



January 31, 2006

Mr. Randy Nagel
U.S. Fish & Wildlife Service
6010 Hidden Valley Road
Carlsbad, CA 92009

Subject: *Submittal of the 2005 Annual Monitoring Report for the Incidental Take Permit (TE110582-0) and Low-Effect Habitat Conservation Plan for the Federally-Endangered Stephens' Kangaroo Rat on Beaumont Potrero Creek and Beaumont Laborde Canyon Properties, Riverside County, California*

Mr. Nagel,

This letter serves as the 2005 Annual Monitoring Report for the Incidental Take Permit (ITP) TE110582-0 issued to Lockheed Martin Corporation (LMC) for Potrero Creek (Site 1) and Laborde Canyon (Site 2) located in the City of Beaumont, Riverside County, California. The ITP and associated Low-Effect Habitat Conservation Plan (LE HCP) completed under Section 10(a)(1)(B) of the federal Endangered Species Act are included as Attachment 1. Attachment 1 also includes correspondence related to the ITP and LE HCP, and the Consistency Determination under the California Endangered Species Act (Section 2080.1 – TRK 2080-2005-027-06) from the California Department of Fish and Game (CDFG). This Annual Report meets the requirements Section 3.4 of the LE HCP.

The ITP was issued on October 14, 2005 and the Consistency Determination was issued on November 18, 2005. This report includes activities conducted under these permits between November 18 and December 31, 2005. Since the duration of the permit is five (5) years from the date of issuance, the permit is valid until October 14, 2010.

1.0 Background

LMC is conducting groundwater and soils contaminant investigations on Sites 1 and 2, known to be occupied by the federally endangered Stephens' kangaroo rat (*Dipodomys stephensi*; "SKR"). These actions are in response to a consent order (No. 88/89-034) issued by the California Department of Toxic Substances Control (DTSC) to characterize the presence of contamination in groundwater and soils at Sites 1 and 2. LMC sought an ITP for SKR for direct take (by injury or death) and take of habitat that may occur in the course of otherwise lawful activities associated with the contaminants investigations, even with the successful implementation of the minimization and mitigation in the LE HCP. The biological objective of the LE HCP is to leave untouched approximately 99.90% of the SKR habitat on the plan area by limiting the impacts to less than 3 acres (~0.10% of SKR habitat on the sites). Of the total estimated affected area, approximately 0.267 acres will be permanently modified due to activities such as well installation, borehole drilling, road maintenance, and backfilling activities. The remaining approximately 2.40 acres will be temporarily impacted by vehicles and/or equipment traversing habitat.

2.0 Investigation Activities During the Reporting Period

Between November 18, 2005 and December 31, 2005, the following soil and groundwater related investigation activities were performed at the two sites. Table 1 summarizes the activities monitored at Site 1 and Table 2 summarizes the activities monitored at Site 2. The tables include the investigation activity, the corresponding activity number listed in the LE HCP, the date the activity took place, and the biological monitor supervising the activity.

Table 1
Activities at the Potrero Creek Site (Site 1) During 2005

Activity	Activity Number in the LE HCP	Dates	Biological Monitor
Quarterly Well Monitoring (4 th Quarter)	1	12/13/05	Brad Haley
Mowing	10	12/05/05	Brad Haley
Seismic Survey	13	11/28/05 to 11/30/05 12/2/05 12/6/05 to 12/8/05 12/12/05 12/14/05 12/23/05	Brad Haley (all days)

Note: Activity Number refers to the activity listing on pages 7 and 8 of the LE HCP.

Table 2
Activities at Laborde Canyon (Site 2) During 2005

Activity	Activity Number in the HCP	Dates	Biological Monitor
Quarterly Well Monitoring (4 th Quarter)	1	12/12/05	Kristen Mobraaten
Well Installation and Development	2	11/28/05 to 11/30/05 12/1/05 12/5/05 12/13/05 12/29/05	Kristen Mobraaten and Brad Haley

Note: Activity Number refers to the activity listing on pages 7 and 8 of the LE-HCP.

3.0 LE HCP Compliance During the Reporting Period

The LE HCP specifies that Annual Monitoring Reports will be submitted to the U.S. Fish and Wildlife Service (USFWS) and CDFG by February 1 each year for the duration of the permit. The Annual Monitoring Report documents the following: 1) the annual incidental take to SKR, 2) the results of the SKR monitoring program (e.g., mapping surveys and trapping), and 3) the compliance with the avoidance, minimization and mitigation activities covered by this five-year permit.

3.1 Incidental Take

3.1.1 Direct Take (Injury or Death) to SKR

One objective under the LE HCP is to avoid and minimize the potential for direct take (injury or death) of individual SKR. The ITP allows for the take of 3 individuals and exclusion trapping of 20 individuals throughout the 5-year duration of the LE HCP.

During the 2005 reporting period, there was no direct take of SKR. Additionally, no exclusion trapping of SKR was performed under the LE HCP since none of the activities conducted had the potential for significant take of SKR.

3.1.2 Acreage of Annual Impacts to SKR Habitat

One objective under the LE HCP is to leave untouched approximately 99.90% of the SKR habitat on the plan area by limiting impacts to less than 3 acres. The ITP allows for 0.267 acres are to be permanently impacted and approximately 2.40 acres temporarily impacted over the 5-year duration of the LE HCP.

During the 2005 reporting period, permanent and temporary impacts to SKR habitat resulted from well installation at Site 2 and temporary impacts from the seismic survey conducted at Site 1. There were no permanent or temporary impacts from mowing or quarterly well sampling activities during 2005.

Permanent Impacts

Permanent impacts that resulted from the above activities included the installation of monitoring wells and associated guard posts. These impacts were calculated as shown below in Table 3.

Table 3
2005 Reporting Period Permanent Impact Calculations

Activity	#	Diameter of casing/post (in)	surface area of each casing/post (sq ft)	Area of Impacts (sq ft)	Area of Impacts (acres)
well casings	2	12	0.79	1.58	0.000036
guard posts	8	4	0.09	0.72	0.000016
Cumulative Permanent Impacts					0.000052

This 0.000052 acres of permanent impacts represents approximately 0.02% of the total area of incidental take allowed under the LE HCP (0.267 acres). No other activities were conducted under the LE HCP during the reporting period that could produce permanent impacts (i.e. well abandonment, borehole sampling, and road maintenance).

Temporary Impacts

Temporary impacts resulted from off-road driving for the activities listed in Tables 1 and 2 and were calculated as shown below in Table 4. Of the activities listed in Tables 1 and 2, only seismic survey activities (Potrero Creek - Site 1) and well installation activities (Laborde Canyon - Site 2) involved vehicles driving off existing roads.

Table 4
Temporary Impact Calculations During 2005

Activity	Load spreading measures used?	Area of Impacts (sq ft)	Area of Impacts (acres)
Seismic Surveys (Site 1)	Yes	4,320	0.099173
Well Installation (Site 2)	Yes	8,383	0.192446
Cumulative Temporary Impacts during 2005			0.291619

This 0.291619 acres of temporary impacts represents approximately 12.15% of the total area of incidental take allowed under the LE HCP (2.40 acres). No other activities produced temporary impacts under the LE HCP during the 2005 reporting period.

Cumulative Impacts

Permanent and temporary impacts are considered cumulative over 5-year duration of the LE HCP. In 2005, the LE HCP was approved and activities initiated; therefore, there are no impacts from previous years. Table 5 presents a summary of the cumulative allowable impacts under the LE HCP.

Table 5
Cumulative Impacts

Type of Impacts	LE HCP Incidental Take Acreage	Impacts During Previous Years (acres)	Impact During Current Reporting Period (acres)	Remaining Allowable Impact (acres)
Permanent	0.267	0	0.000052	0.267
Temporary	2.4	0	0.291619	2.12

3.2 SKR Monitoring Program (Mapping Surveys and Trapping)

Mapping activities in 2005 were conducted using the existing map of occupied SKR habitat for Site 1 property completed by CDFG in early 2005 (Attachment 2). This mapping was conducted throughout all areas of potential SKR habitat on Site 1 to delineated areas of occupied versus unoccupied habitat, and general densities of SKR present in the occupied areas of Site 1. Detailed initial mapping to cover the potential areas of impact for all activities covered under the LE HCP will be done in early 2006 on the area shown on the map in Attachment 2. Activities conducted under the LE HCP during 2006 will include mapping of SKR burrows within 100 feet of the activity location during pre-activity surveys and in post-activity surveys. This information will be compiled for the 2006 Annual Monitoring Report to be submitted on February 1, 2007.

3.3 Compliance with the Avoidance, Minimization and Mitigation Activities

Monitoring was conducted to measure any potential permanent and temporary impacts from investigation activities. Service-approved biological monitors who supervised each activity are listed in Tables 1 and 2 and copies of all monitoring forms associated with these activities are included as Attachment 3. Attachment 3 also contains photos of these activities.

The following actions were undertaken to ensure compliance with avoidance and minimization measures:

1. A Service-approved biologist performed pre-activity surveys to locate and flag active SKR burrows (flags were removed when activities were completed).
2. All activities were completed during daylight hours and supervised by a Service-approved biologist.
3. Orientation programs regarding SKR avoidance and minimizations measures were given at morning tailgate safety meetings.
4. All equipment going off-road were restricted to the same path in and out, moving slowly and making arcing turns and was guided by a Service-approved biologist using the route priority system designated in the LE HCP.
5. When necessary, the Service-approved biologist established parking and staging areas using the priority system described in the LE HCP.
6. If active SKR burrows were unavoidable in travel routes and/or parking areas, load spreading measures such as plywood or large mats were used to avoid and minimize impacts to these burrows.
7. Drilling was restricted to 15 feet from active SKR burrows when possible, and load spreading measures were used during drilling activities to avoid or minimize impacts to SKR.
8. Overnight parking was restricted to paved roads and pads.
9. Mower blades were elevated to between 4 and 6 inches off the ground.

These actions comply with those listed to minimize impacts on pages 12 and 13 of the LE HCP.

The refilling of boreholes related to investigation activities is also listed as a mitigation action in the LE HCP. No boreholes were dug under this ITP and LE HCP during the 2005 reporting period; therefore, this action was not appropriate during this reporting period.

In summary, the activities conducted under the ITP and LE HCP during the 2005 reporting period were conducted in accordance with the provisions of these permits and resulted in minimal permanent and temporary impacts to SKR habitat and no direct take of SKR.

If you have any questions regarding this submittal, please contact me at (818) 847-9901.



Christopher Ingalls
Senior Project Manager

Attachments:

Cc: Robin Maloney Rames, CDFG with attachments
Terry Foreman, CDFG with attachments
Tom Paulek, CDFG with attachments

Attachment 1

**Incidental Take Permit #TE1105852-0
and Associated Correspondence**

**CDFG Consistency Determination
and Associated Correspondence**



United States Department of the Interior

FISH AND WILDLIFE SERVICE

California/Nevada Operations Office
2800 Cottage Way, Room W-2606
Sacramento, California 95825
Phone: (916) 414-6464 Fax: (916) 414-6486



AES-CP

OCT 14 2005

Mr. Kenneth H. Meashey
Vice-President, Energy, Environment, Safety, & Health
Lockheed Martin Corporation
6801 Rockledge Drive
Bethesda, Maryland 20817

Dear Mr. Meashey:

Enclosed is your Endangered Species Act section 10(a)(1)(B) Incidental Take Permit for the Potrero Creek and Laborde Canyon Properties Habitat Conservation Plan (HCP). This permits authorizes the incidental take of the federally endangered Stephens' kangaroo rat (*Dipodomys stephensi*). We look forward to helping you to implement your HCP.

Thank you for helping to conserve species. If you have any questions about this permit, please contact Mr. Jim Bartel, Field Supervisor of our Carlsbad Fish and Wildlife Office, at (760) 431-9440.

Sincerely,

Ken McDermond
Deputy Manager

Enclosure
cc: Linda Gertler, Burbank, CA

TAKE PRIDE
IN AMERICA

DEPARTMENT OF THE INTERIOR
U.S. FISH AND WILDLIFE SERVICE3-201
(1/97)

FEDERAL FISH AND WILDLIFE PERMIT

1. PERMITTEE

LOCKHEED MARTIN CORPORATION
6801 ROCKLEDGE DRIVE
BETHESDA, MD 20817
U.S.A.

2. AUTHORITY-STATUTES

16 USC 1539(a)
16 USC 1533(d)

REGULATIONS (Attached)

50 CFR 17.22
50 CFR 17.32

50 CFR 13

3. NUMBER

TE110582-0

4. RENEWABLE

☒ YES
☐ NO

5. MAY COPY

☒ YES
☐ NO

6. EFFECTIVE

OCT 14 2005

7. EXPIRES

OCT 14 2010

8. NAME AND TITLE OF PRINCIPAL OFFICER (If #1 is a business)

KENNETH H. MEASHEY
VICE-PRESIDENT

9. TYPE OF PERMIT

THREATENED AND ENDANGERED SPECIES

10. LOCATION WHERE AUTHORIZED ACTIVITY MAY BE CONDUCTED

Northwest Riverside County, California: Potrero Creek (site 1) and Laborde Canyon (site 2) properties,
as depicted and described in the HCP.

11. CONDITIONS AND AUTHORIZATIONS:

A. GENERAL CONDITIONS SET OUT IN SUBPART D OF 50 CFR 13, AND SPECIFIC CONDITIONS CONTAINED IN FEDERAL REGULATIONS CITED IN BLOCK #2 ABOVE, ARE HEREBY MADE A PART OF THIS PERMIT. ALL ACTIVITIES AUTHORIZED HEREIN MUST BE CARRIED OUT IN ACCORD WITH AND FOR THE PURPOSES DESCRIBED IN THE APPLICATION SUBMITTED. CONTINUED VALIDITY, OR RENEWAL, OF THIS PERMIT IS SUBJECT TO COMPLETE AND TIMELY COMPLIANCE WITH ALL APPLICABLE CONDITIONS, INCLUDING THE FILING OF ALL REQUIRED INFORMATION AND REPORTS.

B. THE VALIDITY OF THIS PERMIT IS ALSO CONDITIONED UPON STRICT OBSERVANCE OF ALL APPLICABLE FOREIGN, STATE, LOCAL OR OTHER FEDERAL LAW.

C. VALID FOR USE BY PERMITTEE NAMED ABOVE.

D. Further conditions of authorization are contained in the attached Special Terms and Conditions.

☒ ADDITIONAL CONDITIONS AND AUTHORIZATIONS ALSO APPLY

12. REPORTING REQUIREMENTS

ISSUED BY

Ken McDermond

TITLE

DEPUTY MANAGER, CANV OPERATIONS OFFICE

DATE

OCT 14 2005

U.S. FISH AND WILDLIFE SERVICE, SACRAMENTO, CALIFORNIA
SPECIAL TERMS AND CONDITIONS FOR
TE110582-0

D. All sections and provisions of Title 50 Code of Federal Regulations, parts 13, 17.22 and 17.32, are conditions of these permits (attached).

E. The authorization granted by this permit is subject to compliance with, and implementation of the Lockhead Martin Habitat Conservation Plan for Potrero o Creek and Laborde Canyon Properties (HCP), dated May 10, 2005, hereby incorporated by reference. This permit and the HCP are binding upon the Permittee, and any authorized officer, employee, contractor, or agent conducting covered activities.

F. The Permittee, and authorized officers, employees, contractors, and agents are authorized under the Endangered Species Act of 1973, as amended (Act), to incidentally take the endangered Stephens' kangaroo rat (*Dipodomys stephensi*, "SKR"), to the extent that take of this species would otherwise be prohibited under section 9 of the Act, and its implementing regulations, or pursuant to a rule promulgated under section 4(d) of the Act. Take must occur incidental to otherwise lawful covered activities associated with soil remediation investigation activities within an 11,785-acre planning area, in Riverside County, California, as further described in the HCP, and as conditioned herein. This permit authorizes the incidental take of 3 SKR in the form of harm, kill, or injury during contamination investigation activities that may adversely affect up to 3 acres of SKR habitat. In addition, as further described in the HCP, this permit authorizes a Service-approved biologist to trap up to 20 SKR within temporarily fenced areas, and temporarily hold and/or relocate these individuals to appropriate areas outside the exclusion fence. This permit authorizes injury or death of one SKR during trapping, holding, or releasing activities.

G. The Permittee shall provide the names, addresses, and phone numbers of all biological monitors to the Carlsbad Fish and Wildlife Office at least 15 days prior to the start of monitoring, trapping, holding, or release activities. The Service shall review their credentials prior to the onset of the activities for which authorization is sought. Biological monitors may conduct these activities only following the written concurrence of the Service.

H. Upon finding dead, injured, or sick endangered or threatened wildlife species, the Permittees or their designated agents shall notify orally within 1 working day the Service's Carlsbad Fish and Wildlife Office, telephone (760) 431-9440. Written notification to the Carlsbad Fish and Wildlife Office shall be made within 3 working days and shall include the date, time, and location of the specimen and any other pertinent information. Written notification may be made by e-mail to Karen_Goebel@fws.gov or by fax (760-431-9618). Dead animals may be marked in an appropriate manner, photographed, and left on site. Should any sick or injured animals survive, the Carlsbad Fish and Wildlife Office shall be contacted regarding final disposition of the animals. In the event that a species has been taken in contravention of any Federal, State, or local law, all relevant information shall be reported within 24 hours to the Carlsbad Fish and Wildlife Office or to the Service's Division of Law Enforcement in San Diego (619-557-5063).

I. Annual reports shall meet all requirements referenced in the HCP and provided to the Service by February 1 of each year that the permit is in effect.

J. The Permittee and authorized officers, employees, contractors, and agents shall maintain a copy of this permit on file while conducting taking activities. Please refer to the permit number in all correspondence and reports concerning permit activities. Any questions you may have about this permit should be directed to the Field Supervisor, Carlsbad Fish and Wildlife Office (telephone (760) 431-9440).

Lockheed Martin Corporation
6801 Rockledge Drive MP: CLE610 Bethesda, MD 20817
Telephone 301-214-3431 Facsimile 301-214-9502
E-mail: kenneth.h.meashey@lmco.com Mobile 301-529-0673



Kenneth H. Meashey
Vice President
Energy, Environment, Safety, & Health
Corporate Shared Services

May 10, 2005

Ms. Laura Hill
Endangered Species - USFWS
911 N.E. 11th Avenue
Portland, OR 97232-4181

**Subject: Submittal of Low-Effect Habitat Conservation Plan (HCP) and
Application for an Incidental Take Permit Associated with the HCP for
Beaumont Potrero Creek and Laborde Canyon Properties**

Please find enclosed a completed application for an incidental take permit and the associated Low-Effect Habitat Conservation Plan for Lockheed Martin Corporation's Laborde Canyon property and its former Beaumont Potrero Creek property.

If you have any questions regarding this submittal, please contact Ms. Linda Gertler at (818) 847-0899.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth H. Meashey".

Kenneth H. Meashey
Vice-President, Energy, Environment, Safety, & Health

C: Jill Terp, USFWS
Leslie MacNair, CDFG



September 26, 2005

Mr. Randy Nagel
U.S. Fish & Wildlife Service
6010 Hidden Valley Rd.
Carlsbad, CA 92009

Subject: Submittal of Revised Section 3.5 and Attachment A (Letter of Credit) for the Low-Effect Habitat Conservation Plan (HCP) and Application for an Incidental Take Permit Associated with the HCP for Beaumont Potrero Creek and Laborde Canyon Properties

Please find enclosed Lockheed Martin's Revised Section 3.5 (Funding) and Attachment A (Letter of Credit [LOC]) for the previously submitted Low-Effect Habitat Conservation Plan (HCP) for the Beaumont Potrero Creek and Laborde Canyon Properties. The attached Revised Section 3.5 (page 14) redefines the mechanism for meeting the financial assurance requirements for the HCP, to reference the use of a LOC to cover the planned five-year term of the HCP. The Revised Section 3.5 and Attachment A supersedes and replaces Section 3.5 and Attachment A in the original application dated May 10, 2005.

If you have any questions regarding this submittal, please contact me at (818) 847-0197 or Ms. Linda Gertler at (818) 847-0899.

A handwritten signature in cursive script, appearing to read "Gene Matsushita".

Gene Matsushita
Technical Project Manager

C: Jill Terp, USFWS – 1 copy
Leslie MacNair, CDFG – 1 copy

LOW-EFFECT HABITAT CONSERVATION PLAN

FOR THE

ISSUANCE OF AN INCIDENTAL TAKE PERMIT UNDER SECTION 10(a)(1)(B) OF
THE ENDANGERED SPECIES ACT

FOR THE

FEDERALLY ENDANGERED STEPHENS' KANGAROO RAT

ON

BEAUMONT POTRERO CREEK AND BEAUMONT LABORDE CANYON
PROPERTIES, RIVERSIDE COUNTY, CALIFORNIA

Prepared by:
Tetra Tech, Inc.
3475 East Foothill Blvd.
Pasadena, CA 91107

Prepared for:
Lockheed Martin Corporation
2550 North Hollywood Way, Suite 301
Burbank, CA 91505

May 10, 2005

EXECUTIVE SUMMARY

Lockheed Martin Corporation (applicant) has applied for a permit from the U.S. Fish and Wildlife Service (Service) pursuant to section 10(a)(1)(B) of the Endangered Species Act of 1973 (Act) as amended (16 U.S.C. 1531 *et seq.*) to incidentally take the federally endangered Stephens' kangaroo rat (*Dipodomys stephensi*; "SKR"). The incidental take is anticipated to occur as a result of groundwater and soils contaminant investigation activities proposed at the Potrero Creek (Site 1) and Laborde Canyon (Site 2) properties, Riverside County, California. The proposed plan areas consist of 11,785 total acres with less than three (3) acres of area permanently or temporarily affected. SKR have been found at both sites.

The desired term of the low-effect permit is five (5) years, which is expected to cover the duration of the applicant's environmental investigations at Sites 1 and 2. The objective of the investigations is to determine and characterize the potential presence of contamination in soils and groundwater at the sites with the results serving as the basis for determining the appropriate method(s) of remediation for affected areas. Along with the minimization measures listed in this Habitat Conservation Plan (HCP), the applicant will also mitigate areas of investigation by filling boreholes and abandoned wells, and the footprint of disturbance will be restored to pre-disturbance conditions. The applicant's overall goal is the restoration of areas affected by investigation for the benefit of local wildlife and future human recreational use.

This HCP has been prepared in consultation with the Service to fulfill the requirements of a section 10(a)(1)(B) Permit application for the proposed project.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	2
1.0 INTRODUCTION	5
1.1 Purpose and Need	5
1.2 Regulatory Requirements	5
1.3 Permit Applicant.....	6
1.4 Site and Project Description	6
2.0 STEPHENS' KANGAROO RAT	9
2.1 Species Account	9
2.2 Status of the Species	10
2.3 Assessment of Incidental Take	10
3.0 HABITAT CONSERVATION PLAN	12
3.1 Permit Duration	12
3.2 Actions to Minimize Impacts	12
3.3 Actions to Mitigate Impacts	13
3.4 Monitoring, Management and Reporting	14
3.5 Funding.....	14
4.0 CHANGED CIRCUMSTANCES	15
5.0 UNFOReSEEN CIRCUMSTANCES	15
6.0 AMENDMENT PROCESS.....	15
6.1 Minor Amendments	15
6.2 Formal Amendments	16
7.0 PERMIT RENEWAL OR EXTENSION	16
8.0 OTHER MEASURES.....	16
9.0 ALTERNATIVES TO THE PROPOSED ACTION CONSIDERED	17
9.1 No Project Alternative	17
9.2 Trenching Alternative.....	17
10.0 DEFINITIONS	17
11.0 LITERATURE CITED.....	18

FIGURE 1 – Beaumont Potrero Creek Property Location Map

FIGURE 2 - Beaumont Laborde Canyon Property Location Map

ATTACHMENT A

1.0 INTRODUCTION

1.1 Purpose and Need

Lockheed Martin (applicant) proposes to conduct groundwater and soils contaminant investigations on properties known to be occupied by the federally endangered Stephens' kangaroo rat (*Dipodomys stephensi*; "SKR"). These actions are in response to a consent order (No. 88/89-034) issued by the California Department of Toxic Substances Control (DTSC) to characterize the presence of contamination in groundwater and soils at Sites 1 (Figure 1) and 2 (Figure 2). Lockheed Martin is seeking a permit for incidental take of SKR in the course of otherwise lawful activities associated with the contaminants investigations. Such authorization is necessary because activities associated with the investigation of groundwater and soils contaminants may result in incidental take by injury or death of SKR or through modification of SKR habitat despite the minimization and mitigation measures proposed in this Habitat Conservation Plan (HCP).

1.2 Regulatory Requirements

The Endangered Species Act of 1973 (Act), as amended (16 U.S.C. 1531 *et seq.*), provides for the protection and conservation of fish, wildlife and plants that have been federally listed as threatened or endangered. Activities otherwise prohibited by section 9 of the Act and subject to the civil and criminal enforcement provisions of section 11 of the Act may be authorized for Federal entities pursuant to the requirements of section 7 of the Act and for other persons pursuant to section 10 of the Act.

Section 10(a)(2)(A) of the Act states that no permit may be issued authorizing any taking referred to in Section 10(a)(1)(B) unless the applicant submits to the Secretary (the Secretary of the Interior) a Habitat Conservation Plan (HCP) that specifies:

1. The impact which will likely result from such taking;
2. What steps the applicant will take to minimize and mitigate such impacts, and the funding that will be available to implement such steps;
3. What alternative actions to such taking the applicant considered and the reasons why such alternatives are not being utilized; and
4. Such other measures that the Secretary may require as being necessary or appropriate for purposes of the plan; and

The Service has determined this document to be a "low-effect" HCP. A low-effect HCP is one "involving: (1) minor or negligible effects on federally-listed, proposed or candidate species and their habitats ... and (2) minor or negligible effects on other environmental values or resources. 'Low-effect' incidental take permits are those permits that, despite their authorization of some small level of incidental take, individually or cumulatively have a minor or negligible effect on species covered ..." (Service/NOAA 1996).

This HCP has been prepared in consultation with the Service to fulfill the requirements of Section 10(a)(2)(A) of the Act as part of a Section 10(a)(1)(B) take permit being sought for the proposed groundwater and soils contaminants investigations in the County of Riverside, California.

1.3 Permit Applicant

Lockheed Martin Corporation is the applicant for the incidental take permit.

1.4 Site and Project Description

The plan area consists of two (2) nonadjacent properties, Potrero Creek (Site 1) and Laborde Canyon (Site 2), which encompass 11,785 acres in northwest Riverside County. The area surrounding the plan area can be characterized by rural and suburban development intermixed with agricultural operations and large blocks of undeveloped land. Site 1 is a 9,117-acre property that comprises the southern portion of the City of Beaumont, California. Site 2 is a 2,668-acre property that is located in an unincorporated area approximately 1¼ mile to the northwest of Site 1. Both sites are in vacant, open space conditions and can be generally characterized by hilly topography with associated drainages and valley bottom areas. Site 1 was originally owned entirely by the applicant. The State of California (State) now owns 8,552 acres of Site 1, and the applicant retains the remaining 565 acres as a conservation easement. Pursuant to the *Purchase and Sale Agreement and Escrow Instructions* dated December 22, 2003, between Lockheed Martin Corporation and the State, LMC continues to be responsible for and assumes environmental obligations with respect to the State-owned portion of Site 1 as well as LMC's conservation easement. In order for LMC to perform its environmental obligations, the State granted an access easement to LMC to access the State-owned portion of Site 1 and cross the property in order to access the conservation easement. The access easement, dated December 31, 2003, is included in the *Purchase and Sale Agreement and Escrow Instructions*. Site 2 is owned entirely by the applicant. Although the plan area is approximately 11,785 total acres in size, less than three (3) acres of area will be permanently (~0.267 acres) or temporarily (~2.4 acres) affected by the investigation activities. SKR have been found at both sites.

The findings of previous biological surveys conducted by Pacific Southwest Biological Services, Inc. (1983), ERCE (1990), Daniel J. Grout (1991, 1992, 1998, 1999, 2000, 2003, 2004), S.J. Montgomery (1991, 1992, 1995a, and 1995b), and SJMBC (1998, 2000) indicate that Sites 1 and 2 have the potential to support several sensitive and/or listed species of wildlife. Site 1 could potentially support five (5) species of wildlife that are listed as threatened or endangered – least Bell's vireo (*Vireo bellii pusillus*), southwestern willow flycatcher (*Empidonax traillii extimus*), coastal California gnatcatcher (*Polioptila californica californica*), SKR, and arroyo toad (*Bufo californicus*). Of the five species that could occur on Site 1, only the SKR and least Bell's vireo have been observed on the site. No activities will be conducted in riparian areas so no take of least Bell's vireo is anticipated.

Sensitive species, which are species that are unlisted but declining in numbers, known to occur on Site 1 include the orange-throated whiptail (*Cnemidophorus hyperythrus*), San Diego horned

lizard (*Phrynosoma coronatum blainvillei*), western spadefoot toad (*Scaphiopus hammondi*), ferruginous hawk (*Buteo regalis*), northwestern San Diego pocket mouse (*Chaetodipus fallax*), tri-colored blackbird (*Agelaius tricolor*), and the northern red-diamond rattlesnake (*Crotalus ruber ruber*). The unlisted Los Angeles pocket mouse (*Perognathus longimemberis brevinasus*) may occur along the washes and sandy benches along Potrero and Bedsprings creeks on Site 1, as it is known to occur at the mouth of Massacre Canyon.

The previous biological surveys also indicate that Site 2 could potentially support two (2) federally listed species – SKR and coastal California gnatcatcher. However, the SKR is the only species known to occur on the site. Much of the habitat in the Badlands area, including the subject properties, has degraded significantly over the last fifty years due to exotic weed invasions and repeated fires, to the point where the majority of the former scrub habitat has converted to non-native annual grassland. Therefore, the probability of individual gnatcatchers inhabiting the site is expected to be extremely low (Kevin Clark, U.S. Fish and Wildlife Service, pers. comm., December 2004). Therefore, no take of gnatcatchers is anticipated from this project. Two (2) sensitive species have been observed on Site 2, the northern red-diamond rattlesnake and San Diego pocket mouse.

The vegetation of both sites is a mix of native and non-native species, whose distribution and abundance vary across the sites. Based on general biological surveys conducted by Chambers Group at Sites 1 and 2 in 2003, the following five (5) vegetation communities are present within the plan area: Riversidean Sage Scrub, Riversidean Alluvial Fan Sage Scrub, Chamise Chaparral, Southern Willow Scrub and Non-native Grasslands (Chambers Group 2003). While Sites 1 and 2 have the potential to support plant species listed as threatened or endangered by the United States Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG), none have been observed on the sites during previous surveys.

The objective of the proposed investigation activities is to determine and characterize the potential presence of contamination in soils and groundwater at the sites with the results of the investigations serving as the basis for determining the appropriate method(s) of remediation for affected areas. The applicant's overall goal is the restoration of the areas affected by investigation for the benefit of local wildlife and future human recreational use of Site 1 and future open space land use of Site 2.

Proposed contaminant investigation activities consist of the following:

1. Conduct quarterly groundwater level measurements, sampling, and repair at groundwater wells in Sites 1 and 2;
2. Install and develop up to 50 additional groundwater wells (4-inch diameter) as needed at Sites 1 and 2 for groundwater sampling and monitoring, and performing pilot studies;

3. Abandon approximately 20 groundwater wells (production and monitoring) at Sites 1 and 2, which may require excavating the top five feet of soil to cut the well casing;
4. Perform routine maintenance of existing structures at both sites and groundwater treatment system at Site 1;
5. Maintain roads (*e.g.*, repair, limited grading, widening, and enhancement / reestablishment of routes to improve access, if necessary) at Sites 1 and 2;
6. Mark, survey (geophysical), and drill approximately 400 soil assessment boreholes (8-inch diameter) for collection of soil samples for contaminant and geotechnical analysis at Sites 1 and 2;
7. Install and sample up to 200 temporary soil gas probes at selected borehole locations at Sites 1 and 2 for soil gas characterization;
8. Remove inactive catalytic oxidizer (CatOx) unit at Site 1 using a front loader and/or crane to lift components onto transport vehicles for offsite disposal;
9. Deposit non-hazardous soils and broken-up concrete from drilling, excavation, and road maintenance activities onsite;
10. Mow work areas by hand operated equipment or small tractor;
11. Survey the locations/boundaries of investigation activities (boreholes, wells, excavations, etc.) at Sites 1 and 2 using land-based surveying equipment or GPS technology;
12. Perform subterranean unexploded ordnance (UXO) surveys in selected historical, ballistics testing areas at Site 1 using electromagnetic conductivity equipment either drawn by hand or an all-terrain vehicle, and expose using hand tools any anomalies for visual inspection; and
13. Conduct seismic reflection and / or refraction surveys at Sites 1 and 2 that consist of placing sensors at 10 to 15 foot intervals along seismic test lines (typically 400 to 800 feet in length) and dropping a weight on a metal plate approximately 10 times, at 30 second intervals, at each sensor location.

It should be noted that the aforementioned activities, with the exception of existing structure maintenance and groundwater level measurement, may also include performing one or more of the following activities off the existing roadways: 1) driving of vehicles, 2) temporary staging of vehicles and/or equipment (*e.g.*, decontamination trailer, bobcat steer loader, and drums), and 3) temporary parking of vehicles. While these activities will be conducted over the course of

approximately five years, all activities will only be conducted during daylight hours, and the majority of individual activities will be of short to medium duration, ranging from one day (*e.g.*, CatOx unit removal) to several weeks (*e.g.*, borehole marking, surveying, and drilling). Other activities will be performed in short increments, ranging from two days to four weeks, for the duration of the permit period (*e.g.*, quarterly groundwater monitoring and semiannual groundwater sampling).

The investigation activities listed in this section are the only activities covered by this HCP. Contamination remediation that may affect Federal and State-listed threatened and endangered species will be addressed separately from this HCP through the appropriate regulatory process.

2.0 STEPHENS' KANGAROO RAT

2.1 Species Account

SKR is the only federally listed species known to occur within the disturbance footprint of the project area. SKR was listed as endangered on September 30, 1988 (53 *Federal Register* 38465) by the USFWS and as threatened by California Department of Fish and Game in 1971. Critical habitat has not been designated for this species. SKR, a rodent of the family Heteromyidae, is 1 of 21 species of kangaroo rats (genus *Dipodomys*) (Williams *et al.* 1993). The Stephens' kangaroo rat is medium sized for the genus. The average adult weight is approximately 70 grams (2.5 ounces), and the total adult body-plus-tail length ranges between 23 and 30 centimeters (9 and 12 inches), with the tail 1.45 times the length of head and body (Bleich 1977). SKR occur in relatively dry inland valleys of the Peninsular Ranges of San Bernardino, Riverside and San Diego counties of southern California and typically inhabits areas characterized by low perennial and annual cover and large areas of bare ground (Grinnel 1933; Lackey 1967; Bontrager 1973; Bleich 1973 and 1977; Bleich and Schwartz 1974; Thomas 1975; O'Farrell *et al.* 1986; O'Farrell and Clark 1987; O'Farrell and Uptain 1989; Price *et al.* 1994; Price *et al.* 1995; Goldingay and Price 1997). Typical habitat consists of native and non-native annual herbs (*e.g.*, gold fields and filaree) and native and non-native grasses (*e.g.*, foxtail fescue and foxtail chess).

SKR are solitary and nocturnal (Bleich 1977; O'Farrell 1990). Though SKR are solitary, burrows are frequently found in clusters. SKR may modify and use pocket gopher and California ground squirrel burrows (Thomas 1975). It feeds primarily upon the seeds and vegetative parts of forbs such as filaree and grasses (*e.g.*, *Bromus madritensis rubens* and *Schismus barbatus*) (Lowe 1997). Additional plants documented in the diet of this animal include California buckwheat, common fiddleneck, coastal sagebrush and tarweed (Lowe 1997). The reproductive season for SKR is variable depending on conditions such as amount and timing of rainfall, though it typically centers around late winter (Bontrager 1973; McClenaghan and Taylor 1993).

2.2 Status of the Species

SKR was historically and is currently distributed throughout the inland valleys of the coastal side of the Peninsular Ranges of San Bernardino, Riverside, and San Diego counties of southern California and is found from approximately 27 to 1,280 meters (90 to 4,200 feet) above mean sea level (Grinnell 1922; Lackey 1967; Hall 1981; Bleich 1973; Bleich and Schwartz 1974; O'Farrell and Uptain 1989; O'Farrell *et al.* 1986; Dudek & Associates 1998; Ogden Environmental and Energy Services Co., Inc. 1998). The entire geographic range of SKR was estimated to be approximately 2,870 square kilometers or 287,000 hectares (1,108 square miles) at the time of its listing in 1987 (USFWS 1987).

Large areas of suitable habitat have been lost due to agriculture and more recently urban and industrial development (Price and Endo 1989). During a range-wide study, O'Farrell and Uptain (1989) determined that remaining occupied areas tended to be small (68 sites were less than 40 hectares [100 acres]), and 6 of 79 occupied sites were destroyed prior to completion of the report.

Remaining SKR populations show higher genetic variability among occupied locations than anticipated according to mtDNA analysis (Metcalf *et al.* 2001). Based on topography, Metcalf *et al.* divided the species' range into three geographic regions: northern (Norco, Alessandro Heights, Sycamore Canyon, Lake Mathews, Steele Peak, and Potrero Creek); central (Motte-Rimrock Reserve, San Jacinto, Canyon Lake, Cottonwood Canyon, and Shipley Reserve); and southern (Lake Skinner, Lancaster Valley, Camp Pendleton, Fallbrook, and Guejito). Metcalf *et al.* found that the different geographic regions differ genetically, with the central area having the greatest diversity of genetic lineages. These results suggest that dispersal among occupied sites was historically limited, and effective population sizes were large.

2.3 Assessment of Incidental Take

The proposed project would affect less than three (3) acres of habitat, of which about 0.267 acres would be permanently affected and about 2.4 temporarily affected. The total of these two acreages is approximately 0.10 percent of the estimated 2,637 acres occupied by SKR at Sites 1 (2,488 acres) and 2 (149 acres).

Permanently affected habitat refers to habitat permanently altered due to the installation/abandonment of physical features, such as groundwater monitoring wells and boreholes, and habitat alteration from existing road maintenance. For example, abandoned groundwater wells and boreholes are backfilled with bentonite slurry and may prevent the recovery of habitat in the area of the feature on the ground surface. The permanent acreage was calculated by summing estimated areas of permanent habitat alteration for each activity type (e.g., well installation and abandonment, boreholes, and existing road maintenance). For example, the calculation for permanent habitat alteration from well installation activities consisted of calculating the area of each 4 inch diameter well at ground surface, which is 0.087 ft^2 , multiplying the area by the estimated number of features ($0.087 \text{ ft}^2 \times 50 \text{ wells} = 4.36 \text{ ft}^2$), and converting the result to acres ($4.36 \text{ ft}^2 \times 0.000022956 \text{ acres/ft}^2 = 0.0001 \text{ acres}$). Similar calculations were performed for the other activity types (well abandonment [0.0007 acres], borehole sampling [0.0034 acres], and

existing road maintenance [0.264 acres]), and the resulting acreages were added for a total of 0.267 acres.

Temporarily affected habitat refers to habitat temporarily altered, primarily the flattening of grasses and compression of soils from vehicle traffic. These temporary effects are included in the low-effect HCP to provide coverage for temporary actions that may impact SKR. The acreage of temporarily affected habitat was calculated in a similar manner to that of permanently affected habitat. Estimated areas of habitat that have to be traversed (*e.g.*, the off-road path, if any, to arrive at the work location and the area around the work location that will be traversed during the work activity) during each type of work activity were summed. Using the same example as before, temporary habitat alteration from well installation consisted of estimating the area of the average off-road path to well installation locations, which was 400 ft² (20 foot by 20 foot path), multiplying by the number of estimated well locations, 400 ft² x 50 wells = 20,000 ft², and converting the result to acres (20,000 ft² x 0.000022956 acres/ft² = 0.45912 acres). Similar calculations were performed for the other activity types and the resulting acreages were added for a total of 2.4 acres.

Temporary and permanent impacts to habitat will total less than 3 acres over the entire project area, and each individual area impacted by the various actions will be relatively small in size (generally measured in square feet as in examples above). Thus, the loss of habitat potentially occupied by SKR in the project area is minor and will not result in loss of foraging or breeding habitat sufficient to result in death or injury to SKR.

However, it is possible that individual SKR may be injured or killed by vehicles driving over and crushing burrows or from direct contact with augers or probes during drilling activities. Due to their burrowing and nocturnal habits, SKR will be underground during the project's activities; therefore, SKR killed or injured will probably not be detected. However, the likelihood of death or injury to SKR is expected to be low since avoidance and minimization measures, such as load-spreading measures and presence of a biological monitor to guide vehicles around burrows, will be implemented. Also, not all areas of the project are occupied by SKR, and in the majority of the occupied areas SKR are present at low densities. Based on 1999/2000 survey data (SJMBBC 2000) about 64 percent (1,592 acres) of the occupied habitat (2,488 total occupied acres) is occupied at densities of less than 10 animals per hectare (hectare = 2.47 acres), 32 percent (793 acres) is occupied at 11-30 animals per hectare, and 4 percent (103 acres) is occupied at greater than 31 animals per hectare. Hence, the likelihood of killing or injuring individual SKR during project activities is small and not likely more than two to three SKR will be killed or injured by project activities. The proposed temporary trapping, holding and release program will further minimize deaths or injuries from the project. While temporary trapping of animals could lead to injury or death, the likelihood of this occurring is also extremely low since the trapping and holding will be done only by experienced biologists familiar with SKR capture techniques. It is anticipated that the trapping program will capture, hold and release from 10 to 20 SKR. The project is not expected to affect any proposed or candidate wildlife species or their habitats.

3.0 HABITAT CONSERVATION PLAN

This HCP has been prepared to support groundwater and soils contaminant investigations on two parcels of land owned or formerly owned by Lockheed Martin Corporation in Riverside County, California. The purpose of the HCP is to minimize to the maximum extent practicable and mitigate the effect of these investigations on SKR and SKR habitat at the project sites. The biological objective is to leave untouched approximately 99.90% of the SKR habitat on the plan area by limiting the impacts to less than 3 acres (~0.10% of SKR habitat). Of the total estimated affected area, approximately 0.267 acres will be permanently modified due to road maintenance, and borehole and well drilling and backfilling activities. The remaining approximately 2.4 acres will be temporarily impacted by vehicles and/or equipment traversing habitat.

3.1 Permit Duration

The duration of the section 10(a)(1)(B) permit for this project is five (5) years from the date of issuance. This permit allows the permittee (Lockheed Martin Corporation) or their successors to incidentally take, either directly or indirectly, Stephens' kangaroo rat within the geographical boundaries identified in the HCP over that time period. The permit may only be transferred consistent with 50 CFR part 13 section 13.25, which requires that 1) the permittee and proposed transferee apply for a permit transfer (through the submission of an assumption agreement between the two parties); 2) the proposed transferee meets all the qualifications for holding a permit; 3) the transferee provides written assurances that it can meet the financial obligations and will implement the terms and conditions of the permit, including any outstanding mitigation requirements; and 4) that the transferee provides any additional information the Service deems necessary. After expiration of this Permit, any take of SKR within the said geographic boundaries requires re-authorization.

3.2 Actions to Minimize Impacts

The following are measures that will be implemented to minimize the impacts of the investigations:

1. A Service approved biologist (biological monitor) will perform pre-activity surveys to identify the location of SKR habitat and active burrows;
2. All activities will be completed during daylight hours;
3. All activities will be supervised by a Service approved biologist;
4. An orientation program about SKR and avoidance and minimization measures will be provided to project workers during tailgate safety meetings;
5. Burrows will be flagged to aid workers in burrow avoidance, and the flags will be removed when the task is completed;
6. All equipment will be guided by the Service approved biologist to avoid active SKR burrows as much as possible using the following priority for establishing the route: 1) the existing road network; 2) existing tracks, trails, or areas with compacted soils; 3) existing bare areas; or 4) if off-road, the shortest route having the least amount of native vegetation and the smallest number of active SKR burrows;

7. All off road vehicle or equipment traffic will be limited to the same path in and out, will move slowly, and will be turned in gentle arching motions to minimize impacts to the ground surface;
8. Mower blades will be elevated 4 to 6 inches above the ground surface and be limited to the smallest area possible to protect burrow sites;
9. In establishing parking and staging areas, the Service approved biologist will select the parking and/or staging area using the following priority: 1) the existing road network; 2) existing tracks, trails or areas with compacted soils; 3) existing bare areas; or 4) if off-road, the area that has the least amount of native vegetation and the smallest number of active SKR burrows;
10. If burrows are present in a parking or staging area, large sheets of metal or plywood will be placed under the vehicles and/or equipment to spread the weight and will be removed following use;
11. Parking of vehicles and staging of equipment overnight will be restricted to existing roads;
12. Drilling/boring will be restricted, to the maximum extent possible, to 15 feet or more from active SKR burrows;
13. If burrows cannot be avoided, load-spreading measures will be placed over the burrows for vehicles and/or equipment setup and movement; and
14. If more than load-spreading measures are required to avoid a significant amount of take (*e.g.*, during well abandonment and road repair), then trapping will be performed by a Service approved biologist. Trapping will consist of the following tasks: 1) The area of potential impact will be temporarily fenced using a 2-foot high plastic wood-staked soil erosion fence buried 12 inches deep, fencing will be removed after activities possibly resulting in take are completed; 2) SKR live-trapping will be conducted within the impact area 3-5 days prior to the disturbance activity, and all SKR trapped will be held in clean ventilated terrarium containers; 3) all SKR will be released at their capture site the evening after the activity is completed, but no SKR will be held any longer than 7 days. If the original burrows were destroyed by the activity, new burrows will be drilled into a suitable area within 100 feet of the trap location prior to the release of the SKR; and 4) to the maximum extent practicable, SKR trapped will be immediately released to the habitat adjacent to the excluded area, if suitable habitat to support SKR exists. This will remove the possibility of death or injury from holding the animal(s) in a terrarium.

3.3 Actions to Mitigate Impacts

Mitigation will consist of refilling boreholes and smoothing of soils disturbed during investigation activities. Due to the very small individual footprints of these activities, no additional mitigation measures are proposed or deemed necessary.

3.4 Monitoring, Management and Reporting

Annual Monitoring Reports will be submitted by the biological monitor to USFWS and CDFG by February 1 each year for the duration of the permit, specifying the acreage of annual impacts to SKR habitat, the results of the SKR monitoring program (*e.g.*, mapping surveys and trapping), and the compliance with the avoidance, minimization and mitigation activities covered by this five-year permit.

Mapping of SKR occupied habitat (with density categories) will be conducted by the biological monitor within 100 feet of the work areas at both sites and within the 565 acres of the applicant-owned property on Site 1 at the initiation of the low-effect HCP. At the completion of the contaminant investigation activities, the SKR mapping areas will be updated and will be compared with the initial mapping performed to report any increase or decrease in SKR-occupied acreage or density levels. The results of the SKR mapping survey and comparison will be presented as part of the HCP annual monitoring reports.

3.5 Funding

The applicant will provide financial assurance for the performance of the mitigation, monitoring, management, and reporting programs of the HCP in accordance with Section 3.0 of the HCP through a letter of credit (LOC). The LOC will be irrevocable by the applicant. It will be automatically renewable on an annual basis through the planned five-year term of the Low-Effect HCP, unless the USFWS takes action to terminate it. A copy of the LOC is provided by the applicant as Attachment A.

4.0 CHANGED CIRCUMSTANCES

“Changed circumstances” means changes in circumstances affecting the SKR or the geographic area covered by the HCP that can reasonably be anticipated by Lockheed Martin and reasonably be planned for in the HCP (*e.g.*, the listing of a new species, or a fire or other natural catastrophic event in areas prone to such event). Changed circumstances are not Unforeseen Circumstances.

The changed circumstances identified in this HCP are the detection of a listed species not previously known to occupy the area, listing of a new species, or the designation of critical habitat. In the event that a non-covered species that may be affected by the proposed activities is detected or becomes listed under the Act, Lockheed Martin will implement “no take/no jeopardy” and/or “no adverse modification” measures identified by the Service until the permit is amended to include such species, or until the Service notifies Lockheed Martin that such measures are no longer needed to avoid jeopardy to, take of, or adverse modification of critical habitat of the non-covered species. Critical habitat for SKR is not likely to be designated at Potrero Creek or Laborde Canyon because SKR-occupied areas within the properties are anticipated to be managed by the State of California for the benefit of SKR and other wildlife species. No other changed circumstances such as catastrophic fires that would imperil the continued existence of SKR as a species are foreseen at this time because of the relative short five-year duration of the permit.

5.0 UNFORESEEN CIRCUMSTANCES

Unforeseen Circumstances are discussed in the Department of the Interior's "Habitat Conservation Plan Assurances ('No Surprises') Final Rule," issued February 23, 1998 (Federal Register vol. 63, no. 35). Pursuant to the provisions of the "No Surprises Policy," in the event Unforeseen Circumstances affect a species covered by this HCP, the Permittee will not be required to provide additional mitigation which requires the commitment of additional lands, water, or financial compensation, or additional restrictions on use of lands, water, or other natural resources beyond the level otherwise agreed upon for the species covered by the conservation plan without the consent of the Permittee. Should Unforeseen Circumstances arise, changes will be limited to modifications within conserved habitat areas, if any, or to the conservation plan's operating conservation program, if any, for the affected species, and maintain the original terms of the conservation plan to the maximum extent possible. The assurances contained in the "No Surprises Policy" apply only if the Permittee has complied with its obligations under the HCP.

6.0 AMENDMENT PROCESS

6.1 Minor Amendments

Any party may propose minor modifications to the HCP by providing notice to all other parties. Such notice shall include a statement of the reason for the proposed modification and an analysis of its environmental effects, including its effects on operations under the HCP and on covered species. Minor amendments are permissible without amending the underlying section 10(a)(1)(B) permit provided that the Service determines that the changes do not: 1) cause

additional take of SKR that was not analyzed in connection with the original HCP; 2) result in operations under the HCP that are significantly different from those analyzed in connection with the original HCP, or 3) have adverse effects on the environment that are new or significantly different from those analyzed in connection with the original HCP.

Minor amendments to this HCP may include corrections of typographic, grammatical, and similar editing errors that do not change the intended meaning or corrections to any maps or exhibits to correct errors in mapping or to reflect previously approved changes in the permit or HCP. All minor amendments proposed by the Permittees to this HCP will be submitted to the Service in writing.

6.2 Formal Amendments

Amendments that do not fit the definition of a minor amendment will be processed as formal amendments in accordance with all applicable legal requirements, including but not limited to the Federal Endangered Species Act, the National Environmental Policy Act, and the Service's permit regulations. Formal permit amendments require written notification to the Service and the same justification and supporting information for compliance with a standard incidental take permit application, including conservation planning requirements and compliance with issuance criteria.

When the Service or Lockheed Martin believes that a formal amendment to the HCP is required, consultation with the Service will include the Service's Regional and California /Nevada Operations Offices. Lockheed Martin will prepare the appropriate documentation for submission to the Service. The documentation will include a description of the event or activity and an assessment of its impacts. The amendment will describe changes to the mitigation measures to ensure that SKR is appropriately protected.

7.0 PERMIT RENEWAL OR EXTENSION

The permit may be renewed or extended with the approval of the Service. The request to renew or extend the permit must be submitted in writing by the applicant and reference the permit number; certify that all statements and information in the original application are still correct or include a list of changes; and provide specific information concerning what take has occurred under the existing permit and what portions of the project are still to be completed. The request must be made to the USFWS's Carlsbad Fish and Wildlife Office at least 30 days prior to the permit's expiration date. As long as the request is received within 30 days prior to the permit expiration date, the permit shall remain valid while the renewal or extension is being processed. The renewal or extension may be approved in writing by the Deputy Manager of the Service's California/Nevada Operations Office. Changes to the HCP that would qualify as a formal amendment will be handled in accordance with section 6.2.

8.0 OTHER MEASURES

Section 10(a)(2)(A)(iv) of the ESA states that a HCP must specify other measures that the Director may require as being necessary or appropriate for purposes of the plan. When

conservation plans involve multiple parties, the Service may require that an Implementing Agreement be drafted and signed by each party to the HCP. The Service has determined this document to be a “low-effect” HCP with negligible or minor effects on listed species, whereby an Implementation Agreement is not required. No other measures that the Director may require have been identified for this HCP.

9.0 ALTERNATIVES TO THE PROPOSED ACTION CONSIDERED

This alternatives analysis compares the effects of two alternatives to the proposed permit. The following are considered the most reasonably feasible project alternatives: (1) the “no project” alternative and (2) the “trenching” alternative.

9.1 No Project Alternative

An alternative of not conducting investigations at the sites was considered. Pursuing this alternative would prevent understanding of the existence and extent of contamination of groundwater and soils. Additionally, failure to perform the investigation activities would place the applicant in non-compliance with the DTSC consent order issued for the sites. As a result, this alternative was not selected.

9.2 Trenching Alternative

Collection of soil samples by trenching was considered as an alternative to the proposed drilling for the soil assessment portion of the project. This alternative was not selected as it was determined that trenching would result in greater impacts to biological resources at the sites.

10.0 DEFINITIONS

Endangered Species – “...any species [including subspecies or qualifying distinct population segment] which is danger of extinction throughout all or a significant portion of its range.” [Section 3(6) of ESA]

Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1513-1543) - Federal legislation that provides means whereby the ecosystems upon which endangered species and threatened species depend may be conserved, and provides a program for the conservation of such endangered and threatened species.

Habitat – The location where a particular taxon of plant or animal lives and its surroundings, both living and non-living; the term includes the presence of a group of particular environmental conditions surrounding an organism including air, water, soil, mineral elements, moisture, temperature, and topography.

Habitat Conservation Plan (HCP) – Under section 10(a)(2)(A) of the ESA, a planning document that is a mandatory component of an incidental take permit application, also known as a HCP.

Implementing Agreement – An agreement that legally binds the permittee to the requirements and responsibilities of a conservation and section 10 permit. It may assign the responsibility for planning, approving, and implementing the mitigation measures under the HCP.

Incidental take - Take of any federally listed wildlife species that is incidental to, but not the purpose of, otherwise lawful activities (see definition for “take”) [ESA section 10(a)(1)(B)].

Incidental take permit – A permit that exempts a permittee from the take prohibition of section 9 of the ESA issued by the FWS pursuant to section 10(a)(1)(B) of the ESA.

Listed species – Species, including subspecies and distinct vertebrate populations, of the fish, wildlife, or plants listed as either endangered or threatened under section 4 of the ESA.

“Low-effect HCP’s” – Those HCP’s involving: 1) minor or negligible effects on federally listed, proposed, or candidate species and their habitats covered under the HCP; and 2) minor or negligible effects on other environmental values or resources. “Low-effect” incidental take permits are those permits that despite their authorization of some small level of incidental take, individually or cumulatively have a minor or negligible effect on species covered.

Mitigation – Under NEPA regulations, to moderate, reduce or alleviate the impacts of a proposed activity, including: 1) avoiding the impact by not taking a certain action or parts of an action; 2) minimizing impacts by limiting the degree or magnitude of the action; 3) rectifying the impact by repairing, rehabilitating or restoring the affected environment; 4) reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; 5) compensating for the impact by replacing or providing substitute resources or environments (40 CFR 1508.20).

National Environmental Policy Act (NEPA) – Federal legislation establishing national policy that environmental impacts will be evaluated as an integral part of any major Federal action. Requires the preparation of an EIS (Environmental Impact Statement) for all major Federal actions significantly affecting the quality of the human environment (42 U.S.C. 4321-4327).

Take – Under section 3(18) of the ESA, “... to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct” with respect to federally listed endangered species of wildlife. Federal regulations provide the same taking prohibitions for threatened wildlife species [50 CFR 17.31(a)].

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Figure 1
Beaumont Potrero Creek Property Location Map

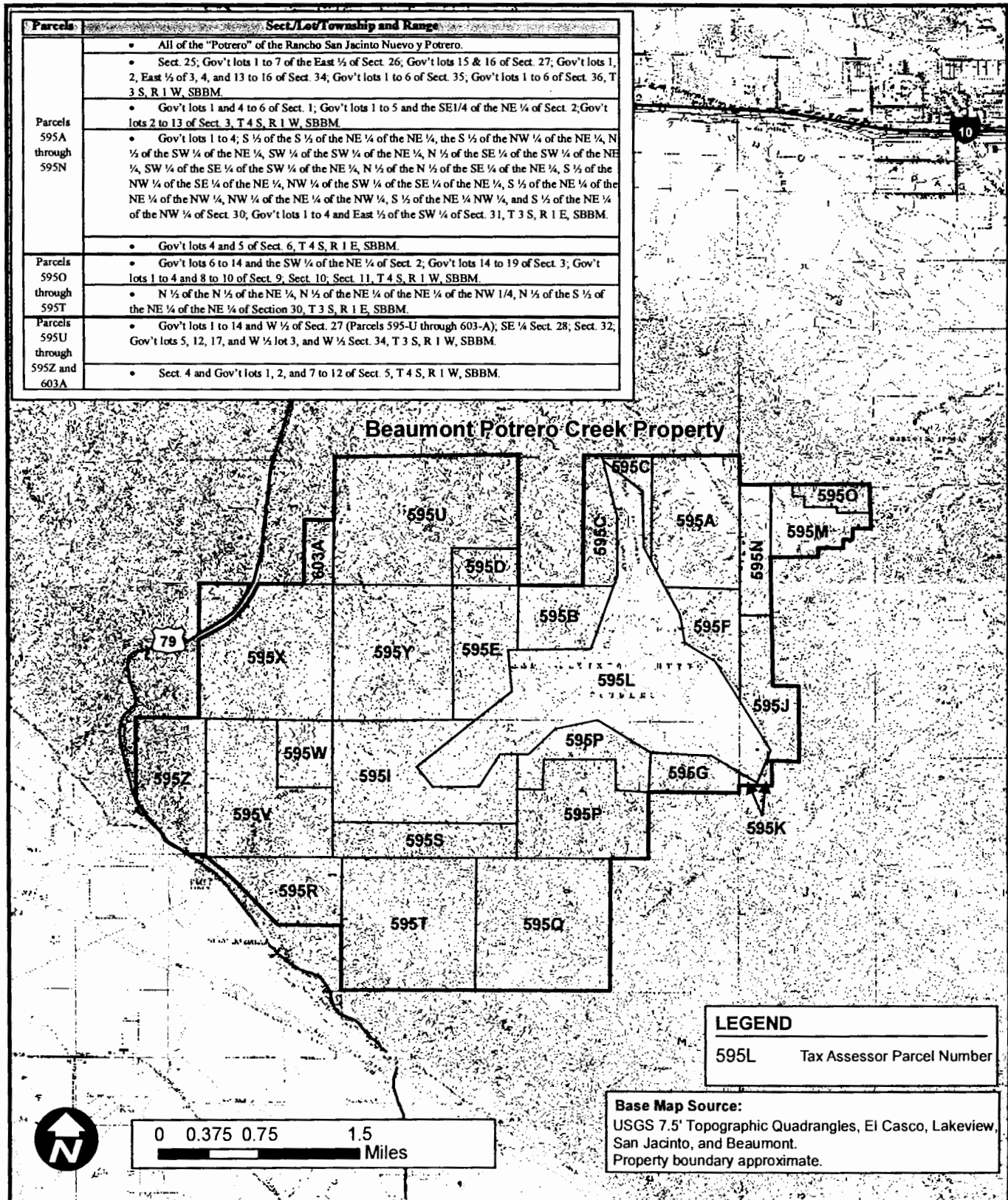
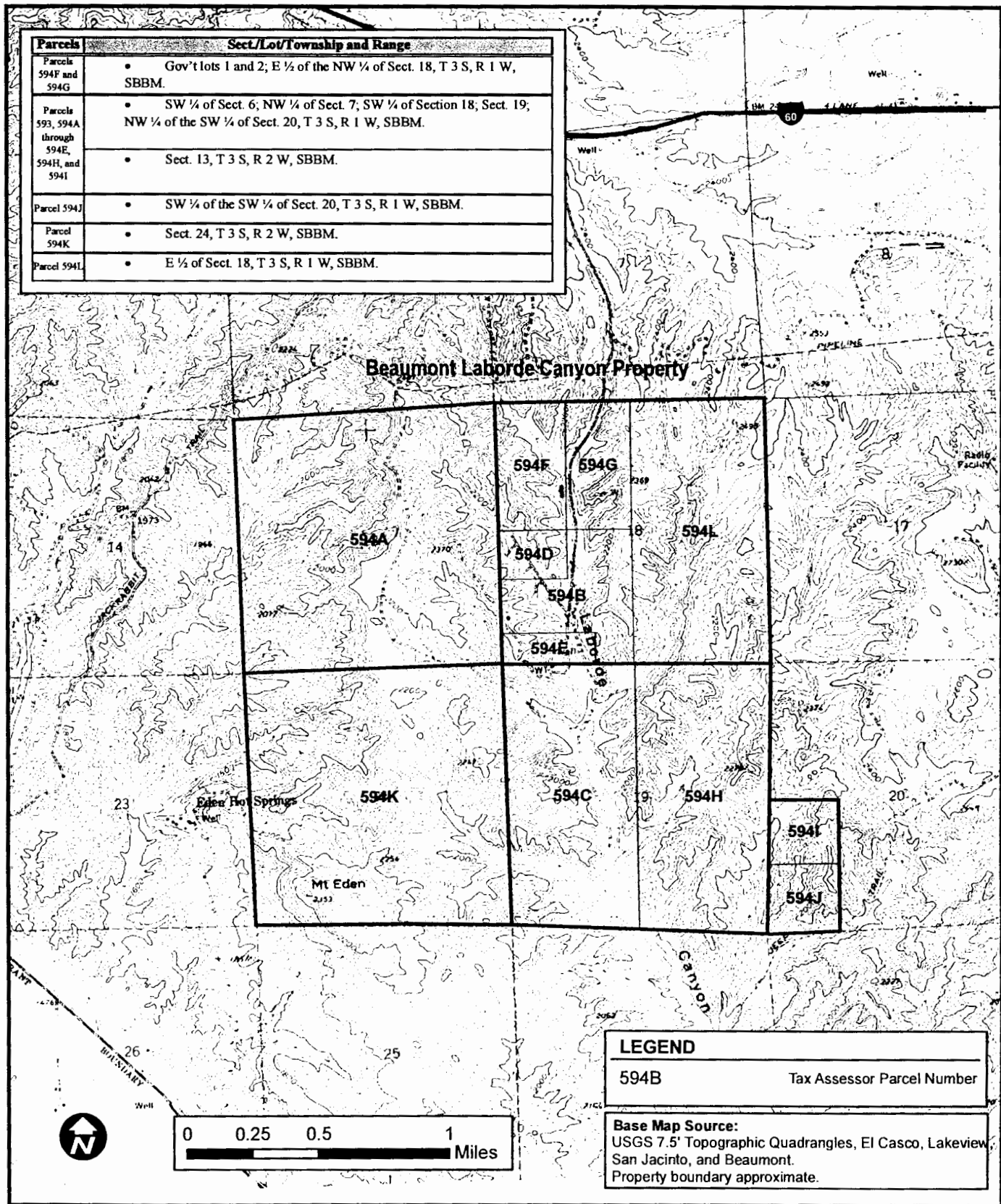


Figure 2
Beaumont Laborde Canyon Property Location Map



Attachment A
Letter of Credit

Low-Effect Habitat Conservation Plan
Beaumont Potrero Creek and Laborde Canyon



U.S. BANK NATIONAL ASSOCIATION
INTERNATIONAL DEPT. SL-MO-L2IL
8TH AND LOCUST STREETS
ST. LOUIS, MO 53101

SWIFT: USBKUS44STL
TELEX: 192179
TELEPHONE: 877-716-5696
FACSIMILE: 314-418-1376

Irrevocable Standby Letter of Credit No. SLCLSTL01967

September 27, 2005

Beneficiary:
Director
United States Fish and Wildlife Service
Carlsbad Fish and Wildlife Office
6010 Hidden Valley Road
Carlsbad, California 92009

Applicant:
Lockheed Martin Corporation
6801 Rockledge Drive
Bethesda, MD 20817

Amount: U.S.\$511,000.00
Exactly Five Hundred Eleven
Thousand and 00/100 United States
Dollars

Re: Letter of Credit No. SLCLSTL01967

Dear Sir or Madam:

We hereby establish and open our Irrevocable Standby Letter of Credit No. SLCLSTL01967 in your favor, at the request of Lockheed Martin Corporation and for the account of Lockheed Martin Discounted Operations, Beaumont I & II, 17255 South Highland Springs Rd., Beaumont, CA 92220 up to the aggregate amount of Five Hundred Eleven Thousand and 00/100 United States Dollars (U.S. \$511,000.00), available upon the presentation of:

- (1) Your sight draft, bearing the reference to this Letter of Credit SLCLSTL01967, and
- (2) Your signed statement reading as follows: "I certify that the amount of the draft is payable pursuant to regulations issued under authority of the California Hazardous Waste Control Law."

This Letter of Credit is effective as of September 27, 2005 and shall expire on September 26, 2006, but such expiration date shall be automatically extended for a period of one year on September 26, 2006 and on each successive expiration date thereafter, unless, at least 120 days before the current expiration date, we notify both you and Lockheed Martin Corporation, 6801 Rockledge Drive, Bethesda, MD 20817, Attention: Vice President and Treasurer, by certified mail or courier service, that we have decided not to extend this Letter of Credit beyond the current expiration date. In the event you are so notified, any unused portion of the credit shall be available upon presentation of your sight draft and the above-referred to signed statement for 120 days after the date of receipt by both you and Lockheed Martin, as shown on the signed receipts.

Whenever this Letter of Credit is drawn on, under and in compliance with the terms of this Letter of Credit, we shall duly honor such draft upon presentation to us, and we shall deposit the amount of the draft directly into the standby trust fund of Lockheed Martin Corporation in accordance with your instructions.

COPY



This Credit is subject to the Uniform Custom and Practice for Documentary Credits (1993 Revision), I.C.C. Publication No. 500.

U.S. Bank National Association

COPY
Authorized Signature

STATE OF CALIFORNIA - THE RESOURCES AGENCY

Arnold Schwarzenegger, Governor

DEPARTMENT OF FISH AND GAME

http://www.dfg.ca.gov
1416 Ninth Street
P.O. Box 944209
Sacramento, CA 94244-2090
(916) 654-3821



November 18, 2005

E. E. S. H.

NOV 21 2005

DEPT/SITE: 40 & 41
COPIES TO: Matsushita, Giedler,
Sabato, Villanueva, Hanks

Mr. Gene Matsushita
Technical Projects Manager
Lockheed Martin Corporation
2950 North Hollywood Way, Suite 125
Burbank, CA 91505

Dear Mr. Matsushita:

The California Department of Fish and Game ("Department") received your request for a determination that the U.S. Fish and Wildlife Service Incidental Take Permit No. TE110582-0 is consistent with the California Endangered Species Act ("CESA"), as to the anticipated take of Stephens' kangaroo rat (*Dipodomys stephensi*).

The Department has determined that the above-referenced Incidental Take Permit, which addresses impacts to the Stephen's kangaroo rat from conducting groundwater and soils contaminant investigations on the Potrero Creek Property in the City of Beaumont, south of Interstate 10 and west of State Highway 79, in Riverside County is consistent with CESA. The project will impact 3.0 acres of Stephens' kangaroo rat habitat. A copy of that determination is enclosed for your records. If you have any questions, please contact Mr. Scott Dawson, Senior Environmental Scientist, at (909) 987-7764.

Sincerely,

Banky E. Curtis
Deputy Director

Attachment

CALIFORNIA DEPARTMENT OF FISH AND GAME
CONSISTENCY DETERMINATION
Fish and Game Code Section 2080.1
Tracking Number TRK#2080-2005-027-06

PROJECT: Groundwater Contamination Investigation
LOCATION: 11,785 acres in the southernmost portion of the City of Beaumont, Riverside County, south of Interstate 10 and west of State Highway 79.
NOTIFIER: Mr. Gene Matsushita, Lockheed Martin Corporation Properties
2950 North Hollywood Way, Suite 125, Burbank, CA 91505

BACKGROUND:

The Lockheed Martin Corporation ("LMC") plans to conduct groundwater and soils contaminant investigation activities at the Potrero Creek ("Site 1," 9,117-acres) and Laborde Canyon ("Site 2," 2,668-acres) properties in Riverside County. Activities will include: quarterly groundwater level measurements, sampling, and repair at groundwater wells; the installation of 50 groundwater wells for groundwater sampling and monitoring; abandoning 20 groundwater wells; routine maintenance of existing structures at both sites 1 and 2; maintenance of roads at Sites 1 and 2; drilling as many as 400 soil assessment boreholes for collection of soil samples; installing up to 200 temporary soil gas probes; unexploded ordnance surveys; mowing work areas and depositing non-hazardous soils and debris onsite. The work will occur over a five year period, and includes restoration of areas of the site disturbed by the investigative activities. Implementation of the Project as proposed will result in direct and indirect temporary impacts to 3.0 acres of Stephens' kangaroo rat (*Dipodomys stephensi*, "SKR") habitat, which represents less than 0.05 percent of the SKR-occupied habitat on the Potrero site. The Project is more specifically described in the Habitat Conservation Plan ("HCP") prepared for the project on May 10, 2005.

Because of the Project's potential to result in take of the federally-listed endangered SKR, LMC consulted with the U.S. Fish and Wildlife Service (Service), as required by section 10(a)(1)(B) of the federal Endangered Species Act. The SKR is also listed as threatened under the California Endangered Species Act, Fish and Game Code section 2050 et. seq. ("CESA"). On October 14, 2005, the U.S. Fish and Wildlife Service issued Incidental Take Permit No. TE110582-0 ("ITP") to LMC. The ITP authorizes incidental take of SKR that may result from project activities and requires LMC to comply with all conservation and mitigation measures proposed in the HCP. On October 27, 2005, the Director of the Department of Fish and Game ("Department") received a notice from LMC seeking a determination pursuant to section 2080.1 of the Fish and Game Code that the ITP is consistent with CESA.

DETERMINATION:


After reviewing the above-referenced ITP and HCP, the Department has determined that ITP No. TE110582-0 is consistent with CESA because the project and mitigation measures meet the conditions set forth in Fish and Game Code section 2081(b) and (c) for authorization of incidental take of species protected under CESA. Important to the Department's findings are measures from the ITP and HCP which include, but are not limited to the following:

Consistency Determination
Page 2


1. A site biologist will conduct pre-activity surveys for SKR and will be on site to monitor activities,
2. Activities will be limited to daylight hours,
3. Burrows will be flagged and avoided whenever possible,
4. LMC will minimize the damage to burrows by heavy equipment by implementing load-spreading measures,
5. Driving and staging areas will be limited to the smallest possible area and will be established in low burrow density areas, as directed by the site biologist, and
6. LMC will refill boreholes, smooth soils, and otherwise restore all activity sites to the extent possible.

Pursuant to section 2080.1 of the Fish and Game Code, authorization under CESA will not be required for incidental take of SKR provided the Project and the identified mitigation measures are implemented as described in the ITP and HCP. If there are any substantive changes to the project, including changes to the mitigation measures, or if the Service amends or replaces the ITP, Lockheed Martin Corporation Properties will need to obtain a new Consistency Determination or a CESA incidental take permit from the Department for any Project activities that might result in take of SKR.

By:


Banky E. Curtis, Deputy Director
California Department of Fish and Game

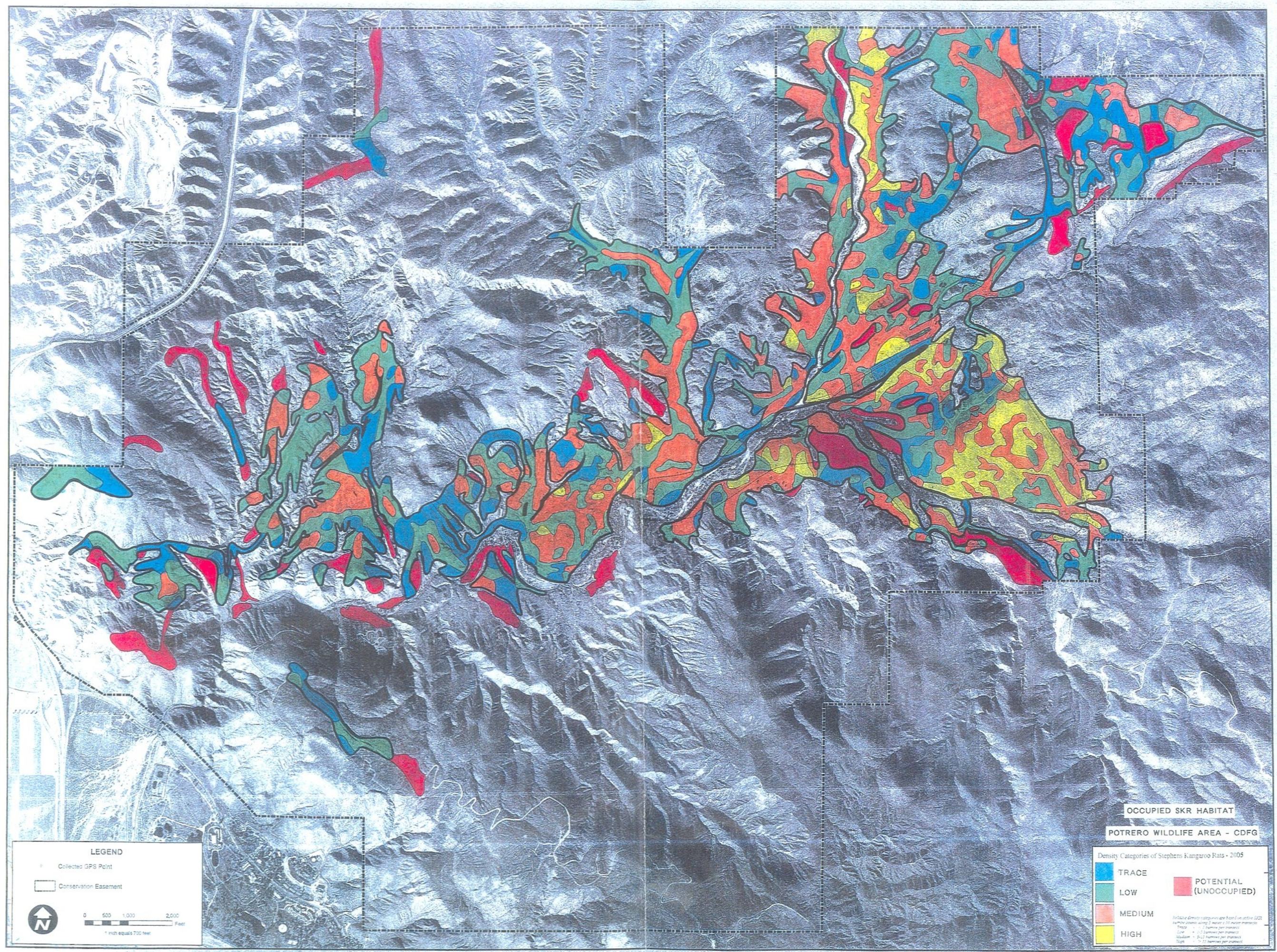
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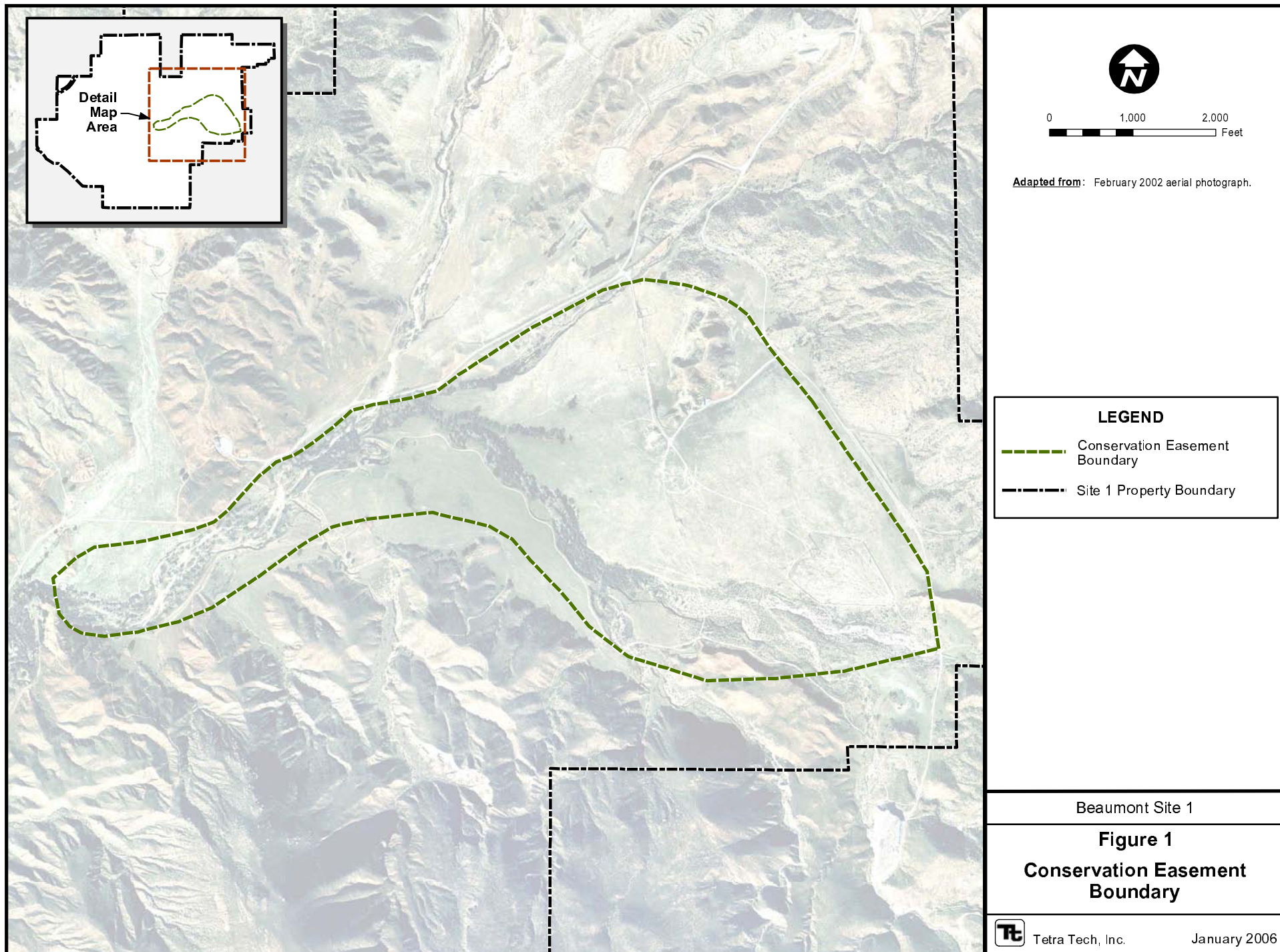

Nov. 18 2005

Attachment 2

Mapping of SKR Density

1. CDFG SKR Density Map for the Potrero Creek Property
2. 2006 Map Area

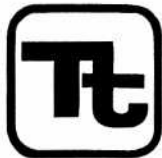




ATTACHMENT 3

2005 MONITORING FORMS & PHOTOS

1. Copies of Monitoring Forms
2. Photos



Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 11/28/05 Monitor Name Kristen Moblaaten
Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____
Monitoring Location Well sites 8 & 9
Project Description drilling wells
Personnel Monitored Well-drilling crew

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0600	START		
0740	Met w/ Kathy & Brad to discuss HCP info for	K-rat	
0900	Met crew at gate		
1000	Travelled to well sites 8 & 9		Placed boards & flagged burrows at well site • put 35 boards down • Monitored well drilling activities
1215	Brad brought more boards for drilling activities	area of well drilled: diameter $\approx 4\frac{1}{2}$ " ; depth: 10' - Permanent disruption (cylindrical)	
	area of the tracks: 24" width, each track ≈ 45 in (4 sets of tires/tracks)		
1510	finished drilling 1 st well \rightarrow Will make the well 1 st thing tomorrow then move on to 2 nd well for drilling. Will drill second well deeper than 1 st well.		
	• 1 st well will be 4" diameter.		
	• Tomorrow - 8:00am		
1630	END		

Monitor Signature

[Handwritten Signature]

Date

11/28/05

Copy Distribution: White Original - Tetra Tech Office
Yellow - Monitor Copy



Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 11-28-05 Monitor Name Brad Haley
Monitoring Site: ☒ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____
Monitoring Location Seismic lines 1-2, 3-4, 5-6 - site inspections - no activity; well locations site 2
Project Description SKR burrow inspections / logistic (planning)
Personnel Monitored No personnel on site 1

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0715	start - met Kathy & Kristen @ Denny's - discussed schedule - new HCP rules, e		
	Found as seismic work starting Tues (11/29) @ 0800 @ gate		
0745	Read through Steve M.'s guidelines for each seismic sites - visited each site -	w/ lead impact to site & short term impact	
	Came up w/ a plan on how to get to each one - took notes		
1200	left site after loading boards from bunker into vehicle to deliver to Kristen @ site 2		
1230	arrived @ site 2 - waited @ gate to be let in		
1300	Arrived to well drilling site - delivered boards - met crew - got fair at site		
1330	left site w/ Kathy - needed to pick up equip (hard hat, vests, glasses, and flags) @ Cottonwood supply shop		

Monitor Signature Bradley J Haley Date 11/28/05



Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909) 381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 11/29/05 Monitor Name Kristen Moblaaten

Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____

Monitoring Location Well sites 9 & 8

Project Description drilling wells

Personnel Monitored Well drilling crew

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0730	START		
0800	Met Paul at front gate - discussed yesterday's activities		
0830	Crew showed up		
0930	Safety Meeting, crew began to install well casing (4" diameter)		
0900	I went down to project site to cover burrows. Helped crew stage vehicles		
1000	Talked w/paul a bit → explained process of installing well casing to me		
	permanent disruption → 10" diameter x 40' depth		
	new vehicle on site: forklift-tracks are 14" x 12m long (2 tracks)		
	Continued to install sand & grout into well		Monitored well drilling activities
1110	Stopped work to steam clean augers for second well site		
1130	Resumed work → mixed grout to pour into well		Monitored well drilling activities
	new tracks to second well site: 24" width x 30' m long (4 tracks) (numbers are approx)		
1240	Crew moved to second well location		Monitored well drilling activities
	drilled to 45' - still no water		
1730	END - tomorrow 8:00 am		

Monitor Signature

[Signature]

Date

11/29/05



Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 11/29/05 (Fries) Monitor Name Brad Haley
Monitoring Site: ☒ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____
Monitoring Location RAW 48, raw 46
Project Description SKR burrow protection

Personnel Monitored seismic crew (Kerry & Terry Hennen)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0630/0700	Start/arrived on-site (1st crew in)	Tom was on-site - did seismic inspection w/ him & seismic crew	
0930	went w/ CP, chritie; Kerry & Terry to do inspections to 9 well locations where vertical profiling was to take place this week		
1115	crew began work on SKR - rep dance log - while waiting, I prepared MIG/16 SWP forms		
1300	monitored activities at raw 46, took pictures etc		
1145	will meet @ 0700 wed 12/1		
1300	No work 12/1 (Thursday)		
1415	2 pits with augers made from white shankers		
1630	budget completed		
1645	left site to go back to office to do paperwork		

Monitor Signature

Bradley J. Haley

Date

11/29/05

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348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 11/30/05 Monitor Name Kristen Mobraaten
Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____
Monitoring Location Well drilling site 8#9
Project Description drilling wells
Personnel Monitored well drilling crew

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0730	START		
0800	Met crew & Paul at front gate		
0845	Banded all burrows before crew drove on site		
0900	Safety meeting		
	• found water at 32.9', well depth is 45'		
	• area of wooden boards placed by drill crew: 3' x 6' (4 board areas)		
1000	Paul arrived on site	Talked w/ him → wells need to be developed before testing begins. Dev. won't happen this week (unless he hears otherwise), earliest is next week. Will take 1-2 days (I will need to be out here next week)	
	• crew pumped water out of well. drilled down to 50' & ran out of water		
1300	Paul talked to drilling crew's boss as a possibility to continue drilling Thursday: negative		
1430	Crew's boss came came out here w/ more supplies for the crew so they can get 90% finished today		
	new plans: crew scheduled to work Thursday. Developer to come at 8:00 on Friday		
	new well measurements: 10" diameter x 80' deep		
1800	END		

Monitor Signature

Kristen Mobraaten

Date

11/30/05



Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 11/30/05 Monitor Name Brad Haley
Monitoring Site: ☒ LMC Beaumont 1 ☐ LMC Beaumont 2 ☐ Other _____
Monitoring Location EW09; MW9; MW32
Project Description SKR burrow monitoring
Personnel Monitored Kerry & Terry Hennen (TerraPhysis crew)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0630/0700	Start/arrived on-site - opened gate & went over		schedule for day
0730 0700	led crew out to MW9 - monitored guided vehicle out to site (w/ activity in field)		
1130	monitored activities		
1200	guided crews out to next testing site - no SKR (new near road)		
	took 1/2 hr lunch break		
1245	guided crews to #32 (w. 80 Cat. OX) series 06 3 wells - got them set up → created access route to seismic lines 1-2 & EW01 (Solo bunker) will test EW09 Fri (12/2) & boards will remain at over weekend until 12/6 (Tues) when seismic line 1-2 is done		
1030	picked up boards to #32 after crew done at (not working tomorrow (12/1) - will see Fri (12/2) @ 0700 @ gate		
1400	left site		

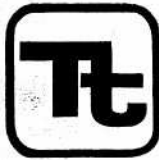
Monitor Signature

Bradley J. Haley

Date

11/30/05

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Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 12-1-05 Monitor Name Brad Haley

Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____

Monitoring Location 2 wells (furthest S)

Project Description SKR burrow monitoring

Personnel Monitored well drilling crew (2 men)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0730/0800	start/arrived @ site 2 for well placement	opened gate	
0820	covered burrows - had safety meeting; went over schedule	took pictures - monitored activities	
1030	Spoke w/ Paul about Friday (12/2) said no work will happen		
1330	Had brief lunch break (10 mins) could to monitor activities		
1600	completed wells - clean up process began - had to restrict the forklift driver to areas already disturbed - as he kept pushing the boundaries		
1700	As trucks began to leave I began picking up boards & leaving flags in place & boards		
1745	provided light for crews cleaning up		
1800	waited 15 mins for crews outside of gate to finish paperwork (they were blocking me)		

Monitor Signature

Brad Haley

Date

12/1/05

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Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 12-2-05 Monitor Name Brad Haley

Monitoring Site: ☒ LMC Beaumont 1 ☐ LMC Beaumont 2 ☐ Other _____

Monitoring Location MW36 G1A; EW01

Project Description SEISMIC BURROW MONITORING

Personnel Monitored Seismic crew (vertical activity)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0630/0700	start/arrived on-site - met seismic crew		
0715	opened gate to G1A in burnpit, boarded burrows - led crew in - 2" pipe instead of 4" - had to make PVC pipe to go down - needed drill bits - drove to yard and to bunker & then on to front gate to meet Bink's man - he loaned them a drill bit		
0900	flagged access route to EW13 for CP & to other well (Note fence to burnpit) monitored activities		
1145	monitored burrows - guided crew 5200 yds to MW36 - monitored activities; took pictures, etc.		
1300	crew done w/ MW36 - escorting over to EW01 (near seismic line 1-2) created access route (11/30) w/ pink flagging & already laid out boards		
1415	Inspected other well sites - made phone calls to bunker		
1430	helped crew/guided crew turn around, monitored burrows, guided crew		
1445	left site to go back to office to do paperwork on certain vehicle; company vehicle expense reports		

Monitor Signature Bradley J. Haley

Date 12/2/05



Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 12/5/05 Monitor Name Kristen Moberg

Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____

Monitoring Location MW 5 & WD 6S

Project Description Well development

Personnel Monitored Well developing crew

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0600	START ^{development}		
0830	Met Michael & David at front gate • gave Michael ^{development} SKR SPIEL		
0930	commenced work		
0900	Was 1 st one at site, covered all burrows w/ boards		
1100	Finished work at MW 6S & WD, moved on to MW 5 • wells have slow recharge rate, so a lot of down time		
1730	END		

Monitor Signature

[Handwritten Signature]

Date

12/5/05

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Daily Biological Monitoring Log

Project Description	Site preparation
---------------------	------------------

Activity Log

[illegible]Date 12/5/05

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Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 12-6-05 Monitor Name Brad Haley
Monitoring Site: ☒ LMC Beaumont 1 ☐ LMC Beaumont 2 ☐ Other _____
Monitoring Location seismic lines 1-2 ; MW 15, 18, 38, 13
Project Description SKR burrow protection

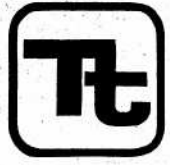
Personnel Monitored TerraPhysics crew (Kerry & Terry Hennen, Anthony)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0630/0700	Star I arrived on site - met seismic crew @ gate - waited for Tom & Brenda		
0720	Tom & Brenda, seismic crew doing inspection @ 4th seismic line		
0730	covered burrows @ seismic line 1-2 - guided van in - talked to Kerry about schedule		
0900	checked w/ Bernard - inspected 4th line - he said he understood what to do		
1015	went to seismic line 1-2 - monitored 1,000lb dropping activity (every 10 ft drop = 8x)		
1215	Truck pulling weight brake down - activities done for day		
1230	cleared path to maneuver heavy 56' pieces & trailer out of site		
1445	let crew into gate - went back to uncover burrows		
1500	Spoke w/ vx crew - might be going out to Area A 12/7 - chuk said they can wait		
1520	left site		

Monitor Signature Bradley J Haley Date 12-6-05



Tetra Tech, Inc.
348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 12/07/05 Monitor Name Brad Haley

Monitoring Site: ☒ LMC Beaumont 1 ☐ LMC Beaumont 2 ☐ Other _____

Monitoring Location seismic lines 1-2

Project Description SkR burrow monitoring

235 Personnel Monitored Kerry & Terry Hennen + Anthony (seismic crew)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0615/0645	Start / Arrived on-site		
0645	covered burrows @ seismic lines 1-2		
0700	led seismic crew in - guided to site, etc		
0845	seismic crew began "thumping" - had to start over taking data b/c yesterday was a frost / frost		
1015	crew took break - gave Terry a lift to bunker part 2 - failed		
1030	checked in w/ Bernard @ seismic lines 1-2 using high weed mower to mow path - he was completed		
1115	5 4'x8' sheets he dropped off along w/ cart to carry them		
1115	checked back in w/ seismic crew / checked for more burrows in path		
1130	spoke to chuck - left message reiterating that they cannot drive down to Area A - called back spoke to Bob		
1415	uncovered burrows & guided vehicles out of seismic lines 1-2 (seismic crew helped pick up boards)		
1500	left site after dumping off many boards @ bunker		

Monitor Signature Brad Haley Date 12/7/05



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348 West Hospitality Lane, Suite 100
San Bernardino, California 92408
Ph (909)381-1674 Fax (909) 889-1391

Daily Biological Monitoring Log

Date 12/8/05 Monitor Name Brad Haley
Monitoring Site: ☒ LMC Beaumont 1 ☐ LMC Beaumont 2 ☐ Other _____
Monitoring Location Seismic line 7-8
Project Description SKR burrow monitoring

Personnel Monitored Seismic crew (Kathy, Terry, Anthony)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0600/0630	Start/arrived on-site early to get setup - but so did seismic		
0645	Arrived at seismic lines 7-8 @ SE corner of property		
0800	Inspected for burrows along line to proposed travel for "thumper" - Terry w/ data ran		
1115	Will be staying on road		
1215	Thumping process done for day - Kathy Simon arrived on-site - showed her how seismic worked		
1230	Went to bunker - she showed Kathy where wells were on map that CP gave me - she understood		
1315	led seismic crew off site		
	meeting seismic crew to get 12/12 20700 & 12/14 to finish last 2 seismic lines		

Monitor Signature Bradley J Haley Date 12/8/05



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Daily Biological Monitoring Log

Date 12/12/05 Monitor Name Kristen Mobraten

Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____

Monitoring Location MW 5 & US & W 6D

Project Description Water Monitoring

Personnel Monitored CP & TUFU

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0600	START		
0745	Met CP & TUFU at front gate		
	- lock & chain missing from front gate, CP will notify someone at Tetra Tech		
0815	Placed boards over burrows at MWs 5, US & 6D		
0830	Talked w/CP about day's activities: will pump H ₂ O at these wells, will pump H ₂ O at 2 other wells, then dump H ₂ O. will return for testing at all 4 wells		
1020	finished at MWs 5, US & 6D, moved on to two other wells to pump		
	- 1 accessed by road, 1 on concrete pad where barrels stored		
	- 1 Next to concrete pad		
1220	Returned to MWs 5, US & 6D for sampling		
1300	finished at MWs 5, US & 6D, CP showed me 3 wells to work on tomorrow		
	- 1 North of improvised parking area (possible SKR)		
	- 1 by pyramid		
	- 1 by concrete pad		
1500	End at site 2 → went over to site 1 to return boards & talk to Brad		

Monitor Signature

Kristen Mobraten

Date

12/12/05

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Daily Biological Monitoring Log

Personnel Monitored seam crew (Kerry, Terry, Anthony)

Activity Log

(Use multiple lines as necessary)

[illegible]

Monitor Signature

Date _____

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Daily Biological Monitoring Log

Date 12/13/05 Monitor Name Brad Haley
Monitoring Site: ☒ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____
Monitoring Location TT MW2-1; 2-2; 2-3
Project Description SkR burrow monitoring - preparation of sites for 12/14
Personnel Monitored Chris Patrick of T&E 25 & 2 - No personnel @ site 1 - just seismic & MW preparation

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0715/0745	start/arrived on-site		
0800-0900	MW2-2 water sampling		
0900-1000	MW2-1	11	
1000-1100	MW2-3	11	
1100-1145	MW2-2	11	Organization of barrels; dumping of decontaminated H ₂ O
1200	left site 2 - went to site 1		
1220	Arrived site 1		
1230	laid out boards @ seismic lines 3-4		
1300	designated path for groundwater sampling truck/trailer to access MW2-1 & 2-3		
1345	left site 1		

Monitor Signature Bradley J Haley Date 12/13/05



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Daily Biological Monitoring Log

Date 12/14/05 Monitor Name Brad Haley

Monitoring Site: ☒ LMC Beaumont 1 ☐ LMC Beaumont 2 ☐ Other _____

Monitoring Location seismic line 3-4; MW 60A; EW13; 59D

Project Description SKR burrow monitoring & habitat protection

Personnel Monitored Seismic crew (Kerry, Terry, ~~Anthony~~ Daniel); water sampling (Chris & Tofu)

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0615/0645	start/arrived on-site; led seismic crew to gate		
0705	opened bunker - got more boards + 10' candy-striped pole for seismic line visibility		
0715	led seismic crew to seismic line 3-4 - covered burrows; identified burrows w/ ph flagging		
	will only be foot traffic - no vehicular access		
0800	covered burrows to MW 60A - led the crew into position - spoke about schedule for day		
0945	led the crew out to MW 60A & back to road to the sample 59D while uncovering burrows		
1030	checked in w/ seismic - might be getting harder due to excess winds		
1100	created access path out to EW13 in burn pit		
1130	measured length of impact @ seismic line 7-8		
1145	picked up flags @ MW13; 15, 18		
1200	led the crew into EW13 - checked in w/ seismic - winds died down - so continuing activities		
1300	led the crew out of EW13 - picked up boards - met over at ar stripper - unloaded boards into bunker		
1330	the crew helped me pick up 4'x8' sheets @ seismic line 5-6 - I stored @ Carl's		
1430	helped seismic crew picking up supplies; scheduling for next week to finish MW 59		
1615	left site after unloading boards into bunker		

Monitor Signature _____

Bradley J. Haley

Date _____

12/14/05

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Daily Biological Monitoring Log

Date 12/14/05 Monitor Name Brad Haley

Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____

Monitoring Location No Trespass signs, located throughout property - west to, W, E, N boundaries & in middle

Project Description SKR Arrow Protection

Personnel Monitored Bernard

Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures implemented
0730/0800	Start/arrived on-site to pick up boards @ bunker		
0830	met Bernard @ Site 2 - loaded boards into his truck; along w/ other necessary gear		
	left Army truck @ gate		
1330	Helped Bernard place posts & hang No Trespass signs throughout property @ Site 2		
1345	left Site 2 - went back to office; filled out paperwork; downloaded pictures for project		

Monitor Signature Bradley J Haley Date 12/14/05



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Daily Biological Monitoring Log

Wayne
Hamilton

Page 1 of 1

Date 12/20/05 Monitor Name Brad Haley
Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____
Monitoring Location No Trespass sign locations, S, E, W boundaries
Project Description Skunk burrow protection

Personnel Monitored Bernard

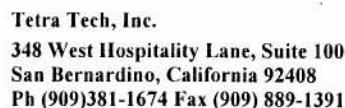
Activity Log

(Use multiple lines as necessary)

Time	Field Activity	Observance/ Comments	Corrective Action/ Avoidance Measures Implemented
0745/0815	start/arrived @ site - unloaded boards & other equip. into his Bernard's truck, left my truck @ gate		
1030	Helped Bernard place signs @ various locations across site, (S, E boundaries - 3 signs)		
1045	Bernard needed to go back to office in SB; he had me meet Simi ans (toilet guy) @ site 1 to give him keys to gate - I had him move the toilet closer so that he didn't accidentally break the "laser eye" of the alarm		
1200	Arrived back @ site 2 - Bernard meeting me shortly		
1415	left site 2 - meeting Bernard @ 0730 12/21 An archerist named Wayne Hamilton came to gate - asked questions about ownership of site		

Monitor Signature Bradley J Haley Date 12/20/05

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Daily Biological Monitoring Log

Date 12/21/05 Monitor Name Brad Haley

Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other

Monitoring Location Western boundary swim locations

Project Description	SKR monitoring/protection & assistance in sign installation
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Personnel Monitored Bernard

Activity Log

(Use multiple lines as necessary)

[illegible]

Monitor Signature Bradley J Haley Date 12/21/05

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Daily Biological Monitoring Log

Date 12/23/05 Monitor Name Brad Haley

Monitoring Site: ☒ LMC Beaumont 1 ☐ LMC Beaumont 2 ☐ Other

Monitoring Location MW 59A

Project Description SkR burrow protection

Personnel Monitored sepmiz (Terra Physics)

Activity Log

(Use multiple lines as necessary)

[illegible]

Monitor Signature Bradley J. Harley Date 12/23/21

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Daily Biological Monitoring Log

Date 12/29/05 Monitor Name Brad Haley
Monitoring Site: ☐ LMC Beaumont 1 ☒ LMC Beaumont 2 ☐ Other _____
Monitoring Location MW2-5/26 (3 new wells)
Project Description SKR burrow protection

Personnel Monitored Chris Patrick & Christie

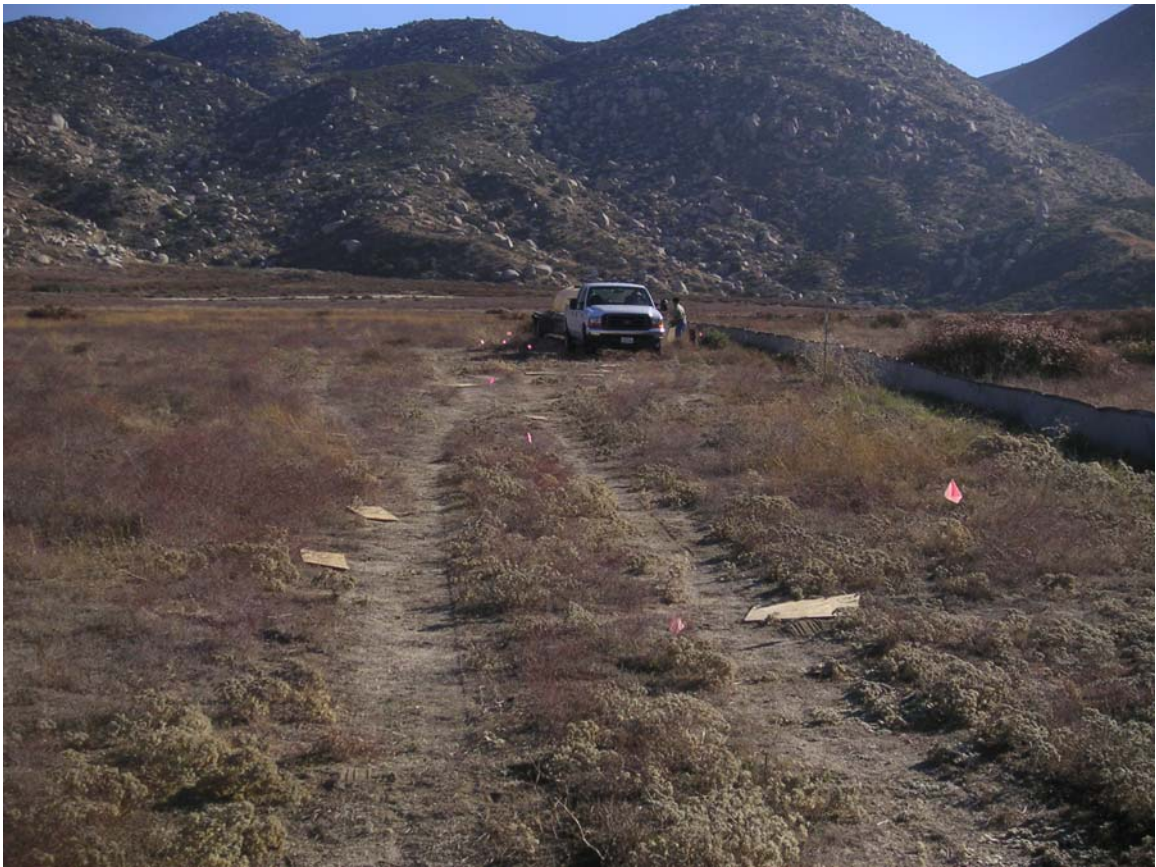
Activity Log

(Use multiple lines as necessary)

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Monitor Signature Bradley J Haley Date 12/29/05

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Quarterly groundwater sampling at Site 1 (Potrero Creek), 12/19/05



Overview of well installation at Site 2 (Laborde Canyon), 12/07/05



SKR protection and active work at well installation, Site 2 (Laborde Canyon), 12/07/05



Completed well installation at Site 2 (Laborde Canyon) 12/07/05



Seismic line location with SKR load spreading boards, Site 1 (Potrero Creek), 12/07/05



Seismic line with equipment working, Site 1 (Potrero Creek), 12/07/05



Overview of seismic line at Site 1 (Potrero Creek), 12/19/05



Seismic line with equipment after mowing activities, Site 1 (Potrero Creek), 12/19/05