



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX

75 Hawthorne Street  
San Francisco, CA 94105

August 11, 2011

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Subject: EPA Radiological Study of the Santa Susana Field Laboratory Area IV and the Northern Buffer Zone;  
**Annual Biological Monitoring Report (July 22, 2010, to June 30, 2011)**

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

The United States Environmental Protection Agency (EPA) is continuing its radiological characterization 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 first annual Biological Monitoring Report dated August 8, 2011. This report conveys the findings of the fourth quarterly biological monitoring conducted during the period April 7 to June 30, 2011, and summarizes the findings of all four quarterly monitoring periods as the Annual Monitoring Report covering the reporting period July 22, 2010, to June 30, 2011.

The purpose of this report is to provide a biological 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.

Until the completion of the field work associated with EPA's subject radiological characterization study, EPA will continue to issue biological monitoring status reports to document our ongoing compliance with the Biological Opinion by the U.S. Fish and Wildlife Service (USFWS) dated 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. By this letter, I am informing you that I am being re-assigned to another EPA project. Effective August 19, 2011, EPA Project Manager, Andrew Bain, will act at EPA's primary point of contact for EPA's environmental compliance at SSFL. Mr. Bain can be reached at (415) 972-3167. It has been a pleasure working with you on this project.

Sincerely,



Craig Cooper  
Project Manager  
SSFL Site

Cc:           Stephie Jennings, Department of Energy  
              Rick Brausch, California Department of Toxic Substances Control  
              Andrew Bain, US EPA

Attachment: Annual Biological Monitoring Report dated August 8, 2011

**ANNUAL BIOLOGICAL MONITORING REPORT  
2010 - 2011**

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

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August 8, 2011

<u>SECTION</u>	<u>PAGE</u>	
<b>INTRODUCTION</b>	1	
<b>PROJECT ACTIVITIES AND OPERATIONS</b>	1	
<b>BIOLOGICAL CLEARANCE SURVEYS, MONITORING, AND IMPACTS</b>	2	
Clearance Survey Methodology	2	
Biological Monitoring Methodology	3	
Fourth Quarter Clearance Survey and Monitoring Results for Federally Listed Species	3	
Fourth Quarter Clearance Surveys and Monitoring Results for Non-Federally listed Protected Biological Resources (excludes non-special status nesting birds)	6	
Fourth Quarter Clearance Surveys and Monitoring Results for Protected Nesting Birds	11	
Fourth Quarter Clearance Surveys and Monitoring Results for Riparian Habitat	17	
<b>ANNUAL SUMMARY OF BIOLOGICAL MONITORING ACTIVITIES: JULY 23, 2010, TO JUNE 30, 2011</b>	17	
<b>ISSUES ENCOUNTERED AND ADAPTIVE MANAGEMENT</b>	33	
 <b><u>TABLES</u></b>		
Table 1	List of Federally Listed Resources and Critical/Suitable Habitat Observed in Survey Sections during the Fourth Quarterly Monitoring Period	6
Table 2	List of Federally Listed Resources Impacted During Fourth Quarter Monitoring Period	6
Table 3	List of Non-federally Listed Resources Observed during the Fourth Quarterly Monitoring Period, (grouped by area/subarea)	9
Table 4	List of Non-federally Listed Resources Impacted during the Fourth Quarterly Monitoring Period (excludes non-special status nesting birds)	10
Table 5	List of Active Bird Nests Monitored in the Study Area	13
Table 6	List of Nesting Birds Impacted during the Fourth Quarter Monitoring Period	16
Table 7	List of Federally Listed Resources Observed in Survey Sections from July 22, 2010 to June 30, 2011	17
Table 8	List of Federally Listed Resource Impacted from July 22, 2010 to June 30, 2011	19
Table 9	List of State-Sensitive Resources Observed from July 22, 2010 to June 30, 2011	20
Table 10	List of Non-federally Listed Resources Impacted from July 22, 2010 to June 30, 2011 (excludes non-special status nesting birds)	22
Table 11	Activities Conducted with Monitoring within Riparian Habitat from July 22, 2010 to June 30, 2011	25
Table 12	List of Active Bird Nests Monitored in the Study Area from July 22, 2010 to June 30, 2011	26
Table 13	List of Nesting Birds Impacted from July 22, 2010 to June 30, 2011	30

**APPENDICES**

- Appendix 1 Figures and Photo Plates
- Appendix 2 Fourth Quarter Biological Clearance Survey Forms
- Appendix 3 Fourth Quarter Biological Monitoring Forms

## 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 biological resources protected under other Federal and State laws. 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).

This report conveys the findings of the fourth quarterly biological monitoring conducted during the period April 7 to June 30, 2011, and summarizes the findings of all four quarterly monitoring periods as the Annual Monitoring Report covering the reporting period July 22, 2010, to June 30, 2011.

## PROJECT ACTIVITIES AND OPERATIONS

The Area IV Study Area is subdivided into Subareas 3, 5A, 5B, 5C, 5D North, 5D South, 6, 7, 8 North, 8 South, NBZ-W, and NBZ-E (**Figure 2**). The subareas have been divided into 76 Survey Sections (SS) and 23 NBZ Priority Areas. 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. The following is a discussion of the project tasks and the locations in which they have been conducted.

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 are found in Appendix E of the Site Management Plan. Vegetation cutting has occurred in all Subareas of the project area (3, 5A, 5B, 5C, 5D South, 5D North, 6, 8 North, 8 South, NBZ-W, and NBZ-E) (**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 (**Plates 1A through 1D**).

Gamma scanning is being accomplished using various scanning devices, depending on site conditions. Scanning equipment includes a JCB off-road forklift vehicle (an ERGS machine was formerly used, and the JCB is still referred to as the ‘ERGS’ in this report), a modified Canycom compact walk-behind rubber track-mounted gamma scanner (TMGS), mule-mounted scanning devices, a handcart scanner, and handheld scanners (**Plates 2A, 2B, and 2C**). Gamma scanning has occurred (but has not necessarily been completed) in all Subareas of the project area (3, 5A, 5B, 5C, 5D South, 5D North, 6, 8 North, 8 South, NBZ-W, and NBZ-E) (**Figure 3**).

Geophysical surveys have been conducted in all Subareas of the project area except for 8 South (3, 5A, 5B, 5C, 5D South, 5D North, 6, 8 North, NBZ-W, and NBZ-E) (**Figure 3**).

Surface and subsurface soil sampling has been conducted in Subareas 5A, 5B, 5C, 5D North, and 8 North. Sampling equipment used for this task includes a mobile drilling/coring rig and hand tools. Support equipment for the soil sampling effort include tables, chairs, and equipment boxes (**Plate 2D**). 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 one gallon of soil from 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.

Monitoring well sampling that had begun before April 7, 2011, was completed during the fourth quarterly monitoring period. All of the monitoring wells are located along roads and are accessible by vehicle.

## **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 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) were 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 were present on a daily basis. The monitors attended the safety meeting with crews and monitor project activities. During the fourth quarter monitoring period (April 7 to June 30, 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) worked alongside the field crews to point out the locations of special-status biological resources and assist the crews in avoiding impacts. Daily biological monitoring forms (Attachment 2) were 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 were reported on this form. In compliance with the Biological Opinion, all project-related crews participated 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.

## Fourth Quarter 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.

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

During the fourth quarterly monitoring period project activities were conducted throughout a substantial portion of the occupied milkvetch habitat in 5D South and 8 South. SS-59, which supports Braunton's milkvetch, was the final SS in these Subareas that had not yet been cleared of vegetation prior to the current monitoring period. During spring 2011, a previously undocumented seed bank of Braunton's milkvetch sprouted on SS-49, resulting in hundreds of new emergent milkvetch after the mature chaparral was cut in late 2010 (**Plates 3A through 3C**). The emergence of these young plants is not surprising given the known life history of Braunton's milkvetch, in which seeds lay dormant for many years and then sprout when the soil is disturbed or vegetative cover is otherwise reduced. In fact, many milkvetch sprouts in SS-49 were concentrated within the 2010 tread marks made by the EPA vegetation cutting team's skid steer. Milkvetch recruits were also documented in the other previously cut SSs in these Subareas where vegetative cover was reduced.

The TMGS and ERGS were deployed in SS-49 and monitored carefully to reduce the impacts to the young milkvetch plants (**Plate 3D**). The mule-mounted scanner was deployed within occupied milkvetch habitat in SS-51, SS-52, SS-58, which had not yet been scanned since vegetation was cut in 2010 (**Plate 2C**). However, the chaparral and oak woodland communities in these SSs experienced vigorous vegetative growth during the winter and spring seasons (**Plates 4A and 4B**), which in turn resulted in new milkvetch recruitment and ultimately delayed a second round of vegetation cutting in the area that was needed accommodate the TMGS and ERGS. Additional vegetation cutting and scanning within occupied milkvetch habitat in SS-51, SS-52, and SS-58 is expected after the nesting bird season tapers off in July.

A total of 31 Braunton's milkvetch were impacted during the monitoring period. Impacts to individual Braunton's milkvetch are described in **Table 2**. Most of the impacts were relatively minor and did not result in the complete loss of the plant. Several seedling milkvetch plants were bent or run over by the scanning equipment but the stems were resilient enough to straighten upright in good condition immediately after the impact.



The SSs discussed above are located within the Critical Habitat Unit 1d for Braunton's milkvetch, and 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) have not been negatively impacted.

***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 flowering dudleya individuals were identified as *D. lanceolata* (no protection status), while some dudleya were unidentifiable because they were not flowering at the time of observation. All unidentifiable dudleya were flagged and protected during project activities. During this monitoring period, species were flagged in Subareas 6, 7, NBZ-E, and NBZ-W (SS-35, SS-39, P1E, P1F, P1I, P2K, P3T, P2O). 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***

The vernal pools in SS-7 described in previous quarterly monitoring reports remain intact and were dry during the monitoring period. No impacts to the vernal pools or vernal pool branchiopods occurred as a result of EPA's activities.

***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, gamma scanning and soil sampling were conducted in some or all of the buffer zones, but the wetlands were not affected. No red-legged frogs were observed.

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

No work was conducted within the Least Bell's Vireo (LBV) habitat areas in Subarea 5B (SS-12) and Subarea 6 (SS-26) during the monitoring period, which occurred during the LBV nesting season (March 15-September 30). No LBV have been observed in the project area during clearance surveys or monitoring. A focused survey to determine presence or absence of LBV had been planned to be conducted in SS-12 and SS-26 but was cancelled due to the lack of work scheduled in these areas.

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

A second yearly protocol survey for California gnatcatcher was conducted for an area defined as having potentially suitable habitat. The results of the 2011 survey were negative with no individuals observed. EPA activities resumed in the potential habitat area after the survey was completed. No California gnatcatchers have been detected onsite during the implementation of the EPA study.

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

Species/Resource	Survey Sections	Subareas
Braunton's milkvetch	SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
Braunton's milkvetch Critical Habitat	SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
<i>Dudleya</i> sp.	SS-35, SS-39, P1E, P1F, P1I, P2K, P3T, P2O	6, 7, NBZ-W, NBZ-E
Occupied vernal pool branchiopod habitat (unidentified branchiopods)	SS-7	5C
Coastal California Gnatcatcher potential habitat	SS-42, SS-43, SS-46, SS-47, SS-48, SS-49, SS-51, SS-52, SS-58, SS-59, P1A, P1C, P1I, P2K, P2N, P2O, P3T	5D North, 5D South, 7, 8 North, 8 South, NBZ-W

**Table 2**  
**List of Federally Listed Resources Impacted**  
**During Fourth Quarter Monitoring Period**

Species/Resource	Survey Section	Date recorded	Associated project activity <sup>1</sup>	Impact	Description
Braunton's milkvetch	SS-49	5/9/11	GS	2 plants destroyed, 6 plants damaged	Small plants damaged/destroyed by ERGS
Braunton's milkvetch	SS-49	5/10/11	GS	1 plant uprooted	1 plant uprooted by ERGS and replanted
Braunton's milkvetch	SS-58	5/12/11	GS	1 plant damaged	1 4-inch plant run over by ERGS but still standing
Braunton's milkvetch	SS-51	5/20/11	GS	5 plants damaged	5 mature plants with broken branches from mule but still standing
Braunton's milkvetch	SS-51/SS-59	5/23/11	GS	1 plant damaged	1 mature plant damaged by mule but still standing
Braunton's milkvetch	SS-58	5/25/11	GS	1 plant damaged	1 mature plant damaged by mule but still standing
Braunton's milkvetch	SS-49	5/26/11	GS	2 plants damaged	2 seedlings run over by TMGS but still standing
Braunton's milkvetch	SS-52	5/26/11	GS	2 plants damaged	1 large and 1 small milkvetch damaged by mule, still standing
Braunton's milkvetch	SS-59	5/26/11	VC	2 plants destroyed	1 plant hit with weed whacker, 1 stepped on
Braunton's milkvetch	SS-51/SS-52	5/31/11	GS	2 plants damaged	2 mature plants damaged by mule, still standing
Braunton's milkvetch	SS-52	6/1/11	GS	3 plants damaged	3 mature milkvetch damaged by mule, still standing
Braunton's milkvetch	SS-49	6/9/11	GS	2 small plants damaged	Plants slightly bent after contact with TMGS, still standing

<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, SS = Soil Sampling

#### **Fourth Quarter Clearance Surveys and Monitoring Results for Non-Federally listed Protected Biological Resources (excludes non-special status nesting birds)**

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, 5, and 6**. 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 3**.

##### ***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 3**). One plant was impacted by project activities during the monitoring period (**Table 4**).

##### ***Malibu baccharis (Baccharis malibuensis); CNPS List 1B.1***

Malibu baccharis was recorded in Subareas 5D and 8 (SS-49, SS-51, SS-52, SS-58, SS-59) on the hilly terrain at the extreme southern end of the study area. It is the codominant species with chamise in most of the unburned northern mixed chaparral on SS-49. Malibu baccharis exhibits a flexible growth form whereby it is not easily damaged by project equipment when properly marked. Approximately 21 plants were damaged or destroyed during vegetation cutting or gamma scanning activities conducted this quarter.

##### ***Plummer's mariposa lily (Calochortus plummerae); CNPS List 1B.2***

This species was observed to be flowering in June in Subarea 6 (SS-35), and in NBZ-E (P1E, P1F, P1J). All specimens observed were protected from project activities (**Plate 4C**).

##### ***Slender mariposa lily (Calochortus clavatus var. gracilis); CNPS List 1B.2***

Although *Calochortus clavatus* were positively identified in Subareas 5D South (SS-51) and 8 South (SS-51, SS-58), all plants were keyed to be the unprotected *Calochortus clavatus* var. *pallidus*. Nonetheless, all observed plants were protected from the minimal vegetation cutting and gamma scanning occurring in the area during the fourth quarter monitoring period.

##### ***Catalina mariposa lily (Calochortus catalinae); CNPS List 4.2***

This species was observed in Subarea 5D South (SS-58), and in NBZ-W (P1I) and protected from project activities.

##### ***Non-flowering mariposa lilies (Calochortus sp.)***

Non-flowering lilies were observed in Subareas 6, 7, 5D South, and NBZ-W (SS-35, SS-38, SS-39, SS-42, SS-51, SS-52, SS-58, SS-59, P1I, P2K, P3T, P2O) but these areas were not revisited during the observed flowering period for this species. All observed unidentified mariposa lilies were protected from project activities, although 9 previously undetected (and unflagged) non-flowering lilies were damaged during vegetation cutting (**Table 4**).

***Southern California black walnut (Juglans californica); CNPS List 4.2; Protected by Ventura County Trimming Ordinance***

A population of southern California black walnut trees is located along the north-facing slopes of Subarea 5D South and 8 South (SS-48, SS-49, SS-51, SS-52, SS-58, SS-59). Approximately 30 trees were trimmed in SS-51, SS-52, SS-59 per the Ventura County Trimming Ordinance.

***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, and coast horned lizards were observed during the fourth quarter monitoring period in Subareas 3, 6, 5D South, 8 South (SS-32, SS-35, SS-49, SS-51, SS-58, SS-59). Because there were so many sightings of coast horned lizards in Subareas 8 South and 5D South, the mapped data points depicted in previous quarterly reports were replaced in this report by an “Occupied Coast Horned Lizard Habitat” polygon in **Figures 4, 5, and 6** for these Subareas. Sixteen coast horned lizards were handled and relocated nearby out of harm’s way (**Plate 4D**)(**Table 4**).

***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 monitoring 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 monitoring period.

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

Cooper’s hawks were recorded in Subarea 7 (SS-39) and Subarea 5D South (SS-59). No nests or nesting behaviors were observed during the fourth quarter monitoring period.

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

A resident pair of golden eagles successfully raised 2 young from a nest site located on the SSFL property boundary in the NBZ-E. A nest buffer was established on February 9, 2011, for portions of Subareas 6, 7, and NBZ-E (SS-35, SS-39, P1D, P1E, P1F, P3W, P3X). Project activities within the buffer were highly restricted when incubation of the first egg commenced (**Figures 5 and 6**). On the first day of the fourth quarter monitoring period (April 7, 2011) there were two downy white eaglets in the nest. The eaglets gradually developed their dark brown and white juvenile plumage and initially left the nest on June 8 or 9, 2011 (**Plate 5A**). Both eaglets were on the nest on June 8, but on June 9 only one eaglet was seen on a secondary, adjacent nesting platform at the nest site. From June 9 until June 21, the parents and both eaglets were occasionally seen soaring in the area, and during the afternoon at least 1 eaglet would return to the secondary nest to loaf. After June 21, the family group was not seen at the nest and the buffer was lifted. The family group continued to be seen occasionally in the area through the end of the fourth quarter monitoring period.

***Costa’s hummingbird (Calypte costae); Federal Bird Species of Conservation Concern***

Costa’s hummingbirds breed in coastal southern California, the Mojave Desert, and Baja California. In Ventura County they nest in coastal sage scrub and chaparral communities such as the type that occur at SSFL. One Costa’s hummingbird nest was found in Subarea 5D South (SS-58) during gamma scanning activities. The nest was avoided and one young hummingbird later successfully fledged.

***Rufous hummingbird (Selasphorus rufus); Federal Bird Species of Conservation Concern***

Rufous hummingbirds are primarily found in Ventura County during spring migration en route to nesting grounds in the northwestern U.S. and western Canada. Several birds were recorded in the project area during the monitoring period and none were impacted by project activities.

***Allen's hummingbird (Selasphorus sasin); Federal Bird Species of Conservation Concern***

Allen's hummingbird nests in Ventura County and is common in the project area. No nests were found during the monitoring period and no Allen's hummingbirds were impacted by project activities.

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

A Lewis's woodpecker was seen regularly early in the monitoring period in Subarea 6 (SS-34, SS-36). Lewis's woodpeckers are occasionally seen in coastal Ventura County during the wintering period, which may extend into April or May before the birds migrate to breeding areas. In the southern half of California they generally nest in higher elevation areas such as the Tehachapi and Sierra Nevada Mountains.

***Nuttall's woodpecker (Picoides nuttallii); Federal Bird Species of Conservation Concern***

Nuttall's woodpeckers nest in cavities and are commonly seen in woodland areas of the project area. No nests were recorded during clearance surveys or monitoring, and none were impacted by project activities during the fourth quarterly monitoring period.

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

Oak titmice are common in oak woodland habitats in the study area. They nest in tree cavities and inhabit most SSs that have not been developed and contain coast live oak woodland. During the monitoring period, three oak titmouse nests were monitored in SS-51 with no impacts from project activities.

***Yellow warbler (Dendroica petechia brewsteri); Federal Bird Species of Conservation Concern***

In southern California, yellow warblers mainly nest in riparian woodlands after spending the winter in Mexico and other southern latitudes. No work was conducted in any riparian nesting habitat, although some yellow warblers (presumed to be migratory) were recorded in the project area during the monitoring period.

***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. During the monitoring period, this species was recorded in Subareas 5D South, 7, and NBZ-E (SS-39, SS-59, P1D, P1E, P1F). Two nests located in Subarea 7 (SS-39) and NBZ-E (P1E) were monitored and both successfully fledged young. The nests were very cryptic and located in dense mustard (*Hirschfeldia incana*) and California buckwheat (*Eriogonum fasciculatum*), respectively. The vegetative cover immediately surrounding the nest in SS-39 was reduced by approximately 50% after a weed whacker inadvertently cut into the nest patch (the nest had not yet been discovered by field personnel). To mitigate the impact to the nest patch, the biologist retrieved branched foliage from nearby yerba santa (*Eriodictyon crassifolium*) and deerweed (*Lotus scoparius*), and piled it next to the nest, thus recreating the dense amount of cover that had been removed during weed whacking. These efforts were successful—the female continued to incubate and eventually raise several nestlings (**Plates 5B through 6A**).

***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 3****List of Non-federally Listed Resources Observed during the Fourth Quarterly Monitoring Period, (grouped by area/subarea)**

Species/Resource	Survey Section	Subarea
Santa Susana tarplant	SS-31, SS-35, SS-39, SS-41, SS-42, SS-44, SS-49, SS-58, SS-59, P1D, P1E, P1F, P1J, P1I, P2K, P2O, P3T	3, 6, 7, 5D South, NBZ-E, NBZ-W
Malibu baccharis	SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
Potential special-status mariposa lilies	SS-35, SS-38, SS-39, SS-42, SS-51, SS-52, SS-58, SS-59, P1I, P2K, P3T, P2O	6, 7, 5D South, NBZ-W
Catalina mariposa lily	SS-58, P1I	5D South, NBZ-W
Plummer's mariposa lily	SS-35, P1E, P1F, P1J	6, NBZ-E
Southern California black walnut	SS-48, SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
Coast horned lizard	SS-32, SS-35, SS-49, SS-51, SS-58, SS-59	3, 6, 5D South, 8 South
Nesting birds	SS-38, SS-39, SS-42, SS-43, SS-44, SS-47, SS-49, SS-51, SS-52, SS-55, SS-56, SS-58, SS-59, P1A, P1C, P1D, P1E, P1F, P1I, P1J, P2K, P3W, P3X	6, 5D North, 5D South, 8 North, 8 South, NBZ-E, NBZ-W
Cooper's hawk	SS-39, SS-59	5D South, 7
Golden eagle nest and nest buffer	SS-35, SS-39, P1D, P1E, P1F, P3W, P3X	6, 7, NBZ-E
Lewis's woodpecker*	SS-34, SS-36	6
Oak titmouse	throughout Study Area	all
Southern California rufous-crowned sparrow	SS-39, SS-59, P1D, P1E, P1F	5D South, 7, NBZ-E
* Likely the same individual		

**Table 4**  
**List of Non-federally Listed Resources Impacted during the Fourth Quarterly Monitoring Period**  
**(excludes non-special status nesting birds)**

Species/Resource	Survey Section	Date recorded	Associated project activity <sup>1</sup>	Impact	Description
Santa Susana tarplant (1 plant)	SS-42	5/18/11	GS	Crushed	Impact occurred at least several weeks ago and was not documented/monitored at the time. Likely impacted by work trucks or ERGS.
Malibu baccharis (2 plants)	SS-58	5/11/11	GS	Damaged	Run over with ERGS
Malibu baccharis (1 plant)	SS-49	5/16/11	GS	Damaged	Plant damaged by TMGS, will survive
Malibu baccharis (1 plant)	SS-51	5/16/11	VC	Damaged	Plant damaged with weed whacker, still alive
Malibu baccharis (5 plants)	SS-51	5/16/11	GS	Damaged	Plants damaged by mule, still alive
Malibu baccharis (5 plants)	SS-51	5/26/11	GS	Damaged	Plants damaged by mule, still alive
Malibu baccharis (1 plant)	SS-26	5/26/11	VC	Damaged	Plant damaged by weed whacker
Malibu baccharis (7 plants)	SS-49	6/2/11	GS	Damaged/ Destroyed	4 plants slightly damaged and 3 plants uprooted by TMGS
Non-flowering mariposa lily (1 plant)	SS-39	4/7/11	GS	Damaged	1 small non-flowering lily run over with TMGS
Non-flowering mariposa lily (4 plants)	SS-59	5/3/11	VC	Damaged	Run over with ERGS
Non-flowering mariposa lily (4 plants)	SS-58	5/11/11	GS	Damaged	Run over with ERGS
Southern California black walnut (~30 trees)	SS-51, SS-52, SS-59	April- June	VC	Trimmed	Mature trees trimmed and some trees with girths less than 3" were trimmed to ground, in accordance with Ventura County trimming guidelines
Coast horned lizard (1 lizard)	SS-59	5/2/11	VC	Relocated	Moved 400 feet away along property boundary
Coast horned lizard (3 lizards)	SS-49	5/9/11	GS	Relocated	Moved nearby to safe location
Coast horned lizard (3 lizards)	SS-58 SS-59	5/11/11	GS	Relocated	Moved < 100 ft away from ERGS activity
Coast horned lizard (3 lizards)	SS-58	5/11/11	VC	Relocated	Moved away from scheduled VC activity

Species/Resource	Survey Section	Date recorded	Associated project activity <sup>1</sup>	Impact	Description
Coast horned lizard (1 lizard)	SS-59	5/23/11	VC	Relocated	Moved away from vegetation removal zone
Coast horned lizard (1 lizard)	SS-59	5/24/11	VC	Relocated	Moved away from vegetation removal zone
Coast horned lizard (1 lizard)	SS-49	5/26/11	VC	Relocated	Moved 50 feet away, past Area IV fence
Coast horned lizard (1 lizard)	SS-59	5/27/11	VC	Relocated	Moved away from vegetation removal zone
Coast horned lizard (1 lizard)	SS-49	6/1/11	GS	Relocated	Moved out of harm's way
Coast horned lizard (1 lizard)	SS-58	6/1/11	GS	Relocated	Moved out of harm's way
Southern California rufous-crowned sparrow nest with 3 eggs	SS-39	4/21/11	VC	Cover reduced but nestlings fledged successfully	Undiscovered nest exposed by weed whacker. Cover was successfully reestablished.
California towhee	SS-50	5/3/11	SS	Injured/stressed after caught in glue mouse trap	Biologist removed all glue and bird appeared exhausted but okay

<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, SWSS=Surface Water and Sediment Sampling

#### Fourth Quarter Clearance Surveys and Monitoring Results for Protected Nesting Birds

Native bird species 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. At least 104 native bird species have been recorded in the study area since biological studies in support of the EPA Radiological Study began in 2010.

Bird nests were located using standard techniques such as observing nesting behavioral cues and conducting random searches of vegetation. Although searches were conducted for all nests regardless of location in the activity area, an emphasis was placed on shrub-nesting and ground-nesting species that could be directly impacted by vegetation cutting or moving equipment. Because of the highly cryptic nature of bird nests, clearance surveys conducted during the nesting bird season were detailed and intensive when surveying in and around dense vegetation. When active nests were found, the biologist would establish a buffer zone within which project activities were restricted, except for limited mule-mounted scanning activity that was conducted under strict supervision by the biological monitor. Buffers ranged in size from as little as 10 to 20 feet for small songbirds nesting near well traveled areas to as much as 1,300 feet for golden eagles. The shape and size of the nest buffer depended on the tolerance of the bird to human activity, the type of activity proposed, the nest stage, and the topography and density of vegetation surrounding the nest. Nests were then monitored by a biologist during project activities and



the nest buffer modified if necessary based on behaviors observed. In addition, buffers were left intact if vulnerable fledglings had left the nest but were still in the area under parental care.

Most of Subareas 5D South and 8 South had been subjected to vegetation cutting during 2011; however, virtually none of this area had been scanned by spring 2011, thus allowing a large amount of herbaceous and shrubby vegetation to grow back. This vegetation re-growth created highly suitable habitat for nesting birds that would require re-cutting to enable operation of the most sensitive scanning equipment. The biological monitor observed an abundance of bird nests in SS-51, SS-52, and SS-58, which essentially prohibited further EPA activity in these areas in early spring until the nesting season began to wane in late June 2011.

**Table 5** lists the active nests found during the fourth quarterly monitoring period, the survey section where they were recorded, and any impacts. **Table 6** lists nests that were impacted by project activities, and a discussion of each species follows. Impacted nests were mainly those that had gone undiscovered before vegetation cutting commenced and then were either damaged by equipment or had the surrounding cover significantly compromised followed by depredation. Most of the impacted nests were in the incubation stage, when the adult spends long periods of time on the nest and is not easily flushed unless a person is within a few feet of the nest. The most commonly impacted species, wrentit and California towhee, were also among the most abundant species in the chaparral areas affected by project activities at the time. Wrentits build exceptionally well hidden nests in dense chaparral species such as black sage (*Salvia mellifera*) and deerweed, and individuals often stay hidden within the vegetation when moving about during their daily activities, including nest-building and feeding chicks (**Plates 6B through 7B**). The use of the mower (a 5-foot wide attachment on the skid steer operated by the vegetation cutting crew) was highly restricted by the biological monitors during the nesting bird season. Unfortunately, one of the few times mechanical mowing was allowed resulted in the take of an undiscovered wrentit nest. The nest and all 4 nestlings survived the initial fall from the shrub; the biologist reattached the nest to an intact shrub less than 10 feet away from the original nest location (**Plate 6B**). However, it was determined the following morning that the wrentit parents did not continue feeding the young. The nestlings were transferred to a wildlife rescue facility (Ojai Raptor Center) where 2 of the 4 nestlings survived (**Table 6**). This incident was discussed among the biological monitors and field team leaders, and two adaptive management techniques were subsequently implemented to improve outcomes. These changes were (1) the biological monitors are to be given at least 24 to 48 hours notice to survey areas scheduled for vegetation cutting during the nesting bird season to allow adequate time for a thorough survey, and (2) mechanical mowing is not allowed on any woody vegetation during the nesting bird season.

Several near-misses of bird nests took place when equipment was operated near undiscovered bird nests on the ground. Lark sparrows (*Chondestes grammacus*) and spotted towhees (*Pipilo maculatus*) often nested at ground level under recently cut shrubs (**Plates 7C and 7D**). Several lark sparrow nests were discovered in Subarea 8 South (SS-49) while the TMGS was operating, and one nest was just 10 feet from the TMGS when an adult with food was intently perched unusually close to the crew. A spotted towhee nest on the ground with nestlings was discovered within an existing nest buffer in Subarea 8 South (SS-51) within 10 to 20 feet of vegetation just cut several days before. **Plates 8A through 9D** show several other bird nests encountered during monitoring that were highly susceptible to impacts due to their locations in herbaceous vegetation or on the ground.

Although mortality rates of songbird eggs and young are relatively high under natural conditions, rates may have been unavoidably higher even with suitable nest buffers because the vegetation cutting would typically attract nest predators such as common ravens (*Corvus corax*) and American crows (*Corvus*

*brachyrhynchos*) to the work area to feed on displaced insects, lizards, and rodents. After documenting this increase in potential nest predators, the biologists enlarged nest buffers where possible.

**Table 5**  
**List of Active Bird Nests Monitored in the Study Area<sup>1</sup>**

Common Name	Survey Section	Subarea	Date Recorded	Impacts
Golden eagle	P3W/P1D/P1E	NBZ-E	2/9/11	None
Western scrub-jay	SS-17	5A	4/11/11	None
Bushtit	SS-39	7	4/11/11	None
Bushtit	SS-39	7	4/11/11	None
California thrasher	SS-39	7	4/12/11	None
Cliff swallow	P1C	NBZ-W	4/12/11	None
Western scrub-jay	SS-39	7	4/13/11	None
Song sparrow	SS-39	7	4/21/11	None
Rufous-crowned sparrow	SS-39	7	4/21/11	See Table 4
Wrentit	SS-39	7	4/22/11	None
Anna's hummingbird	SS-39	7	4/22/11	None
House wren	SS-59	5D South	4/26/11	None
Song sparrow	SS-59	5D South	4/26/11	None
Song sparrow	SS-59	5D South	4/26/11	None
Western scrub-jay	SS-59	5D South	4/26/11	None
Lesser goldfinch	SS-59	5D South	4/27/11	None
Wrentit	SS-59	5D South	4/27/11	None
California towhee	SS-59	5D South	4/28/11	None
California towhee	SS-59	5D South	4/28/11	None
Lazuli bunting	SS-59	5D South	5/3/11	None
Wrentit	SS-59	5D South	5/3/11	None
California towhee	SS-59	5D South	5/4/11	None
House finch	SS-58	5D South	5/4/11	None
Lesser goldfinch	SS-59	5D South	5/4/11	None
California towhee	P1C	NBZ-W	5/5/11	None
Wrentit	P1C	NBZ-W	5/5/11	See Table 6
Lesser goldfinch	SS-39	7	5/6/11	None
Bewick's wren	SS-59	5D South	5/9/11	None
Blue grosbeak	SS-59	5D South	5/9/11	None
California towhee	SS-59	5D South	5/9/11	None
Song sparrow	SS-59	5D South	5/9/11	None
Wrentit	SS-59	5D South	5/9/11	None
Song sparrow	SS-48	8 South	5/10/11	None
Bewick's wren	SS-59	5D South	5/10/11	None
Blue-gray gnatcatcher	SS-58	5D South	5/11/11	None

Common Name	Survey Section	Subarea	Date Recorded	Impacts
California towhee	SS-43	8 North	5/12/11	None
California towhee	SS-43	8 North	5/12/11	None
California towhee	SS-59	5D South	5/12/11	See Table 6
California towhee	SS-59	5D South	5/13/11	None
California towhee	SS-51	8 South	5/13/11	None
California towhee	SS-51	5D South	5/13/11	None
California towhee	SS-51	5D South	5/13/11	None
House wren	SS-52	8 South	5/13/11	None
Lesser goldfinch	SS-51	8 South	5/13/11	None
Lesser goldfinch	SS-51	8 South	5/13/11	None
Oak titmouse	SS-51	8 South	5/13/11	None
Song sparrow	SS-51	8 South	5/13/11	None
California towhee	SS-51	5D South	5/13/11	None
California towhee	SS-59	5D South	5/16/11	None
Song sparrow	SS-39	7	5/18/11	None
Lesser goldfinch	SS-39	7	5/18/11	None
California thrasher	SS-39	7	5/18/11	None
Wrentit	SS-39	7	5/18/11	See Table 6
Spotted towhee	SS-39	7	5/18/11	None
House wren	SS-51	5D South	5/18/11	None
House wren	SS-51	5D South	5/18/11	None
House wren	SS-51	8 South	5/18/11	None
Oak titmouse	SS-51	8 South	5/18/11	None
Song sparrow	SS-51	8 South	5/18/11	None
Song sparrow	SS-51	8 South	5/18/11	None
Oak titmouse	SS-51	8 South	5/18/11	None
California towhee	SS-39	7	5/19/11	None
House wren	P1C	NBZ-W	5/19/11	None
California towhee	SS-44	8 North	5/19/11	None
Cliff swallow	SS-44	8 North	5/19/11	None
Cliff swallow	SS-44	8 North	5/19/11	None
Cliff swallow	SS-44	8 North	5/19/11	None
Lesser goldfinch	SS-51	5D South	5/20/11	None
Spotted towhee	SS-51	8 South	5/20/11	None
California towhee	SS-51	5D South	5/23/11	None
Lesser goldfinch	SS-51	5D South	5/24/11	None
California towhee	SS-52	5D South	5/24/11	None
Lesser goldfinch	SS-52	8 South	5/24/11	None
Lesser goldfinch	SS-52	8 South	5/26/11	None
House finch	SS-58	5D South	5/26/11	None

**ANNUAL BIOLOGICAL MONITORING REPORT**

*July 2010 – June 2011*

<b>Common Name</b>	<b>Survey Section</b>	<b>Subarea</b>	<b>Date Recorded</b>	<b>Impacts</b>
California towhee	SS-59	5D South	5/27/11	See Table 6
California quail	P1E	NBZ-E	5/31/11	None
Rufous-crowned sparrow	P1E	NBZ-E	5/31/11	None
Lark sparrow	SS-51	8 South	5/31/11	None
Phainopepla	SS-51	8 South	5/31/11	None
California towhee	SS-49	8 South	6/1/11	None
Lark sparrow	SS-49	8 South	6/1/11	None
Lark sparrow	SS-49	8 South	6/1/11	None
Spotted towhee	SS-39	7	6/2/11	None
Mourning dove	SS-59	5D South	6/2/11	None
Lark sparrow	SS-49	8 South	6/2/11	None
Lazuli bunting	SS-59	5D South	6/3/11	None
Ash-throated flycatcher	P1I	NBZ-W	6/3/11	None
Common poorwill	SS-52	8 South	6/6/11	None
Lark sparrow	SS-51	8 South	6/7/11	None
Lark sparrow	SS-49	8 South	6/7/11	None
Lark sparrow	SS-49	8 South	6/7/11	None
Lesser goldfinch	SS-49	8 South	6/7/11	None
House wren	SS-58	5D South	6/8/11	None
House finch	SS-58	5D South	6/8/11	None
Song sparrow	SS-58	5D South	6/8/11	None
Costa's hummingbird	SS-58	5D South	6/8/11	None
California towhee	SS-52	8 South	6/8/11	None
Wrentit	P1I	NBZ-W	6/9/11	None
Acorn woodpecker	SS-31	6	6/9/11	None
House wren	P1I	NBZ-W	6/10/11	None
California towhee	P1I	NBZ-W	6/10/11	None
California towhee	SS-59	5D South	6/10/11	None
California towhee	P2O	NBZ-W	6/13/11	None
Wrentit	P2K	NBZ-W	6/13/11	See Table 6
California towhee	P1F	NBZ-E	6/14/11	None
Lesser goldfinch	P1F	NBZ-E	6/14/11	None
California towhee	P1J	NBZ-E	6/14/11	None
White-throated swift	P1J	NBZ-E	6/14/11	None
Phainopepla	P1J	NBZ-E	6/14/11	None
Song sparrow	SS-55	5D North	6/15/11	None
Song sparrow	SS-55	5D North	6/15/11	None
Blue grosbeak	SS-51	5D South	6/15/11	None
Blue grosbeak	SS-56	5D North	6/16/11	None
Northern mockingbird	SS-46	8 North	6/16/11	None

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

Common Name	Survey Section	Subarea	Date Recorded	Impacts
Violet-green swallow	SS-42	5D North	6/20/11	None
Lazuli bunting	SS-56	5D North	6/21/11	None
California quail	P1F	NBZ-E	6/21/11	None
Wrentit	P1D	NBZ-E	6/24/11	None

<sup>1</sup> Does not include undiscovered active nests that were found after having been lost during project activities. All impacted nests are described in Tables 4 and 6.

**Table 6**  
**List of Nesting Birds Impacted during the Fourth Quarter Monitoring Period**

Species/Resource	Survey Section	Date of impact	Associated project activity <sup>1</sup>	Impact	Description
Southern California rufous-crowned sparrow nest with 3 eggs	SS-39	4/21/11	VC	Cover initially reduced but nestlings fledged successfully	Undiscovered nest exposed by weed whacker. Cover was successfully reestablished.
Wrentit nest with nestlings	P1C	5/5/11-5/6/11	VC	2 of 4 chicks lost	Undiscovered nest knocked over, nest replaced securely in nearby vegetation but adults had stopped feeding young when checked the following day; 2 of 4 chicks still alive when delivered to wildlife rescue facility (Ojai Raptor Center)
Wrentit nest with 4 eggs	SS-59	5/9/11	VC	All 4 eggs lost	Undiscovered nest weed whacked, all eggs broken
Wrentit nest with 4 eggs	SS-39	5/18/11 5/19/11	VC	Nest damaged then eggs lost	Undiscovered nest was damaged/tilted by foot traffic then was discovered empty the following day
Wrentit nest with 1 hatchling, 2 eggs (on 6/13)	P2K	6/13/11 6/14/11	VC	Cover around nest reduced, nest empty 1 day later	Cover reduced and clear-cut near undiscovered nest. Contents gone the following day.
California towhee nest with 3 eggs	SS-59	4/27/11	VC	Eggs found on ground after VC	Nest not located prior to or during VC and likely fell
California towhee nest with 1 nestling	SS-59	6/6/11	VC	Noise stress, possible early fledging	Female was stressed due to VC activity and was staying off nest with young nestling on 5/6 and on 5/9; parents may have induced young to leave nest early after crews left but fledgling was observed on 5/10 to be in good health.

Species/Resource	Survey Section	Date of impact	Associated project activity <sup>1</sup>	Impact	Description
California towhee nest with at least 1 egg	SS-59	5/12/11	VC	Cover reduced, later depredated	Cover around undiscovered nest greatly reduced on 5/12. Depredated by 5/16.
Song sparrow nest with 2 eggs	SS-51	5/26/11 6/8/11	GS	Nest and contents lost	Nest likely knocked over when mule walked through unsurveyed milk thistle patch, discovered later.
<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, SWSS=Surface Water and Sediment Sampling					

#### Fourth Quarter Clearance Surveys and Monitoring Results for Riparian Habitat

No activities except for foot traffic occurred in any riparian habitat during the monitoring period. Least Bell's Vireo habitat areas were restricted to all personnel except the approved biologist.

#### ANNUAL SUMMARY OF BIOLOGICAL MONITORING ACTIVITIES:

##### JULY 23, 2010, TO JUNE 30, 2011

Quarterly monitoring reports were prepared on October 22, 2010 (for the monitoring period July 22, 2010, to October 5, 2010), January 22, 2011 (for the monitoring period October 6, 2010, to January 6, 2011), and April 23, 2011 (for the monitoring period January 7, 2011, to April 6, 2011). This annual summary and the associated tables were derived from this document and the previous quarterly monitoring reports.

During the first year of project implementation, EPA was successful at keeping impacts to listed and sensitive species at very low levels and within compliance with the Biological Opinion. An annual summary of Federally protected resources found within the Study Area is shown in **Table 7**, and impacts are described in **Table 8**. Non-federally listed protected resources are summarized in **Table 9**, with impacts provided in **Table 10**. **Table 11** identifies impacts to riparian habitat in the Study Area. **Table 12** lists the active bird nests monitored near project activities, and **Table 13** identifies bird nests impacted during project activities.

**Table 7**  
**List of Federally Listed Resources Observed in Survey Sections from**  
**July 22, 2010 to June 30, 2011**

Species/Resource	Survey Sections	Subareas
<b>First Quarterly Monitoring Period (July 22, 2010 - October 5, 2010)</b>		
Braunton's milkvetch	SS-7, SS-10, SS-51, SS-58	5B, 5C, 5D South
<i>Dudleya</i> sp.	SS-4, SS-17, SS-19	5A, 5C, 6
Vernal pool branchiopod habitat	SS-7	5C

Species/Resource	Survey Sections	Subareas
<b>Second Quarterly Monitoring Period (October 6, 2010 – January 6, 2011)</b>		
Braunton's milkvetch	SS-7, SS-10, SS-51, SS-52, SS-58	5B, 5C, 5D South, 8 South
<i>Dudleya</i> sp.	SS-43, SS-44, SS-46, SS-48, SS-58	5D South, 8 South, 8 North
Vernal pool branchiopod habitat occupied by unidentified branchiopods	SS-7	5C
California Red-legged Frog potentially suitable habitat	SS-38, SS-43, SS-46, n/a	6, 8 North, NBZ-E
California Red-legged Frog Critical Habitat	SS-52	5D South
Coastal California Gnatcatcher habitat	SS-43, SS-48, SS-49, SS-51, SS-52, SS-58	5D South, 8 North, 8 South
Least Bell's Vireo habitat	SS-12	5B
<b>Third Quarterly Monitoring Period (January 7, 2011 – April 6, 2011)</b>		
Braunton's milkvetch	SS-10	5B
<i>Dudleya</i> sp.	SS-26, SS-28, SS-31, SS-32, SS-33, SS-34, SS-35, SS-38, SS-43, SS-46	6, 8 North
Occupied vernal pool branchiopod habitat (unidentified branchiopods)	SS-7, SS-17, NBZ-W	5A, 5C, NBZ-W
Suitable vernal pool branchiopod habitat	SS-15, SS-34	5A, 6
California Red-legged Frog suitable habitat	SS-34, SS-35, SS-38, SS-43, SS-46, SS-47	6, 8 North
Least Bell's Vireo habitat	SS-12, SS-26	5B, 6
Coastal California Gnatcatcher potential habitat	SS-39, SS-42, SS-43, SS-45, SS-46, SS-47	7, 8 North
<b>Fourth Quarterly Monitoring Period (April 7, 2011 – June 30, 2011)</b>		
Braunton's milkvetch	SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
Braunton's milkvetch Critical Habitat	SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
<i>Dudleya</i> sp.	SS-35, SS-39, P1E, P1F, P1I, P2K, P3T, P2O	6, 7, NBZ-W, NBZ-E
Occupied vernal pool branchiopod habitat (unidentified branchiopods)	SS-7	5C
Coastal California Gnatcatcher potential habitat	SS-42, SS-43, SS-46, SS-47, SS-48, SS-49, SS-51, SS-52, SS-58, SS-59, P1A, P1C, P1I, P2K, P2N, P2O, P3T	5D North, 5D South, 7, 8 North, 8 South, NBZ-W

**Table 8**  
**List of Federally Listed Resource Impacted from July 22, 2010 to June 30, 2011**

Species/Resources	Survey Section	Date Recorded	Associated Project Activity <sup>1</sup>	Impact	Description
<b>First Quarterly Monitoring Period (July 22, 2010 - October 5, 2010)</b>					
Braunton's milkvetch	SS-51	9/24/10	VC	Uprooted	Growing in clump of 4 milkvetch, plant was not flagged but surrounding ones were flagged.
Braunton's milkvetch	SS-51	9/24/10	VC	Stem cut	1 foot from toyon stem clump, milkvetch stem mistaken for toyon stem.
Braunton's milkvetch	SS-51	9/24/10	VC	Damaged root base	Stem nudged by skidster hauling cut material. Still standing but wobbly. May fall in high winds or rain.
Braunton's milkvetch	SS-51	9/28/10	VC	Damaged	Large branch torn away from main stem.
Braunton's milkvetch	SS-51	10/1/10	VC	Damaged	Badly damaged on lower main stem (likely from weed whacker).
Vernal pool branchiopod habitat	SS-7	7/29/10	GS	Soil disturbed by hoof prints.	Mule made one pass through a portion of the vernal pool during dry conditions. Minor soil disturbance.
<b>Second Quarterly Monitoring Period (October 6, 2010 – January 6, 2011)</b>					
Braunton's milkvetch	SS-10	12/3/10*	SS or GS*	Damaged	One main branch bent over. *Date and cause of damage not known.
Braunton's milkvetch	SS-51	11/5/10-11/15/10	VC	Damaged or knocked down	Branches damaged or older brittle plants knocked down.
Braunton's milkvetch	SS-52	11/17/10-11/22/10	VC	Damaged or knocked down	Branches damaged or older brittle plants knocked down.
Braunton's milkvetch	SS-58	10/12/10	VC	Cut	One plant inadvertently cut at base of stem.
Braunton's milkvetch	SS-58	10/18/10, 11/4/10	VC	Damaged or bent	Plants sustained some branch damage, most are older individuals with little to no fresh leaf growth.
Braunton's milkvetch Critical Habitat Unit 1d	SS-51 SS-52	October 2010	VC	Trimmed	Most unprotected plant species trimmed to 6"



Species/Resources	Survey Section	Date Recorded	Associated Project Activity <sup>1</sup>	Impact	Description
	SS-58	through January 2011			above ground except trees and some large shrubs.
<b>Third Quarterly Monitoring Period (January 7, 2011 – April 6, 2011)</b>					
No Resources Impacted.					
<b>Fourth Quarterly Monitoring Period (April 7, 2011 – June 30, 2011)</b>					
Braunton's milkvetch	SS-58	5/25/11	GS	1 plant damaged	1 mature plant damaged by mule but still standing
Braunton's milkvetch	SS-49	5/26/11	GS	2 plants damaged	2 seedlings run over by TMGS but still standing
Braunton's milkvetch	SS-52	5/26/11	GS	2 plants damaged	1 large and 1 small milkvetch damaged by mule, still standing
Braunton's milkvetch	SS-59	5/26/11	VC	2 plants destroyed	1 plant hit with weed whacker, 1 stepped on
Braunton's milkvetch	SS-51 SS-52	5/31/11	GS	2 plants damaged	2 mature plants damaged by mule, still standing
Braunton's milkvetch	SS-52	6/1/11	GS	3 plants damaged	3 mature milkvetch damaged by mule, still standing
Braunton's milkvetch	SS-49	6/9/11	GS	2 small plants damaged	Plants slightly bent after contact with TMGS, still standing

**Table 9****List of Non-federally listed Resources Observed from July 22, 2010 to June 30, 2011**

Species/Resource	Survey Section	Subarea
<b>First Quarterly Monitoring Period (July 22, 2010 - October 5, 2010)</b>		
Santa Susana tarplant	SS-7, SS-9, SS-10, SS-14, SS-15, SS-16, SS-17, SS-18, SS-19	5A, 5B, 5C, 6
Malibu baccharis	SS-51	5D South
Southern California black walnut	SS-51	5D South
Coast horned lizard	SS-51, SS-113	5D South
Mourning dove active nest	SS-19	5A
Loggerhead shrike (non-nesting)	SS-54	5D North
Riparian area	SS-1, SS-12	5B, 5C
<b>Second Quarterly Monitoring Period (October 6, 2010 – January 6, 2011)</b>		
Santa Susana tarplant	SS-43, SS-44, SS-48, SS-58	8 North, 8 South
Calochortus sp. (likely Plummer's)	SS-49, SS-51	5D South, 8 South

<b>Species/Resource</b>	<b>Survey Section</b>	<b>Subarea</b>
Malibu baccharis	SS-49, SS-51, SS-52, SS-58	5D South, 8 South
Southern California black walnut	SS-48, SS-49, SS-50, SS-51, SS-52, SS-58	5D South, 8 South
Coast horned lizard	SS-49, SS-51, SS-58	5D South, 8 South
Loggerhead shrike (non-nesting)	SS-15, SS-54	5A, 5D North
Southern California Rufous-crowned sparrow	n/a	NBZ-E
Riparian area	SS-1, SS-12	5B, 5C
<b>Third Quarterly Monitoring Period (January 7, 2011 – April 6, 2011)</b>		
Santa Susana tarplant	SS-9, SS-13, SS-14, SS-15, SS-16, SS-17, SS-18, SS-27, SS-28, SS-31, SS-32, SS-33, SS-34, SS-35, SS-36, SS-37, SS-38, SS-39, SS-42, SS-43, SS-44, SS-104	5A, 5B, 6, 7, 8 North
Potentially special-status mariposa lilies	SS-32, SS-34, SS-35, SS-38, SS-39, SS-42, SS-43	3, 6, 7, 8 North
Southern California black walnut	SS-48, SS-50	8 South, 8 North
Cooper's hawk	SS-39, SS-42, SS-43, SS-50	7, 8 North
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 (likely same individual)	6
Loggerhead shrike	SS-19, SS-38	5A, 6
Southern California rufous-crowned sparrow	SS-38, NBZ-E	6, NBZ-E
Riparian area	SS-12, SS-26, SS-27, SS-35, SS-38, SS-43	5B, 6, 8 North
<b>Fourth Quarterly Monitoring Period (April 7, 2011 – June 30, 2011)</b>		
Santa Susana tarplant	SS-31, SS-35, SS-39, SS-41, SS-42, SS-44, SS-49, SS-58, SS-59, P1D, P1E, P1F, P1J, P1I, P2K, P2O, P3T	3, 6, 7, 5D South, NBZ-E, NBZ-W
Malibu baccharis	SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
Potential special-status mariposa lilies	SS-35, SS-38, SS-39, SS-42, SS-51, SS-52, SS-58, SS-59, P1I, P2K, P3T, P2O	6, 7, 5D South, NBZ-W
Catalina mariposa lily	SS-58, P1I	5D South, NBZ-W
Plummer's mariposa lily	SS-35, P1E, P1F, P1J	6, NBZ-E
Southern California black walnut	SS-48, SS-49, SS-51, SS-52, SS-58, SS-59	5D South, 8 South
Coast horned lizard	SS-32, SS-35, SS-49, SS-51, SS-58, SS-59	3, 6, 5D South, 8 South

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

Species/Resource	Survey Section	Subarea
Nesting birds	SS-38, SS-39, SS-42, SS-43, SS-44, SS-47, SS-49, SS-51, SS-52, SS-55, SS-56, SS-58, SS-59, P1A, P1C, P1D, P1E, P1F, P1I, P1J, P2K, P3W, P3X	6, 5D North, 5D South, 8 North, 8 South, NBZ-E, NBZ-W
Cooper's hawk	SS-39, SS-59	5D South, 7
Golden eagle nest and nest buffer	SS-35, SS-39, P1D, P1E, P1F, P3W, P3X	6, 7, NBZ-E
Lewis's woodpecker	SS-34, SS-36, (likely same individual)	6
Oak titmouse	throughout Study Area	All
Southern California rufous-crowned sparrow	SS-39, SS-59, P1D, P1E, P1F	5D South, 7, NBZ-E

**Table 10**

**List of Non-federally Listed Resources Impacted from July 22, 2010 to June 30, 2011  
(excludes non-special status nesting birds)**

Species/Resource (# impacted)	Survey Section	Date recorded	Associated project activity <sup>1</sup>	Impact	Description
<b>First Quarterly Monitoring Period (July 22, 2010 - October 5, 2010)</b>					
Santa Susana tarplant (1)	SS-51	9/24/10	VC	Destroyed	Small individual growing in pavement cracks in previously disturbed road at SS-17.
Santa Susana tarplant (2)	SS-51	9/24/10	VC	Damaged	Two large plants covered in mulch. Biologist brushed some off. Winter rains may wash rest away.
Malibu baccharis (10-15)	SS-51	(various)	VC	Trimmed	No plants have been completely lost but some have been trimmed back by weed whackers when not properly flagged ahead of time.
Southern California black walnut (~40)	SS-51	(various)	VC	Trimmed	Many resprouts from 2005 fire have been trimmed to accommodate scanning equipment.
Coast horned lizard	SS-51, SS-58	(various)	VC	Relocated	Relocated to other Survey Sections or outside Area IV.

**ANNUAL BIOLOGICAL MONITORING REPORT**

*July 2010 – June 2011*

<b>Species/Resource (# impacted)</b>	<b>Survey Section</b>	<b>Date recorded</b>	<b>Associated project activity<sup>1</sup></b>	<b>Impact</b>	<b>Description</b>
<b>Second Quarterly Monitoring Period (October 6, 2010 – January 6, 2011)</b>					
Santa Susana tarplant (1)	SS-43	10/22/10	VC	Trampled/ uprooted	Small clump along only footpath into area. 1 plant lost.
Malibu baccharis (13)	SS-58	10/14/10- 10/18/10	VC	Damaged	Plants trimmed and/or uprooted inadvertently.
Malibu baccharis (10)	SS-51	11/9/10- 11/10/10	VC	Damaged	Plants damaged by nearby brush removal.
Malibu baccharis (6)	SS-52	11/17/10- 11/22/10	VC	Trimmed	Plants trimmed inadvertently.
Malibu baccharis (72)	SS-49	12/1/10- 1/4/10	VC	Trimmed/ Damaged	Some plants inadvertently trimmed back or damaged during brush removal. Majority of these plants still alive and well rooted.
Southern California black walnut (3)	SS-48	Oct-Dec	VC	Trimmed	Mature trees trimmed.
Southern California black walnut (2)	SS-49	Oct-Dec	VC	Trimmed	Mature trees trimmed.
Southern California black walnut (~20)	SS-51	Oct-Dec	VC	Trimmed	Resprouts from 2005 fire trimmed.
Southern California black walnut (6)	SS-52	Nov-Dec	VC	Trimmed	Resprouts from 2005 fire trimmed.
Southern California black walnut (~30)	SS-58	Oct-Dec	VC	Trimmed	Resprouts from 2005 fire trimmed.
Coast horned lizard (1)	SS-49	12/8/10	VC	Relocated nearby	Adult relocated 30 feet away, off SS-49 in similar habitat.
Coast horned lizard (2)	SS-51	11/5/10	VC	Held temporarily	2 juveniles held and then released at end of day in same location.
Coast horned lizard (1)	SS-51	11/9/10	VC	Held temporarily	1 juvenile held and then released at end of day in same location.
Coast horned lizard (1)	SS-58	10/14/10	VC	Relocated nearby	Adult relocated nearby, off Area IV in similar habitat.
Coast horned lizard (3)	SS-58	10/26/10	VC	Relocated nearby	2 adults and 1 juvenile relocated nearby, in similar habitat.
Coast horned lizard (4)	SS-58	11/4/10	VC	Relocated nearby	4 juveniles relocated nearby, off Area IV in similar habitat.

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

**ANNUAL BIOLOGICAL MONITORING REPORT**

*July 2010 – June 2011*

<b>Species/Resource (# impacted)</b>	<b>Survey Section</b>	<b>Date recorded</b>	<b>Associated project activity<sup>1</sup></b>	<b>Impact</b>	<b>Description</b>
<b>Third Quarterly Monitoring Period (January 7, 2011 – April 6, 2011)</b>					
Santa Susana tarplant (1)	SS-9	1/20/11	SS	Destroyed	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.
<b>Fourth Quarterly Monitoring Period (April 7, 2011 – June 30, 2011)</b>					
Santa Susana tarplant (1 plant)	SS-42	5/18/11	GS	Destroyed	Impact occurred at least several weeks ago and was not documented/monitored at the time. Likely impacted by work trucks or ERGS.
Malibu baccharis (2 plants)	SS-58	5/11/11	GS	Damaged	Run over with ERGS
Malibu baccharis (1 plant)	SS-49	5/16/11	GS	Damaged	Plant damaged by TMGS, will survive
Malibu baccharis (1 plant)	SS-51	5/16/11	VC	Damaged	Plant damaged with weed whacker, still alive
Malibu baccharis (5 plants)	SS-51	5/16/11	GS	Damaged	Plants damaged by mule, still alive
Malibu baccharis (5 plants)	SS-51	5/26/11	GS	Damaged	Plants damaged by mule, still alive
Malibu baccharis (1 plant)	SS-26	5/26/11	VC	Damaged	Plant damaged by weed whacker
Malibu baccharis (7 plants)	SS-49	6/2/11	GS	Damaged/ Destroyed	4 plants slightly damaged and 3 plants uprooted by TMGS
Non-flowering mariposa lily (1 plant)	SS-39	4/7/11	GS	Damaged	1 small non-flowering lily run over with TMGS
Non-flowering mariposa lily (4 plants)	SS-59	5/3/11	VC	Damaged	Run over with ERGS
Non-flowering mariposa lily (4 plants)	SS-58	5/11/11	GS	Damaged	Run over with ERGS
Southern California black walnut (~30 trees)	SS-51, SS-52, SS-59	April-June	VC	Trimmed	Mature trees trimmed and some trees with girths less than 3" were trimmed to ground, in accordance with Ventura County trimming guidelines

Species/Resource (# impacted)	Survey Section	Date recorded	Associated project activity <sup>1</sup>	Impact	Description
Coast horned lizard (1 lizard)	SS-59	5/2/11	VC	Relocated	Moved 400 feet away along property boundary
Coast horned lizard (3 lizards)	SS-49	5/9/11	GS	Relocated	Moved nearby to safe location
Coast horned lizard (3 lizards)	SS-58 SS-59	5/11/11	GS	Relocated	Moved < 100 ft away from ERGS activity
Coast horned lizard (3 lizards)	SS-58	5/11/11	VC	Relocated	Moved away from scheduled VC activity
Coast horned lizard (1 lizard)	SS-59	5/23/11	VC	Relocated	Moved away from vegetation removal zone
Coast horned lizard (1 lizard)	SS-59	5/24/11	VC	Relocated	Moved away from vegetation removal zone
Coast horned lizard (1 lizard)	SS-49	5/26/11	VC	Relocated	Moved 50 feet away, past Area IV fence
Coast horned lizard (1 lizard)	SS-59	5/27/11	VC	Relocated	Moved away from vegetation removal zone
Coast horned lizard (1 lizard)	SS-49	6/1/11	GS	Relocated	Moved out of harm's way
Coast horned lizard (1 lizard)	SS-58	6/1/11	GS	Relocated	Moved out of harm's way
Southern California rufous-crowned sparrow nest with 3 eggs	SS-39	4/21/11	VC	Cover reduced but nestlings fledged successfully	Undiscovered nest exposed by weed whacker. Cover was successfully reestablished.
California towhee	SS-50	5/3/11	SS	Injured/stressed after caught in glue mouse trap	Biologist removed all glue and bird appeared exhausted but okay.

<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, SWSS=Surface Water and Sediment Sampling

**Table 11****Activities Conducted with Monitoring within Riparian Habitat from July 22, 2010 to June 30, 2011**

Location	Description	Description of Activities Performed <sup>1</sup>	Significant Impacts
<b>First Quarterly Monitoring Period (July 22, 2010 - October 5, 2010)</b>			
SS-1	500' long by 3-6' wide	VC, GS (mule)	None
SS-1	200' long by 3-6' wide	VC, GS (mule)	None
SS-1	235' long by 3-6' wide	VC, GS (mule)	None
SS-12	450' long by 3-6' wide	VC, GS (mule)	None

Location	Description	Description of Activities Performed <sup>1</sup>	Significant Impacts
<b>Second Quarterly Monitoring Period (October 6, 2010 – January 6, 2011)</b>			
SS-1	500' long by 3-6' wide	GP, SS	None
SS-1	200' long by 3-6' wide	GP, SS	None
SS-1	235' long by 3-6' wide	GP, SS	None
SS-12	450' long by 3-6' wide	VC, GS (mule)	None
SS-38	Ephemeral freshwater wetland (15' long by 15' wide)	SWSS	None
SS-43	Lined collection basin (30' long by 40' wide)	VC	None
SS-46	Lined collection basin (30' long by 40' wide)	VC	None
NBZ-E	Bedrock-lined ephemeral creek	SWSS	None
<b>Third Quarterly Monitoring Period (January 7, 2011 – April 6, 2011)</b>			
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	None
SS-27	550' long by 3' wide; grassland with a few shrubs along banks	VC, GP, GS	None
SS-38	250' long by 3-6' wide; bedrock-lined drainage basin in chaparral	VC, GP, GS	None
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	None
<b>Fourth Quarterly Monitoring Period (April 7, 2011 – June 30, 2011)</b>			
No activities conducted within Riparian Habitat.			
<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, SWSS=Surface Water and Sediment Sampling			

**Table 12****List of Active Bird Nests Monitored in the Study Area from July 22, 2010 to June 30, 2011**

Common Name	Survey Section	Subarea	Date Recorded	Impacts
<b>First Quarterly Monitoring Period (July 22, 2010 - October 5, 2010)</b>				
Mourning dove	SS-19	5A	9/8/2010	See Table 13
<b>Second Quarterly Monitoring Period (October 6, 2010 – January 6, 2011)</b>				
No active bird nests observed.				
<b>Third Quarterly Monitoring Period (January 7, 2011 – April 6, 2011)</b>				
Golden eagle	P3W/P1D/P1E	NBZ-E	2/9/2011	None
Bushtit	SS-35	6	2/14/2011	None
Bushtit	SS-38	6	2/18/2011	None

**ANNUAL BIOLOGICAL MONITORING REPORT**

*July 2010 – June 2011*

<b>Common Name</b>	<b>Survey Section</b>	<b>Subarea</b>	<b>Date Recorded</b>	<b>Impacts</b>
Bushtit	P3V	NBZ-W	2/23/2011	None
Bushtit	SS-42	7	3/4/2011	None
Common raven	P1C	NBZ-W	3/4/2011	None
Bushtit	SS-38	6	3/15/2011	None
Bushtit	SS-32	6	3/15/2011	None
Bushtit	P1C	NBZ-W	3/16/2011	None
Western scrub-jay	SS-17	5A	3/16/2011	None
Bushtit	SS-34	6	3/17/2011	None
Red-winged blackbird	SS-55	5D North	3/21/2011	None
Red-winged blackbird	SS-55	5D North	3/21/2011	None
Red-winged blackbird	SS-55	5D North	3/21/2011	None
Red-winged blackbird	SS-55	5D North	3/21/2011	None
Bushtit	SS-43	8 North	3/23/2011	None
Mourning dove	SS-43	8 North	3/25/2011	Predation of eggs after tree partially trimmed. Trimming work conducted outside of biologically cleared area.
Bushtit	SS-38	6	3/31/2011	None
Bewick's wren	SS-35	6	3/31/2011	None
Bushtit	SS-18	6	3/31/2011	None
Bushtit	SS-35	6	4/6/2011	None
<b>Fourth Quarterly Monitoring Period (April 7, 2011 – June 30, 2011)</b>				
Golden eagle	P3W/P1D/P1E	NBZ-E	2/9/11	None
Western scrub-jay	SS-17	5A	4/11/11	None
Bushtit	SS-39	7	4/11/11	None
Bushtit	SS-39	7	4/11/11	None
California thrasher	SS-39	7	4/12/11	None
Cliff swallow	P1C	NBZ-W	4/12/11	None
Western scrub-jay	SS-39	7	4/13/11	None
Song sparrow	SS-39	7	4/21/11	None
Rufous-crowned sparrow	SS-39	7	4/21/11	See Table 10
Wrentit	SS-39	7	4/22/11	None
Anna's hummingbird	SS-39	7	4/22/11	None
House wren	SS-59	5D South	4/26/11	None
Song sparrow	SS-59	5D South	4/26/11	None
Song sparrow	SS-59	5D South	4/26/11	None
Western scrub-jay	SS-59	5D South	4/26/11	None
Lesser goldfinch	SS-59	5D South	4/27/11	None
Wrentit	SS-59	5D South	4/27/11	None

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



**ANNUAL BIOLOGICAL MONITORING REPORT**

*July 2010 – June 2011*

<b>Common Name</b>	<b>Survey Section</b>	<b>Subarea</b>	<b>Date Recorded</b>	<b>Impacts</b>
California towhee	SS-59	5D South	4/28/11	None
California towhee	SS-59	5D South	4/28/11	None
Lazuli bunting	SS-59	5D South	5/3/11	None
Wrentit	SS-59	5D South	5/3/11	None
California towhee	SS-59	5D South	5/4/11	None
House finch	SS-58	5D South	5/4/11	None
Lesser goldfinch	SS-59	5D South	5/4/11	None
California towhee	P1C	NBZ-W	5/5/11	None
Wrentit	P1C	NBZ-W	5/5/11	See Table 13
Lesser goldfinch	SS-39	7	5/6/11	None
Bewick's wren	SS-59	5D South	5/9/11	None
Blue grosbeak	SS-59	5D South	5/9/11	None
California towhee	SS-59	5D South	5/9/11	None
Song sparrow	SS-59	5D South	5/9/11	None
Wrentit	SS-59	5D South	5/9/11	None
Song sparrow	SS-48	8 South	5/10/11	None
Bewick's wren	SS-59	5D South	5/10/11	None
Blue-gray gnatcatcher	SS-58	5D South	5/11/11	None
California towhee	SS-43	8 North	5/12/11	None
California towhee	SS-43	8 North	5/12/11	None
California towhee	SS-59	5D South	5/12/11	See Table 13
California towhee	SS-59	5D South	5/13/11	None
California towhee	SS-51	8 South	5/13/11	None
California towhee	SS-51	5D South	5/13/11	None
California towhee	SS-51	5D South	5/13/11	None
House wren	SS-52	8 South	5/13/11	None
Lesser goldfinch	SS-51	8 South	5/13/11	None
Lesser goldfinch	SS-51	8 South	5/13/11	None
Oak titmouse	SS-51	8 South	5/13/11	None
Song sparrow	SS-51	8 South	5/13/11	None
California towhee	SS-51	5D South	5/13/11	None
California towhee	SS-59	5D South	5/16/11	None
Song sparrow	SS-39	7	5/18/11	None
Lesser goldfinch	SS-39	7	5/18/11	None
California thrasher	SS-39	7	5/18/11	None
Wrentit	SS-39	7	5/18/11	See Table 13
Spotted towhee	SS-39	7	5/18/11	None
House wren	SS-51	5D South	5/18/11	None
House wren	SS-51	5D South	5/18/11	None
House wren	SS-51	8 South	5/18/11	None

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

**ANNUAL BIOLOGICAL MONITORING REPORT**

*July 2010 – June 2011*

<b>Common Name</b>	<b>Survey Section</b>	<b>Subarea</b>	<b>Date Recorded</b>	<b>Impacts</b>
Oak titmouse	SS-51	8 South	5/18/11	None
Song sparrow	SS-51	8 South	5/18/11	None
Song sparrow	SS-51	8 South	5/18/11	None
Oak titmouse	SS-51	8 South	5/18/11	None
California towhee	SS-39	7	5/19/11	None
House wren	P1C	NBZ-W	5/19/11	None
California towhee	SS-44	8 North	5/19/11	None
Cliff swallow	SS-44	8 North	5/19/11	None
Cliff swallow	SS-44	8 North	5/19/11	None
Cliff swallow	SS-44	8 North	5/19/11	None
Lesser goldfinch	SS-51	5D South	5/20/11	None
Spotted towhee	SS-51	8 South	5/20/11	None
California towhee	SS-51	5D South	5/23/11	None
Lesser goldfinch	SS-51	5D South	5/24/11	None
California towhee	SS-52	5D South	5/24/11	None
Lesser goldfinch	SS-52	8 South	5/24/11	None
Lesser goldfinch	SS-52	8 South	5/26/11	None
House finch	SS-58	5D South	5/26/11	None
California towhee	SS-59	5D South	5/27/11	See Table 13
California quail	P1E	NBZ-E	5/31/11	None
Rufous-crowned sparrow	P1E	NBZ-E	5/31/11	None
Lark sparrow	SS-51	8 South	5/31/11	None
Phainopepla	SS-51	8 South	5/31/11	None
California towhee	SS-49	8 South	6/1/11	None
Lark sparrow	SS-49	8 South	6/1/11	None
Lark sparrow	SS-49	8 South	6/1/11	None
Spotted towhee	SS-39	7	6/2/11	None
Mourning dove	SS-59	5D South	6/2/11	None
Lark sparrow	SS-49	8 South	6/2/11	None
Lazuli bunting	SS-59	5D South	6/3/11	None
Ash-throated flycatcher	P1I	NBZ-W	6/3/11	None
Common poorwill	SS-52	8 South	6/6/11	None
Lark sparrow	SS-51	8 South	6/7/11	None
Lark sparrow	SS-49	8 South	6/7/11	None
Lark sparrow	SS-49	8 South	6/7/11	None
Lesser goldfinch	SS-49	8 South	6/7/11	None
House wren	SS-58	5D South	6/8/11	None
House finch	SS-58	5D South	6/8/11	None
Song sparrow	SS-58	5D South	6/8/11	None
Costa's hummingbird	SS-58	5D South	6/8/11	None

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

Common Name	Survey Section	Subarea	Date Recorded	Impacts
California towhee	SS-52	8 South	6/8/11	None
Wrentit	P1I	NBZ-W	6/9/11	None
Acorn woodpecker	SS-31	6	6/9/11	None
House wren	P1I	NBZ-W	6/10/11	None
California towhee	P1I	NBZ-W	6/10/11	None
California towhee	SS-59	5D South	6/10/11	None
California towhee	P2O	NBZ-W	6/13/11	None
Wrentit	P2K	NBZ-W	6/13/11	See Table 13
California towhee	P1F	NBZ-E	6/14/11	None
Lesser goldfinch	P1F	NBZ-E	6/14/11	None
California towhee	P1J	NBZ-E	6/14/11	None
White-throated swift	P1J	NBZ-E	6/14/11	None
Phainopepla	P1J	NBZ-E	6/14/11	None
Song sparrow	SS-55	5D North	6/15/11	None
Song sparrow	SS-55	5D North	6/15/11	None
Blue grosbeak	SS-51	5D South	6/15/11	None
Blue grosbeak	SS-56	5D North	6/16/11	None
Northern mockingbird	SS-46	8 North	6/16/11	None
Violet-green swallow	SS-42	5D North	6/20/11	None
Lazuli bunting	SS-56	5D North	6/21/11	None
California quail	P1F	NBZ-E	6/21/11	None
Wrentit	P1D	NBZ-E	6/24/11	None

Does not include undiscovered active nests that were found after having been lost during project activities. All impacted nests are described in Tables 10 and 13.

**Table 13****List of Nesting Birds Impacted from July 22, 2010 to June 30, 2011**

Species/Resource	Survey Section	Date of impact	Associated project activity <sup>1</sup>	Impact	Description
<b>First Quarterly Monitoring Period (July 22, 2010 - October 5, 2010)</b>					
Mourning dove	SS-19	9/28/2010	VC	Possibly predated	Vegetative cover around nest reduced, possibly predated thereafter
<b>Second Quarterly Monitoring Period (October 6, 2010 – January 6, 2011)</b>					
No nesting birds impacted.					
<b>Third Quarterly Monitoring Period (January 7, 2011 – April 6, 2011)</b>					
Mourning dove	SS-43	3/25/2011	VC	Possibly predated	Vegetative cover around nest reduced, possibly predated thereafter

Species/Resource	Survey Section	Date of impact	Associated project activity <sup>1</sup>	Impact	Description
<b>Fourth Quarterly Monitoring Period (April 7, 2011 – June 30, 2011)</b>					
Southern California rufous-crowned sparrow nest with 3 eggs	SS-39	4/21/11	VC	Cover initially reduced but nestlings fledged successfully	Undiscovered nest exposed by weed whacker. Cover was successfully reestablished.
Wrentit nest with nestlings	P1C	5/5/11-5/6/11	VC	2 of 4 chicks lost	Undiscovered nest knocked over, nest replaced securely in nearby vegetation but adults had stopped feeding young when checked the following day; 2 of 4 chicks still alive when delivered to wildlife rescue facility (Ojai Raptor Center).
Wrentit nest with 4 eggs	SS-59	5/9/11	VC	All 4 eggs lost	Undiscovered nest weed whacked, all eggs broken.
Wrentit nest with 4 eggs	SS-39	5/18/11 5/19/11	VC	Nest damaged then eggs lost	Undiscovered nest was damaged/tilted by foot traffic then was discovered empty the following day.
Wrentit nest with 1 hatchling, 2 eggs (on 6/13)	P2K	6/13/11 6/14/11	VC	Cover around nest reduced, nest empty 1 day later	Cover reduced and clear-cut near undiscovered nest. Contents gone the following day.
California towhee nest with 3 eggs	SS-59	4/27/11	VC	Eggs found on ground after VC	Nest not located prior to or during VC and likely fell.
California towhee nest with 1 nestling	SS-59	6/6/11	VC	Noise stress, possible early fledging	Female was stressed due to VC activity and was staying off nest with young nestling on 5/6 and on 5/9; parents may have induced young to leave nest early after crews left but fledgling was observed on 5/10 to be in good health.
California towhee nest with at least 1 egg	SS-59	5/12/11	VC	Cover reduced, later depredated	Cover around undiscovered nest greatly reduced on 5/12. Depredated by 5/16.

Species/Resource	Survey Section	Date of impact	Associated project activity <sup>1</sup>	Impact	Description
Song sparrow nest with 2 eggs	SS-51	5/26/11 6/8/11	GS	Nest and contents lost	Nest likely knocked over when mule walked through unsurveyed milk thistle patch, discovered later.
<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, SWSS=Surface Water and Sediment Sampling					

Approximately 77 Braunton's milkvetch (*Astragalus brauntonii*) have been impacted, mostly in the form of damaged branches to mature plants. Many new plants have been documented in recently cut areas. Project activities were conducted in the Braunton's milkvetch Critical Habitat Unit 1d, but the Primary Constituent Habitat components were not adversely affected. Four vernal pools were found to be occupied by unidentified branchiopods. Under dry conditions, one vernal pool was subjected to minor damage from mule hoof prints when the mule was accidentally guided through the pool, making only one pass.

Impacts to non-Federally listed species or critical habitat were as follows:

- 8 Santa Susana tarplants (*Deinandra minthornii*) were either damaged or destroyed by equipment during project activities.
- Approximately 138 Malibu baccharis (*Baccharis malibuensis*) were damaged or uprooted in a portion of the study area where the plant is very common and is even the codominant species with chamise (*Adenostoma fasciculatum*) in one stand.
- 9 potentially sensitive non-flowering mariposa lilies were damaged.
- Approximately 131 southern California black walnuts consisting of mature trees as well as smaller individuals still resprouting from the 2005 Topanga Fire were trimmed in accordance with the Ventura County Trimming Ordinance. This total is biased high because many of the same trees were trimmed during 2010 and 2011 and recounted.
- 29 coast horned lizards (*Phrynosoma coronatum*) have been either held temporarily or relocated nearby out of harm's way, while many more have been encountered but not relocated due to no immediate potential for harm.
- 20 ephemeral riparian areas were selectively trimmed to the minimum amount necessary to allow gamma scanning equipment to enter the areas.
- One protected migratory bird, a California towhee (*Melospiza crissalis*), was injured after being caught in a glue-type mouse trap located in a piece of equipment and was cleaned and released by the biologist.
- A total of 11 protected migratory bird nests were impacted by EPA activities, although not all were lost.
  - Vegetative cover around 1 southern California rufous-crowned sparrow nest with 3 eggs was temporarily reduced, but the cover was restored and the young were able to eventually fledge from the nest successfully.
  - Vegetative cover around 2 mourning dove (*Zenaida macroura*) nests was reduced and the nests were later found empty, although predation was not confirmed at one of the nests.
  - 4 wrentit (*Chamaea fasciata*) nests, 2 California towhee nest, and one song sparrow (*Melospiza melodia*) nest were either directly damaged and lost or experienced reduced

cover due to EPA activities and were later depredated. However, 2 of the 4 nestlings in one of the wrenit nests described above were successfully raised and released by a wildlife rescue facility. One California towhee nestling may have fledged early due to excessive disturbances by project activities but was later found to be in good condition and tended by its parents.

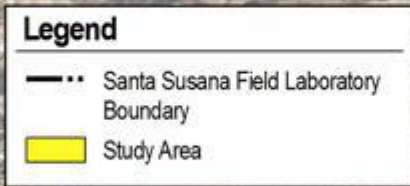
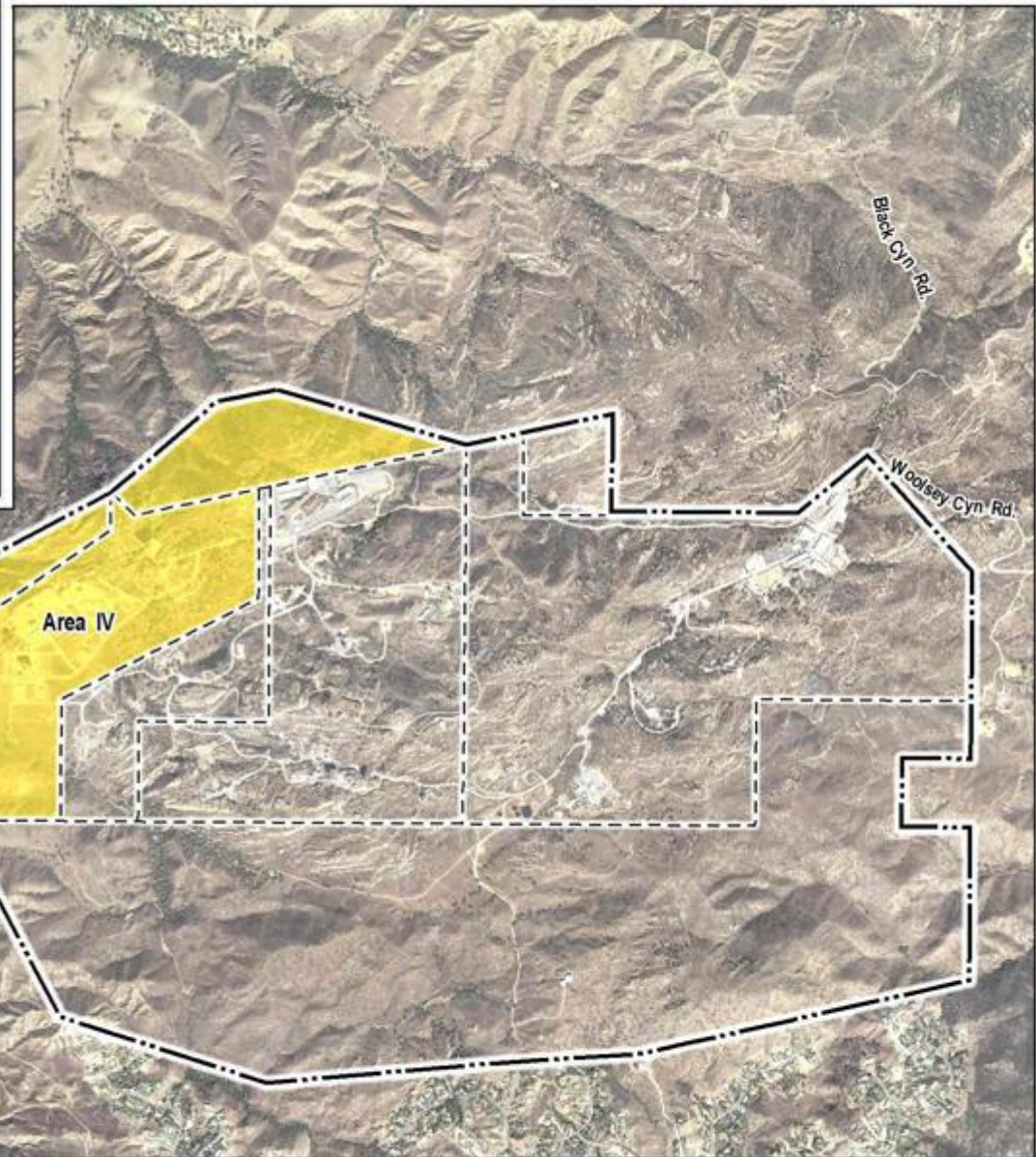
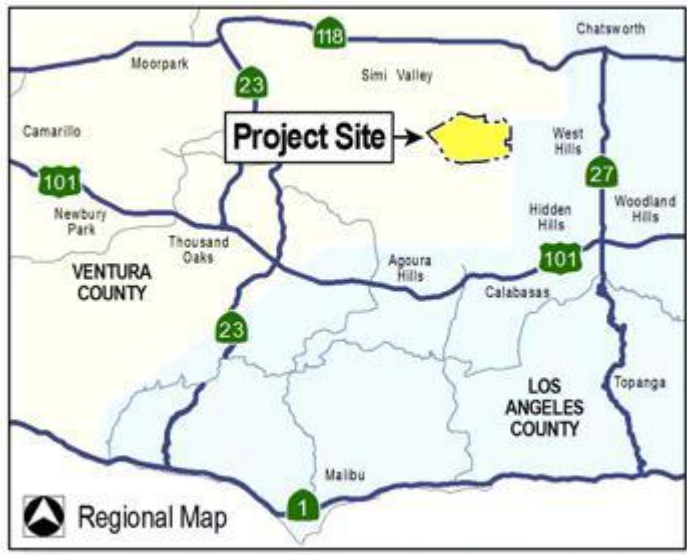
## **ISSUES ENCOUNTERED AND ADAPTIVE MANAGEMENT**

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. However, EPA has implemented more robust measures to protect nesting birds than those referenced in AMM VC-1. Due to the significant potential impacts to nesting birds created by the vegetation-clearing component of the project, EPA has determined that nesting bird surveys should be conducted no more than 3 to 5 days before vegetation cutting activities begin because birds can build nests and lay eggs in a few days if undisturbed by human activity (such as during a weekend break in project activity). Other project activities can also impact nesting birds by physically damaging the nest contents by crushing ground nests or damaging nests located in herbaceous annuals and low-hanging branches or shrubs. The visual, noise, and vibration disturbances may disrupt parental activity (such as the thermoregulation of eggs/hatchlings or the feeding of young) or cause parents to abandon nests entirely. Therefore, biological monitors are provided at least 24 to 48 hours notice to allow sufficient time to complete a thorough survey for nests before vegetation cutting or other activities are conducted. Wherever possible, EPA has conducted clearance surveys and monitoring for all project activities that have a reasonable potential to impact nesting birds.

EPA considers all other terms and conditions in the Biological Opinion to enhance the protection of Federally listed and State-Listed/Sensitive species to be adequate based on the project implementation to date.

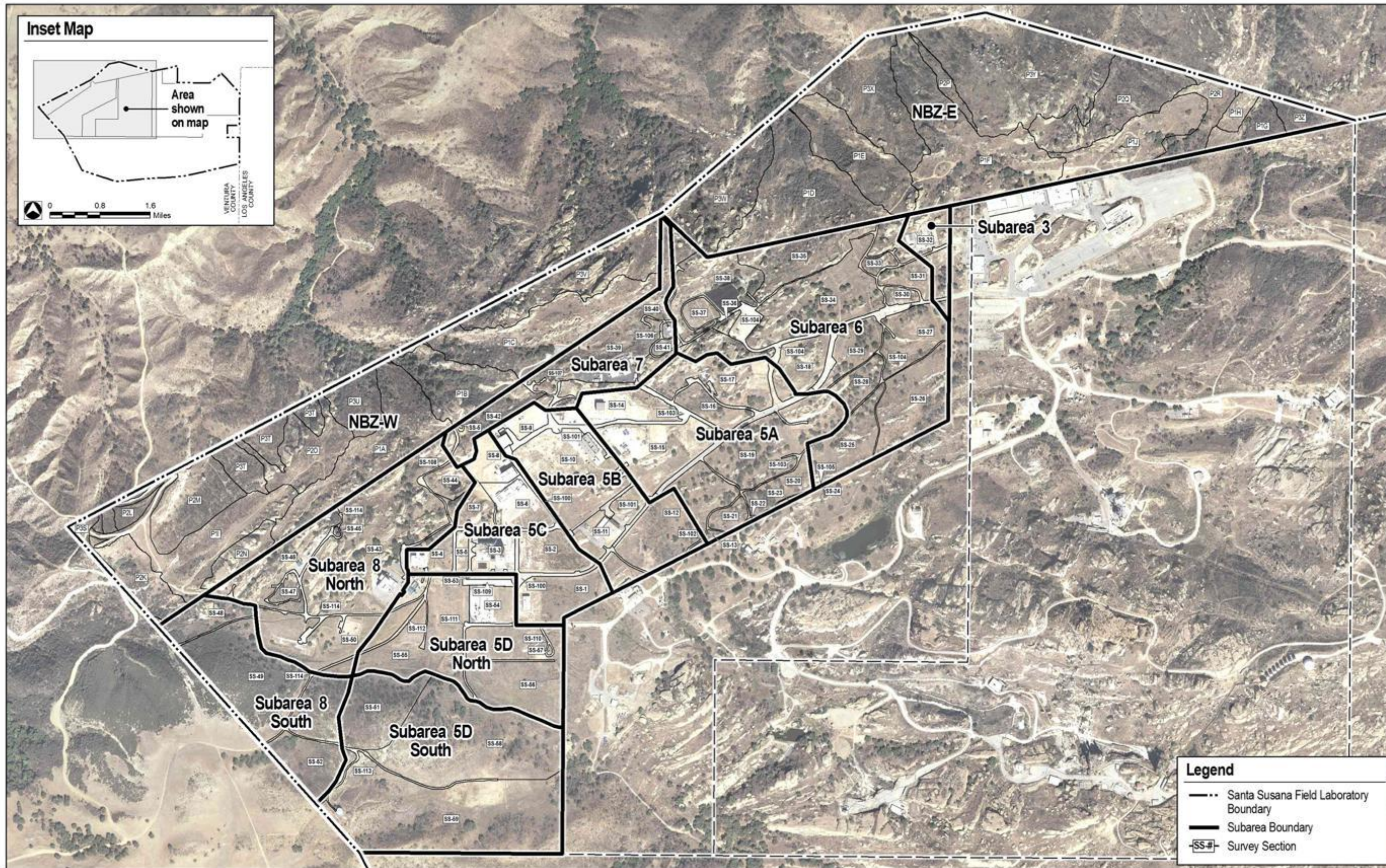
**APPENDIX 1**

**FIGURES AND PHOTO PLATES**

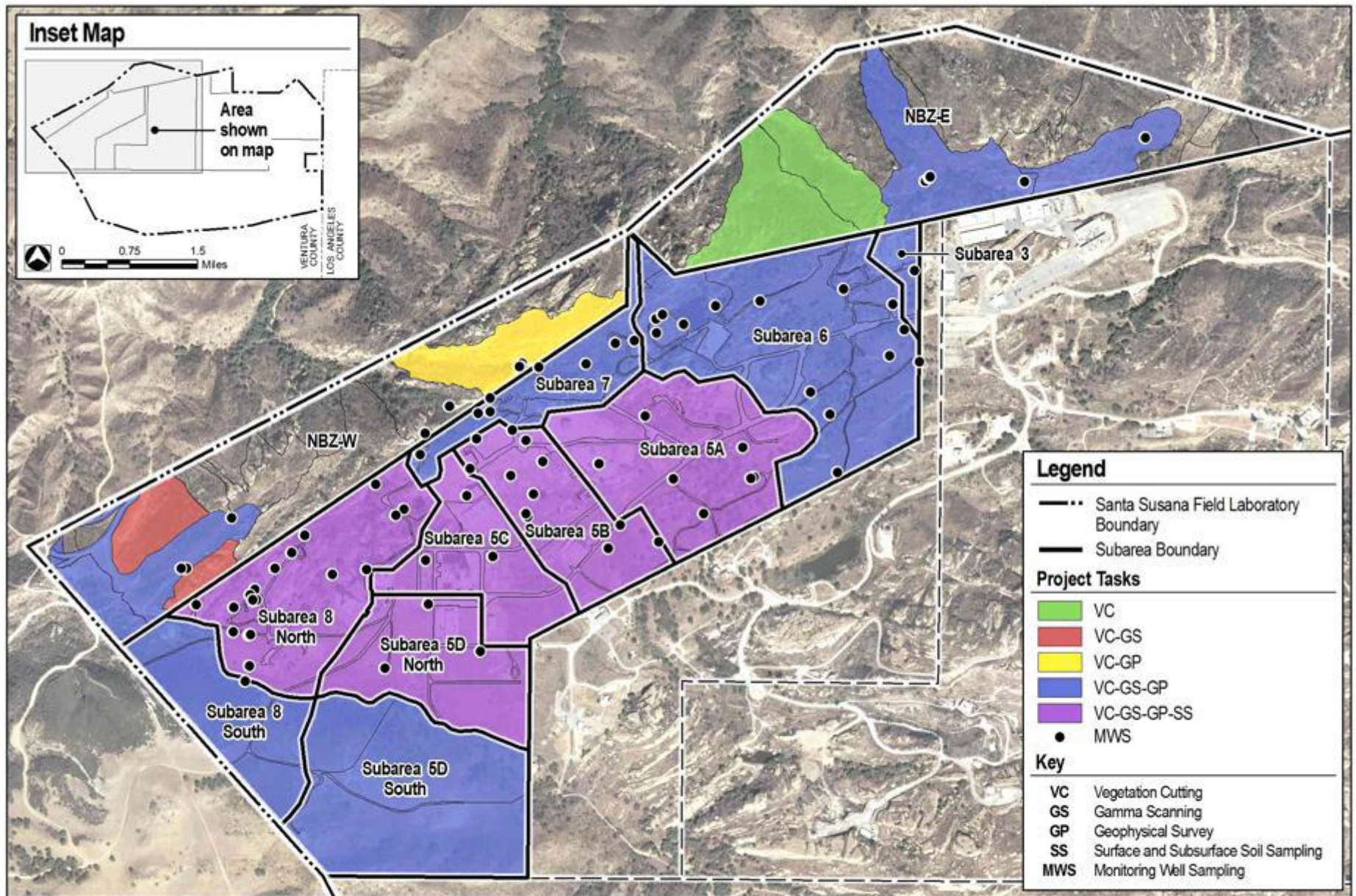


Aerial Source: CIRGIS, 2007.

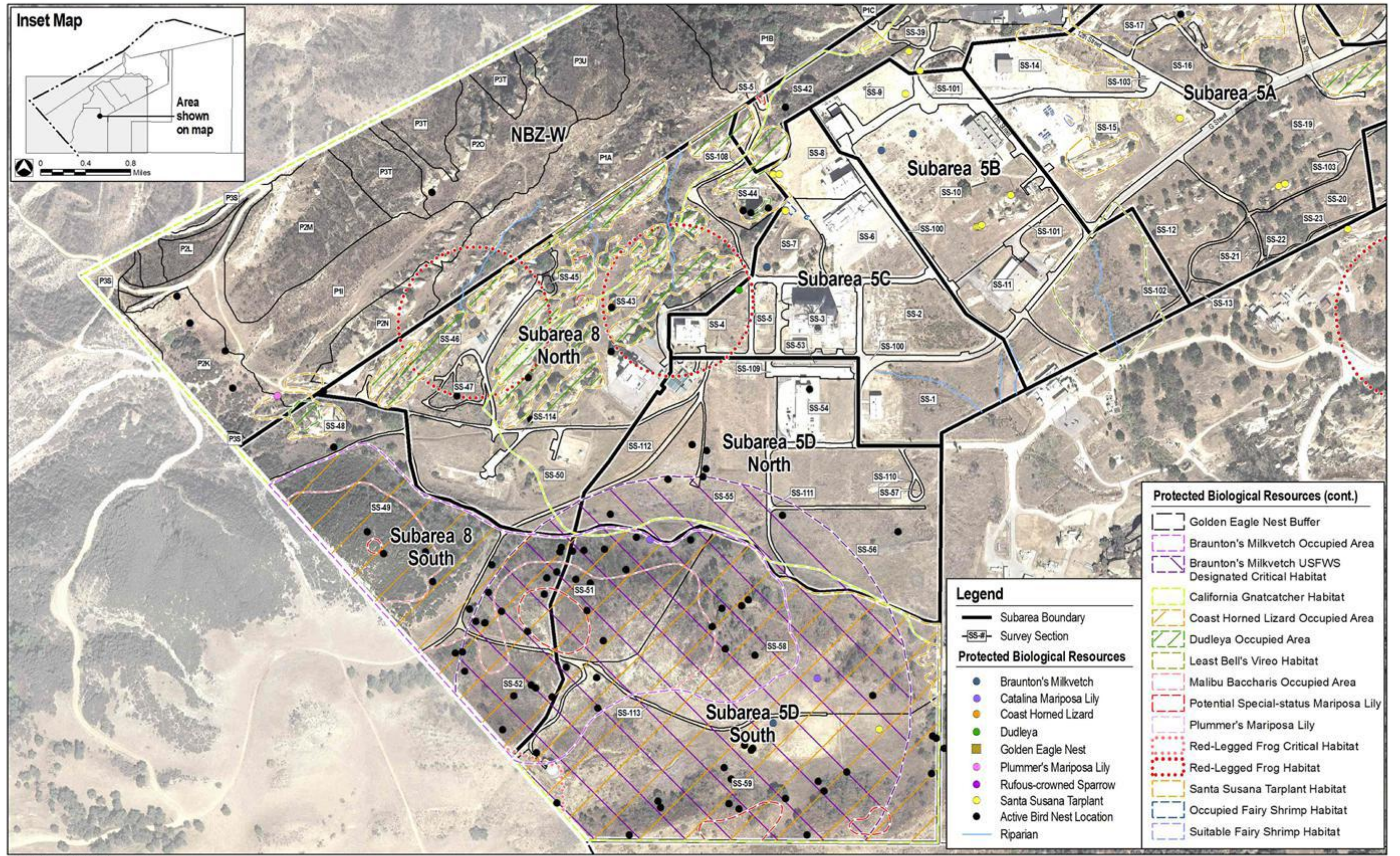




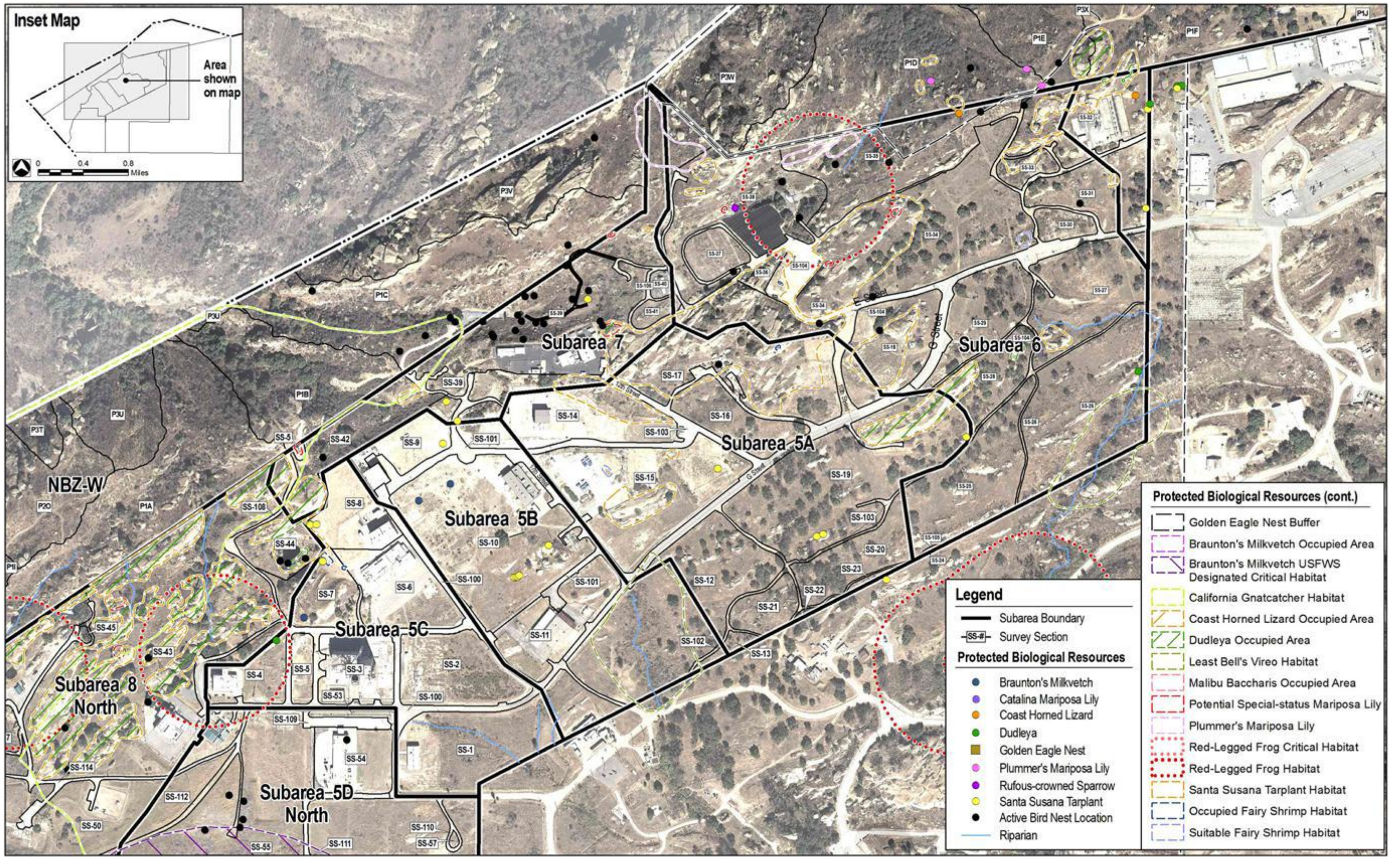
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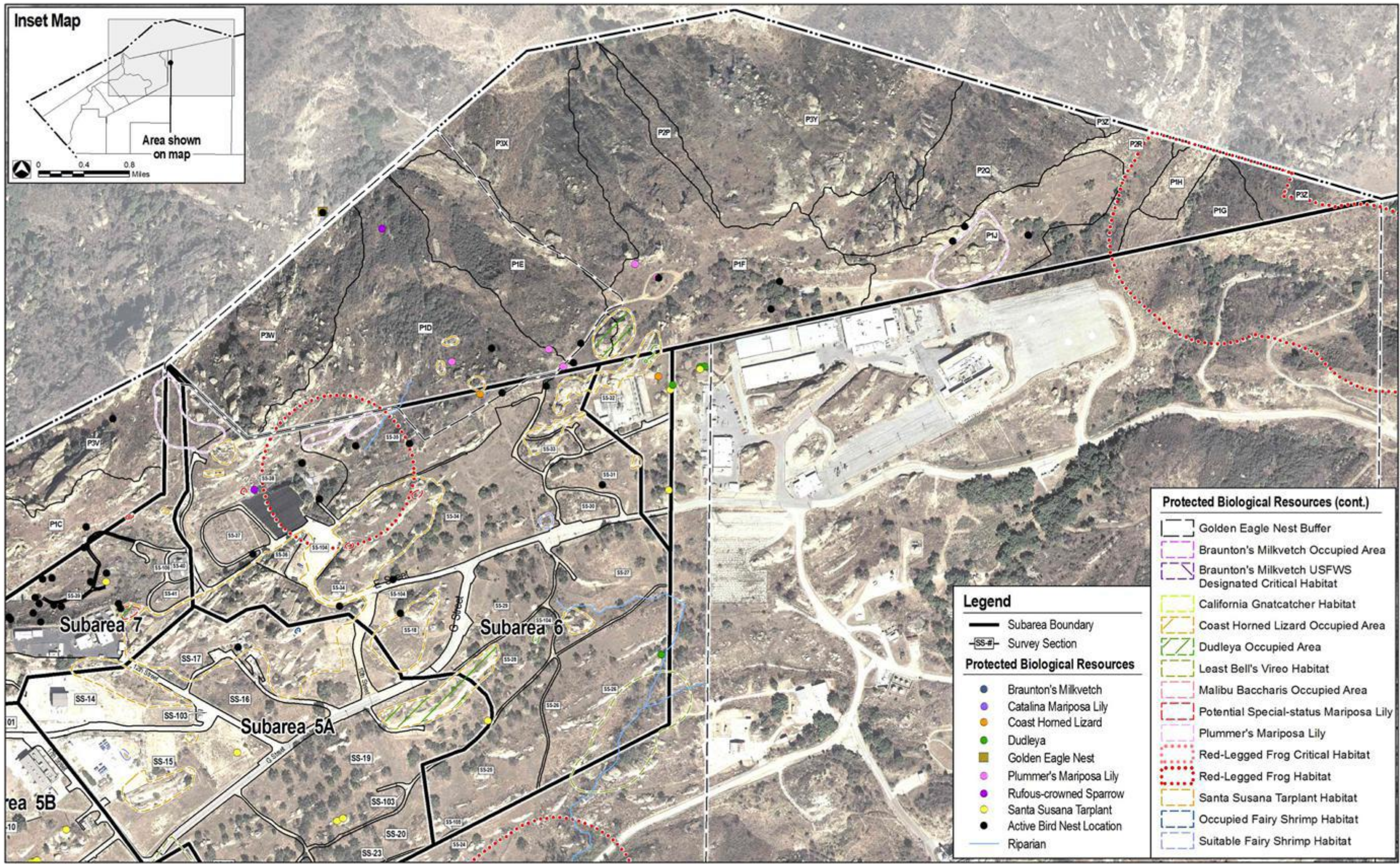
Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.



**Plate 1A** – Vegetation cutting activity in Subarea 7 (SS-39). April 22, 2011.



**Plate 1B** – Vegetation cutting activity in Subarea 5D South (SS-59) with active chipping. May 3, 2011.



**Plate 1C** – Vegetation cutting activity in Subarea 5D South (SS-59) using weed whackers. May 3, 2011.



**Plate 1D** – Vegetation cutting activity in Subarea 5D South (SS-59), showing SSFL property boundary at right. May 9, 2011.



**Plate 2A** – Track-mounted Gamma Scanner (TMGS) deployed in Subarea 6 (SS-35). April 15, 2011.



**Plate 2B** – ERGS/JCB gamma scanning in Subarea 5D South (SS-58), actively avoiding Braunton's milkvetch (*Astragalus brauntonii*) seedlings marked with red-white flagging. May 20, 2011.



**Plate 2C** – Mule gamma scanning in Subarea 8 South (SS-51) among mature Braunton's milkvetch, Malibu baccharis (*Baccharis malibuensis*), and other plant species. May 20, 2011.



**Plate 2D** – Subsurface soil sampling drilling rig operating in Subarea 5D North (SS-56) with the biologist (at right) monitoring a nearby bird nest. June 21, 2011.



**Plate 3A** – A new clump of Branton's milkvetch growing in Subarea 8 South (SS-49) in old tire tracks from 2010 vegetation removal and marked off by the biologist. May 26, 2011.



**Plate 3B** – Emergent Branton's milkvetch plants in Subarea 8 South (SS-49). May 5, 2011.



**Plate 3C** – New Branton's milkvetch plant growing in Subarea 5D South (SS-51). May 23, 2011.



**Plate 3D** – ERGS gamma scanning in Subarea 8 South (SS-49), with a Branton's milkvetch patch marked as restricted adjacent to ERGS. May 5, 2011.





**Plate 4A** – Mature Braunton's milkvetch growing in Subarea 5D South (SS-51). May 23, 2011.



**Plate 4B** – Spring proliferation of common sunflower (*Helianthus annuus*) with black sage (*Salvia mellifera*), woolly blue curls (*Trichostemma lanatum*), and Braunton's milkvetch in Subarea 5D South (SS-51), after having been trimmed in late 2010. May 23, 2011.



**Plate 4C** – Plummer's mariposa lilies (*Calochortus plummerae*) flowering in NBZ-E (P1J). June 29, 2011.



**Plate 4D** – Coast horned lizard (*Phrynosoma coronatum*) relocated out of harm's way in Subarea 5D South (SS-59). May 2, 2011.



**Plate 5A** – Two golden eagle nestlings at the nest in NBZ-E. June 3, 2011.



**Plate 5B** – Previously undiscovered southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*) nest in mustard (*Hirschfeldia incana*) patch damaged by a weed whacker during vegetation cutting activity in Subarea 7 (SS-39). April 21, 2011.



**Plate 5C** – The southern California rufous-crowned sparrow nest and contents were undamaged.



**Plate 5D** – Leafy branches were retrieved from nearby yerba santa (*Eriodictyon crassifolium*) and deerweed (*Lotus scoparius*), and piled against mustard in an attempt to reestablish the dense cover previously concealing the nest. The female returned to incubate and the nestlings likely fledged eventually.



**Plate 6A** – A southern California rufous-crowned sparrow nest in a California buckwheat (*Eriogonum fasciculatum*) along a road in NBZ-E (P1E). May 31, 2011.



**Plate 6B** – A wren tit (*Chamaea fasciata*) nest with 4 nestlings that had been knocked down during vegetation cutting in NBZ-W (P1C) is shown here reattached in a different shrub (see text). May 5, 2011.



**Plate 6C** – A previously undiscovered active wren tit nest with eggs destroyed by weed whacking activity in Subarea 5D South (SS-59). May 9, 2011.



**Plate 6D** – Approximate location of the nest shown in Plate 6C within a partially removed deerweed shrub, illustrating the depth at which the nest was built within the shrub. May 9, 2011.



**Plate 7A** – California towhee (*Melospiza crissalis*) eggs found without an associated nest in Subarea 5D South (SS-59) after vegetation was removed. April 27, 2011.



**Plate 7B** – Previously undiscovered California towhee nest in a heavily trimmed California sagebrush (*Artemisia californica*) in Subarea 5D South (SS-59). An attempt was made to reestablish the cover around the nest with sagebrush branches but the nest was depredated just several days later. May 12, 2011.



**Plate 7C** – Lark sparrow (*Chondestes grammacus*) nest with eggs built on the ground under a cut coyote brush (*Baccharis pilularis*) stem in Subarea 8 South (SS-51). May 31, 2011.



**Plate 7D** – Common sunflower (at center) under which a lark sparrow nest was discovered during scanning activities in Subarea 8 South (SS-49), illustrating the high potential for impacts to ground-nesting birds during project activities. June 1, 2011.



**Plate 8A** – Lesser goldfinch (*Spinus psaltria*) nest with eggs in a Braunton's milkvetch in Subarea 8 South (SS-51). May 13, 2011.



**Plate 8B** – Common poorwill (*Phalaenoptilus nuttallii*) on nest in Subarea 8 South (SS-52). June 6, 2011.



**Plate 8C** – Common poorwill nest shown in Plate 8B, without incubating bird. June 6, 2011.



**Plate 8D** – Costa's hummingbird (*Calypte anna*) on nest built in common sunflower and discovered during mule scanning in Subarea 5D South (SS-58). June 8, 2011.



**Plate 9A** – Costa's hummingbird nest shown in Plate 8D, without incubating bird. June 8, 2011.



**Plate 9B** – Milk thistle (*Silybum marianum*) patch in Subarea 5D North (SS-56) in which a blue grosbeak (*Passerina caerulea*) nest was found. June 16, 2011.



**Plate 9C** – House finch (*Carpodacus mexicanus*) nest with eggs located in milk thistle in Subarea 5D South. May 4, 2011.



**Plate 9D** – Blue grosbeak nest with nestlings built in mustard and Italian thistle (*Carduus pycnocephalus*) in Subarea 5D South (SS-51). June 15, 2011.

**APPENDIX 2**

**FOURTH QUARTER BIOLOGICAL CLEARANCE SURVEY FORMS**

**APPENDIX 3**

**FOURTH QUARTER  
BIOLOGICAL MONITORING FORMS**



**APPENDIX 2**

**FOURTH QUARTER BIOLOGICAL CLEARANCE SURVEY FORMS**

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 4/11/2011	Survey Section (SS): SS-39 (partial)
Biologist: Scott Werner	Subarea: 7
Expiration: 4/18/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 1015	End time: 1140

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-39	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-39	Santa Susana tarplant	Y	Y	VC-10, GS-1, SS-1, SS-2
SS-39	Dudleya	Y	Y	VC-9, GS-1, SS-1, SS-2
SS-39	Protected trees (coast live oak, elderberry)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Began clearance survey near Outfall 3. Survey is incomplete and will be continued tomorrow.

#### Nesting birds:

- Bushtit nest, 5 feet up in coast live oak at UTM 342402E, 3789478N, just east of Outfall 4. Buffer established.
- Bushtit nest, 8 feet up in coast live oak at UTM 342474E, 3789498N, near monitoring well east and uphill from first nest described above.

#### Bird species detected:

Spotted towhee  
Bushtit  
House wren  
Lesser goldfinch

Wrentit  
White-crowned sparrow  
Black phoebe  
Mourning dove

Golden-crowned sparrow  
Western scrub-jay

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

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

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

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

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 4/12/2011	Survey Section (SS): SS-39 (partial), SS-40, SS-41
Biologist: Scott Werner	Subarea: 7
Expiration: 4/19/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 0820	End time: 1130

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-39	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-39, SS-41	Santa Susana tarplant	Y	Y	VC-10, GS-1, SS-1, SS-2
SS-39	Dudleya	Y	Y	VC-9, GS-1, SS-1, SS-2
SS-39	Protected trees (coast live oak, elderberry)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Conducted clearance survey starting from E end, based on where LDI is expected to start tomorrow. Area around and below Outfall 4 remains unsurveyed due to time constraints and will be surveyed as crews move westward.

#### Nesting birds:

- California thrasher nest with nestling, 3 feet up in sugarbush at UTM 342412E, 3789502N, on slope NE of Outfall 4. Buffer established.
- Cliff swallow building nests in sandstone outcrops (actually in NBZ-W) north of access road to Outfall 4. Multiple nests in 2 outcrops centered at UTM 342469E, 3789569N. Stakes placed along road as buffer.

Many resident species active on-site that could likely be nesting. High quality nesting habitat throughout SS-39.

#### Bird species detected (\* California Watch-list species):

California quail	Anna's hummingbird	Lesser goldfinch
House wren	California towhee	Wrentit
Rock wren	White-throated swift	Mourning dove
Mourning dove	Rufous-crowned sparrow*	Western scrub-jay
Cliff swallow	Spotted towhee	Song sparrow
Canyon wren	Bushitit	Oak titmouse
House finch	House wren	

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

Date: 4/12/11

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

Date: 04/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 4/26/2011	Survey Section (SS): SS-59 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 5/3/2011	Survey Type: Nesting birds, special-status species and habitats

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-59	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-59	Santa Susana tarplant	N	Y	VC-10, GS-1, SS-1, SS-2
SS-59	Mariposa lilies	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Nesting birds	Y/N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Protected trees (coast live oak, elderberry, walnut)	Y/N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

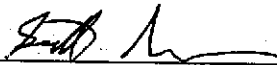
Clearance survey is in support of upcoming Vegetation Cutting and Gamma Scanning in SS-59. Jim Anderson (Envicom monitor) is also present to maximize the area surveyed. Only the eastern end of SS-59 was surveyed today.

At least 19 small/young Braunton's milkvetch (4 are 6" tall, the rest are < 1.5" tall) growing in a 6' x 6' patch within established enclosure along N edge of SS-59. Construction fencing presumably established by Boeing in recent past. UTM 342119E, 3788490N.

**Nesting birds:**

- Song sparrow ("Song sparrow nest #1") feeding nestlings, nesting 2 feet above ground in milk thistle under tree tobacco in lower, open area of plot. UTM 342094E, 3788454N.
- Western scrub-jay nest 3 feet above ground in sugar bush at NW corner of SS-59, newly hatched nestlings. UTM 341890E, 3878549N.
- Song sparrow nest #2, 2 feet above ground in milk thistle at E edge of SS-59, incubating eggs. UTM 342345E, 3788452.
- House wren nest, 15 feet up in cavity in burned coast live oak at E edge of SS-59, building/laying eggs. UTM 342335E, 3788465N.

Notable migratory bird species: warbling vireo, western kingbird, lazuli bunting

Biologist Signature: 

Date: 4/26/11

HGL Field Supervisor Signature: 

Date: 04/26/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 4/27/2011	Survey Section (SS): SS-59 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 5/4/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 0730	End time: 1500 (incl. monitoring of nearby crews)

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-59	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-59	Santa Susana tarplant	N	Y	VC-10, GS-1, SS-1, SS-2
SS-59	Unidentified mariposa lilies	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Catalina mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Nesting birds	Y/N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Protected trees (coast live oak, elderberry, walnut)	Y/N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Clearance survey is in support of upcoming Vegetation Cutting and Gamma Scanning in SS-59. Jim Anderson (Envicom monitor) is also present to survey and monitor. Clearance survey today is focused on all grassland areas below naturally defined boundary of chaparral so they can be mowed, followed by unsurveyed areas in E portion of SS-59.

10' x 10' patch of Catalina mariposa lily (*Calochortus catalinae*) recorded and flagged in grassland on SS-58 (UTM 342173E, 3788545N). White sage plants flagged per request of Native American monitor.

**New nesting birds:**

- Lesser goldfinch nest at E end of plot near Song Sparrow nest #1 and house wren nest. Lesser goldfinch nest is ~17 feet up in a coast live oak at UTM 342330E, 3788468N. Laying/incubating.
- Wrentit nest at SE corner of plot. 15 feet south of SSFL property line but buffer will extend onto SS-59. Feeding nestlings in black sage/Italian thistle. UTM 342355E, 3788326N. May be off SS, boundaries not marked.


Separate report prepared for monitoring activities today.

List of avian species observed during the survey is indicated below.


Common yellowthroat  
Spotted towhee  
Bewick's wren  
House finch  
Western scrub-jay  
Bushtit  
California towhee

California quail  
Oak titmouse  
Lesser goldfinch  
Wrentit  
Anna's hummingbird  
House wren  
Mourning dove

Lark sparrow  
Song sparrow  
Rufous-crowned sparrow  
Cooper's hawk

Biologist Signature: 

Date: 4/26/11

HGL Field Supervisor Signature: 

Date: 04/26/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 5/13/2011	Survey Section (SS): SS-51 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 5/22/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 0730	End time: 1115 (incl. monitoring of nearby crews)

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-51	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-51	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Unidentified mariposa lilies	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Coast horned lizards	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Protected trees (coast live oak, elderberry, walnut)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Cleared western section of SS-51 and GPS'd nests previously found by Envicom monitor Jim Anderson, who is present today and surveying west of my position. Clearance is in support of scheduled weed whacking in woodland area followed by ERGS/JCB scanning. No further vegetation clearing is proposed for chaparral area above woodland which supports a dense stand of Braunton's milkvetch along with Malibu baccharis and coast horned lizards. The chaparral area will be scanned via mule.

Nesting birds (some previously described by Jim Anderson):

- Lesser goldfinch nest with 4 eggs, 2 feet up in Braunton's milkvetch at UTM 341822E, 3788659N.
- Oak titmouse nest 9 feet up in coast live oak snag with nestlings. UTM 341732E, 3788624N.
- California towhee nest 5 ft up in coast live oak hollow with 3 eggs, UTM 341744E, 3788622N.
- Song sparrow/house finch nest 3 ft up in milk thistle near road (currently empty but fully completed), UTM 341754N, 3788698N.
- Lesser goldfinch nest with 4 eggs, 3 ft up in black sage at UTM 341766E, 3788637N.

Incidental sighting in SS-52 when parked of house wren nest with nestlings 5 feet up in coast live oak trunk. UTM 341714E, 3788584N.

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

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

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

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

Date: 4/28/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 50-59

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat,	J Anderson	Mar 1, 2012
2	Nesting birds	J Anderson	1 WK from date of survey

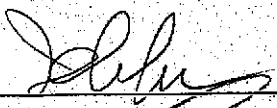
1 Calif greater lichen habitat GETW-8 verified absence in 2011.

**SURVEY FINDINGS**

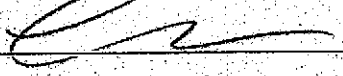
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Braunton's mulkewitch	Y	VC-3 ; GS-1
1	Malibu baccharis	Y	VC-1 ; GS-1
1	Mariposa lilies	Y	VC-1 ; GS-1
1	Protected trees (Coast live oak, Calif black walnut, blue oak)	N	HGL SMP Veg Management protocols (see attached)
1	State listed wildlife species of special concern	N/A	Monitor present during VC/GS activities with TERBS, track stamped on route.
1	White sage	Y	(Some flagged at request of Native American monitor)

**NOTES AND RECOMMENDATIONS:**

- Clearance survey for portions of 50-59 only, including eastern 1/3, midline, south-facing slopes near along southern boundary, and westernmost portion of section north of water tank.
- Nesting bird surveys should be conducted intermittently (at least 1x/wk) during vegetation clearance throughout nesting bird season. No active nests encountered on 4/28/11, but other active nests are within section (see clearance survey forms for 50-59 for other dates).
- Several Braunton's mulkewitch and Malibu baccharis found in western portion of section generally north (below) water tank.
- Mariposa lily concentrations identified w/ Stokes and Haggis, but individuals not flagged.

Biologist Signature: 

Date: 5/6/11

HGL Field Supervisor Signature: 

Date: 05/06/11

Matt

Date: 5/11/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 5D-58 (portion of 58 only)

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat	T. Anderson	Mar 1, 2012
2	Nesting birds	J. Anderson	1 wk from survey date

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Braunton's milkweed	Y*	VC-3, GS-1
1	Malbu baccharis	Y*	VC-1; GS-1
2	Nesting birds	Y	Buffers established, monitor required
1	Mamma lilies (unidentified)	Y*	VC-1, GS-1
1	Protected trees	N	Avoid or cut per Vita Co. ordinance

\* Not all in

**NOTES AND RECOMMENDATIONS:**

- Portion of 58 cleared for ERES consisting primarily of south-facing scrub covered slopes and adjacent herbaceous vegetation in south-central portion of section. Remainder of section still requires nesting bird / special status species survey before activities can be conducted.
- Blue-gray snatcher feeding nestlings in dependent wedge-leaf cecropia (Cecropia cuneata). Partially constructed nest in fork of coast live oak (Spotted Finches suspected).
- 3 coast horned lizards captured and moved to safe location.
- Yellow mamma lilies are Calochortus clavatus var. pallidus, which are non-sensitive. Calochortus catalinae also observed.

Biologist Signature: J. Anderson

HGL Field Supervisor Signature: Colleen Garcia

Date: 5/13/11

Date: 5/13/11



Date: 5/11/11  
5/12/11  
5/13/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SD-51 (portion of 51 only)

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat	T. Anderson	Mar 1, 2012
2	Nesting birds	T. Anderson	1 wk from Survey date

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
2	Nesting birds	Y	Buffers established; monitor shall watch <del>of</del> nests and monitor activities
1	Brauntonia milkvetch	Y*	VC-3, GS-1
1	Malibu beachcans	Y*	VC-1, GS-1
1	Maryosa lilies	Y*	VC-1, GS-1
1	Protected trees	N	Avoid protected trees or <sup>Calif. ordinance</sup>
1	State Species of Special Concern #1/A		Monitor required in section; capture and release
*	Not all individuals flagged.		

**NOTES AND RECOMMENDATIONS:**

- Calif coastal grasshopper potential habitat - absence verified by protocol survey 2/11.
- Survey covers approx western 1/3 of section and approx 1/2 SR section on north-facing slope. Additional clearance survey work necessary to clear ~~entire~~ entire section for activities.
- Nesting birds: (1) Calif towhee incubating in Brauntonia milkvetch; (2) lesser goldfinch constructing nest in coast live oak; (3) ~~house wren~~ <sup>song sparrow</sup> feeding nestlings in dense Italian thistle; (4) ~~house wren~~ <sup>song sparrow</sup> feeding nestlings in dense Italian thistle; (5) house wren feeding nestlings in canopy of coast live oak; (6) lesser goldfinch incubating in Brauntonia milkvetch; (7) Calif towhee incubating in canopy of coast live oak; (8) oak titmouse constructing nest in coast live oak snag; (9) lesser goldfinch incubating in black sage. Also two empty nests placed for observation, one look recently constructed. Additional nesting birds suspected!
- Potential or known occurrences of coast horned lizard and coast patch nosed snake, which are State Species of Special Concern. Monitor required for GS, VC, other activities involving off road vehicle use in section.
- Several coast horned lizards observed - some captured and moved to safe location.

Biologist Signature: [Signature]

Date: 5/13/11

HGL Field Supervisor Signature: [Signature]

Date: 5/13/11

Santa Susana Field Laboratory Area IV And NBZ Radiological Study

US EPA Region 9

\*MONITOR REQUIRED. For ALL GS, VC in section, and any other activities requiring light or heavy off road vehicle use, All users shall be briefed in field by biologist before activities.

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 5D-51

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat	J. Anderson	Mar 1, 2012
2	Nesting birds	J. Anderson	1 yr from survey date

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Braunton's milkvetch	Y	VC-3, GS-1
1	Matibuhacchan's	Y	VC-1, GS-1
1	Protected trees	N	HGL SMP Management Protocols; <del>tree</del> <sup>tree</sup> <del>tree</del> <sup>tree</sup> <del>tree</del> <sup>tree</sup>
1	State Species of Special Concern	N/A	Monitor required
2	Nesting birds	Y (buffers)	Avoid buffers; monitor required to monitor nesting activities

\* Not all individuals flagged

**NOTES AND RECOMMENDATIONS:**

State Wildlife Species of special concern w/ potential to occur include coast horned lizard, coast patch-nosed snake, which could be harmed by project activities. Monitor required for all VC, GS in section as well as if other activities require light or heavy vehicle use. For other activities as well, the bio monitor shall conduct a brief meeting w/ the field crews prior to commencement of work in the section to point out resources to be avoided.

In addition to nesting birds identified in the section during previous surveys, the prior week (see other clearance forms), three additional nests were found today: lesser goldfinch incubating in walnut sapling; oak titmouse feeding nestlings in cavity of coast live oak, and house wren feeding nestlings in coast live oak. In regards to nests found during prior surveys: song sparrows in dense Italian thistle have completed nesting and lesser goldfinch that was constructing a nest in coast live oak has abandoned nesting (nest destroyed unknown cause)

Biologist Signature: [Signature]

Date: 5/16/11

HGL Field Supervisor Signature: [Signature]

Date: 05/16/11

Date: 5/18/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 5D-51

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat	J. Anderson, Brady	Mar 11, 2011
2	Nesting birds	J. Anderson, Brady	1 wk from survey date

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Brauntonia in Kuelch	Y <sup>W</sup>	VC-3; GS-1
1	Mallin bachelors	Y <sup>W</sup>	VC-1; GS-1
1	Spotted Ca. Sparrow	N	GSN-8 (obverse verified by photo)
1	protected trees	N	HGL S&P Veg Management Protocols; VLA Co. Co. Archival
1	Mammosa lilies	Y <sup>W</sup>	VC-1; GS-1
1	Ca. Sparrow, Special Concern	N/A	within the 100m buffer for VC, GS, all of them
2	Nesting birds	Y	Buffers, monitor active nests

\* Not all individuals flagged

**NOTES AND RECOMMENDATIONS:**

Small flock of 10-15 nesting birds in south of 5D 51 (see previous clearance survey forms for GPS) one active nests and two potentially active nests were found today

House wren nest feeding nestlings in cavity oak snag. House wren nesting habitations in area. Potential nesting birding and Song Sparrow potentially active in area. Italian Thrush. Potential spotted bluebird nest with 2 potential Song Sparrow nests. No buffer established and birded. Italian Thrush spotted bluebird nest. Song Sparrow pair spotted. Italian Thrush additional observation to verify nesting.

Italian Thrush already listed as State Special Concern, including desert finch, can't patch used snags and can't be used for nesting.

MONITORING REQUIRED for all VC, GS. all active nests involving light or heavy off road vehicle use or vegetation clearance

Biologist Signature: [Signature]

Date: 5/24/11

HGL Field Supervisor Signature: [Signature]

Date: 05/24/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 7-39

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat	J. Anderson	Mar 1, 2012
2	Nesting birds	J. Anderson	1 wk from survey date

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarantula	Y	VC-10, GS-5
1	Ca. state species of special concern	N/A	Monitor required in section for VC, GS
2	Nesting birds	Y	Buffer established around both nests; Avoid buffer and monitor activities/nests.

**NOTES AND RECOMMENDATIONS:**

Clearance survey focused on steep, generally north-facing slopes located to the south of NPDES unit #10.

A single SS tarantula located on rock outcrop - flagged. Potential habitat for Calif SSC desert woodrat, coast hairy leg, coast patch snake. Two nesting birds found during survey, and more nesting birds are possible in this area.

Lesser goldfinch incubating in *Raccharis pulchra* (Coulterville) and song sparrow nestbox built in low dense cover (possibly branching *Phacelia* (*Phacelia ramosissima*)), but plant species not noted during survey.

Buffers previously placed around active nests or potential nests in 7-39 were removed to allow following observation of status - all nesting completed or vented as of 5/18/11.

MONITOR REQUIRED for all VC, GS, and other activities involving the use of road vehicle or heavy equipment.

Biologist Signature: [Signature]

Date: 5/24/11

HGL Field Supervisor Signature: [Signature]

Date: 05/24/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 5/19/2011	Survey Section (SS): SS-44 (partial)
Biologist: Scott Werner	Subarea: 8
Expiration: 5/23/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 1300	End time: 1400

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-44	Santa Susana tarplant	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-44	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-44	Protected trees (elderberry)	Y/N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

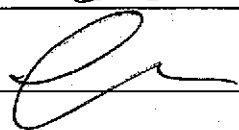
Cleared eastern half of SS-44 for upcoming Vegetation Cutting (VC).

**Nesting birds:**

- California towhee nest in California sagebrush, delivering food, not inspected due to fall hazard, approx UTM 342121E, 3789162N. Nest is outside of anticipated work zone but should be monitored during all activities. VC work should be brief enough not to impact nest but scope of subsequent not known at this time and may require monitoring.
- Many cliff swallow nests along rock face of 'million dollar hole'; concentrated in 3 locations: UTM 342086E, 3789181N; 342088E, 3789159N; 342098E, 3789156N (UTM's estimated from Google Earth). Nests are sufficiently distant from expected work to not be affected, but monitoring is recommended for activities with loud noises or heavy vibrations such as Vegetation Cutting and Soil Sampling.
- Old wrenit nests seen in California sagebrush with wrenits detected nearby but no active nests found in work zone.

Biologist Signature: 

Date: 5/19/11

HGL Field Supervisor Signature: 

Date: 05/19/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 5/20/2011	Survey Section (SS): SS-51 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 5/25/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 1215	End time: 1600

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-51	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-51	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Catalina mariposa lilies	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Coast horned lizards	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Protected trees (coast live oak, elderberry, walnut)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Continued surveying SS-51 in anticipation of upcoming VC and GS. Additional nests were found today and an ever-increasing buffered area was established within which activities will be greatly restricted.

#### Nesting birds in SS-51:

- New lesser goldfinch nest, 7 ft up in small coast live oak regenerating from 2005 fire. UTM 341930E, 3788690N. Female sitting tight on nest (likely incubating eggs).
- Spotted-towhee nest found within existing California-towhee nesting buffer but only 20 feet from weed-whacked vegetation from several days ago. Nest is on ground under toyon regrowth, directly under a single upshooting southern honeysuckle branch. Downy, audible nestlings being fed and female still brooding. UTM 341826E, 3788680N.

RECOMMENDATION: This species builds extremely cryptic nests on the ground has a very high potential for impacts if not discovered prior to project activities. Any spotted towhees encountered at this point in the season should be assumed to be nesting, and a great effort should be made to locate all nests.

SS-58: Blue-gray gnatcatcher nest previously located by Jim Anderson but not yet GPS'd. Located 10 feet up in a dead Ceanothus left standing during 2010 VC. 5 eggs, UTM 342059E, 3788585N. Additional stakes placed to mark buffered area.

Large coast horned lizard encountered at UTM 341871E, 3788664N. Not relocated because it is already within a sensitive biological zone (i.e. milkvetch, bird nests) with restricted activities.

A map showing the bird nesting buffers in SS-51 has been submitted, but the eastern end of SS-51 near the water pipeline has still not been cleared for project activities. Currently permitted areas for scanning are primarily in the western and southern halves of SS-51.

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

Date: 5/20/11

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

Date: 05/20/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 5/24/2011	Survey Section (SS): SS-52 (partial)
Biologist: Scott Werner	Subarea: 8 South
Expiration: 5/30/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 1300	End time: 1500

### SURVEY FINDINGS

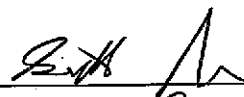
Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-52	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Braunton's milkvetch	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Mariposa lilies (not flowering)	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Occupied coast horned lizard habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1

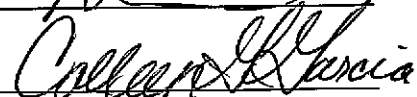
### NOTES AND RECOMMENDATIONS:

California towhee nest with 3 eggs, 4 feet up in toyon at UTM 341850E, 3788563N, 25 feet from road.

Lesser goldfinch nest 4 ft up in Braunton's milkvetch at UTM 341810E, 3788536N, downy chicks.

Pair of common poorwills flushed up from just west of lesser goldfinch nest – no nest/eggs seen.

Biologist Signature: 

HGL Field Supervisor Signature: 

Date: 5/24/11

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 5/25/2011	Survey Section (SS): P1I, P2K (partial)
Biologist: Scott Werner	Subarea: NBZ-W
Expiration: 6/1/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 1100	End time: 1230

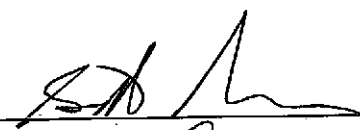
**SURVEY FINDINGS**

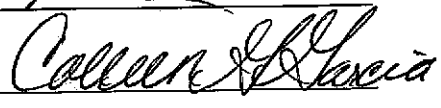
Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1I, P2K	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Dudleya (likely lanceolata)	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Mariposa lilies (not flowering)	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I	Catalina mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Suitable habitat for California special concern wildlife species	N	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Surveying westernmost 2 Geophysical grids along road. No nesting birds found. Area is primarily grassland with some chaparral/coastal sage scrub. 2<sup>nd</sup> GP grid survey was very brief due to time constraints and should be resurveyed later.

Area support suitable habitat for California special-concern species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat. Area also appears suitable for Santa Susana tarplant but not was observed.

Biologist Signature:  Date: 5/25/11

HGL Field Supervisor Signature:  Date: 7/12/11



**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 5/27/2011	Survey Section (SS): P1D, P1E (partial)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: n/a (incomplete)	Survey Type: Nesting birds, special-status species and habitats
Start time: 0830	End time: 1030

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1D, P1E	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Suitable habitat for California special concern wildlife species	N	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1
P1D, P1E	Golden eagle nest buffer	N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Survey area consisted of geophysical area in extreme SE P1D, P1E: triangular patch of vegetation south road, west of rocky outcrop, north of jct SS-32/SS-34.

Area supports suitable habitat for California special-concern species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat. Area also appears suitable for Santa Susana tarplant but not was observed.

Survey is incomplete – had to leave early and will continue on Monday 5/30.

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

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

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

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

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 5/31/2011	Survey Section (SS): P1D, P1E (partial)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: n/a (area restricted)	Survey Type: Nesting birds, special-status species and habitats
Start time: 0830	End time: 1030

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1D, P1E	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Suitable habitat for California special concern wildlife species	N	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1
P1D, P1E	Golden eagle nest buffer	N	Y	VC-1, GS-1, SS-1, SS-2
P1E	Southern California rufous-crowned sparrow	Y	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

**Nesting birds were found at this small patch of vegetation proposed to be cut and the nest buffers are such that VC will not be allowed until the birds are done nesting.**

Survey area consisted of geophysical area in extreme SE P1D, P1E: triangular patch of vegetation south road, west of rocky outcrop, north of jct SS-32/SS-34.

Area supports suitable habitat for California special-concern species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat. Area also appears suitable for Santa Susana tarplant but not was observed.

Southern California rufous-crowned sparrow (California species of special concern) nesting along road in California buckwheat, 2 feet above ground, 3 eggs, UTM 343114E, 3789801N.

California quail hatchlings found in dense deerweed patch at 343104E, 3789776N. These birds will need 1-2 weeks before they are independent enough to leave this area of safe dense cover.

Nearby golden eagle nest is a concern regarding noisy VC activities. 2 eaglets currently on nest. It will be best to wait several more weeks until young have left the nest completely.

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

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

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

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

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 6/3/2011	Survey Section (SS): P1I, P2K (partial)
Biologist: Scott Werner	Subarea: NBZ-W
Expiration: 6/10/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 1015	End time: 1210

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1I, P2K	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Dudleya (likely lanceolata)	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Mariposa lilies (not flowering)	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I	Catalina mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Suitable habitat for California special concern wildlife species	N	Y	VC-1, GS-1, SS-1, SS-2
P1I, P2K	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Re-surveying westernmost 2 Geophysical grids along road. No nesting birds found. Area is primarily grassland with some chaparral/coastal sage scrub. 2<sup>nd</sup> GP grid survey was very brief due to time constraints and should be resurveyed later.

Area supports suitable habitat for California special-concern species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat. Area also appears suitable for Santa Susana tarplant but not was observed.

Ash-throated flycatcher nesting at NBZ-W entrance gate in 4" vertical pipe. 4 eggs, UTM 341535E, 3788928N. Female flushes when people approach to open gate but appears to stay on eggs if vehicles are simply driving through. Dust could pose hazard to chicks in coming weeks as EPA activity increases.

Pair of black-headed grosbeaks foraging together, likely nesting nearby. Other species seen included California towhee, wrenit, lesser goldfinch, northern mockingbird, California thrasher, spotted towhee, lark sparrow, western scrub-jay with fledglings.

Biologist Signature: *Scott Werner*

Date: 6/3/11

HGL Field Supervisor Signature: *Colleen L. Garcia*

Date: 7/17/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 6/3/2011	Survey Section (SS): SS-59 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: n/a (area restricted)	Survey Type: Nesting birds, special-status species and habitats
Start time: 1015	End time: 1210

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-59	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Suitable habitat for California special concern wildlife species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Uncut nest buffer patches were checked today and are still restricted due to continued nesting. No additional areas in SS-59 were cleared for VC.

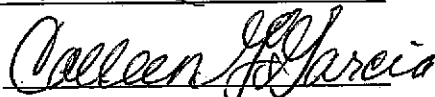
Flat weedy patch in central SS-59: blue grosbeak nest still active with nestlings, confirmed location at UTM 342083E, 3788458N, 4 ft up in Italian thistle. Likely a new California towhee nest at E end of patch – not investigated due to time constraints and confirmed grosbeak nest.

New lazuli bunting nest at bottom edge of large hillside vegetation patch: 1 ft up in purple sage, feathered nestlings, UTM 342056E, 3788429N. Buffer enlarged due to proximity (6 ft) to edge of vegetation.

RECOMMENDATION: birds are still nesting in these remnant patches, and it's somewhat inefficient to keep surveying them during the peak nesting season. Next priority for EPA is Geophysical Survey areas in NBZ-W and biologist is headed there next.

Biologist Signature: 

Date: 6/3/11

HGL Field Supervisor Signature: 

Date: 7/12/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

<b>Date:</b> 6/7/2011	<b>Survey Section (SS):</b> SS-52 (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> 8 South
<b>Expiration:</b> n/a (restricted)	<b>Survey Type:</b> Nesting birds, special-status species and habitats
<b>Start time:</b> 1345	<b>End time:</b> 1500

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-52	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-52	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2

#### NOTES AND RECOMMENDATIONS:

Continued to survey upper section of SS-52 to open any sections to VC and subsequent GS. 3 new nests found.

**Upper SS-52 is completely off-limits until further notice due to nesting birds.**

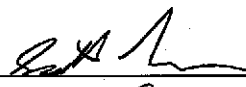
New lark sparrow nest in base of Helianthus annuus, 1 nestling. UTM 341766E, 3788482N.

New lark sparrow nest on ground under Trichostemma lanatum, 4 eggs, UTM 341831E, 3788524N.

New lesser goldfinch nest, just completed with no eggs yet, 2 ft up in Braunton's milkvetch, UTM 341781E, 3788526N.

Existing common poorwill nest not checked but assumed active. California towhee nest in toyon still active.


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



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

6/7/11

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



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

7/12/11

Date: 6-7-11

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: Northern Buffer Zone-W PII, PIA

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Nesting bird survey	Erady Daniels	6/13/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Nesting Birds		
1	Native trees	Y	

**NOTES AND RECOMMENDATIONS:**

\* Flagged off construction limits of clear ~~scrub~~ polygon within the WBZ. Southern Boundary rocky sand stone boulders and outcroppings. Chapparral scrub, with non-native grasses dominating understory. Northern Boundary thick chamise and open patch with mixed yerba Santa and chapparral malow. Northern portion C. tohee and Black headed Crossbeak territory, no nest observed. Lixentit, spotted tohee, lark sparrow, morning dove, scrub phoebe, jay, and C. Thrasher all observed within polygon.

Biologist Signature: [Signature]

Date: 6-7-11

HGL Field Supervisor Signature: [Signature]

Date: 7/1/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 6/8/2011	Survey Section (SS): SS-52 (partial)
Biologist: Scott Werner	Subarea: 8 South
Expiration: 6/15/11	Survey Type: Nesting birds, special-status species and habitats
Start time: 1300	End time: 1500

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-52	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-52	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-52	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

Surveying lower (SW) section of SS-52 to open up for mule gamma scanning.

California towhee nest with nestlings 0.5 ft up in poison oak regrowth clump (after VC last year), UTM 341705E, 3788583N. VC crew can still trim a nearby portion of vegetation.

**DOCUMENTED PREVIOUS IMPACT TO NESTING BIRD:** song sparrow nest with 2 eggs in milk thistle appears to have likely been knocked down by mule scanning several weeks ago. I monitored the activity and was aware that mule walked through that unsurveyed patch but couldn't stop mule in time and didn't make time to check afterward.

VC crew may access a small portion of SS-52 at SW corner to conduct limited weed whacking and lopping amongst milkvetch, baccharis, while keeping a distance from towhee nest.

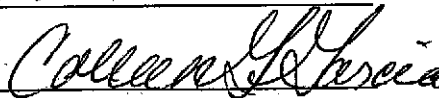
Biologist Signature: \_\_\_\_\_



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

6/8/11

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



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

7/12/11

Date: 6-8-11

Sheet \_\_\_ of \_\_\_

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: NBZ-W P11, P1A

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Nesting Bird	Brady Daniels	6/13/11

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Nesting Bird		
1	Phainopepla	N	Clearance set back 100+, the nest location is within a amphitheater of sand stone and noise disturbance is greatly intensified.

**NOTES AND RECOMMENDATIONS:**

Phainopepla nest NE corner of polygon, however the Sand Stone escarpments choke down within the area around nest causing access issues and increased noise disturbance issues. Nest is within critical incubation stage and should be protected by increasing buffer distance

Biologist Signature: [Signature]

Date: 6-8-11

HGL Field Supervisor Signature: [Signature]

Date: 7/1/11



**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 6/9/11	Survey Section (SS): P1I (partial)
Biologist: Scott Wenzel	Subarea: NBZ-W
Expiration: 6/16/11	Survey Type: Protected biological resources
Start time: 1100	End time: 1200

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
<del>P2K</del>	Nesting bird	Y	Y	VC-1, 65-1, 6P-1, 55-1
P2K -sw				

**NOTES AND RECOMMENDATIONS:**

Conducting brief clearance survey north of previously (sub westernmost) geophysical area in P1I.

Wren-tit nest near SCE tower access road 2 ft up in black sage at UTM 341344E, 3789054N. Large nestlings will fledge soon (next few days).

Biologist Signature: Scott Wenzel

Date: 6/9/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: Subarea B SS-31, Subarea JD South SS-50

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
SS31	Nesting bird	Brady Daniels	6/14/11
SS59	Nesting bird, sensitive plant survey		

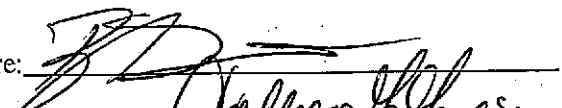
**SURVEY FINDINGS**


ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
SS31	live oak trees	N	Already flagged, discussed with crew that these two protected resources are present and to avoid.
	Tarplant	W	
	Nesting bird Acorn Woodpecker		
SS59	Nesting bird	N	* Vehicle parking and staging opposite side of HAO towers to avoid visual disturbance. No clearing buffer extended
	Malibu baccharis	Y	

58°F foggy

**NOTES AND RECOMMENDATIONS:**

Performed nesting bird survey. A binocular assessment of this previously cleared area was performed, at random high spots throughout the site inspecting area for nesting bird behaviors. Once bin assessment was completed observations identified an Acorn woodpecker nest/cavity within power pole. The cavity is ~~15~~ 35 to 40 and is in the chick bearing phase. Cavity faces the opposite direction of proposed clear and amb area. Monitoring will focus on birds behavior during clearing.

Biologist Signature: 

HGL Field Supervisor Signature: 

Date: 6-9-11

Date: 7/1/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 6/10/11	Survey Section (SS): P1-I
Biologist: Scott Werner	Subarea: NBZ-W
Expiration: 6/17/11	Survey Type: Protected biological resources
Start time: 800 - 1300	End time: 1300

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1-I	Bird nests	Y	Y	VC-1, GS-1, GP-1, SS-1
P1-I	Protected trees (elderberry)	Y	Y	VC-1
P1-I	S.S. tarplant, Dudleya	Y	Y	VC-1, GS-1, GP-1, SS-1
P1-I	Habitat for protected wildlife	N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Clearance survey around westernmost Geophysical polygon in P1-I, expanding previously cut area for gamma scanning.

• House wren nest in previously topped power pole cavity. UTM 341416E, 3788933N. ~~Active~~ nestlings. Cavity in 4 ft up.

• Calif. towhee nest in Verbena lasiostachys at base of lower sumac. One inactive egg (broken) and 2 warm eggs. UTM 341361E, 378909N. Nest is 2 ft up.

Suitable habitat identified for coast horned lizard, west patch-nosed snake, San Diego desert woodrat.

Biologist Signature: Scott Werner

Date: 6/10/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 6/10/11	Survey Section (SS): SS-59
Biologist: Scott Werner	Subarea: 5D South
Expiration: 6/17/11	Survey Type: Nesting birds
Start time: 1300	End time: 1315

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-59	Active bird nest	Y	Y	VC-1, GS-1, GP-1, SS-1
SS-59	Protected trees (elderberry, coast live oak)	N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Survey of existing uncut vegetation patch that ~~was~~ was restricted due to Bewick's wren nest.

New California towhee nest 1 ft up in Italian thistle, UTM 341969E, 3788386N. Bird sitting tight on nest (unknown whether eggs or nestlings). Nest is within 15 feet of edge of vegetation.

Biologist Signature: Scott Werner Date: 6/10/11

HGL Field Supervisor Signature: Colleen Garcia Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 6/13/11	Survey Section (SS): P1I, P3T, P20 (partial)
Biologist: Scott Warner	Subarea: NBZ-W
Expiration: 6/20/11	Survey Type: Protected resource S
Start time: 800	End time: 1500

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
all	Santa Susana tarplant	Y	Y	VC-1, VC-10, GS-1, GP-1, SS-1
	Dudleya	Y	Y	VC-1, VC-9, GS-1, GP-1, SS-1
	Nesting bird habitat	N	Y	VC-1, GS-1, GP-1, SS-1
P3T/P20	Nesting birds	Y	Y	VC-1, GS-1, GP-1, SS-1
	Protected trees	Y/N	Y	VC-1
	Maniposa (lilkes (non-flowering))	Y	Y	VC-1, GS-1, GP-1, SS-1
	Habitat for protected wildl/respecks	N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Clearance survey in NBZ-W during morning in chaparral N of access road and NE of cleared Geophysical Areas (not numbered).

One possibly active California towhee nest, recently finished building and pre-laying, located in yerba santa, phacelia, 2ft up, at UTM 341680E, 378A187N.

Santa Susana tarplant and Dudleya in (see above)

Afternoon, assisting VC monitoring and ~~surveying~~ <sup>surveying</sup> additional area in P1I/P3T. No new nests other than Wren-tit nest described on separate monitoring form.

All areas support suitable habitat for DFB-sensitive species: coast horned lizard, coast patch-nosed snake, silvery legless lizard, San Diego desert woodrat.

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

*Scott Warner*

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

6/13/11

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

*Colleen Garcia*

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

7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 6/14/11	Survey Section (SS): <del>NB6-7</del> PIF, PIJ (partial)
Biologist: Scott Wemer	Subarea: NB2-E
Expiration: 6/20/11	Survey Type: Protected resources
Start time: 830	End time: 1400

**SURVEY FINDINGS**

PIF, PIJ  
↓

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
<del>NB6-7</del>	Nesting Birds	Y	Y	VC-1
<del>NB6-7</del>	Santa Susana Tarplant	Y	Y	VC-10
<del>NB6-7</del>	Protected Trees	Y/N	Y	Ventura Co. Trimming Ordinance.
<del>NB6-7</del>	Suitable Habitat for Protected Wildlife Species	N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Clearance survey of Geophysical Survey area in ~~NB6-7~~ of NB2-E. PIF-PIJ  
Active bird nests were found; coast live oak, blue elderberry, Santa Susana tarplant are protected.

- PIF PIJ - California towhee nest w/ nestlings, 3ft up in Calif. sagebrush UTM 34336E, 3789843N.
- PIF - Lesser goldfinch nest pre-laying stage, 4ft up in poison oak UTM 343373E, 3789879N.
- PIJ - Calif. towhee nest w/ nestlings, 6ft up in laurel sumac UTM 343598E, 3789929N.
- PIJ - White-throated swift nest in sandstone ledge. UTM 343615E, 3789948N.
- PIJ - Phainopepla nest w/eggs, 20ft up in coast live oak UTM 343696E, 3789936N.

Suitable habitat for Calif. DFG protected wildlife: coast horned lizard, silver legless lizard, San Diego ~~coast horned lizard~~ desert woodrat, coast patch-nosed snake.

Biomonitoring required for all activities near rocky outcrops and nest buffers.  
No mowing allowed in woody scrub/chaparral/woodland areas during nesting bird season.

Biologist Signature: Scott Wemer

Date: 6/14/11

HGL Field Supervisor Signature: Callan Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 6/15/11	Survey Section (SS): SS-55, SS-56 (in part), SS-51 (in part)
Biologist: Swift Werner	Subarea: 5D North
Expiration: 6/22/11	Survey Type: Nesting birds
Start time: 800	End time: 1200

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-55	Nesting birds	Y	Y	SS-1, GP-1, GS-1, SS-1
SS-51	Nesting birds	Y	Y	SS-1, GP-1, GS-1

**NOTES AND RECOMMENDATIONS:**

Survey conducted in ~~anticipation~~ anticipation of upcoming Subsurface Soil Sampling in 5D North. 3 active bird nests were found.

① Song sparrow nest w/ nestlings. 2 ft up in milk thistle at UTM 342018E, 3788853N. Nest is within 15 ft of Sample Point 198. Point 203 will also be restricted.

② Song sparrow nest w/ nestlings. 1 ft up in milk thistle at UTM 341910E, 3788763N. Nest is near Points 200, 201, 205.

Hand augering near these nests may be okay. Otherwise, nestlings will be off nest within 7 days. Power auger prohibited at Points 198, 203, 200, 201, 205 until 6/22/11.

Biologist Signature: *[Signature]*

Date: 6/15/11

HGL Field Supervisor Signature: *Callan Gloria*

Date: 7/12/11

③ Blue Grosbeak nest at northern edge of SS-51, nestlings, 2 ft up in Italian thistle at UTM 341944E, 3788732N under walnut tree, along road. Project activities

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
**ENVICOM CORPORATION**

Date: 6/16/11	Survey Section (SS): SS-56
Biologist: Scott Werner	Subarea: SD North
Expiration: 6/23/11	Survey Type: Nesting bird
Start time: 900	End time: 1000

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-56	Nesting bird	Y	Y	VC-1, GS-1, GP-1, SS-1

**NOTES AND RECOMMENDATIONS:**

Blue grosbeak nest w/4 eggs located approx 15 feet from Geophysical RA/QC roadway, UTM 342136E, 3788750N. Nest is 2 feet up in mustard plant, within dense milk thistle.

Monitor required for scheduled mowing of GP pathways tomorrow. Established buffer of ~1520 ft will be expanded for upcoming Soil Sampling due to extremely loud auger noise and vibration.

Only GP pathways and immediate surrounding areas surveyed. VC of entire area not permitted unless supplemental survey done.

Biologist Signature: Scott Werner

Date: 6/16/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/17/11



**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 6/16/11	Survey Section (SS): SS-46 (in part), SS-47
Biologist: Scott Werner	Subarea: 8N
Expiration: 6/23/11	Survey Type: Nesting birds
Start time: 1015	End time: 1030

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-47	Nesting bird	Y	Y	VC-1, GS-1, GP-1, SS-1

**NOTES AND RECOMMENDATIONS:**

Northern mockingbird nest (laying phase, 2 eggs) located in west live oak @ 3 ft up, UTM 341710E, 3788920N. Lark sparrow pair ~~observed~~ observed in area, copulating. No nest located.

Upcoming Soil Subsurface Sampling may impact bird nest. Mockingbird does not appear to be incubating yet and likely only visits nest once per day to lay an egg, but will be sitting tight on nest within the next few days. Monitor required during SS activities

Biologist Signature: Scott Werner

Date: 6/16/11

HGL Field Supervisor Signature: Colleen Y. Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

PIE, PIF

Date: 6/16/11	Survey Section (SS): NBZ-E ( <del>NB5, NB6</del> in part)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: 6/23/11	Survey Type: Protected resources
Start time: 1045	End time: 1500

**SURVEY FINDINGS**

PIF, PIE  
↓  
PIE

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
<del>NB5, NB6</del>	Nesting bird habitat			VC-1, GP-1, GS-1, SS-1
<del>NB5, NB6</del>	<del>Golden Eagle</del>			
<del>NB5</del>	Golden Eagle nest	N	Y	↓
<del>NB5, NB6</del>	Protected trees	N	Y	
<del>NB5, NB6</del>	Protected wildlife habitat	N	Y	
<del>NB5</del>	Rufous-crowned sparrow nest	Y	Y	

**NOTES AND RECOMMENDATIONS:**

PIE, PIF

~~Survey~~ Area surveyed includes geophysical survey areas in ~~NB5, NB6~~, and extends slightly beyond this area, marked w/ green survey tape.

Suitable habitat identified for nesting birds (no active nests found directly in area to be cut) and for protected wildlife species such as coast horned lizard, silvery legless lizard, San Diego desert woodrat, and coast patch-nosed snake.

Monitor required for VC.

Previously found Southern California Rufous-crowned Sparrow nest along access road checked and still active w/ nestlings. Cutting not permitted near this nest (which was previously described on 5/31/11).

Golden eagle nest: 1 fledgling sitting on alternate nest all day. Older fledgling seen there briefly but also soaring. VC still restricted where noise and visual disturbances ~~are~~ are in line-of-sight of eagle nest.

Biologist Signature: Scott Werner

Date: 6/16/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 6/21/11	Survey Section (SS): SS-56 (part A1)
Biologist: Scott Weiner	Subarea: SDS
Expiration: 6/27/11	Survey Type: Nesting birds
Start time: 0950-1140	End time: 1140

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-56	Nesting birds	Y	Y	SS-1
SS-56	Protected trees (elderberry)	N	N	VC-1 (VC not expected there)

**NOTES AND RECOMMENDATIONS:**

Survey of SS-56 in support of upcoming Soil Sampling, which may require limited weed-whacking of vegetation.

New Lazuli Bunting nest at UTM ~~342287E~~ 342287E 3788736N, near SS point 150 (~30 ft away). Nest is 3 ft up in milk thistle, contains one hatching and one unhatched egg. Buffer established.

Common yellowthroat pair observed near elderberry and male singing well east of elderberry near SS points.

Other bird species observed included house wren, western wood-pewee, house finch, common raven, blue jay.

Only eastern-central portion of SS-56 surveyed - will continue survey later this week.

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

*Scott Weiner*

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

6/21/11

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

*Collin Garcia*

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

7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

PIE, PIF

Date: 6/22/11	Survey Section (SS): <del>N7, NBZ</del> (partial)
Biologist: Scott Werner	Subarea: NBZE
Expiration: 6/29/11	Survey Type: Nesting birds, protected plants and other wildlife
Start time: 0925 (1)	End time: 1045 (1)

1200 (2)

1330 (2)

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
<del>NBZ, NT</del>	Santa Susana Tarplant	Y	Y	VG-10, GS-1, GP-1, SS-1
<del>NBZ, NT</del>	Protected trees	N	Y	Ventura Co. Timing Ordinance
<del>NBZ, NT</del>	Nesting Bird habitat	N	Y	VC-1
<del>NBZ, NT</del>	Special concern wildlife habitat	N	Y	VC-1
<del>NBZ, NT</del>	Dudleys	Y	Y	VC-9, GS-1, GP-1, SS-1

PIE, PIF  
↓

**NOTES AND RECOMMENDATIONS:**

Surveyed additional areas for VC in <sup>PIE, PIF</sup> ~~N7, NBZ~~. Area within Geophysical survey zone, south of the road is ready for VC.

Golden eagle nest currently empty, although fledglings and adults may occasionally loaf at nest site, during which time visual and noise disturbances should be minimized. One fledgling seen soaring w/ 1 adult today.

Rufous-crowned sparrow nest along road is empty and likely fledged successfully. Suitable habitat identified for coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat (sign observed in rocks).

All Dudleys observed appears to be *D. lanceolata* (not protected).

Biologist Signature: Scott Werner

Date: 6/22/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

PID, PIE

Date: 6/23/11	Survey Section (SS): <del>NW3, NW4</del> (partial)
Biologist: Swift Werner	Subarea: NBZE
Expiration: 6/30/11	Survey Type: Protected resources
Start time: 12:5	End time: 1345

**SURVEY FINDINGS**

PID, PIE  
↓

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
<del>NW3, NW4</del>	Santa Susana Tomplants	Y	Y	VC-10-GS-1, GR-1, SS-1
<del>NW3, NW4</del>	Dudleya	Y	Y	VC-9, GS-1, GR-1, SS-1
<del>NW3, NW4</del>	Nests, bird habitat	N	Y	VC-1
<del>NW3, NW4</del>	Protected trees	N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Continued to survey and mark work area for VC in Geophysical Survey zone north of road in ~~NW3, NW4~~. PID, PIE  
No new nests found.

Biologist Signature: *Swift Werner*

Date: 6/23/11

HGL Field Supervisor Signature: *Colleen Garcia*

Date: 7/12/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 6/23/11	Survey Section (SS): SS-56 (part 1)
Biologist: Scott Werner	Subarea: SD N
Expiration: 6/30/11	Survey Type: Nesting birds
Start time: 0900	End time: 1100

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-56	Nesting Birds	Y	Y	VC-1, ES-1, GP1, SS-1

**NOTES AND RECOMMENDATIONS:**

Lazuli bunting nest still active (near SS point 150).  
 Common yellowthroats in area - monitoring required during any vegetation trimming in this area due to ground-level nesting potential by common yellowthroats.  
 Monitoring also required for drilling within 100 ft of Lazuli bunting nest.

Biologist Signature: Scott Werner

Date: 6/23/11

HGL Field Supervisor Signature: Carroll Garcia

Date: 7/17/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

PID, PIE

Date: 6/24/11	Survey Section (SS): <del>NW3, NW4</del> (partial)
Biologist: Sutt Wern	Subarea: NBZ-E
Expiration: 7/1/11	Survey Type: Protected Resources
Start time: 900	End time: 1100 (intermittent w/ monitoring VC)

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
<del>NW4</del>	Bird nest	Y	Y	VC-1, OS-1, GR-1, SS-1

PID

**NOTES AND RECOMMENDATIONS:**

New Wren-tit nest w/ chicks at UTM ~~342998E~~<sup>342998E</sup>, 342998E, 3789796N. Nest is 2ft up in a Canyon sunflower. Nest may be just outside Geophysical zone, north of gate connecting SA-6 with NBZ-E. Will likely fledge before veg crew reaches this area.

Also, House finches seen carrying nesting material toward SS-34 - flew out of sight.

No tarplant or dudley's seen down ~~stn~~ slope.

Biologist Signature: Sutt Wern

Date: 6/24/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 6/27/2011	Survey Section (SS): P1E, P1D (partial)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: 7/4/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 0830	End time: 1000

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1D	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Continued surveying P1D and P1E in anticipation of upcoming VC and GS. Wrenit nest described on Friday 6/24 still active with nestlings.

New Plummer's mariposa lily discovered off access road at UTM 343089E, 3789771N.

California towhee and spotted towhee fledglings seen in the area but no new nests.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

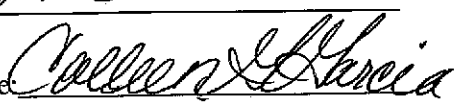
Biologist Signature: \_\_\_\_\_



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

6/27/11

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



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

7/12/11



# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

<b>Date:</b> 6/28/2011	<b>Survey Section (SS):</b> P1E, P1D (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> NBZ-E
<b>Expiration:</b> 7/5/2011	<b>Survey Type:</b> Nesting birds, special-status species and habitats
<b>Start time:</b> 0945	<b>End time:</b> 1115

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1D	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1E	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Continued surveying and marking the work boundaries of P1D and P1E in anticipation of upcoming VC and GS. Wrentit nest described on Friday 6/24 still active with at least 2 large nestlings.

New Plummer's mariposa lily discovered north of access road at UTM 343079E, 3789810N.

Bushtit family group with begging fledglings (relatively late in season).

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

\*\*SS-35 briefly checked to ID mariposa lilies seen in vegetative state in March/April and positively ID'd as Plummer's mariposa lily. Plants are still adequately marked with bio flagging.

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

Date: 6/28/11

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

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

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 6/28/2011	Survey Section (SS): SS-56 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 7/5/2011	Survey Type: Nesting birds
Start time: 0800	End time: 0915

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-56	Nesting bird habitat	N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

Checking nests and surveying in anticipation of upcoming Soil Sampling and minor associated weed-whacking.

Lazuli bunting nest has failed (not related to EPA activity). Male seen singing in area but no sign of female re-nesting. Blue grosbeak nestlings may have fledged but family group not seen in area (last checked on 6/22 with naked nestlings; literature says fledge 9-10 d after hatching). Lark sparrows seen on 2 occasions to gather food and fly to SS-58. No new nests, and remaining SS points rechecked with no suspected nestling activity.

Biologist Signature: 6/28/11 Scott Werner

Date: 6/28/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 6/29/2011	Survey Section (SS): P1J (partial)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: 7/6/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 0700	End time: 1030

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1J	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1J	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
P1J	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1J	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1

### NOTES AND RECOMMENDATIONS:

Phainopepla nest and California towhee nests are no longer active, so clearance survey is being conducted to open up additional Geophysical Survey zone to Vegetation Cutting.

Several patches of Plummer's mariposa lily discovered throughout large rocky outcrop area of eastern P1J.

Numerous fledglings seen throughout area (California towhee, spotted towhee, house finch, black-headed grosbeak) but no new nests.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

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

Date: 6/29/11

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

Date: 7/17/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 6/30/2011	Survey Section (SS): P1J (partial), plus supplemental nest check in P1F
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: 7/6/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 1000	End time: 1300

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1J	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1J	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
P1J	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1J	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1
PIF	California quail nest	Y	Y	VC-1, GS-1, SS-1, SS-2
PIF	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

Finished surveying and marking work area for easternmost NBZ-E Geophysical Survey zone. No new nests. Wrentits making agitated call - may be nesting nearby. Old black-headed grosbeak nest found in *Ceanothus oliganthus*.

Numerous fledglings seen throughout area (California towhee, spotted towhee, house finch, black-headed grosbeak) but no new nests.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

1415 Checking on California Quail nest in P1F. Still active, quail sitting tight. Flagged new Plummer's mariposa lily flowering 10 feet from quail nest.

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

Date: 6/30/11

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

Date: 7/12/11

**APPENDIX 3**

**FOURTH QUARTER  
BIOLOGICAL MONITORING FORMS**

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/7/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub area	Survey Section	Time	Activities Monitored	Equipment Used
6,7	SS-39	0830-1000 1300-1430	GS	Track-mounted gamma scanner

\* 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-39	Potentially Sensitive Mariposa lilies	GS-1	1 small non-flowering lily damaged

### NOTES AND RECOMMENDATIONS:

Flagged more lilies sprouting in area – still not flowering and specific identification not possible.

Dead red-tailed hawk – likely electrocution from power lines (not EPA-project related) – in SS-31. Could be one half of pair that had been scoping nest sites near SRE site. HGL Safety Supervisor notified.

Biologist Signature: 

Date: 4/7/11

HGL Field Supervisor Signature: 

Date: 04/17/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/11/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-35 SS-38	1130-1200 1300-1530	GS	Track-mounted gamma scanner

\* 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	AVM/MS Implemented	Residual Impacts
SS-35 SS-38	Potentially Sensitive Mariposa lilies	GS-1	None
SS-38	Nesting birds	GS-1	None

### NOTES AND RECOMMENDATIONS:

Morning spent conducting Least Bell's vireo and clearance surveys. Separate report.

Bushtit nest north of Outfall 004 active, parents delivering food.

Additional mariposa lilies flagged and mapped along N edge of SS-35 atop ledge above canyon.

Western scrub-jay pair in SS-17 have built new nest along road to SRE, incubating 4 feet up in coast live oak at UTM 342797E, 3789463N.

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

Date: 4/11/11

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

Date: 04/11/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/13/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS-39	0800-1500	VC	Chainsaws, weed whackers, loppers, front loader, 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-39	Nesting birds	VC-1	None
SS-39	Santa Susana Tarplant	VC-10	None
SS-39	Dudleya	VC-9	None
SS-39	Protected trees (coast live oak, elderberry)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

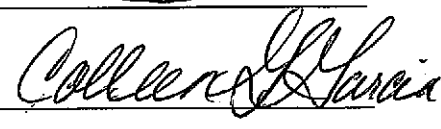
VC crew clearing eastern portion of SS-39. Crew given brief talk about high likelihood for nesting birds and behavioral cues that may indicate an active nest nearby.

#### Nesting birds:

- Western scrub-jay nest found in laurel sumac at UTM 342513E, 3789463N, 8 ft up in laurel sumac growing against sandstone outcrop, eggs/nestlings (sitting tight). Buffer established.
- Old (inactive) wrenit nest found while wee-whacking in Phacelia ramosissima. Eggs are broken and cold - already abandoned. Wrenit pair later observed carrying nest material to an unknown location down the hill to the east.

Biologist Signature: 

Date: 4/13/11

HGL Field Supervisor Signature: 

Date: 7/12/11



**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 4/14/2011 Thursday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5A	SS-19	0800-0915	SS	Power auger, tables, chairs, boxes
7	SS-39 SS-42	0915-1130	GS	ERGS/JCB, TMGS
6	SS-35	1300-1530	GS	TMGS

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

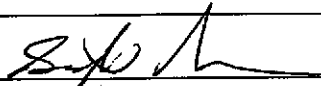
**MONITORING RESULTS**


Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-19	Nesting bird habitat	SS-1	None
SS-35, SS-39, SS-42	Nesting birds	GS-1	None
SS-35, SS-39, SS-42	Mariposa lilies	GS-1	None
SS-35	Dudleya	GS-1	None

**NOTES AND RECOMMENDATIONS:**

Bushtit nests in SS-35, SS-39 avoided. New unidentified (non-flowering) mariposa lilies flagged in SS-35.

Lewis's woodpecker still residing near SRE in SS-34, SS-36.

Biologist Signature:  Date: 4/14/11

HGL Field Supervisor Signature:  Date: 4/17/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/15/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
6	SS-35	1000-1230	GS	TMGS

\* 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
SS-35	Santa Susana tarplant, Mariposa lilies	GS-1	None

### NOTES AND RECOMMENDATIONS:

Bewick's wren nest in SS-35 may be abandoned due to natural causes – no avian activity near cavity.

Golden eagle nest checked from SS-35 overlook. At least one fluffy white eaglet seen with adult.

Biologist Signature: 

Date: 4/15/11

HGL Field Supervisor Signature: 

Date: 7/12/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/18/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS-39	0800-1100	VC	Chainsaws, weed whackers, loppers, front loader, 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-39	Nesting birds	VC-1	None
SS-39	Southern California rufous-crowned sparrow	VC-1	None

### NOTES AND RECOMMENDATIONS:

Bushtit nest in central SS-39 has fallen down (not related to EPA activity) – eggs still inside. Southern California rufous-crowned sparrow (DFG Watchlist) onsite. Costa's hummingbird also observed in area.

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



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

4/18/2011

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



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

7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 4/18/11

Biologist: J. Anderson

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
1	39	1200-300	VC	Chipper, chain saws

\*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	AMMPs Implemented	Residual Impacts
39	bird egg of Calif Thrasher	N/A	Unknown if natural or project take
39	Santa Susana tarplant	VC-10	None
39	Dudleya sp.	VC-9	None
39	Potential manzanita lilies	flashed/avoided	None
39	Protected trees (Coast live oak, blue elderberry)	H&C Snip Veg Management Protocols	Understory limbs only trimmed
39	Nesting birds	Buffers: activities & nests monitored	Potential take of one nest (see below)

**NOTES AND RECOMMENDATIONS**

• Single bird egg of Calif Thrasher on ground in open area without vegetative cover. Unknown if result of natural occurrence (natural nest disturbance such as predation, nest abandonment, etc) or result of project activities.

• Young dependent woodrat found near cuttings, apparently moved from nest when attached to cut branches during veg removal. Young woodrat was placed under cover near two nearby woodrat nests, and was gone next day. Possibly retrieved by adult woodrat and returned to nest or possible nest predation. No impact, as Big-eared woodrat not special-status species.

Biologist Signature: *J. Anderson*

Date: 5/4/11

HGL Field Supervisor Signature: *Liah Speer*

Date: 5/5/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 4/19/11

Biologist: J. Anderson

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	39	1100-300	VC	Chippers, chain saws, whippers, loppers

\* 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
39	Protected trees (Coast live oak, elderberry)	HGL SMP Veg Management Protocols, V-ta CO Tree Trimming Guideline	Undercutting limbs/ dead limbs cut only
39	Nesting birds	Butlers' Activities/Nests Monitored	None
39	Santa Susana transplant	VC-10	None
39	Dudleya sp	VC-9	None
39	Maryssa lilies	Avoided	None

**NOTES AND RECOMMENDATIONS**

Bush-tits, scrub jay nesting ongoing

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

Date: 4/27/11

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

Date: 4/28/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/19/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS-39	0800-1100	VC	Chainsaws, weed whackers, loppers, front loader, 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-39	Nesting birds	VC-1	None
SS-39	Southern California rufous-crowned sparrow	VC-1	None

### NOTES AND RECOMMENDATIONS:

Crews still cutting area on far eastern side of SS-39 where no active nests have been discovered.

Biologist Signature: 

Date: 4/19/11

HGL Field Supervisor Signature: 

Date: 7/12/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/20/11

Biologist: J. Anderson

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	39	800-300	VC	Chipper, chain saws, limbers, loggers

\* 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
39	Protected trees (Coast live oak, blue elderberry)	HGL SMP Veg Management Protocols, Vita Co. tree trimming guidelines <del>Flaccidant</del>	Understory / dead branches trimmed only.
39	<del>Red</del> Mariposa lilies	Avoided	None
39	Santa Susana flycatcher	VC-10	None
39	Dudleya sp.	VC-9	None
39	Nesting birds	Butters; Activities/Nests monitored	None

### NOTES AND RECOMMENDATIONS

- Potential house finch nest near outfall facility (later confirmed nest construction was abandoned, no nesting)
- Other nesting is ongoing.

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

*J. Anderson*

Date: 4/27/11

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

*Leah Spizer*

Date: 4/28/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/21/2011 Thursday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS-39	0800-1550	VC	Chainsaws, weed whackers, loppers, front loader, 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-39	Nesting birds	VC-1	Vegetation around one nest exposed and mitigation attempted (see below).
SS-39	Southern California rufous-crowned sparrow	VC-1	Vegetation around nest exposed and mitigation attempted (see below).

#### NOTES AND RECOMMENDATIONS:

Southern California rufous-crowned sparrow nest w/ 3 eggs in dense mustard patch, along road, previously undiscovered, exposed by weed whacking activity. Contents and nest itself not damaged. Biologist attempted to restore high degree of vegetative cover to nest by piling yerba santa branches and deerweed adjacent to nest. Crews were moved away from immediate area but female is reluctant to return to nest during 1400-1530 hrs. High degree of vegetative cover has been restored, which is the best that can be done today. Nest UTM 342466E, 3789542N.

Song sparrow nesting in Phacelia ramosissima at approx. UTM 342426E, 3789468N. Nest not seen but food delivery and fecal sac removal observed. Buffer established.

Cooper's hawk hunting in area.

American crow, common ravens in area, appear curious about VC. Monitors should be aware of indirect impacts to wildlife/nesting birds during or after VC activities from these predators.

Phainopepla (male) seen onsite.

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

Date: 4/21/11

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

Date: 7/12/11



**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 4/22/2011 Friday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Site area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS-39	0800-1500	VC	Chainsaws, weed whackers, loppers, front loader, 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-39	Nesting birds	VC-1	None
SS-39	Southern California rufous-crowned sparrow	VC-1	None – nest from yesterday is still active

**NOTES AND RECOMMENDATIONS:**


Southern California rufous-crowned sparrow is still incubating nest that was exposed and reconcealed with loose vegetation yesterday. Buffer established although nest is along edge of road.

Previously undiscovered wren tit nest w/ 4 eggs found by VC worker: UTM 342424E, 3789503N, 2 feet up in yerba santa. Some woody chaparral near nest has been removed but nest shrub is still 8-10 feet from edge of cut vegetation.


California towhee nest under construction near edge of cut vegetation was removed by biologist.

New Anna's hummingbird nest begun in same tree as active Bushtit nest. Anna's hummingbird nest is 5 feet up in a coast live oak at UTM 342407E, 3789470N.

At least 2 fledgling song sparrows in Phacelia near above-mentioned oak, from nearby nest.

Biologist Signature: 

Date: 4/22/11

HGL Field Supervisor Signature: 

Date: 7/12/11

Date: 4/25/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

*J. Anderson*

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-300	T-39	<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, chain saws,
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	whippers
			<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	Santa Susana Tayplant	39	VC-10	None
1	Dudleya	39	VC-9	None
1	Nesting birds	39	Buffers; activities and nests monitored	None
1	Potential Mangrove (lilies)	39	Flagged/avoided	None
1	Protected trees (Coast live oak, elderberry)	39	HGL SMP Veg management protocols	Understory limbs trimmed only

**NOTES AND RECOMMENDATIONS:**

• Song sparrow observed feeding fledgling in laurel sumac near southern fence line. Crew did not work near this area today. Also house finches feeding fledglings on southern chain link fence at southern boundary, not affected by activities.

• Rufous-crowned sparrow, wren-tit, scrub jay, bush-tit nesting ongoing. Swallows appear to be nesting in cliffs in NBZ near section 39, will be investigated further, buffer established if necessary following day; crew not working near this area so no disturbances to nesting swallows ~~by project activities~~.

Biologist Signature: *J. Anderson*  
 HGL Field Supervisor Signature: *Teah Speer*

Date: 5/5/11  
 Date: 5/8/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/26/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS-39/ NBZ	0800-1100	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-59	1200-1500	VC	Chainsaws, weed whackers, loppers, front loader, 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-39, SS-59	Nesting birds	VC-1	None
SS-59	Braunton's milkvetch	VC-3	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed
SS-59	Santa Susana tarplant	VC-9	None

### NOTES AND RECOMMENDATIONS:

Cutting along W end of SS-39 and adjoining NBZ. Was surveyed for resources during previous several days while monitoring. Suspected wrenit nest in poison oak has been flagged off. Location: UTM 342320E, 3789454N.

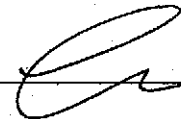
Afternoon monitoring and clearance survey (separate report) at SS-59: cutting in flat grassland area in N SS-59.

Second Envicom monitor Jim Anderson present to assist with surveys and monitoring.

Veg crew responsible for 3 damaged Santa Susana Tarplants when weeding around Building 204. No monitor requested. Building 204 not located on Area IV.

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

Date: 4/26/11 \_\_\_\_\_

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

Date: 04/26/11 \_\_\_\_\_

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/26/11

Biologist: J. Anderson

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	39	1030-130	VC	Chippers, loggers, whippers, chain saws
5D	59	130-300	VC	Vehicle mower, whippers, chain saws, loggers

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

## MONITORING RESULTS

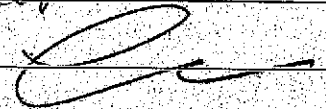
Survey Section	Protected Resources Encountered	AMMs Implemented	Residual Impacts
39	Potential nesting bird	Buffer established / Flagged Activities / nest monitored	None
59	Santa Susana forplant	VC-10	None

### NOTES AND RECOMMENDATIONS

- SS39 - Vegetation clearance activities concentrated in southwestern end of SS-39 to the southwest of nearby NPDES outfall. Also, VC in portion of adjacent SE-NW1 between unimproved road to same outfall facility and section 39.
- SS39 - tadpoles in ponded water at outfall facility western had
- SS39 - Wrenlet observed carrying nest material to shrubs in SS39. Buffer established but nestings could not be verified 4/26 and continue observation 4/27. No veg clearance permitted in buffer.
- SS-59 - Requested vegetation be mowed/cut to no lower than 6 inches in height.
- SS-59 - Dead Brauntonia milkvetch<sup>(s)</sup> observed on low gradient ~~herb~~ herb-covered slopes near northern boundary of polygon, but no live individuals in vicinity. One Santa Susana forplant flagged.

Biologist Signature: 

Date: 4/26/11 in same area

HGL Field Supervisor Signature: 

Date: 4/26/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/27/2011 Wednesday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0800-1500	VC	Chainsaws, weed whackers, loppers, front loader, 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	AMMPs Implemented	Residual Impacts
SS-59	Nesting birds	VC-1	Possibly 1 nest with 3 eggs destroyed
SS-59	Braunton's milkvetch	VC-3	None
SS-59	Unidentified mariposa lilies	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

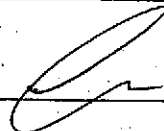
### NOTES AND RECOMMENDATIONS:

Clearance survey conducted throughout day ahead of crew. Second Envicom monitor Jim Anderson present to assist with surveys and monitoring

SW ~~sparrow~~ Cutting mainly in northern grassland area of SS-59. After weed whacking and chainsawing in tree tobacco area near song sparrow nesting buffer, 3 cold bird eggs found on ground whose measurements and appearance indicate likely ~~lark~~ California towhee. Unknown if there was a nest present and whether it was destroyed by project activities. Nest may have been in the laying stage and was left unattended by adult. UTM 342107E, 3788473N.

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

Date: 4/27/11

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

Date: 04/27/11

Date: 4/27/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	730-830	7-39	<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	N/A Monitoring potential nest
2	830-200	5D-59	<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, chain saws, bladders
3	200-300	7-39	<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	Track mounted scanner
			<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 wren-tit nest	7-39	N/A See notes	N/A work not conducted in vicinity
2	Nesting birds	5D-59	Buffers; nests/activities monitored	None
2	Santa Susana tarplant	5D-59	VC-10	None
2	Braunton's milkvetch	5D-59	VC-3	None
2	<del>Protected trees</del>	5D-59		
3	Nesting birds	7-39	Buffers; nests/activities monitored	None

**NOTES AND RECOMMENDATIONS:**

• Section 7-39 surveyed a patch of vegetation where wren-tits may be nesting. Nesting presence/absence could not be determined, but considered unlikely birds are nesting in patch based on behaviors of ~~the~~ wren-tits in area. Patch should be avoided until further observation conducted.

• Braunton's milkvetch - new growth of 723 individuals within area marked by construction fencing on lower gradient slopes in northern part of section. Construction barrier fencing previously used to mark area of mature milkvetch, which is now dead.

• Single Santa Susana tarplant among relatively dense herbaceous vegetation in northern portion of site on relatively lower-gradient slopes (northern part of section). Avoided

• Track mounted scanner operated in vicinity of scrub jay nest in 7-39, buffer was avoided. Nesting and nest observed - resting does not appear disturbed by noise/activity.

Biologist Signature: *[Signature]*

Date: 5/5/11

HGL Field Supervisor Signature: *[Signature]*

Date: 5/5/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/28/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0730-1430	VC	Chainsaws, weed whackers, loppers, front loader, chipper, mower
5D South	SS-59	0800-1430	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	AMIMs Implemented	Residual Impacts
SS-59	Nesting birds	VC-1	None (some trimming adjacent to one nest).
SS-59	Santa Susana Tarplant	VC-9	None
SS-59	Braunton's milkvetch	VC-3	None
SS-59	Unidentified mariposa lilies	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

Clearance survey conducted throughout day ahead of crew. Second Envicom monitor Jim Anderson present to assist with surveys and monitoring.

New active bird nests today:

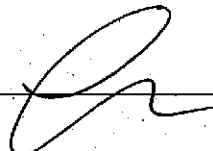
- California towhee nest #1: 2 feet above ground in laurel sumac. Nest has 3 eggs with incubating bird. Was discovered after trimming some brush near it (nest is undamaged and surrounding cover remains good). UTM 342187E, 3788397N
- California towhee nest #2 two feet above ground in *Artemisia californica* at east end of SS-59: 1 egg (nest was found completed on 4/26 but was empty). Nest is unattended and bird appears to be laying eggs (1 per day). UTM 342328E, 3788419N.

Baby Botta's pocket gopher (*Thomomys bottae*) found in wake of mower. Delivered to California Wildlife Center, a wildlife rescue facility near Envicom office.

Notable migratory birds recorded during monitoring included ash-throated flycatcher, blue grosbeak, Townsend's warbler, rufous hummingbird.

Biologist Signature: 

Date: 4/28/11

HGL Field Supervisor Signature: 

Date: 04/28/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 4/29/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0800-1400	VC	Chainsaws, weed whackers, loppers, front loader, chipper, mower
5D South	SS-59	0800-1130	GS	ERGS, track-mounted scanner

\* 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-59	Nesting birds	VC-1	None ( <del>some trimming adjacent to one nest</del> , SW)
SS-59	Santa Susana Tarplant	VC-9	None
SS-59	Braunton's milkvetch	VC-3	None
SS-59	Unidentified mariposa lilies	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

VC crew continuing to clear in E SS-59.


Active bird nests checked today (all have been described in previous reports):

- Song sparrow nest #1, still feeding nestlings
- California towhee nest #1, bird incubating
- California towhee nest #2 described on 4/28 has 2 eggs in it today with no bird in attendance (still laying)
- Western scrub-jay nest active with nestlings, buffer staked off today

Crows and ravens were seen cruising the recently cut areas for food. Nest checks should not be conducted in the presence of these nest predators. No trash should be left onsite.

Biologist Signature: 

Date: 4/29/11

HGL Field Supervisor Signature: 

Date: 04/29/11



# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/2/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0730-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-59	0900-1500	GS	ERGS, track-mounted scanner

\* 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-59	Nesting birds	VC-1	None (some trimming adjacent to one nest) SW
SS-59	Santa Susana Tarplant	VC-9	None
SS-59	Braunton's milkvetch	VC-3	None
SS-59	Unidentified mariposa lilies	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed
SS-59	Coast horned lizard	VC-1	Relocated 450 feet away

### NOTES AND RECOMMENDATIONS:

VC crew continuing to clear in E SS-59.

Active bird nests checked today (all have been described in previous reports):

- Song sparrow nest #1 nestlings have fledged, but fledglings are still being fed in the uncut vegetation patch. Cutting will continue to be prohibited there until fledglings are strong enough to be out of danger of VC crew.
- California towhee nest #1, bird incubating
- California towhee nest #2, bird incubating with 3 eggs in it. ERGS has entered buffer area beyond stakes and bird is hesitant to return. Buffer enlarged to ~100 feet late in day. Monitor will check it tomorrow.

Song sparrow feeding fledgling upslope from California towhee nest #2, VC crews did not reach this area today.

Coast horned lizard (adult, SVL 81mm) found at UTM 342245E, 3788382N. Relocated beyond SSFL property, 450 ft to SW. Crows and ravens are cruising the cut areas for food. Nest checks should not be conducted in the presence of these nest predators. No trash should be left onsite.

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

Date: 5/2/11

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

Date: 05/02/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/3/2011 Tuesday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0800-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-59	0830-1500	GS	ERGS
<del>5D South</del> North	SS-50	1330-1430	SS	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	AVMPS Implemented	Residual Impacts
SS-59	Nesting birds	VC-1	None (some trimming SW adjacent to one nest).
SS-59	Santa Susana Tarplant	VC-9	None
SS-59	Braunton's milkvetch	VC-3	None
SS-59	Unidentified mariposa lilies	VC-1	4 unmarked plants trimmed (not flowering yet)
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed
SS-50	California towhee injured in mouse glue trap on auger rig	n/a	Bird successfully cleaned, appears to be okay upon release.

#### NOTES AND RECOMMENDATIONS:

VC crew continuing to clear in E SS-59.

New bird nests found today in SS-59:

- Wrenit nest #2: 3 nestlings, nest is 2 ft above ground in purple sage/deerweed. Flagged dead branch 15 feet NE of nest for location. UTM 342075E, 3788375N.
- Lazuli bunting nest nearby above nest, nearly completely built at UTM 342062E, 3788382N. Located 18" above ground in Solanum.

Buffer of about 50' established around these nests.

Common raven seen carrying yellowish prey resembling coast horned lizard from approximate location of coast horned lizard relocation yesterday. It may be prudent to relocate these reptiles further away from work zone since predators are actively hunting within the vegetation trimming areas.

Biologist Signature: 

Date: 5/3/11

HGL Field Supervisor Signature: 

Date: 05/03/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/4/2011 Wednesday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0800-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-58 SS-59	0830-1500	GS	ERGS
5D South	SS-50	1330-1430	SS	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-58, SS-59	Nesting birds	GS-1, VC-1	None
SS-59	Santa Susana Tarplant	VC-9	None
SS-58, SS-59	Braunton's milkvetch	GS-1, VC-3	None
SS-58	Malibu baccharis	GS-1	None
SS-59	Unidentified mariposa lilies	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

VC crew continuing to clear in E SS-59.

Bird nests in SS-59:

- New lesser goldfinch nest #2: building 25 ft up in coast live oak at UTM 342136E, 3788388N
- New California towhee nest #3: 3 eggs, nest is 2 ft above ground in black sage/chamise/deerweed/dodder at UTM 342368E, 3788333N, appears to be outside of Area IV.
- Song sparrow nest #2 has failed due to predation. Song sparrow nest #1 fledgling(s) still being fed in remnant vegetation patch.


SS-58:

- New house finch nest in milk thistle, 3 feet up at UTM 342252E, 3788522N. 5 eggs, incubating. ERGS was guided around nest and a 15-foot buffer.

ERGS scanning in grassland area in SS-58 out of occupied Braunton's milkvetch and Malibu baccharis habitat. Track-mounted scanner doing test run up SS-58 through Braunton's milkvetch area without monitor. No impacts, crew reminded of need for monitoring when working in occupied endangered species habitat.

Biologist Signature: 

Date: 5/4/11

HGL Field Supervisor Signature: 

Date: 05/04/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/5/2011 Thursday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0800-0900	VC	Chainsaws, weed whackers, loppers, front loader, chipper
NBZ-W	NBZ-W (SS-39)	1200-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper, mower
5D South	SS-49	0900-1000	GS	ERGS
5D South	SS-50	1230	SS	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-59 SS-39/NBZ-W	Nesting birds	GS-1, VC-1	NBZ-W/SS-39: 1 previously undiscovered wren-tit nest with 4 nestlings knocked down, nest re-mounted in attempt to let parents continue feeding
SS-59	Santa Susana Tarplant	VC-9	None
SS-49, SS-58, SS-59	Braunton's milkvetch	GS-1, VC-3	None
SS-58	Malibu baccharis	GS-1	None
SS-59	Unidentified mariposa lilies	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed
SS-50	chaparral whipsnake	SS-1	slightly injured after getting stuck in Boeing's straw wattle. Light lacerations but will be okay.

#### NOTES AND RECOMMENDATIONS:

New Braunton's milkvetch plants coming up in SS-49. This is a range extension of the known population previously considered limited to Subarea 8 South. Seed bank previously dormant in mature chamise chaparral has sprouted after EPA vegetation cutting in SS-49 during Nov-Dec 2010, which is not completely unexpected for this disturbance-responder species. (SS-49 was not burned during 2005 Topanga Fire.) Today the ERGS avoided all known plants and will require close biological monitoring when scanning in this area.

VC crew continuing to clear in E SS-59 during morning. Afternoon, clearing in NBZ-W adjacent to SS-39.

5/5/2011

Scott Werner

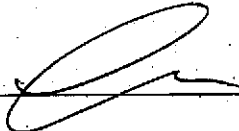
Bird nests in SS-39/NBZ-W:

- New California towhee nest in deerweed 4 feet above ground at UTM 342281E, 3789452N; fully completed with no eggs yet. 20-ft buffer established.
- Previously undiscovered Wrentit nest with 4 young (featherless/eyes closed) knocked down from yerba santa by mower but still intact and nestlings alive. California Wildlife Center in Calabasas surprisingly refused to take young – will not deal with them for nesting birds again. Nest with young placed in black sage 10 feet away which hopefully will allow parents to find and continue to feed young. RECOMMENDATION: 45 minutes for clearance survey at midday was not sufficient to find this nest. Any new vegetation clearing will require 24 hours notice to survey area for nesting birds under suitable survey conditions (i.e. early morning hours). During nesting bird season, mowing should only be permitted in open grassy/disturbed areas with a low likelihood of nesting. Brushy chaparral/woodland areas should be trimmed only with hand tools, a technique that has been successful in limiting damage when encountering previously undiscovered nests before irreparable harm has been done (e.g., nests at SS-39, SS-59).

ERGS scanning in SS-49 in occupied Braunton's milkvetch and Malibu baccharis habitat.

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

Date: 5/5/11

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

Date: 05/05/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/5/11

Biologist: J. Anderson

### ACTIVITIES MONITORED

Sub Area	Survey Section	Time	Activities Monitored	Equipment Used
1	815-230	8-49	GS	ERGS
2	230-330	8-51	GS	ERGS

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

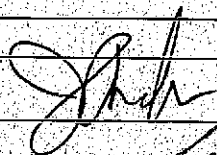
### MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMMs Implemented	Residual Impacts
49/51	Braunton's milkvetch	GS-1 Monitor/present	None
49	Malibu baccharis	GS-1 Flagged/avoided	None
49/51	CC. gnatcatcher habitat	GS-1-8	None
49	Coast horned lizard	Avoided/monitor present	None
49	Maryanna lilies	Flagged/Avoided Monitor present	None

### NOTES AND RECOMMENDATIONS

- New growth of Braunton's milkvetch in 8-49 (100's of individuals estimated) ~~was~~ <sup>was</sup> flagged. Monitor required for all gamma scanning in areas of 8-49.
- Coast horned lizard - could not be captured and moved. Took cover in woodrat nest, which was avoided during scanning.

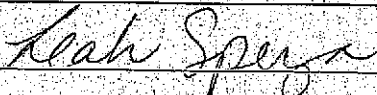
Biologist Signature: \_\_\_\_\_



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

5/5/11

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



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

5/5/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/6/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	NBZ-W (SS-39)	0730-900	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-49	0900-1000	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	AVM's Implemented	Residual Impacts
SS-39/NBZ-W	Nesting birds	GS-1, VC-1	2 wrenit nestlings from yesterday's nest impact have died. 2 live nestlings delivered to wildlife rescue facility
SS-49	Braunton's milkvetch	GS-1, VC-3	None
SS-49	Malibu baccharis	GS-1	None
SS-39/NBZ-W	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

VC crew continuing to clear NBZ-W adjacent to SS-39.


Bird nests in SS-39/NBZ-W:

- New lesser goldfinch nest 8 feet up in coyote brush, incubating, UTM 342356E, 3789470N, 10 feet south of Outfall 3. Buffer established.
- Wrenit nestlings in yesterday's relocated nest not being fed by parents. 2 nestlings alive, 2 dead. Nest removed and delivered to Beth Garcia of the Ojai Raptor Center at 3pm. Nestlings fed ground mealworms regularly until transfer to ORC; nestlings weak but chances for survival are good.

ERGS scanning in SS-49 in occupied Braunton's milkvetch and Malibu baccharis habitat.

Biologist Signature: 

Date: 5/6/11

HGL Field Supervisor Signature: 

Date: 05/06/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/6/11

Biologist: J. Anderson

## ACTIVITIES MONITORED

Sub Area	Survey Section	Time	Activities Monitored	Equipment Used
7	39	1200-230	VC	Chain saws, Clipper, Loppers, Whippers
8	49	230-330	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
39	Nesting Birds	Buffer; Nest to be monitored	None
39	Protected trees	HGL SMP Veg Man Intocul and V to other immo's <i>findat</i>	Understory 1 inch cut per V to canopy <i>incl wave only</i>
49	Braunton's milkvetch	GS-1	None
49	Malibu baccharis	GS-1	None

## NOTES AND RECOMMENDATIONS

Biologist Signature: 

Date: 5/6/11

HGL Field Supervisor Signature: 

Date:



# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/9/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0800-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-58	1500-1545	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-59	Nesting birds	GS-1, VC-1	1 wrenit nest with 4 eggs lost.
SS-59	Potential special-status mariposa lilies	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

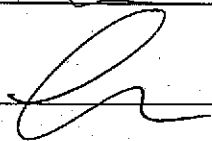
VC crew continuing to clear SS-59.

Bird nests in SS-59 (see previous reports for some references):

- Previously undiscovered Wrenit nest 1 foot up in dense deerweed at UTM 342164E, 3788340N lost due to cracking of eggs by weed whacker's impact. RECOMMENDATION: focus bio surveys on cryptic shrub-nesters that have a high likelihood of impacts such as wrenits, California towhee, song sparrow, California thrasher, etc.
- Newly discovered Bewick's wren nest in previously cut laurel sumac discovered at UTM 342217E, 3788422N. Feeding audible nestlings in cavity at base of burned trunk. Nest was active when tree was cut 1-2 weeks ago and luckily was not destroyed or buried at the time. Parents are tolerant of nearby human activity. 15-foot buffer established around nest.
- Lesser goldfinch nest #2 has not been completely build and it appears that pair have abandoned building it. Buffer removed.
- Blue grosbeak building nest in existing nest buffer patch of tree tobacco/thistle in flats of SS-59. Nest not seen directly but approx. UTM 342078E, 3788456N.
- New California towhee nest with 3 eggs in same patch at UTM 342092E, 3788452N. 2 feet above ground in mulefat/milk thistle.
- New Song sparrow nest (#3) with audible nestlings at UTM 342065E, 3788414N, 1 foot above ground in nightshade/deerweed/yerba santa. Existing wrenit and lazuli bunting nest buffer enlarged to accommodate this new nest.

Biologist Signature: 

Date: 5/9/11

HGL Field Supervisor Signature: 

Date: 05/09/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/9/11

Biologist: J. Anderson

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8	49	800-945	GS	ERSS
7	39	945-1045	GP	Standard 6V 29 mp (status of nests)
8	49	1045-330	GS	ERSS

\* 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
49	Braconia milkweeds	GS-1	See notes
49	Mel. bu. blackbirds	GS-1	See notes
49	Coast. horned lizard (?)	Partially moved to safe location	None
49	Protected trees	Avoided	None
49	Mourning doves	GS-1	None
39	Nesting birds	Buffers used; nests/activities monitored	None

## NOTES AND RECOMMENDATIONS

Doing gamma scanning using ERSS in 8-49 resulted in:

- Take on 2 individuals of Braconia milkweeds
- Damage to 5 individuals of Braconia milkweeds by ERSS or trampling.
- 1 Braconia milkweed was reported by ERSS. This ind. was neutralized - survival expected but not monitored so far.
- Damage to 2 individuals of Mel. bu. blackbirds by ERSS - survival these individuals are expected to survive.

Status of nesting birds in 7-39 monitored - nesting in oaks. No nesting believed to be in oaks of former oak.

Biologist Signature: J. Anderson Date: 5/10/11

HGL Field Supervisor Signature: [Signature] Date: 5/10/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 5/10/2011 Tuesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0730-1500	VC	Chainsaws, weed whackers, loppers, front loader, 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-59	Nesting birds	GS-1, VC-1	None
SS-59	Potential special-status mariposa lilies	VC-1	None
SS-59	Coast horned lizard	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

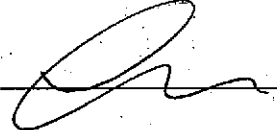
**NOTES AND RECOMMENDATIONS:**

Bird nests in SS-59 (see previous reports for some references):

- New Bewick's wren nest (#2) at base of walnut tree at UTM 341972E, 3788378N. Delivering food.
- Western scrub jay nest described on first day of VC at SS-59 is empty and young have fledged. Family group seen today on slope west of water tank. Buffer removed.
- California thrasher carrying food to unknown location downslope of water tank. No nest found.
- Coast horned lizard located along ridgetop at UTM 341996E, 3788355N.

Biologist Signature: 

Date: 5/10/11

HGL Field Supervisor Signature: 

Date: 05/10/11

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**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 5/10/11

Biologist: J. Anderson

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8	49	800 - -	GS	EMRS
8	48	- - - -	GS	"
5D	51	- 330	GS	"

\* 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
8-49	Braunton's milkvetch		One individual uprooted (replanted)
8-49	Malva baccharis		1 plant damaged
8-48	Nesting birds	Buffer avoided; nest/activities monitored.	None
8-48	Braunton's milkvetch		None
8-48	Protected trees	Avoided	None

**NOTES AND RECOMMENDATIONS**

8-49: 1 Malva baccharis damaged, but will survive. 1 Braunton's milkvetch uprooted & replanted.  
 Club-leaved mangrove lilia (Cochlospora clavata var. pallidus) in section (yellow flowers) - this variety is not special status.

8-48: Song sparrow nest in grasses & annual grasses near a half black walnut. Nestlings in nest. Buffer established around nest.  
 One Braunton's milkvetch in section - flagged.

5D-513 No protected resources encountered today.

Biologist Signature: *J. Anderson*

HGL Field Supervisor Signature: *Charles Garcia*

Date: 5/13/11

Date: 5/13/11

**BIOLOGICAL RESOURCE MONITORING FORM**  
ENVICOM CORPORATION

Date: 5/11/2011 Wednesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0730-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-58	0730-1430	GS	ERGS/JCB
8 North	SS-43	1430-1510	VC	Chipper

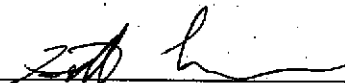
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

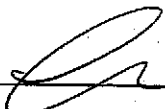
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-59, SS-58, SS-43	Nesting birds/nesting habitat	GS-1, VC-1	None
SS-58	Braunton's milkvetch	GS-1	None
SS-58	Malibu baccharis	GS-1	2 plants damaged
SS-59, SS-58	Potential special-status mariposa lilies	<del>VC-1</del> GS-1, VC-1	4 lilies damaged by JCB
<del>SS-59</del> , SS-58	Coast horned lizard	<del>VC-1</del> GS-1	3 relocated out of harm's way (<100ft away)
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

**NOTES AND RECOMMENDATIONS:**

VC crew chipping old brush piles in SS-43. All brush piles that have been left for more than 2 days must be inspected by biologist for bird nests before removal. 3 large Alligator lizard found today at SS-43. Bewick's wren family group seen near brush piles but no active nests found.

Biologist Signature: 

Date: ~~5/10/11~~ 5/11/11 <sup>SW</sup>

HGL Field Supervisor Signature: 

Date: 5/11/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/12/2011 Thursday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8 North	SS-43	0730-1000	VC	Chipper
5D South	SS-59	1000-1100 1200-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper, mower
8 North	SS-43	1100-1200	SS	Power auger, foot traffic, chairs, tables, equipment boxes
5D South	SS-58	1330-1545	GS	ERGS/JCB

\* 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	AMMPs Implemented	Residual Impacts
SS-59, SS-58. SS-43	Nesting birds/nesting habitat	GS-1, VC-1	None. <i>Car removed to nest SW</i>
SS-58	Braunton's milkvetch	GS-1	One 4-inch plant run over but still standing.
SS-58	Malibu baccharis	GS-1	None
SS-59, SS-58	Potential special-status mariposa lilies	VC-1	None
SS-59, SS-58	Coast horned lizard	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:


**Nesting birds:**

- California towhee nest under construction in old brush pile left by LDI in March –it was barely started so I removed it. SS-43
- California towhee nest with 1 nestling in old brush pile scheduled for chipping in SS-43 at UTM 341807E, 3788888N. Nest is 1 foot above ground in brush pile that is 1-2 feet high with no green foliage (i.e., atypical nesting habitat for what we've seen on project lately, but not surprising from biological standpoint).
- California towhee nest 10 feet up in coast live oak in SS area in SS-43, eggs/nestlings, UTM 341913E, 3788976N. Crew was advised to keep equipment and people on other side of oak tree.
- California towhee nest 2 feet up in Artemisia californica along ridgetop in SS-59. UTM 341931E, 3788342N. Veg crew weed whacked around it and should have stopped immediately. I had to pile up some loose vegetation to reconceal the nest.
- Wrentit nest #2 at SS-59 has fledged. Nearby lazuli bunting nest still a concern.

Horned lizard on SS-58 at UTM 342134E, 3788582N

Biologist Signature: 

Date: 5/12/11

HGL Field Supervisor Signature: 

Date: 05/12/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/13/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	1115-1430	VC	Chainsaws, weed whackers, loppers, front loader, 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-59	Nesting birds/nesting habitat	GS-1, VC-1	None
SS-59	Braunton's milkvetch	GS-1	None
SS-59	Malibu baccharis	GS-1	None
SS-59	Potential special-status mariposa lilies	VC-1	None
SS-59	Coast horned lizard occupied habitat	VC-1	None
SS-59	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

## NOTES AND RECOMMENDATIONS:

### Nesting birds:

- California towhee nest empty but fully completed – not certain whether in use but will know more next week if eggs laid (not in current work zone). 3 ft up in black sage, UTM 341891E, 3788509N. Preliminary buffer established.

Additional Braunton's milkvetch and Malibu baccharis plants marked as crews continue westward toward milkvetch area near water tank. Bushtits confirmed feeding fledglings rather than having a nest present as previously thought. Wrentit and California thrasher pairs in area below water tank but still no nests located – emphasis next week should be placed on finding these species' nests if any exist in area, to head off any impacts by vegetation cutting crew.

Morning was spent conducting clearance survey of SS-51 (separate report).

Golden eagle nest check in SS-35/NBZ-E at 1500 hrs. 2 large black-white nestlings on nest. Adults away from nest.

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

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

5/13/11

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

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

05/13/11

Leah

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: May 13, 2011

Biologist: J. Anderson

## ACTIVITIES MONITORED

Sub Area	Survey Section	Time	Activities Monitored	Equipment Used
5D	51	1200-300	VC	Mower, 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

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
5D-51	Braunton's milkvetch	VC-3	None
"	Malibu baccharis	<del>VC-1</del>	None
"	Protected trees	Avoided	None
"	Nesting birds	Buffer avoided Nest/activities monitored	None

## NOTES AND RECOMMENDATIONS

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Biologist Signature: *J. Anderson* Date: 5/13/11  
 HGL Field Supervisor Signature: *Leah Spence* Date: 5/13/11



## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/16/2011 Monday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0730-1215 1400-1430	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-51	1215-1400	VC	Weed whackers
5D South	SS-43 SS-55	1400-1430	SS	Power auger, tables, chairs, equipment boxes, weed whacker

\* 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-59, SS-51, SS-50	Nesting birds/nesting habitat	GS-1, VC-1	None <i>nest lost -sw</i>
SS-59, SS-51	Braunton's milkvetch	GS-1	None
SS-59, SS-51	Malibu baccharis	GS-1	None
SS-59, SS-51	Potential special-status mariposa lilies	VC-1	None
SS-59, SS-51	Coast horned lizard occupied habitat	VC-1	None
SS-59, SS-51	Protected trees (coast live oak, elderberry, walnut)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

**Nesting birds:**

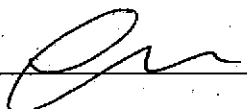
- SS-59 - California towhee nest that was discovered on Thursday 5/12 has been depredated. Concealment of the nest had been severely compromised by trimming activities so I will consider the nest failure to be caused by project activities. Buffer removed.
- SS-59 - California towhee nest discovered on Friday 5/13 near NW corner now has 1 egg.
- SS-59 - new California towhee nest, SE of water tank at UTM 341836E, 3788385N. Bird incubating 3 eggs. Nest is 2 ft up in black sage, 20 feet from the barbed wire fence.
- SS-51 - new California towhee nest (found empty last Friday but not described in clearance survey report because it was thought to be old) now has 2 eggs, bird apparently incubating. Nest is 18" up in Malibu baccharis with Braunton's milkvetch and chaparral pea. UTM 341839E, 3788688N.

VC crew was able to weed whack an additional area in oak-walnut woodland on north slope of SS-51 but there are multiple nests in here and large portions are off limits to vegetation trimming. Most nests in this area are described in Jim Anderson's reports. Black-chinned sparrow in SS-59 (rare in Ventura Co).

In anticipation of some weed whacking by the soils team to open up space around boring sites, SS-43 and SS-50 in 5D South were inspected for nesting birds and other resources. None found, but the noxious weed purple star thistle (*Gentaura calcitrapa*) is present in SS-50, and soils team were advised to minimize spreading the seeds to other sites.

Biologist Signature: 

Date: 5/16/11

HGL Field Supervisor Signature: 

Date: 05/16/11

Date: 5/16/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
	1200-300	50-51	<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	Whippers
			<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	
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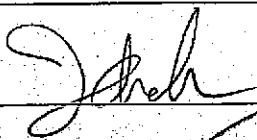
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

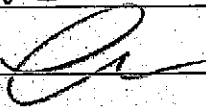
ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
	Braunton's milkvetch	51	VC-3	None
	Malibu baccharis	51	VC-1	1 plant damaged; expected to survive
	Nesting birds	51	Buffers avoided; nests/activities monitored	None
	Protected trees	51	Avoided	None

**NOTES AND RECOMMENDATIONS:**

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Biologist Signature: 

Date: 5/16/11

HGL Field Supervisor Signature: 

Date: 05/16/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/18/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7/ NBZ-W	SS-39/ NBZ-W	0730-1500	VC	Chainsaws, weed whackers, loppers, front loader, chipper
7	SS-42	0730-1500	VC	vehicles parking

\* 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	AVM's Implemented	Residual Impacts
SS-39/NBZ-W	Nesting birds/nesting habitat	VC-1	Wrentit nest slightly damaged from foot traffic - still intact
SS-39	Santa Susana Tarplant	VC-10	None
SS-42	Santa Susana tarplant	VC-10	One plant destroyed likely 1-2 months ago, not yet documented
SS-39	Dudleya	VC-9	None
SS-39/ NBZ-W	Protected trees (coast live oak, elderberry)	Ventura County trimming guidelines	Trimmed

### NOTES AND RECOMMENDATIONS:

VC crew is clearing the rest of NBZ-W west of Outfall 3 and north of road, north to oak woodland canopies. Any nests formerly active in this area no longer active. Biologists checked remnant nesting bird buffered areas east of Outfall 3 in SS-39. Older nests are no longer active but 4 new nests were found. Jim Anderson assisting with survey/monitoring, and new monitor Brady Daniels is being trained.

5 new bird nests along north slope of RMHF (southern edge of SS-39):

- SS-39 - Song sparrow building nest at UTM 342370E, 3789450N (estimated from Google Earth)
- SS-39 - Lesser goldfinch nest at UTM 342368E, 3789453N (estimated from Google Earth).
- SS-39 - California thrasher building nest at UTM 342409E, 3789446N (estimated from Google Earth).
- SS-39 - Wrentit nest with 4 eggs in phacelia/deerweed at UTM 342399E, 3789458N was slightly torn from part of supporting plants when biologist walked through vegetation. Nest righted but still precarious.
- SS-39 - In previously cut area, spotted towhee nest on ground with audible nestlings at UTM 342436E, 3789466N. Based on age of nestlings, nest appears to have been built just after VC crew finished cutting here several weeks ago (Apr 25). Cover is sufficient. New nest buffer established.
- SS-39 - house wren carrying food to unknown location in RMHF enclosure - does not appear to be nesting in vegetation affected by EPA study.

Two western toads relocated during weed whacking above Outfall 3 into nesting bird buffered area.

Biologist Signature: 

Date: 5/18/11

HGL Field Supervisor Signature: 

Date: 6/10/11

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

Date: 5-18-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS39	0700-1530	<del>VC</del> VC	Hand tools, mower, skid steer, skip 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
SS39	Nesting Birds	Flagging with Buffers	Temp noise impacts, impacts to foraging habitat.

**NOTES AND RECOMMENDATIONS:**

First Day on site, group monitoring with Scott and Jim. Working limits previously surveyed and flagged by Scott and Jim. Multiple nest within the area limiting clear and grub areas. Nest buffers discretionary to site specific conditions such as clearing types and visual buffers. One oak titmouse observed at lunch time carrying a food item, nest location was not found but appeared to be outside of the clearing limits.

~~5/18/11~~

~~Brendy Daniels~~

Biologist Signature: B. Daniels

Date: 5-18-11

HGL Field Supervisor Signature: [Signature]

Date: 7/1/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/19/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub area	Survey Section	Time	Activities Monitored	Equipment Used
7/ NBZ-W	SS-39/ NBZ-W	0745-1200	VC	Chainsaws, weed whackers, loppers, front loader, chipper
5D South	SS-59	1200-1300	VC	Chainsaws, weed whackers, loppers, front loader, 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-39/NBZ-W SS-59	Nesting birds/nesting habitat	VC-1	Wrentit nest damaged yesterday failed
SS-39	Santa Susana Tarplant	VC-10	None
SS-39	Dudleya	VC-9	None
SS-39, NBZ-W, SS-59	Protected trees (coast live oak, elderberry)	Ventura County trimming guidelines	Trimmed

## NOTES AND RECOMMENDATIONS:

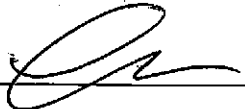
VC crew is clearing the portion of SS-39 east of Outfall 3 that is not still restricted by nesting bird buffers. Envicom biologist Brady Daniels working with Scott Werner at SS-39 during morning and at SS-59 in afternoon.

### Nesting birds:

- Wrentit nest in SS-39 damaged yesterday has failed. Eggs are gone. Take resulted from project activities (foot traffic from biologist).
- SS-39: California towhee nest completed but with no eggs yet near formerly active western scrub jay nest, 3 ft up in Eriodictyon crassifolium at UTM 342510E, 3789469N. Nesting buffer previously established for western scrub-jay nest remains off-limits for this new nest.
- NBZ-W: House wren nest below Outfall 3, 5 ft up in large broken coast live oak snag with nestlings, near parking area, UTM 342314E, 3789475N.
- SS-59: California towhee nest #1 (4/28, UTM 342187E, 3788397N) has fallen, 2 nestlings did not survive - nest buffer area not searched yet for new nests and is not cleared for VC.
- SS-59: Bewick's wren nest #2 (5/10, UTM 341972E, 3788378N) has fledged, but family group is still using nest buffer, not cleared for VC.
- NBZ-E: Brief check of golden eagle nest. 2 eaglets seen on nest, parents hunting nearby.

Biologist Signature: 

Date: 5/19/11

HGL Field Supervisor Signature: 

Date: 05/19/11

## BIOLOGICAL RESOURCE MONITORING FORM

• ENVICOM CORPORATION

Date: 5-19-11

Biologist: Brady Daniels

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
#7	SS39	0700-1530	<del>VC</del> VC	Hand tools, chainsaw, chipper, skid steer

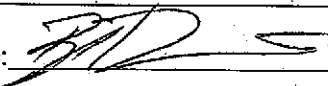
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

### MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMMs Implemented	Residual Impacts
SS39	Nesting birds	Flagging and Buffers already installed	Temp noise disturbance and foraging constraints

### NOTES AND RECOMMENDATIONS:

Not allot of field monitoring for the day. The day was filled with both HGL and Boeing Safety Training along with the Radiation Training. Clearing continues at SS39 at days end work should be to the limits allowable for the current nesting bird constraints.

Biologist Signature: 

Date: 5-19-11

~~5/19/11~~

~~Brady Daniels~~

HGL Field Supervisor Signature

*Calvin L. Garcia*

Date:

*7/1/11*



# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/20/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub Area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-51	0830-1100	GS	Mule-mounted gamma scanner, foot traffic
5D South	SS-59	0800-0830	GS	ERGS/JCB

\* 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	AMMP's Implemented	Residual Impacts
SS-51, SS-59	Nesting birds/nesting habitat	GS-1	None
SS-51	Braunton's milkvetch	GS-1, GS-2	5 mature milkvetch plants damaged but still standing
SS-51	Malibu baccharis	GS-1	None
SS-51	Unidentified mariposa lilies (not yet flowering)	GS-1	None
SS-51	Coast horned lizard occupied habitat	GS-1	No horned lizards observed
SS-51	Protected trees	GS-1	None

### NOTES AND RECOMMENDATIONS:

Mule-mounted gamma scanner covering eastern section of SS-51, primarily within low slope areas in woodland where trees will not permit ERGS/JCB to scan, and within low slope areas of chaparral where milkvetch and nesting birds will not permit ERGS/JCB to scan. Mule allowed to scan within several nesting bird buffers under close supervision of biologist, vegetation permitting. Lesser goldfinch and California towhees briefly flushed from nests, off nests for 15 minutes or less. Damage to flowering Braunton's milkvetch summarized above consisted of single broken branches from mature milkvetch plants that were left standing and in good condition.


SS-59: California towhee nest (5/9, UTM 342092E, 3788452N) briefly checked during ERGS monitoring. Nest has fallen to ground, eggs still present but nest no longer active. Blue grosbeak still assumed to be nesting in this patch so it is not yet cleared for VC.

Vernal pools in SS-7 restaked and flagged in anticipation of project activities in adjacent SS-44 next week.

Afternoon clearance survey in SS-51 described in separate report.

Biologist Signature: 

Date: 5/20/11

HGL Field Supervisor Signature: 

Date: 05/20/11

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

Date: 5-20-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
BN	SS44	0700-1530	<del>Clearing</del> VC	Hand tools, chainsaw and weedwhacker
SDS	SS59	↓	VC	Hand tools, chainsaw, skid steer and 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	AMMs Implemented	Residual Impacts
SS44	Protected plants, vernal pools (SS-7)	Flagging and access egress paths	None observed
SS59	Protected plants, Nesting Birds	Flagging and buffers	Noise and limits to foraging areas.

**NOTES AND RECOMMENDATIONS:**

SS44 million dollar hole, limited clearing was needed along the east side of excavation and some outside of the cyclone fence. Flagged vernal pools were avoided during equipment and crew access and egress. Protected plants were avoided during clearing and chipping. Two WDB rattle snakes were caught and mover off-site.

SS59 mobilized crew to site where clearing had been ongoing but nesting constraints and higher priority sites pulled crews away from this location. Inspected past nest sites with Scott, two nest were abandoned with dead nestlings in both. One wren nest was successful; the adults were observed foraging and feeding fledglings. Clearing activities were directed away from wren area buffers were increased to cover more of the foraging range needed by adults.

5/20/11  
~~5/20/11~~

Brady Daniels  
~~Brady Daniels~~

Biologist Signature: BJD

Date: 5-20-11

HGL Field Supervisor Signature: Caron Gloria

Date: 7/1/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/23/2011 Monday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8 South	SS-51	0800-1115	GS	ERGS
5D south	SS-59	1145-1245	VC	Chainsaws, weed whacker, loppers, chipper
5D South	SS-51	1300	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-51, SS-59	Nesting birds	VC-1, GS-1	None
SS-51, SS-59	Braunton's milkvetch	VC-3, GS-1, GS-2	1 mature milkvetch damaged by mule
SS-51, SS-59	Protected trees	VC-1, GS-1	None
SS-59	Coast horned lizard	VC-1	One relocated nearby
SS-51, SS-59	Malibu baccharis	VC-1, GS-1, GS-2	None

#### NOTES AND RECOMMENDATIONS:

SS-51 new birds noted: Pacific-slope flycatcher, orange-crowned warbler. New California towhee nest in black sage, 1 foot up, 1 egg, UTM 341899E, 3788597N.

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

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

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

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

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 5-23-11

Biologist:

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D5	SS59	08:00	clear <del>area</del> (N)	Hand tools, Skid steer Mower, & 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	AMMs Implemented	Residual Impacts
SS59	Oak trees, Black walnut, Elderberry bird nesting, Malibu Baccharis	Avoidance, Buffer set backs, ≥20% from native trees	& loss of foraging habitat for area wildlife.

**NOTES AND RECOMMENDATIONS**

- Monitored clear & grub activities/once work area was defined performed recon. surveys of clear & grub areas within SS 59 that are outside of daily proposed scope of work. Investigating for additional or new nest that may be within or adjacent to working limits. No nesting was observed however further time needs to be spent observing. A C. Towhee pair, S. Towhee pair, C. Thrasher pair, Wren-tit, & oak tit mouse pair Raven pair observed carrying nesting materials and landing on upper Had tower in SS 59. Flapping M. Baccharis, B. milkvetch

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

Date: 5-23-11  
 Date: 7/1/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5-24-11

Biologist:

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
SDS	SS59	0800	clear <del>land</del> (VC)	Hand tools / mower for chipping stockpiles

\* 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
SS59	B. Milk Cech	Flagged for Avoidance	None
↓	Malibu baccharis	"	↓
↓	Lilly sp. ?	"	↓
↓	Horned Lizard	Relocated 150' East	↓

### NOTES AND RECOMMENDATIONS

\* Performed Nesting bird pre construction survey and walk through. This site has been previously cleared. Survey approach more aggressive stamp through and inspect likely shrubs.

\* Flagged sensitive vegetative species.

\* Relocated one <sup>(coast)</sup> horned lizard

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

Date: 5-24-11

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

Date: 7/1/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/24/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D south	SS-51	1030-1100	GS	Mule
5D south	SS-59	1200-1300	VC	Chainsaws, weed whacker, loppers, 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-51, SS-59	Nesting birds	VC-1, GS-1	None
SS-51, SS-59	Braunton's milkvetch	VC-3, GS-1, GS-2	None
SS-51, SS-59	Protected trees	VC-1, GS-1	None
SS-51, SS-59	Coast horned lizard occupied habitat	VC-1	None
SS-51, SS-59	Malibu baccharis	VC-1, GS-1, GS-2	None

### NOTES AND RECOMMENDATIONS:

SS-51 Mule scanning: conducting clearance survey before and after mule scanning:

New lesser goldfinch nest, just completed and no eggs yet, in Braunton's milkvetch, 3 ft up, UTM 341864E, 3788630N.

Checking on California towhee nest in far northeastern side of SS-59: nest has tipped over prior to fledging (not EPA related).

Clearance survey of SS-52 described in separate report.

Biologist Signature: *Scott Werner*

Date: 5/24/11

HGL Field Supervisor Signature: *Colleen Garcia*

Date: 7/12/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/25/2011 Wednesday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0745-0830	VC	Chainsaws, weed whacker, loppers, chipper
5D South	SS-51, SS-58	0830-1030 1300-1400	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-51, SS-58, SS-59	Nesting birds	VC-1, GS-1	None
SS-51, SS-58, SS-59	Braunton's milkvetch	VC-3, GS-1, GS-2	1 damaged on SS-58 by mule
SS-51, SS-58, SS-59	Malibu baccharis	VC-1, GS-1, GS-2	5 plants damaged on SS-51 by mule
SS-51, SS-58, SS-59	Protected trees	VC-1, GS-1	None
SS-51, SS-58, SS-59	Coast horned lizard occupied habitat	VC-1	None
SS-51	Coast horned lizard	GS-1	3 seen, no impacts
SS-58	Coast horned lizard	GS-1	1 seen, no impact

### NOTES AND RECOMMENDATIONS:

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

Date: 5/25/11

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

Date: 7/17/11



**BIOLOGICAL RESOURCE MONITORING FORM**  
ENVICOM CORPORATION

Date: 5-25-11

Biologist:

**ACTIVITIES MONITORED**

Site Area	Survey Section	Time	Activities Monitored	Equipment Used
SDS	SS59	0730	Clear <del>sub</del> VC	Hard tools, skid steer, chipper, skip 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	AVM's Implemented	Residual Impacts
SS59	M. Baccharis B. Milk Vetch live oak Elderberry Manzanita lilly	Flagging	None
↓	↓	↓	↓

**NOTES AND RECOMMENDATIONS**

\* Performed multiple transects of the remaining nesting habitat in SS59 that is proposed to be cleared in the near future. Transects before work start up focused on inspecting likely vegetation where observed birds appeared to have an interest. No active nests were found. One inactive toad in size nest was found within a low lying chamise shrub. The nest was brittle and was most likely a nest from late last season. One garter (common) snake was caught and relocated outside of veg clearing and chipping areas.

Biologist Signature: Ealy Danz  
HGL Field Supervisor Signature: Colleen Garcia

Date: 5-25-11  
Date: 7/1/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/26/2011 Thursday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South	SS-52	0800-0900	GS	Mule
8 South	SS-49	0900-1000 1200-1330	GS	TMGS
5D South	SS-58	1000-1130 1330-1500	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-52	Nesting birds	VC-1, GS-1	None
SS-49, SS-52	Braunton's milkvetch	VC-3, GS-1, GS-2	2 seedlings run over by TMGS, appears ok. 1 large milkvetch and 1 small milkvetch damaged by mule.
SS-49, SS-52	Malibu baccharis	VC-1, GS-1, GS-2	5 plants damaged on SS-51 by mule
SS-49	Coast horned lizard	GS-1	Avoided, relocated 50 feet away

#### NOTES AND RECOMMENDATIONS:

SS-52: new lesser goldfinch nest, 3 ft up in Braunton's milkvetch, contents unknown, bird not flushed (UTM 341717E, 3788559N).

SS-58: house finch nest under construction, using Braunton's milkvetch leaflets for material. Nest is in coast live oak, 10 ft up, UTM 342042E, 3788614N.

Much of the new milkvetch sprouts in SS-49 monitored today are growing in old tire ruts from skid steer used by VC crew last fall. Perimeters flagged around new plants.

Biologist Signature: 

Date: 5/26/11

HGL Field Supervisor Signature: 

Date: 5/12/11

**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	0730	SS59	<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	Hand tools, mower, chipper
			<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	Bird nest	SS59	flagged for avoidance	temp noise disturbance
1	B. milk Vetch	SS59	"	1) damaged by weed eater 2) stepped on
1	M. Baccharis	SS59	"	2) damaged by weed eater
1	M. Lilly	SS59	"	avoided

**NOTES AND RECOMMENDATIONS:**

\* General monitoring of SS59 work continues working up slope towards H2O tanks.

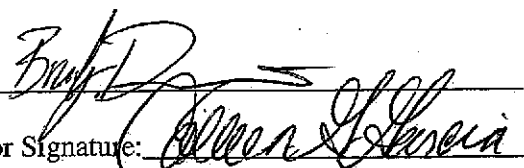
- nest in site have already been flagged for avoidance.

\* During clearing activities two B. milk vetch were damaged or ~~knocked~~ stepped on. One plant was hit by ~~weeder~~ weed eater, and one was stepped on. Both plants had been flagged previously.

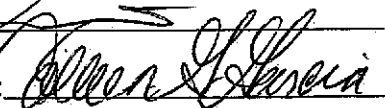
- Site supervisor for veg. crew was made aware and the veg. crew was talked to.

\* One M. Baccharis was damaged by weed eater same actions were taken.

Biologist Signature:


Date: 5-26-11

HGL Field Supervisor Signature:


Date: 7/1/11

Date: 5/27/11

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-300	5D-59	<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, chain saws
			<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	Braunton's milkvetch	5D-59	VC-3	None
1	mailed bacchans	5D-59	VC-1	None
1	Nesting birds (C. towhee nest)	5D-59	Buffer avoided	None
1	Coast horned lizard	59	captured & moved to safe location	None
1	Protected trees	59	HGL supp. vta Co Ordinance	cut per vta Co ordinance

**NOTES AND RECOMMENDATIONS:**

Calli tubes remaining in mostly blue oaks (Trichostema lanatum) near curve in road just west of water tank. Buffer established. No vegetation cutting shall be allowed south of road. In order to be used until nesting complete, cutting shall be avoided.

Also provide nest found on inner slope in channel (Nodular thorn a. trichostema). Requires monitoring to verify inactive. Also in the same buffer for white calli tubes. Suspected to be old inactive nest.

Biologist Signature: [Signature] Date: 5/27/11  
 HGL Field Supervisor Signature: [Signature] Date: 5/27/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5/31/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8 South	SS-51, SS-52	1115-1500	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-51, SS-52	Nesting birds	VC-1, GS-1	None
SS-51, SS-52	Braunton's milkvetch	VC-3, GS-1, GS-2	2 mature plants damaged by mule.
SS-51, SS-52	Malibu baccharis	VC-1, GS-1, GS-2	None.

## NOTES AND RECOMMENDATIONS:

SS-51: lark sparrow nest on ground under cut coyote brush stem, 3 eggs. UTM 341749E, 3788662N.  
Say's phoebe seen in area - mainly a winter bird in coastal Ventura County but interesting if breeding at SSFL.  
Phainopepla male building nest 25 ft up in coast live oak, UTM 341724E, 3788640N, SW corner of SS-51.

Biologist Signature: *Scott Werner*

Date: 5/31/11

HGL Field Supervisor Signature: *Collen Garcia*

Date: 7/2/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 5-31-11

Biologist: Brady Daniels

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D 3	SS59	0700-1530	Clear and Grub	Hand tools, chainsaw, chipper, skid steer limited.

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

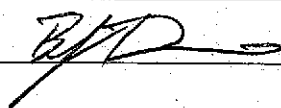
## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMMRs Implemented	Residual Impacts
SS59	Nesting Birds, Plants	Flagging of plants, enforcement of previous nest buffers	Noise

### NOTES AND RECOMMENDATIONS:

C Towhee nest located by Jim in the upper western portion of site is currently the main area for avoidance. Nesting behaviors appear to be normal, occasional vehicle traffic causes alarm calls but are short before normal behavior is resumed. Currently all protected plants identifiable have been flagged for avoidance.

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



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

5-31-11

5/31/11  
~~5/31/11~~

Brady Daniels  
~~Brady Daniels~~

HGL Field Supervisor Signature:

Colleen Garcia

Date:

7/1/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 6/1/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0750-0820 1200-1330	VC	Chainsaws, loppers, weed whackers, chipper
8 South	SS-52	0820-0920	GS	Mule
5D South	SS-58	1330-1430	GS	Mule
8 South	SS-49	0940-1115 1430-1530	GS	TMGS

\* 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-49, SS-52, SS-58, SS-59	Nesting birds	VC-1, GS-1	None
SS-49, SS-52, SS-58, SS-59	Braunton's milkvetch	VC-3, GS-1, GS-2	3 mature plants damaged by mule. (SS-52)
SS-49, SS-52, SS-58, SS-59	Malibu baccharis	VC-1, GS-1, GS-2	None.
SS-49, SS-58	Coast horned lizard	GS-1	2 lizards encountered, moved out of harm's way

### NOTES AND RECOMMENDATIONS:

SS-49 new California towhee nest w/ 3 eggs in black sage, 3 ft up (over woodrat nest), UTM 341676E, 3788677N.

SS-49 new lark sparrow nest on ground under Helianthus annuus, nestlings, UTM 341667E, 3788677N.

SS-49 new lark sparrow nest on ground under Malibu baccharis/chamise/Rhamnus ilicifolia, 3 eggs, UTM 341591E, 3788743N.

RECOMMENDATION: Lark sparrows are nesting on ground in the regrowth areas that were cut last fall. Potential for impacts to these very cryptic nests by gamma scanning equipment is HIGH. Biological monitors must be present in these areas during the nesting season when heavy equipment is used.

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

Date: 6/1/2011

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

Date: 7/17/11



**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 01 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
85	SS-49	1350-1600	GS	Track-mounted

\* 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-49	Nesting birds Unidentified Lily	GS-1	none

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Callan Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6-2-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D's	SS59	0700-1530	<del>VC</del> VC	Hand Tools, chainsaw, chipper, and 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	AMMs Implemented	Residual Impacts
SS59	Plants and Nesting Birds	Buffers and Flagging	Noise

**NOTES AND RECOMMENDATIONS:**

Clearing activities continue and are moving from the bottom upwards in the main work front additional crew moved on top of water tower road and is clearing top ridge and bench. Increased vehicle traffic and noise is causing more alarm calls from nesting C. towhee. Unfortunately the main access road passes within 20' of active nest. Vehicle traffic from other employees not associated with clear and grub crew are unknowingly parking and or disturbing nesting. Vehicle traffic and parking are directed around area when observed. No other nesting activities have been observed within the remaining area. Old nest have been left in place within clearing limits, vegetation crew has done very well with nest ID prior to cutting. The crew also does a great job at id of protected plants that may not have been flagged prior to clearing.

6/2/11  
~~5/2/11~~

Brady Daniels  
~~Sam Hanna~~

Biologist Signature: Brady Daniels

Date: 6-2-11

HGL Field Supervisor Signature: Sam Hanna

Date: 7/1/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/2/2011 Thursday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8 South	SS-49	0800-0930	GS	TMGS
7	SS-39	0930-1045	GS	Mule
5D South	SS-59	1230-1430	VC	Chainsaws, loppers, weed whackers, 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**

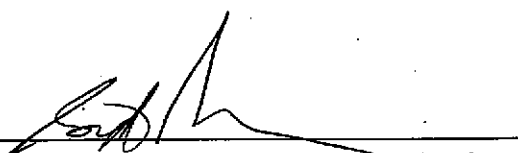
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-39, SS-49, SS-59	Nesting birds	VC-1, GS-1	None
SS-49, SS-59	Braunton's milkvetch	VC-3, GS-1, GS-2	None
SS-49, SS-59	Malibu baccharis	VC-1, GS-1, GS-2	None

**NOTES AND RECOMMENDATIONS:**

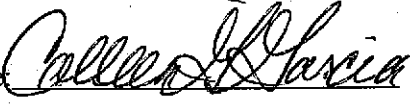
SS-39 new spotted towhee nest on ground (recently cut veg) under black sage, can't see contents, but female brooding, UTM 342495E, 3789509N. This area has already been scanned but buffer established regardless. California towhee nest still active where original scrub-jay nest was.

1230 during VC monitoring, surveying old nesting patches. Nearly cleared one of the vegetation patches for bio issues but found new mourning dove nest 6 ft up in laurel sumac, 1 egg, UTM 342179E, 3788410N.

SS-49 new lark sparrow nest under black sage with nestlings at UTM 341612E, 3788714N. Was discovered 10 ft from TMGS and would have been crushed if not detected first.

Biologist Signature: 

Date: 6/2/11

HGL Field Supervisor Signature: 

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 02 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
85	SS-49	0920-1115 1255-1600	GS	Track-mounted

\* 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	AVM's Implemented	Residual Impacts
SS-49	Nesting birds, protected trees, Malibu baccharis	GS-1	3 small Malibu baccharis uprooted

**NOTES AND RECOMMENDATIONS:**

A few (3-4) Malibu baccharis plants disturbed during track-mounted gamma radiation scanning. These plants were NOT uprooted.

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Carleen Garcia

Date: 7/12/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 6/3/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8 South	SS-48	0820-0900	GS	ERGS
NBZ-E	P1D	0900-0945	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-48	Nesting bird habitat	GS-1	None
P1D	Golden eagle nest buffer	GP-1	Adults aware of people, don't seem agitated; nestling(s) inside nest cave

### NOTES AND RECOMMENDATIONS:

Golden eagle nest checked again at 1515. 2 eaglets loafing on nest, fully grown, will likely fledge very soon but no wing flapping seen today.

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

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

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

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

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 03 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8-S	SS-49	0815-1115	GS	Track-mounted
SDS	SS-59	1255-1345	"	"

\* 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-49	Nesting birds, protected trees, Braunton's Milk-Vetch	GS-1	None
SS-59	"	"	Minimal

**NOTES AND RECOMMENDATIONS:**

2 or 3 Braunton's Milk-Vetch plants came into contact with tracks propelling scanner. Plants were touched but not uprooted.

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

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

Date: 6-3-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
50 <sup>th</sup> South	SS59	0700-1530	Clear and Grub	Hand Tools, chainsaw, chipper, and 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	AMMs Implemented	Residual Impacts
SS59	Plants and Nesting Birds	Buffers and Flagging / increased nest buffer and parking and staging locations.	<del>None</del> <i>None</i>

**NOTES AND RECOMMENDATIONS:**

Top portion of site by water towers is the only remaining area for clear and grub. Vehicle parking traffic and noise are all starting to have effects on nesting behaviors of the C. towhee, alarm calls are lasting longer and becoming more frequent. People talking and walking on road and overlooking nest area appear to be having a greater impact to nesting behaviors. Talked with crew and HGL representative along with archeological monitors. Pushed nest buffers back and redirected parking of equipment and vehicles.

Biologist Signature: 

Date: 6-3-11



~~6/3/11~~

~~Brady Daniels~~  
~~Scott Werner~~

HGL Field Supervisor Signature: Colon Garcia

Date: 7/1/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 6/6/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0800-0900	VC	Loppers, chainsaw, weed whackers, chipper, skid steer
NBZ-W	P11, P2K	0930-1330	VC	Loppers, chainsaw, weed whackers, chipper, skid steer
8 South	SS-52	1330-1430	GS	Mule
5D South	SS-59	1430-1500	GS	Mule

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

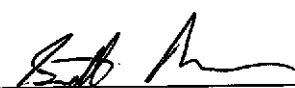
## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-59, P11, P2K, SS-52	Nesting birds	VC-1, GS-1	None
SS-52, SS-59	Braunton's milkvetch	VC-3, GS-1, GS-2	None
SS-52, SS-59	Malibu baccharis	VC-1, GS-1, GS-2	None


### NOTES AND RECOMMENDATIONS:

0930-1330 I'm mainly working to clear additional geophysical areas and outlying chaparral, as well as marking boundaries of work area that HGL has not marked.

SS-52: surveying ahead of mule, common poorwill nest w/ 2 white eggs located on ground (scrape in soil), UTM 341804E, 3788540N. Same location where I encountered pair 1-2 weeks ago, I had to flush the bird to be sure it was sitting on a nest. Habitat is regrowth chaparral with Helianthus, chamise, black sage.

Biologist Signature: 

Date: 6/6/11

HGL Field Supervisor Signature: 

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 06 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
SDS	SS-59	0745-0930	VC	Weed whackers
NBZ-W	P2N	0955-1105 1155-1500	"	chipper, chain saws, weed whackers, skip loader, skid steer, loppers

\* 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-59	Nesting birds protected trees	VC-1	Unclear at this time *
	"	"	

**NOTES AND RECOMMENDATIONS:**

\* Cal. Towhee was flushed from nest several times by veg. clearing crew activities. Noise from vehicles/equipment was excessive. Residual impact on hatchlings not yet determined.

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Collen Garcia

Date: 7/12/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 6/7/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-51	0800-0915	GS	Mule
NBZ-W	PII	0915-1045	VC	Loppers, chainsaw, weed whackers, chipper, skid steer
5D South	SS-59	1045-1115	GS	Mule
8 South, 5D South	SS-51	1145-1345	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	AMMs Implemented	Residual Impacts
PII	Nesting bird habitat	VC-1	None
SS-51	Nesting birds	VC-1, GS-1	None
SS-51	Braunton's milkvetch	GS-1	None
SS-59	Unidentified mariposa lilies (not flowering)	GS-1	None.
SS-51	Coast horned lizards	GS-1	2 lizards avoided.

## NOTES AND RECOMMENDATIONS:

SS-51: 2 *Calochortus clavatus* var. *pallidus*. UTM 341927E, 3788683N and UTM 341877E, 3788646N. Lawrence's goldfinch seen in area.

SS-51: new lark sparrow nest, 3 feet from fresh mule track, under yucca, contents unknown, female sitting tight. UTM 341800E, 3788610N.

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

Date: 6/7/11

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

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 07 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	<del>D2N</del> PII	0800-1100 1200-1500	VC	Chipper, chain saws, weed whackers, skid loader, skid steer w/mower, coppers

\* 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
<del>D2N</del> PII	Nesting birds, protected trees, pudleya	VC-1 VC-9	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 6/8/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8N	SS-46	0830-0900	SS	Hand auger, chairs, tables
5D South	SS-58	0900-1300	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-46	Nesting bird habitat	SS-1	None
SS-58	Nesting birds	VC-1, GS-1	None
SS-58	Braunton's milkvetch	GS-1	None
SS-58	Unidentified mariposa lilies (not flowering)	GS-1	None.

### NOTES AND RECOMMENDATIONS:

SS-58: Blue-gray gnatcatcher nest no longer active but fledglings seen nearby.  
Lark sparrows likely nesting at edge of woodland in central SS-58 - called away for monitoring before locating. The following nests were found on the north-facing slope of SS-58: New house wren nest w/ nestlings, 8 ft up in coast live oak cavity, UTM 342055E, 3788638N. House finch nest under construction, nearly completed, 7 ft up in coast live oak, UTM 342090E, 3788649N. Lark sparrow nest along 'road' on ground under purple sage, 3 eggs, UTM 342071E, 3788645N. Song sparrow nest with large nestlings, 0.5 ft up in Artemisia californica, UTM 342081E, 3788629N. Calochortus clavatus var. pallidus UTM 342070E, 3788641N. On top of ridge, SS-58, Costa's hummingbird nest 2 ft up in Helianthus annuus, 1 egg, UTM 342098E 3788576N.

Golden eagle nest check in NBZ-E: eaglets active on nest, 1 adult soaring nearby.  
Rufous-crowned sparrow nest check in NBZ-E: female not present but 3 warm eggs in nest. Female seems to spend a long time away from nest in general.

Biologist Signature: 

Date: 6/8/11

HGL Field Supervisor Signature: 

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 08 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	<del>P2N</del> PII	0800-1100 1200-1500	J.C	Chipper, chain saws, weed whackers, SKID loader, SKID STEER, loppers

\* 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
<del>P2N</del> PII	Nesting birds protected trees	VC-1	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

Date: 6-8-11

Sheet      of     

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**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1200	NBZ-W	<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	Hand tools, chipper
			<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
	Nesting Bird	NBZ-W	P1I, P1A	Avoided, Temp. Noise disturbance
	Phainopepla	P1A		

**NOTES AND RECOMMENDATIONS:**

Clearance surveys within the NBZ, Active phainopepla nest in the incubation stage was observed within a live oak tree. Nest is a prx. 30' in canopy. Discussed with Rachel regarding plan for veg. clearing and proposed access & egress. After discussing and observing phainopepla behaviors it was recommended to clear the back area of polygon SW portion. Hard clearing and no chipping.

\* Nesting/incubation behavior observed during the clearing of the SW corner appeared to be normal with male and female sharing incubation tasks.

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

Date: 6/8/11  
 Date: 7/1/11



**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/9/11 Thurs

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
SDS	SS-52	800-930	VC	Chainsaws, weed whackers, chippers, skid steer
BS	SS-49	1000-1100	GS	TmGS

\* 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-52	Nesting bird	VC-1	None
SS-52, SS-49	Braunton's milkvetch	VC-1, GS-1	None
SS-52	Matthia leucanota	VC-1	None
SS-52	Manispa like	VC-1	None

**NOTES AND RECOMMENDATIONS:**

N side of SS-49 has new Braunton's milkvetch seedlings. Entire SS-49 will now be included in occupied range of species.

Biologist Signature: Scott Werner

Date: 6/9/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

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

Date: 09 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
8 South	SS-52	0740-0930	VC	Weed whackers
NBZ-W	PII	0935-1025	"	" "
8 South	SS-49	1030-1055	GS	ERGS-2
8 South	SS-49	1255-1330	"	track-mounted

\* 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-52	Nesting birds Braunton's Milk-Vetch	VC-1 VC-3	None
PII	Nesting birds	"	"
SS-49	" "	GS-1	"
SS-49	Nesting birds Braunton's Milk-Vetch	"	Minimal *

**NOTES AND RECOMMENDATIONS:**

\* A couple of small Braunton's Milk-Vetch plants were bent over but NOT uprooted by track-mounted gamma radiation scanning work.

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Cecilia Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/10/11 Fri

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	PII	1000-1300 1400-1430	VC	Chipper, chainsaw, lopper, weed whackers

\* 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
PII	Bird nests	VC-1	None
PII	Protected trees	VC-1	None
<del>PII</del>			

**NOTES AND RECOMMENDATIONS:**

Occasionally assisting Jade Stone with monitoring while conducting clearance surveys (separate report).

Biologist Signature: Scott Werner

Date: 6/10/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 10 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P2K	1430-1500	VC	Chipper, chain saws, weed whackers, skid loader, skid steer, loppers

\* 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
P2K	nesting birds protected trees Santa Susana tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

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

Date: 6-10-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
SD South	SS59	0700-1530	<del>VC</del>	Hand Tools, chainsaw, chipper, and skid steer
NBZ-W	<del>NBZ</del> PLI, P2M	↓		↓

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

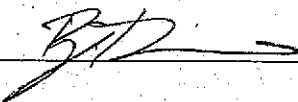
**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS59	Plants and Nesting Birds	Buffers and flagging	Nest predation or abandonment <i>Early fledging</i>
PLI, P2M	Nesting bird habitat	VC-1	<i>Trimmed</i>

**NOTES AND RECOMMENDATIONS:**

Nestlings within the C. towhee nest were not accounted for this morning potential for S. Jay predation or abandonment. Yesterdays clearing and compressor noise during skid steer clearing may have driven birds off. Clearing activities planned for area within the previous C. towhee buffer. During the preconstruction surveys within the buffer area one nestling was observed bird looked premature to be away from the nest. The adults were observed feeding the nestling and tending. Clearing activities were postponed at this location.

Equipment and crew mobilized to the NBZ, preconstruction surveys performed by Scott prior to arriving on-site. Conducted overview survey of worksite and flagged limits of work zone.

Biologist Signature: 

Date: 6-10-11

~~6/10/11~~

~~Brady Daniels~~

HGL Field Supervisor Signature:

Colleen R. Garcia

Date:

7/1/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/13/11 Mon

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	NB-T	1000-1500	VC	Chipper, chainsaw, weed whackers, loppers
	(P1I, P2K)			

\* 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
P1I, P2K NB-T	Santa Susana Teplat, Dudley	VC-1, VC-9, VC-10	None
P1I, P2K NB-T	Bird nests	VC-1	Cover reduced at one nest

**NOTES AND RECOMMENDATIONS:**

Assisting Jade Stone w/ VC monitoring and conducting clearance surveys.  
 Wren-tit nest near SCE tower access road has fledged. Crews cutting through nest buffer under supervision of monitor. Fledglings not encountered.  
 New wren-tit nest in previously surveyed area at UTM 341407E, 3788982N, 2ft up in Wade Sage. But veg has been cut near nest, and clear cut within 10 ft of nest. Therefore, cover severely reduced around nest. 1 hatching and 2 eggs. Buffer est established and brooding female wren-tit monitored amidst VC activity.

Biologist Signature: Scott Werner

Date: 6/13/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/17/11

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 13 June 2011

Biologist: Jack Stone

### ACTIVITIES MONITORED

Sub-Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P2K	0805-1100 1150-1500	VC	Chipper, chain saws, weed whackers, skip loader, skid steer, coppers

\* 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
P2K	Nesting birds, protected trees, other plants *		

#### NOTES AND RECOMMENDATIONS:

\* Santa Susana Tarplant  
 Unidentified Mariposa Lily  
 " Dudleya

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11



**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/14/11 Tues

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used	
PIE, P2K	5D S	SS-59	1430-1450	GS	Vehicles parked, idling near bird nest
	NBZ-W	<del>NB-1</del>	1500-1515	VC	chainsaws, chippers, loppers
P3W, P1D, PIE	NBZ-E	<del>NB-4, 5</del>	1520-1530	n/a	n/a

\* 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	
PII, P2K	SS-59	active bird nest	buffer increased	possible stress to birds
	<del>NB-1</del>	active bird nests	VC-1	Wren tit nest predated Others okay
P3W, P1D, PIE	<del>NB-4, 5</del>	active bird nests	n/a	none

**NOTES AND RECOMMENDATIONS:**

SS-59: Vehicles are idling too close to active California towhee nest located in remnant vegetation patch. ~~W~~ Bird staying off nest and nestlings for possibly too long.

P2K ~~NB-1~~: Wren tit nest discovered yesterday predated since end of day yesterday. Calif. towhee nest now has only 2 eggs (1 live, 1 cracked).

P3W, P1D, PIE ~~NB-4~~: Golden eagle nest and adjacent nest appear empty, 1 fledgling soaring overhead.  
Rufous-crowned sparrow nest in NB-5: active w/ fresh hatchlings.

Biologist Signature: Scott Werner

Date: 6/14/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 14 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P2K	0800-1100 1215-1500	VC	Chipper, chain saws, weed whackers, skip loader, skid steer, loppers

\* 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
P2K	Nesting birds, protected trees, Santa Susana Tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

- Veg. clearing crew advised to redirect out put from chipper so that it does not adversely impact sensitive plants.
- Ash-throated flycatcher nest adjacent to NBZ-W gate in vertical steel pipe. Adults flushed from nest several times due to vehicular traffic. Adults did return to nest which was NOT abandoned.

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 6-14-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
4	BZ-NE P2J	0700-1530	<del>Clear and</del> VC	Hand Tools, chainsaw, chipper, and skid steer

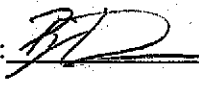
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

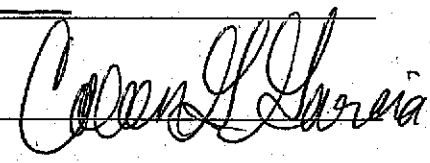
Survey Section	Protected Resources Encountered	AMMs Implemented	Residual Impacts
BZ-NE P2J	Plants and Nesting Birds	Buffers and flagging	Noise

**NOTES AND RECOMMENDATIONS:**

Preconstruction surveys identified a white throated swift nest in cliff face, phainopepla, and California towhee. Flagging and staking was placed to enforce field buffer zone for nesting. C. towhee and the swift nests are close to main access road no clear or grub will be done off access road. Crew will mobilize past nest to the lower pad and clear areas not within the phainopepla buffer.

Biologist Signature: 

Date: 6-14-11

HGL Field Supervisor Signature: 

Date: 7/1/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/15/11 Wed

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-E	PIF, PIJ	1330-500	VC	Chipper, weed whacker, chainsaw, loggers

\* 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
PIF, PIJ	Nestly Birds, SS Tarplant	VC 1, VC-10	None
PIF, PIJ	Protected trees (elderberry, <sup>cannot use</sup> oak)	Trimming, cordance	Trimmed

**NOTES AND RECOMMENDATIONS:**

Continued to cut within Geophysical Survey areas in PIF, PIJ.

Biologist Signature: Scott Werner

Date: 6/15/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 15 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	PIP, PIJ PIK	0735-1100 1205-1500	VC	Chipper, chain saws, weed whackers, Skid loader, skid steer, loppers

\* 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 Implemented	Residual Impacts
PIK PIP, PIJ	Nesting birds, protected trees, Santa Susana Tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Chipper out put once again redirected away from sensitive plants

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Collan Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/15/11  
~~6-5-11~~

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
4	BZ-NE	0700-1530	Clear-cut	Hand Tools, chainsaw, chipper, and skid steer
	<del>BZ-NE</del> P1J			

\* 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
BZ-NE	Plants and Nesting Birds	Buffers and flagging	Noise
<del>BZ-NE</del> P1J			

**NOTES AND RECOMMENDATIONS:**

Work continues within buffer zone. Additional nest found within the already established phainopepla buffer, nest are blackheaded grosbeak and morning dove. The nest area already covered by the existing buffer. Monitoring focused on the adults nesting behaviors within the site limits. All nesting behaviors appeared normal nest buffers stayed the same as the previous established. Morning dove nest was not 100% id general area and suspected oak tree nest were discussed with HGL supervisor for avoidance.

Biologist Signature: *B/D*

Date: 6-15-11

HGL Field Supervisor Signature: *Charmel Garcia*

Date: 7/1/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/16/11 ~~MON~~ Thurs

Biologist: Seth Werner

**ACTIVITIES MONITORED**

PIF, PIJ

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	SS-7	800-900	VC	Mower, chipper, skip loader, loppers, chainsaw, weed whacker
6	SS-31	1000-1015	n/a	Inspection after VC from last week

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

**MONITORING RESULTS**

PIF, PIJ

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
NBZ-E	S.S. Tarplant, Nesting birds, <del>Protected Trees</del>	VC-1, VC-10, Ventura Co. Trimming Ordinance	None
SS-31	Calif. Quail nest	-	Possible take due to VC

**NOTES AND RECOMMENDATIONS:**

Quail nest under cut laurel sumac discovered today. ~~55~~ Eggs appear to have been predated (crushed inward) versus hatched naturally. ~~Under~~ Nest ~~is~~ not detected during VC monitoring. Unclear whether nest failed before or after VC.

Biologist Signature: Seth Werner

Date: 6/16/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 16 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1J	0800-1100 1205-1500	VC	Chipper, chain saws, weed whackers, skid loader, skid steer, loppers

\* 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
P1J	Nesting birds protected trees	VC-1	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11



**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6-17-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5) North	<del>SS-54</del> North	0700-1530	Geo physical calibration	Monitoring equipment
8 North	SS-46, 47	"	Soil sampling	Hand and power auger sampling equipment

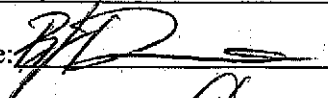
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

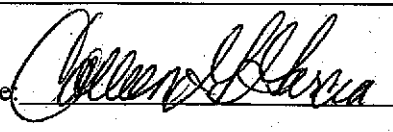
Survey Section	Protected Resources Encountered	AMMs Implemented	Residual Impacts
SS-46, 47, 56	Bird nests	flagging	Temp noise disturbance

**NOTES AND RECOMMENDATIONS:**

Geo physical calibration of equipment, informed crew of mowing constraints and nest location. Calibration went quick no impacts observed. Soil team avoiding mockingbird nest by hand auguring, staging vehicles and unnecessary equipment away from nest site, and staying outside of buffer area. Adults left nest for two hours but then returned and continued normal nesting behaviors.

Biologist Signature: 

Date: 6-17-11

HGL Field Supervisor Signature: 

Date: 7/1/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/20/11 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

PIE, PIE

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	NBZ, N7	0750-0800 1000-1330	VC	Chainsaw, lopper, chipper, weed whacker
8N	SS-56	830-950	SS	Truck-mounted auger, chairs, tables, 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**

PIE, PIE

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
NBZ, N7	Nesting Birds, Mariposa lilies	VC1	None
SS-56	Nesting birds	SS-1	None

**NOTES AND RECOMMENDATIONS:**

PIE ~~NBZ~~: Rufous-crowned sparrow nest still with nestling(s).

PIE ~~N7~~: Plummer's mariposa fly (*C. plummerae*) confirmed at N7, 2 individuals flowering  
UTM: 343168E, 3789909N.

Golden egg nest in ~~NBZ~~ <sup>P3W</sup> empty during morning but 1 fledgling returned in afternoon.

Noise and visual disturbances should be minimized when fledglings are back at nest.

Phainopepla nest under construction in N7, 25ft up in coast live oak. No restrictions will be enforced since nest is barely started and this species often builds several nests before laying eggs.

SS-56: Blue Goshawk nest monitored and additional area surveyed for SS activity.

Biologist Signature: Scott Werner

Date: 6/20/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 20 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	PIJ	0810-1100	VC	Chipper, chain saws, weed whackers, skid loader, skid steer, loppers
"	PIF	1150-1500	"	"

\* 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 Implemented	Restoral Impacts
PIJ	Nesting birds protected trees	VC-1	None
PIF	"	"	"

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Cellen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/21/11 *Tuesday*

Biologist: *Scott Werner*

**ACTIVITIES MONITORED**

PIF, PJT

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	<del>NBZ-N</del>	800-930 1330-1400	VC	chainsaw, weed whacker, topper, chipper
<del>SS-56</del>	SS-56	930-950 1145-1245	SS	power auger, tables, chairs, 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**

PIE, PIF

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
<del>HT</del>	Nesting birds	VC-1	None
SS-56	Nesting birds	SS-1	None

**NOTES AND RECOMMENDATIONS:**

PIF

New California Quail nest w/ 8 eggs in ~~HT~~ under boulder within road turnaround. UTM 343216E, 3789885N. Flushed female, buffer established, female returned to nest ~25 mins later. Golden eagle nest empty in a.m., 1 fledgling on adjacent nest during p.m.  
 SS monitoring in SS-56: blue grosbeak nest monitored when auger was ~100 ft away. ♀ still returning to nest regularly to feed nestlings. Drill later moved to ~60 ft away from nest and female still feeding nestlings.  
 Both song sparrow nests in SS-55, and blue grosbeak nest in SS-51 described during last week's clearance survey have fledged or are otherwise inactive (one song nest possibly predated).

Biologist Signature: *Scott Werner*

Date: *6/21/11*

HGL Field Supervisor Signature: *Collen Garcia*

Date: *7/12/11*

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 21 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1E&F	0735-1100 1200-1500	VC	Chipper, chain saws, weed whackers, skip loader, skid steer, loppers

\* 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
P1E&F	Nesting birds protected trees, plummer's Haripora Lily	VC-1	None

**NOTES AND RECOMMENDATIONS:**

P1F Cal. quail nest that was not previously located was encroached on by veg. clearing worker using weed whacker. ♀ adult was flushed from nest w/ 8 eggs. I monitored nest and surrounding area while Scott Werner flagged a buffer zone around the nest area. Adults did eventually return to the nest area and hen resumed incubating the eggs.

P1E Advised ALL personell working in the area / using dirt road to proceed slowly near active Rufous-crowned sparrow nest minimizing impact (disturbance due to noise/dust)

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/22/11 Wednesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
7	SS-42	800-915	<del>GC</del> GS	<del>(same as previous day)</del> Track-mounted gamma scanner
3DN	SS-56	1045-1115	SS	(same as previous day)

\* 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 Taylor	GS-1	None
SS-42	Nesting bird potential	GS-1	None
SS-56	Nesting birds	SS-1	None

**NOTES AND RECOMMENDATIONS:**

SS-42: spotted towhee seen w/ food, appears to be delivering it to a nest or fledgling located outside of the work area.

SS-56 continued monitoring power auger w/ blue grosbeak nest. Female still feeding 4 chicks in nest, appears unperturbed by auger noise.

Biologist Signature: Scott Werner

Date: 6/22/11

HGL Field Supervisor Signature: Colleen M. Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 22 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1F	0800-1100 1200-1500	VC	Chipper, chain saws, weed whackers, skip loader, skid steer, loppers

\* 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
P1F	Nesting birds, protected trees, Plummer's Mariposa Lily, Santa Susana tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Callan Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 6/23/11 Thurs

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
7	SS-39	800-900	GS	TMGS

\* 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	Nesting bird habitat, Santa Sus. taplats	Avoided	None

**NOTES AND RECOMMENDATIONS:**

SS-39 = Spotted Towhee and California Towhee nests no longer active - buffers removed  
 Rest of day = clearance survey S.

Biologist Signature: Scott Werner

Date: 6/23/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11



**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 23 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activity Monitored	Equipment Used
NBZ-E	P1F	0800-1100 1210-1500	VC	chipper, chain saws, weed whackers, skid loader, skid steer, loppers

\* 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
P1F	Nesting birds, protected trees, plumeria, magnolia lily, Santa Susana Tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 02 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 6/24/11 Ri

Biologist: *Scott Werner*

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-E	NT, NW3 PIE, PIF	800-1100	VC	Weed whackers, chainsaws, chipper, loppers, skip 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**

PIE, PIF  
↓

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
<del>NT</del>	Nesting birds	VC-1	None
<del>N7</del>	Santa Susana Tarplant	VC-10	None
<del>N7</del>	Plummer's Mariposa Lily	VC-1	None
N7	Protected trees		Take

**NOTES AND RECOMMENDATIONS:**

Cat. quart. nest still active - requested that LDI move chipper further away from nest ~~area~~ to reduce stress to brooding bird.

No Golden eagles at nest site.

Clearance survey ahead of crews conducted uneventfully.

Biologist Signature: *Scott Werner*

Date: 6/24/11

HGL Field Supervisor Signature: *Colleen Garcia*

Date: 7/12/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 6/24/11

Biologist: J. Anderson

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
	N7	12:15-3:00	VC	Chippers, whippers, chain-saws

\* 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
N7	Nesting birds	Buffer avoided & nest monitored	None
N7	Protected trees (CLO)	Vta Co tree protection ordinance HGL Veg Management Protocols	Understory branches trimmed in Q2
N7	Plummers' mangrove lily	Flagged/avoided	None
N7	Santa Susana fanplants	Flagged/avoided	None

## NOTES AND RECOMMENDATIONS

Biologist Signature: *Janet Anderson*

Date: 6/24/11

HGL Field Supervisor Signature: *Colleen Garcia*

Date: 7/12/2011

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 27 June 2011

Biologist: Jack Stone

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1F	0815-1100 1155-1500	VC	Chipper, chain saws, weed whackers, Skid loader, skid steer, loggers

\* 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
P1F	Nesting birds protected areas Pumilus Mariposa Lily Santa Susana Tarplant	VC-1 VC-10	None

### NOTES AND RECOMMENDATIONS:

Biologist Signature: Jack Stone

Date: 09 July 2011

HGL Field Supervisor Signature: Colleen L. Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 28 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	PIF	0800-1100 1215-1300	VC	Chipper, chain saws, weed whackers, skip loader, skid steer, loppers

\* 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
PIF	Nesting birds protected trees Plummer's Mariposa Lily Santa Susana tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 09 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/12/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 29 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1J	0700-1000 1105-1400	VC	Chipper, chain saws, weed whackers, skid loader, skid steer, loggers

\* 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
P1J	nesting birds protected trees plummer's maniposa cily santa susana tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 09 July 2011

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/17/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 30 June 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1J	0705-1000 1110-1400	VC	Chipper, Chain saws, weed whackers, skid loader, skid steer, loppers

\* 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
P1J	NESTING birds protected trees Plummer's Mariposa lily Santa Susana Tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: Jack Stone

Date: 09 July 2011

HGL Field Supervisor Signature: Carol Garcia

Date: 7/2/11