disturbance.

Biologist Signature: 

Date: 3/18/11

HGL Field Supervisor Signature: 

Date: 3/18/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

\*plus clearance surveys

Date: 3/21/11

Biologist: Scott Weimer

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-17	800-1100	SS	Power auger, foot traffic, tables, chairs
5D	SS-55*	1120-1500	VC*	Wood chippers

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

\* also cleared SS-55 and SS-56 for biological resources (see below, no clearance form submitted)

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-17	Santa Susana tree plant	SS-1	None visual
SS-17	Western scrubjay nest	SS-1	None (mild disturbance)

**NOTES AND RECOMMENDATIONS**

SS-17: Western scrubjay nest: female is sitting on nest while male is perched near nest tree. Nest has no eggs but it's assumed that she will begin laying in the next 1-2 days. SS work has moved to the east of nest tree and birds are doing okay with the visual and noise disturbance.

SS-55: Clearance survey in SS-55 east and South of dead-end road to groundwater monitoring well resulted in 14 inactive Red-winged blackbird nests, 3 were likely in the building stage but damaged by severe storm this past weekend, one may have had nestlings but was also damaged in storm with no eggs/young today (some feathers present). Red-winged blackbirds most likely are nesting in <sup>live</sup> mustard patch along W side of monitoring well road. Not expected to be cut in foreseeable future. Cooper's hawk hunting in SS-50.

SS-50, 56: portions were surveyed and cleared w/no biological sensitivities present.

Biologist Signature: Scott Weimer

Date: 3/21/11

HGL Field Supervisor Signature: James R. ...

Date: 3/21/2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/22/11 Tues

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-17	0730-0745	n/a	n/a (nest check)
5A	SS-15	900-1020	SS	power auger, foot traffic, tables, chairs
5D	SS-56	820-900	VC	Mower
5D	SS-50	1020-1100	VC	Mower

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

8 SS-38/39 1330-1400 GP *Hannibal magnetometer*

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-17	Western scrub-jay nest hole	Buffer enlarged to 25-30 ft.	<del>none</del> none
SS-56	nesting bird habitat	Monitored VC-1	none
SS-15	Santa Susana Terrestrial Fairy Shrimp Habitat	SS-1, SS-2	none
SS-50	nesting bird habitat	VC-1	none
SS-38/39	Mariposa lilies	VC-1	none

### NOTES AND RECOMMENDATIONS

Ponded area in SS-15 is suitable fairy shrimp habitat, will be off limits to power auger (2 SS points in pond). No fairy shrimp observed.

Western scrub-jay nest in SS-17: 1st egg laid late yesterday or this morning. Will lay 3-6 eggs @ one per day. Estimated hatching date: April 19. Hatched around April 27.

Biologist Signature: *Scott Werner*

Date: 3/22/11

HGL Field Supervisor Signature: *James H. ...*

Date: 3/22/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/23/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8/5D	SS-50 SS-55 SS-43	0830-915 1100-1330	VC	Weed whackers, chainsaws

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-50 SS-55 SS-43	Bird nesting habitat	VC-1	None
SS-43	Santa Susana tarplant	GP-1, VC-10	None
SS-43	Mariposa lilies	GS-1	None

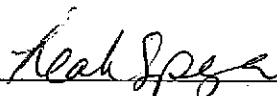
### NOTES AND RECOMMENDATIONS:

Clearance survey conducted in SS-43, described in separate report.

Golden eagle nest in NBZ-E checked. Still active after heavy weekend storm. Eggs may have hatched – eagle fidgeting with nest contents briefly before sitting on nest.

Biologist Signature: 

Date: 3/24/11

HGL Field Supervisor Signature: 

Date: 3/30/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/24/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8/5D	SS-50 SS-55 SS-43	0800-0930 1200-1500	VC	Weed whackers, chainsaws
6/7	SS-38 SS-39	1000-1115	<del>GP</del> GS	ERGS

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMMs Implemented	Residual Impacts
SS-50 SS-55	Bird nesting habitat	VC-1	None
SS-43 SS-38 SS-39	Santa Susana tarplant	GP-1, VC-10	None
SS-38 SS-39	Mariposa lilies	GS-1	None

### NOTES AND RECOMMENDATIONS:

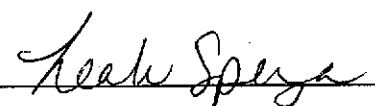
At SS-38/39, many more potential mariposa-lilies have sprouted and have been flagged.

Bushtits still building nest found at SS-43 yesterday. Delivering fine material to inside of nest. Temporary disturbance of weed whacking underneath coast live oak nest tree acceptable.

Young rattlesnake mortality from weed whacker in SS-55. Ventral side split open to reveal recently ingested mouse.

Biologist Signature: 

Date: 3/25/11

HGL Field Supervisor Signature: 

Date: 3/30/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/28/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-15 SS-17	0800-0900	SS	Power auger, foot traffic, tables, chairs, equipment boxes
6/7	SS-38 SS-39	0910-1130	GP	Foot traffic

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-15 SS-17	Active scrub jay nest, general bird nesting habitat, Santa Susana tarplant	SS-1, SS-2	None
SS-38 SS-39	Mariposa lilies	GS-1	None

### NOTES AND RECOMMENDATIONS:

In SS-9, removed live western toad and dead young desert cottontail from flooded vertical 8" pipe (=well?), both trapped. Pipe filled with branches and covered with rock after rescue. Pipe does not appear to be associated with EPA activity.

Western scrub-jay nest in SS-17 has 4 eggs with female incubating. No work currently within immediate area.

Vegetation Cutting on Friday, March 25 occurred in an area of SS-43 not previously surveyed by biologist (outside the area scheduled to be cut), and biologist was not present during trimming. An active mourning dove nest with 2 eggs was found in a coast live oak tree at UTM 341804E, 3788943N by the vegetation cutting crew after removing some live and dead material from tree (shown to the biologist on Monday, March 28. Nest eggs were preyed upon over the weekend, which may have resulted from the reduced amount of cover created by the cutting crew. In the future, work activities should not go outside the delineated area described to biologist for clearance surveys.

Golden eagle nest checked. Status unknown (brief visit and no spotting scope available) but 1 eagle nearby on regular perch.

Biologist Signature: Scott Werner

Date: 3/28/11

HGL Field Supervisor Signature: Keith Speyer

Date: 3/30/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/29/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-17	0830-1430	SS	Power auger, foot traffic, tables, chairs, equipment boxes

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling


## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-17	Santa Susana tarplant	SS-1, SS-2	None

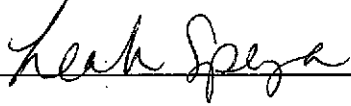
### NOTES AND RECOMMENDATIONS:

Soil sampling occurring in eastern SS-17 (SS Group 3). Biologist staked and reflagged dense stand of tarplant in the area.

Clearance survey completed in a portion of Group 3 as well.

Biologist Signature: 

Date: 3/29/11

HGL Field Supervisor Signature: 

Date: 3/30/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/30/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-17 SS-18	0830-1230	SS	Power auger, foot traffic, tables, chairs, equipment boxes

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

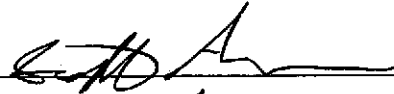
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-17, SS-18	Santa Susana tarplant	SS-1, SS-2	None

### NOTES AND RECOMMENDATIONS:

Soil sampling occurring in eastern SS-17 (SS Group 3). Biologist staked and reflagged dense stand of Santa Susana tarplant in the area.

Adjacent SS-18 also surveyed for sensitive biological resources: additional Santa Susana tarplant flagged/staked.

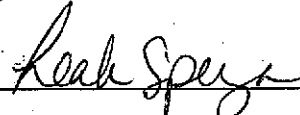
Biologist Signature: \_\_\_\_\_



Date: \_\_\_\_\_

3/30/11

HGL Field Supervisor Signature: \_\_\_\_\_



Date: \_\_\_\_\_

4/5/11



# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 3/31/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8	SS-35	0900-1015	GP	Handheld equipment, foot traffic
5A	SS-17 SS-18	1040-1230	SS	Power auger, foot traffic, tables, chairs, equipment boxes

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMMs Implemented	Residual Impacts
SS-35 SS-38	Nesting birds	GP-1	None
SS-17 SS-18	Santa Susana tarplant, nesting birds	SS-1, SS-2	

### NOTES AND RECOMMENDATIONS:

Bushtit nest previously identified in SS-35 is no longer active. New nest has been built at SS-38 at UTM 342750E, 3789649N. New Bewick's wren nest being built in SS-35 at UTM 342890E, 3789673N 5 feet up inside a burl in a coast live oak. Area around nest hole has been staked and flagged.

Golden eagle nest in NBZ-E: eagle at nest, distance still prevents detailed look at whether nestlings have hatched.

New bushtit nest being built in SS-18 in coast live oak at UTM 342876E, 3789453N. Likely same pair that abandoned storm-damaged nest nearby at SE edge of SS-34 along E street.

Biologist Signature: Scott Werner

Date: 3/31/11

HGL Field Supervisor Signature: Leah Speyer

Date: 4/5/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/1/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5C	SS-1 SS-6	0800-1000	VC	Weed whackers, mower
5A	SS-17 SS-18	1000-1100	SS	Power auger, foot traffic, tables, chairs, equipment boxes

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-1 SS-6	Nesting bird habitat	VC-1	None
SS-17 SS-18	Santa Susana tarplant, nesting birds	SS-1, SS-2	None -sw

## NOTES AND RECOMMENDATIONS:

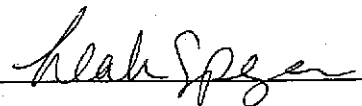
Clearance survey of southern SS-17 done concurrently with monitoring. Separate report submitted.

Golden eagle nest in NBZ-E: two downy eaglets observed with telescope. Eaglets appear to be 1-2 weeks old.

Easternmost one of the two Braunter's milkvetch plants in SS-10 appears to have fallen over during very windy storm event last week. Both milkvetch in SS-10 have been staked off and there have been no EPA activities in this area recently. Removal of surrounding vegetation may have been a factor affecting the plant's ability to withstand high winds.

Biologist Signature: 

Date: 4/1/11

HGL Field Supervisor Signature: 

Date: 4/5/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 4/4/2011 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5A	SS-17 SS-18	0800-1230	SS	Power auger, foot traffic, tables, chairs, equipment boxes

\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-17 SS-18	Santa Susana tarplant, nesting birds, Fairy Shrimp habitat	SS-1, SS-2	2 small tarplants in asphalt damaged


**NOTES AND RECOMMENDATIONS:**

Western scrub-jays previously nesting in SS-17 are rebuilding on N side of SS-17 along road to SRE site. Precise location of nest not identified yet.

Vernal pool on top of rocky outcrop on SS-17 still very full from recent storm but murky with algae and no fairy shrimp seen today.

Biologist Signature: 

Date: 4/4/11

HGL Field Supervisor Signature: 

Date: 4/7/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 4/6/2011      Wednesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5A	SS-1 SS-35	0800-1500	GS	Canycom

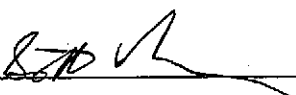
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

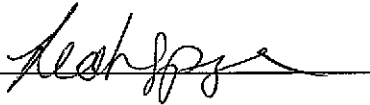
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-35	Nesting birds	GS-1	none

**NOTES AND RECOMMENDATIONS:**

New bushtit nest being built 12 feet up in small coast live oak at northern edge of SS-35. UTM 343011E, 3789738N. Canycom scanning directly under nest but birds still delivering material occasionally. Nest is far enough along that today's temporary disturbance should not be enough to cause the birds to abandon the site. Likely same pair that abandoned nearby nest in large coast live oak near gate in SS-35 after heavy rainstorm (nest first described on 3/15).

Biologist Signature: 

Date: 4/6/11

HGL Field Supervisor Signature: 

Date: 4/7/11