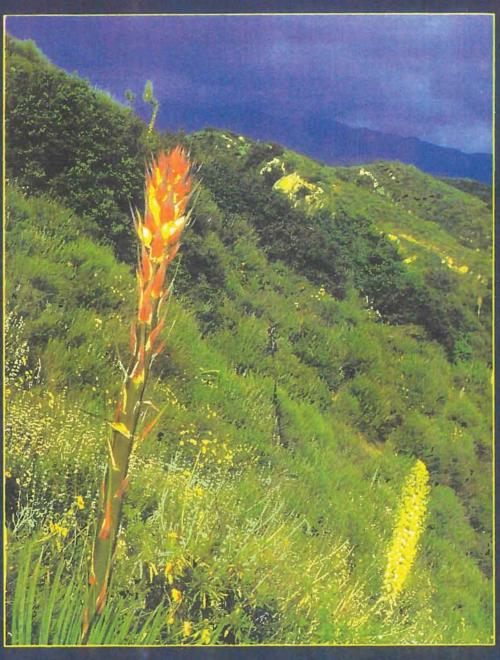
## APPENDIX 4.4-D: SDG&E NATURAL COMMUNITY CONSERVATION PLAN (NCCP) AND OPERATIONAL PROTOCOLS



## Subregional Natural Community Conservation Plan



REAL ESTATE OPERATIONS NATURAL RESOURCE GROUP



# Subregional Natural Community Conservation Plan

#### Prepared By:

San Diego Gas & Electric Real Estate Operations Department Last Edited: December 15, 1995

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Cover photo courtesy of Mike Couffer

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October 1995

FILE NO

TO: READERS OF THIS DOCUMENT

There are many things that make San Diego a unique and desirable place to live: the weather, the topography, its proximity to Mexico, the beaches, the ocean, and its diverse environmental resources. Each of these things contribute to a quality of life that draws people to this region. SDG&E shares the belief with many San Diegans that growth should not result in destruction of the very qualities that make this community a desirable place to live. SDG&E also believes that our quality of life can be preserved while still providing opportunities for economic growth.

In recent years, protection of this region's environmental quality has become a major planning issue stimulating ballot initiatives, open space/preservation plans, and protective species "listings" under the State and Federal Endangered Species Acts. It has become apparent that environmental protection is a major public concern and will be with us for some time. SDG&E has recognized the importance of Environmental Protection and Enhancement by weighing it equally in our Corporate Goals to Quality Customer Service. The Company is standing behind our Environmental Protection and Enhancement goal by changing our maintenance and construction methods, by participating directly on all of the NCCP plans in the region, by making financial contributions to said plans, and by preparing this Subregional Plan that not only provides up front mitigation for future activities, but also allows the use of SDG&E's network of rights-of-way and other lands for conservation and preservation.

The primary purpose and ultimate objective of this Subregional Plan is not just to reduce regulatory hurdles, but to make a positive contribution toward the preservation and enhancement of San Diego's natural resources. This plan should be reviewed and evaluated by you, the reader, with that stated purpose and objective in mind. We, at the Company, feel that this Subregional Plan can fulfill our environmental objectives and still be good for business.

Sincerely,

San Diego Gas & Electric

Don L. Rose

Project Manager

Real Estate Management and Planning Section

#### EXECUTIVE SUMMARY

#### Background

With the proposed listing of the California Gnatcatcher, as a threatened species, the Endangered Species Act (ESA) suddenly became a significant constraint to all forms of development in southern California including the development of energy infrastructure. The State responded by using the recently legislated Natural Community Conservation Planning (NCCP) program as a tool to work with local communities to develop habitat conservation strategies to protect a wide variety of plants and animals which included the Gnatcatcher's coastal sage scrub habitat. One of the goals of the NCCP is to eliminate the need for future listings. The NCCP also allows for localized administration of the federal ESA and the California ESA (CESA) if certain steps are followed including the preparation of habitat conservation plans pursuant to the ESA and the NCCP.

San Diego Gas & Electric (SDG&E) saw the potential benefits offered by the NCCP to the region's resources and to the Company's ability to reduce regulatory processes typically involved with the maintenance and expansion of a gas and electric energy system. Therefore, the Company launched into preparation of its subregional habitat conservation plan also known as the 50-Year Permit. When approved, the Plan will provide for 25 years of ESA & CESA approvals with renewals to 50 years and possibly beyond.

#### Provision of the Plan

The Plan covers the following activities, as well as, estimates and defines the mitigation which may be required for the biological impacts of the installation, use, maintenance, and repair of the existing gas and electric system and typical expansions to that system. These activities are required to provide adequate, reliable, and safe service to existing customers and to meet the demands of new growth. The Plan does not cover extraordinary expansions to SDG&E's gas and electric system. The Plan also covers biological impacts (within the boundaries of the Plan area only), associated with new electric transmission lines including interconnections that do not project more that 30 miles outside of SDG&E's service territory, Rainbow to Santee natural gas transmission pipeline, new gas transmission lines under 30" in diameter and less than 20 miles in length, new substations and regulator stations with habitat impacts under 20 acres, and new natural gas compressor stations with habitat impacts under 10 acres. Projects not covered by the Plan will be evaluated on a case-by-case basis, but will be evaluated by the standards set forth in this plan.

Since the future cannot be accurately predicted, the Plan allows for up to 400 acres of impacts in natural areas before requiring a Plan amendment. However, based on current technology, construction methods and standards, population forecasts, and local agency General Plans, the Plan anticipates only 124 acres of grading impacts in natural areas as a result of typical expansion and maintenance activities over the next 25 years (areas which are "natural" are not paved and do

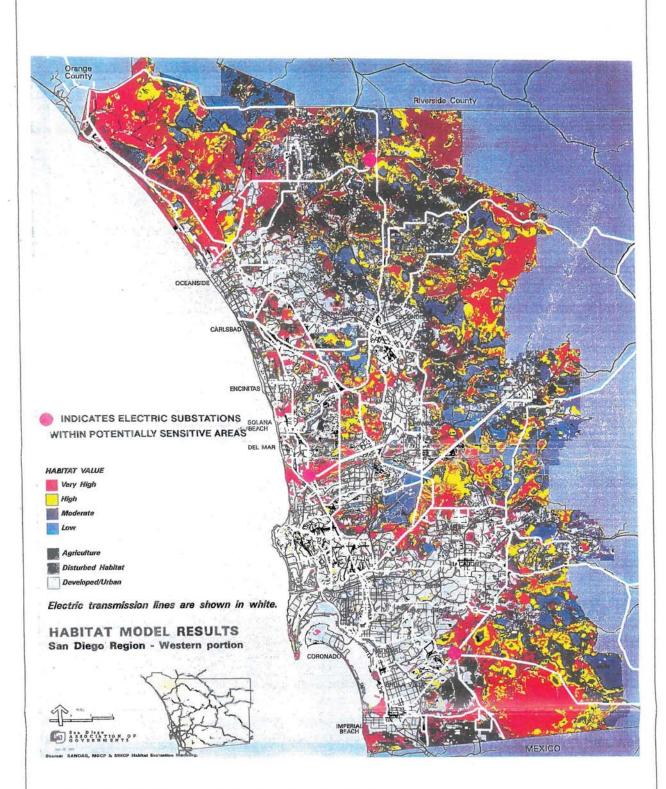
not contain ornamental landscaping or otherwise urbanized uses). Impacted areas may be home to one or more of the 110 species covered by this Plan. To mitigate these impacts, the Plan provides the following forms of mitigation:

- The most important mitigation measure is avoidance of impacts whenever possible. To accomplish this, new Operational Protocols for working in the field were developed. There are 61 protocols, all listed in Chapter 7 of the Plan. In addition, field crews attend a series of on-going classes on how to behave and operate construction and maintenance equipment in environmentally sensitive areas.
- Certain fee-owned rights-of-way will be available for use as wildlife corridors in order to
  connect the region's conservation areas. SDG&E will also allow the use of certain rights-ofway held in easements for such corridors with the consent of the underlying land owner.
- Mitigation Credits of approximately 240 acres will be established upon commencement of the Subregional Plan. The bank will be debited to mitigate for actual impacts as projects are realized. The wildlife agencies will determine the extent and quality of any impact. If needed, the Mitigation Credits will be replenished.
- Restoration and enhancement are also available as mitigation measures, sometimes instead of
  debits to the Mitigation Credits, and other times in addition to such debits. Restoration will
  be used in some cases regardless of other forms of mitigation.

The benefits to SDG&E are that the permit processing typically required by the ESA & CESA will not be required. However, the wildlife agencies will still monitor projects, evaluate impacts, and prescribe mitigation in a much more time-efficient process. The Plan sets up a framework for the wildlife agencies to fulfill their regulatory responsibilities in an efficient manner and provides SDG&E with certainty over required mitigation.

#### Not Provided For

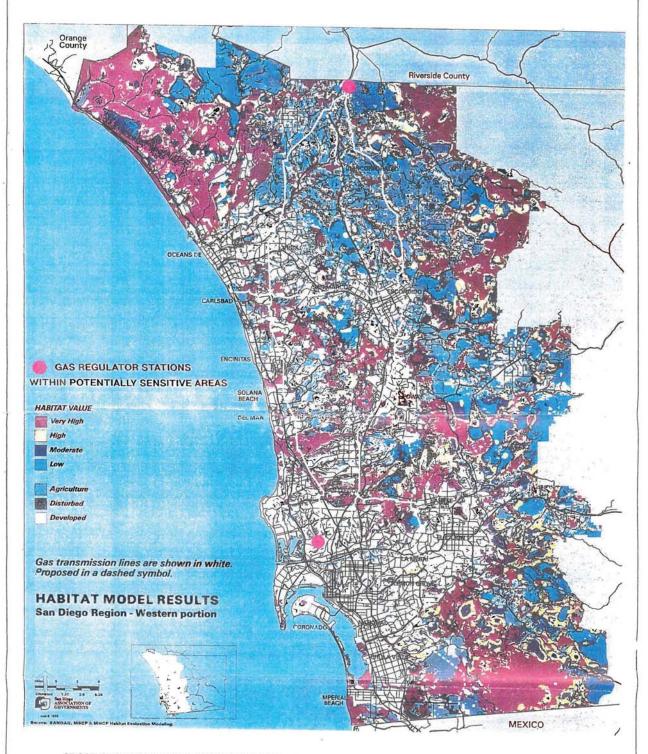
Projects which are currently subject to permits from the California Public Utility Commission (CPUC), Coastal Commission, Energy Commission, State Lands Commission and several other state and federal agencies will continue to be. Therefore, many projects will be subject to the California Environmental Quality Act & National Environmental Policy Act reviews. It is intended that the subsequent environmental reviews use this Plan to evaluate the impacts to covered species and their habitats.



SDG&E ELECTRIC FACILITIES IN ORANGE COUNTY ARE SHOWN ON FIGURE 9

SDG&E Electric Transmission System

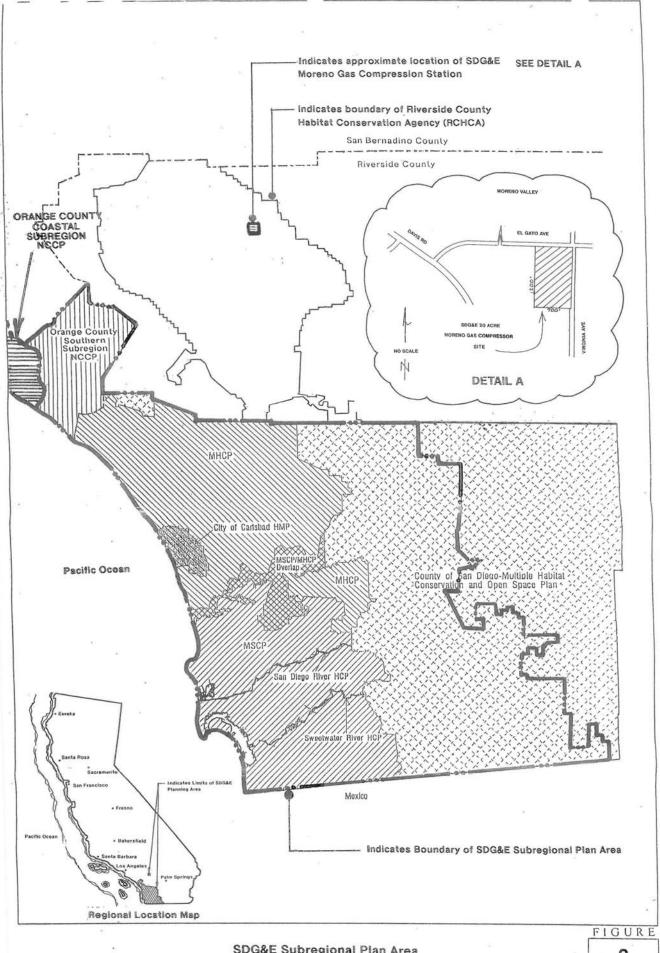
FIGURE



SDG&E GAS FACILITIES IN RIVERSIDE COUNTY ARE SHOWN ON FIGURE 10

SDG&E Natural Gas Transmission System

FIGURE



SDG&E Subregional Plan Area
Military Lands Contained Within This NCCP Are Treated Separately From NCCP Management Plans

3

## 1 Introduction

San Diego Gas & Electric Company (SDG&E) is a California public utility providing natural gas, electric, and other services to customers within its service territory, which includes San Diego County and portions of Orange and Riverside Counties. SDG&E's ability to provide these services depends upon the installation, operation, maintenance and repair of an evolving array of public utility facilities located throughout its service territory and, to a limited extent, beyond. For example, SDG&E's electric and natural gas service is provided by means of two essentially separate systems. The electric system includes steam electric generating plants, electric transmission lines, electric substations, and an electric distribution network (See Figure 1). The natural gas system includes compressor stations, transmission pipelines, regulator stations and distribution pipelines (See Figure 2). Regular maintenance and repair of these systems is performed to prolong their useful life and to ensure adequate, safe, and reliable service. The location and type of new Facilities is dependent upon the service demands of SDG&E's customers load centers while existing Facilities are not. However, both are subject to the regulatory authority and requirements of the California Public Utilities Commission (CPUC), the California Energy Commission (CEC), and various other federal and state agencies.

Over the past several years, the natural lands and wildlife habitats in San Diego County, Orange County, and Riverside County (Moreno Compressor Station only), have been subjected to increasing pressures from various land development activities. The Natural Community Conservation Planning Act (NCCP), authorizing comprehensive management and conservation of habitat and multiple wildlife species, is California's response to the ever increasing numbers of species protected and being considered for protection under the state and federal endangered species acts. In recognizing the need to develop a comprehensive management plan for the sensitive biological resources of the region, agency wildlife biologists, consulting and research biologists, landowners,

businesses, and representatives of conservation groups have proposed a conservation strategy which includes the establishment of a habitat preserve system intended to ensure long-term habitat survival and individual species viability.

SDG&E's Activities may impact certain sensitive plant and animal species or their habitat which may include species listed as threatened or endangered by the United States Endangered Species Act (ESA) or the California Endangered Species Act (CESA). To ensure implementation of appropriate avoidance, minimization, or mitigation measures for these potential impacts, SDG&E has prepared this Subregional Plan following the multiple species and habitat conservation planning approach authorized by ESA and the California NCCP. The intent of this Subregional Plan is to identify SDG&E's existing and prospective Activities as a public utility which may have an impact upon Covered Species or their habitat and to define those measures SDG&E will employ to avoid, minimize or mitigate any such impacts. SDG&E's plan is a significant part of the overall regional conservation planning strategy for two reasons: 1) It will provide a net improvement in habitat values by providing foundational resources for the establishment of connecting corridors between habitat preserves; and 2) It can be used for other regional public service providers as a model.

Over the last several years, a number of local governments have been working to develop comprehensive habitat and multi-species conservation plans within the boundaries of their respective jurisdictions, generally referred to as "Habitat Conservation Plans." Ultimately, a network of such plans will be implemented throughout much of the area which is or which may be affected by SDG&E's operations and covered by SDG&E's Subregional Plan (See Figure 3). Both SDG&E's Subregional Plan and the Habitat Conservation Plans will maximize the protection and conservation of wildlife and habitat by utilizing the comprehensive multi-species and habitat conservation approach. However, unlike the Subregional Plan, Habitat Conservation Plans otherwise address the unique municipal concerns of local government: local government's interest in local land development and other land use activities with federal and state wildlife conservation mandates.

In contrast, SDG&E's public utility operations and service span the jurisdictional boundaries of a large number of local governments and provide benefits to the State as a whole. SDG&E's operations as a public utility are, therefore, matters of statewide concern. To ensure uniform, adequate, safe, and reliable operations for the benefit of the State's citizens, SDG&E's operations are regulated at the state level primarily by the CPUC but also by various other state agencies, rather than at the local level. Accordingly, this Subregional Plan balances SDG&E's Activities necessary to meet the continuing and growing demands of its customers for electric and gas service with federal and state wildlife conservation mandates.

The applicability of Habitat Conservation Plans will be triggered by local permit applications filed by persons seeking to pursue projects falling within the regulatory authority of such local governments. However, because SDG&E's projects do not fall within the regulatory authority of local governments, none of the underlying Habitat Conservation Plans will be suitable to address the particular and unique issues raised by

public utilities. SDG&E has resolved this problem by developing this Subregional Plan in coordination with the United States Fish and Wildlife Service (USFWS) and California Department of Fish & Game (CDFG) addressing SDG&E's activities and their potential impact upon Covered Species or their habitat throughout the area of its operations.

This Subregional Plan will cover all of SDG&E's Activities conducted within the area described in Figure 3 (Subregional Plan Area), and will function independently of the Habitat Conservation Plans of local governments, which may also cover any part of the Subregional Plan Area. This Subregional Plan takes into consideration the objectives of such local Habitat Conservation Plans and coordinates the implementation of this Subregional Plan with the proper functioning of such local Habitat Conservation Plans, as they become effective, to maximize the benefits to Covered Species and their habitat. This Subregional Plan will describe SDG&E's Activities that have the potential to impact Covered Species or their habitat and which will be subject to the provisions of this Subregional Plan. The nature and extent of such potential impacts will be identified together with those protective and conservation measures SDG&E will undertake to avoid such impacts and, where impacts are unavoidable, to minimize and mitigate the same. Protective and conservation measures will include (a) the implementation of Operational Protocols established in coordination with USFWS and CDFG, (b) assisting USFWS and CDFG to establish wildlife corridors which interconnect one habitat preserve or wildlife conservation area to another utilizing certain rights-of-way, and (c) by causing the conveyance of valuable habitat land to a wildlife management agency for conservation purposes.

SDG&E, USFWS, and CDFG have, concurrent with the effective date of this Subregional Plan, entered into a long term Implementing Agreement which describes the legal rights and obligations of such parties regarding the implementation and maintenance of this Subregional Plan. The Implementing Agreement authorizes SDG&E to conduct its Activities within the Subregional Plan Area provided the same are performed in conformity with this Subregional Plan. Such authorizations are memorialized in permits issued by USFWS and CDFG, pursuant to ESA, CESA and NCCP. Such permits authorize SDG&E Activities and any resulting Incidental Take of Covered Species or impact to their habitat. The Subregional Plan and the Implementing Agreement can be amended to permit the addition of areas within which SDG&E conducts its operations and which are not yet covered by the Subregional Plan, such as the desert regions. Finally, the Implementing Agreement will provide assurances by USFWS and CDFG that, absent Unforeseen Circumstances, the terms and conditions of SDG&E's Activities authorization and Permits including, but not limited to, the required mitigation measures, will not change during the term of the Implementing Agreement. The long term duration and constancy of the Implementing Agreement and, therefore, of this Subregional Plan benefit SDG&E both by streamlining the permit process, enabling the early and efficient planning of avoidance and mitigation measures in project design, and by implementing a more cost-effective approach to wildlife conservation. Covered Species and their habitat will derive long term benefits from the implementation of the Subregional Plan.

## 1.1 Purpose

The purpose of this Subregional Plan is to establish and implement a long term agreement between SDG&E, USFWS and CDFG for the preservation and conservation of Covered Species and their habitat, while allowing SDG&E to develop, install, maintain, operate, and repair its Facilities which are or become necessary to provide electric, natural gas and other Services to the customers served by SDG&E within the Subregional Plan Area.

Because of the evolving and continuing nature of SDG&E's operations within the Subregional Plan Area, SDG&E, USFWS and CDFG have determined that a comprehensive multiple species and habitat conservation plan under ESA Section 10(a) and NCCP will most effectively preserve and enhance Covered Species and their native habitats. The long term multi species and habitat planning approach avoids the less effective, less efficient and more costly process of obtaining federal and state Incidental Take permits on a species-by-species, project-by-project basis.

This Subregional Plan is intended to meet the legal prerequisites of USFWS and CDFG for their issuance of ESA and CESA Incidental Take permits for all Covered Species and their habitat. Specifically, this Subregional Plan (a) authorizes the incidental take of listed and other covered species, such take being incidental to the otherwise lawful Activities of SDG&E, (b) minimizes and mitigates the impacts of such incidental take to the maximum extent possible, (c) assures adequate funding for the implementation of this Subregional Plan, (d) authorizes incidental take will not appreciably reduce the likelihood of the survival or recovery of any listed species or candidate species in the wild, (e) imposes measures to be implemented by SDG&E as requirements for or conditions of the authorization and permits granted herein which will be met by

SDG&E, (f) generally satisfies and fulfills all measures required by USFWS as being necessary or appropriate for the purposes of this Subregional Plan, including any measures determined to be necessary by the parties to deal with unforeseen circumstances, (g) will provide for the conservation and protection of Covered Species and their habitat within the Subregional Plan Area, as if each of the species, subspecies, or populations were listed under ESA, and (h) satisfies all legal requirements necessary for CDFG to issue a Management Authorization for Covered Species under Fish & Game Code Sections 2081 and 2835, and NCCP Section 2825.

## 1.2 Issues

#### Natural Resource Issues

Impact to Covered Species and their habitat is one of SDG&E's primary environmental concerns associated with its utility operations. The area of Southern California which includes the Subregional Plan Area contains the highest diversity of plant and animal life in the continental United States. As a result of the rapid pace of urbanization in the last half of the twentieth century, SDG&E's Subregional Plan Area also has the highest number of plants and animals in the continental United States which have become protected or are proposed for protection under ESA or CESA.

In the absence of multi-species and habitat conservation guidelines, continued urbanization and other land uses pose significant risks of extirpation or extinction of Covered Species. SDG&E's implementation of standard operating procedures to avoid or minimize impacts to natural resources is a major focus of this plan.

#### Land Use Issues

Several profound differences exist between the nature and extent of impacts to Covered Species or their habitat which may be caused by agricultural and typical urban development from those which may be caused by the operation of a gas and electric public utility like SDG&E. Agricultural and urban development usually occur on established parcels of land with generally permanent impacts to Covered Species and their habitat as the same are replaced with the project. Agricultural and urban

development occurs in checkerboard fashion over the available land. With some limited exceptions (e.g., the infrequent installation of electrical substations or natural gas regulator stations), most utility projects are linear in nature requiring limited grading; therefore, impacts upon Covered Species and their habitats caused by the operations of an electric and gas public utility like SDG&E are avoided entirely or are only minimal or temporary. The potential exists, however, for slight habitat fragmentation by virtue of the presence of the utility and its access roads which may facilitate unapproved intrusion into an ecosystem.

In addition to San Diego County, southern Orange and Riverside Counties continue to experience strong socio-economic growth pressures, causing equally strong pressures to be exerted on the regional ecosystem's long term viability. Consequently, the following land use and operational issues were examined within the Subregional Plan Area in the preparation of this document:

- Impacts of adjacent land uses, particularly real estate development, on the Covered Species and their habitat which exist in SDG&E's easements and fee-owned rights-of-way and other land holdings.
- Existing conditions in SDG&E's easements and fee-owned rightsof-way and other land-holdings of natural resources and degree of habitat protection and conservation.
- Land use compatibility.
- Coordination with Habitat Conservation Plans.
- SDG&E's Subregional Plan strategies which include avoidance, minimization, mitigation, and plan implementation strategies.
- Impacts to Covered Species from operation & maintenance activities.
- Impacts to Covered Species from new construction.

## 1.3 Approach

Neither CESA nor ESA had been enacted when much of the SDG&E public utility Facilities were planned and constructed. In 1993, SDG&E cooperated with USFWS and CDFG to develop and implement Operational Protocols designed to avoid impacts to specified species and their habitat. However, certain installation, maintenance, operation and repair Activities could not be modified to avoid an Incidental Take of Listed Species. For these Activities, Incidental Take permits were either sought by SDG&E from USFWS and CDFG through either ESA Section 7 and CESA Section 2090 consultation procedures where the appropriate federal or state nexus occurred, or through the ESA Section 10 or CESA Sections 2081/2084 process.

The protection, preservation and conservation of endangered, threatened, candidate species, and other sensitive species and their habitats under ESA, CESA, NCCP and other wildlife acts on a species-by-species basis has resulted in limited success. For SDG&E, such an approach is far too cumbersome and incomplete to adequately identify and conserve the biological and physical resources upon which each such species is dependent. In fact, the implementation of specific protective measures for one species, in the species-by-species/project-by-project approach, may actually cause deleterious conditions to another species. Habitat Conservation Plans, such as the SDG&E Subregional Plan which incorporates comprehensive protection or conservation measures needed for multiple species and their habitat, will most closely approximate an ecosystem conservation approach. It is intended that the biological and physical resources comprising sensitive habitats (ecosystems) be preserved intact to the greatest extent possible. All species within managed habitats will be afforded greater protections than before.

## 1.4 Scoping

#### Applicable Law

#### Federal

The federal Endangered Species Act (ESA), 15 U.S.C. Section 1531 et seq., provides for the protection and conservation of fish, wildlife and plants which have been listed as threatened or endangered. Activities otherwise prohibited by ESA Section 9 and subject to the civil and criminal enforcement provisions of ESA Section 11 may be authorized for appropriate federal agency action pursuant to ESA Section 7 and for other non-federal actions pursuant to ESA Section 10.

Other federal laws enacted with the intent to protect and conserve Listed Species of fish, wildlife, plants, and their habitats include, but are not limited to, the following:

- The Migratory Bird Treaty Act (including the protective provisions for game and wild birds), The Migratory Bird Conservation Act, and the Migratory Bird Hunting Stamp Act, 16 U.S.C. Section 701 et seq., are intended to protect birds and restore their necessary habitat. Otherwise unlawful activities which may impact such birds or their habitat may be authorized in accordance with applicable regulation, by permit or other entitlement, as appropriate.
- The National Environmental Policy Act, 42 U.S.C. Section 4321 et seq., mandates that federal agencies consider the environmental impacts of their actions, with the intent of avoiding or minimizing any

such impact prior to conducting federal projects (including the authorization of private projects).

 The Federal Water Pollution Control Act, 33 U.S.C. Section 1251 et seq., provides for certain protections to wildlife relating to the discharges of pollutants into the waters of the United States.

#### State

Similarly, the California Endangered Species Act (CESA), California Fish and Game Code, Section 2050 et seq., provides for the protection and conservation of fish, wildlife and plants which have been listed by the State of California as threatened, endangered, or as candidate species. Activities prohibited by Section 2080 and subject to the civil and criminal enforcement provisions of Section 12000 et seq., may be authorized for appropriate state actions pursuant to CESA Section 2090 et seq. and for other persons pursuant to CESA Sections 2081 and 2084.

Other state laws enacted with the intent of protecting and conserving fish, wildlife, plants, and their habitats include, but are not limited to, the following:

- Fish and Wildlife Protection and Conservation, California Fish and Game Code, Section 1600 et seq., requires that state agencies, public utilities, and other persons notify CDFG before conducting any project which may adversely affect aquatic habitats of fish or wildlife.
- Native Plant Protection Act (NPPA), California Fish and Game Code, Section 1900 et seq., is intended to preserve, protect and enhance endangered or rare native plants.
- Natural Community Conservation Planning Act (NCCP), California Fish and Game Code Section 2800 et seq. authorizes agreements between CDFG and any person for the comprehensive management and conservation of habitat and multiple wildlife species and permit, as appropriate, as a part of such plan, the Incidental Taking of Listed Species and candidate species under Sections 2830 and 2835.
- California Environmental Quality Act (CEQA), California Public Resources Code Section 21000 et seq., is intended to require state agencies to consider environmental qualitative factors, including the conservation of fish, wildlife and plant species and the preservation of representations of all plant and animal communities for future generations prior to conducting any project.

Pursuant to ESA Section 10(a), USFWS may issue permits, under such terms and conditions as the Secretary may prescribe, for acts otherwise in violation of ESA Section 9 to enhance the propagation or survival of any affected species or for the taking of any species incidental to an otherwise lawful activity. Further, for threatened species, the Secretary may issue such regulations as necessary to provide for the conservation of such species under ESA Section 4(d). Similarly, CESA Section 2081 enables CDFG to grant management authorization for the take of threatened, endangered or candidate species subject to such terms and conditions as it may prescribe. NCCP authorizes CDFG to enter into agreements with any person to develop and implement a natural community conservation plan to provide comprehensive management and conservation of multiple wildlife species and their habitat. Any such plan may authorize the taking of candidate, threatened or endangered species whose protection and conservation is provided for in any such plan pursuant to NCCP Sections 2830 and 2835.

#### 1.4.2 Coordination

As a result of urbanization, agriculture and other development, the amount of habitat remaining to support Covered Species is rapidly dwindling. The effective protection, preservation and conservation of Covered Species is dependent upon the implementation of effective and properly functioning conservation plans for the habitats and ecosystems essential to the survivability of such species.

Habitat Conservation Plans are now being prepared by various local governments or government entities within the Subregional Plan Area such as the City of San Diego's Multiple Species Conservation Program, San Diego Association of Governments' Multiple Habitat Conservation Program, the County of San Diego's Multiple Habitat Conservation and Open Space Plan, and the South Orange County NCCP Subregional Plan.

Local land development is regulated by local government through enactments of land use, zoning and permitting ordinances pursuant to their police powers derived from the California Constitution. Local Habitat Conservation Plans will be adopted, implemented and enforced pursuant to these same laws. Persons whose development activities fall within the jurisdiction of these local governments will then be authorized to take species/habitats caused by their activities. Local government authority to take species/habitat comes from the issuance of take authorization issued by USFWS and CDFG, pursuant to the State and Federal ESA and the NCCP. Developer compliance will be supervised by local government, USFWS, and CDFG.

SDG&E's land use Activities, the regulation of such Activities, and its Subregional Plan, are unique. The California Constitution, through Article XII, created and empowered the CPUC with the exclusive jurisdiction to regulate the affairs and operations of public utilities. Pursuant to Section 8 of Article XII, the enactments of local governments which attempt to regulate public utility operations, in matters over which the CPUC has the power to regulate, are invalid.

The CPUC's exclusive jurisdiction to regulate public utilities recognizes the statewide interest in preserving for the benefit of the State's citizens uniform, safe, and reliable utility service. Were the converse true, and if local governments were allowed to regulate the activities of public utilities, public utilities would be subject to a mosaic of divergent local requirements from as many local governments as there are in the Subregional Plan Area. SDG&E serves a statewide interest.

This Subregional Plan and the Habitat Conservation Plans govern different activities and different persons, often in the same area. The identified Activities in the Subregional Plan are regulated by various state agencies, primarily the CPUC, while the activities identified in the Habitat Conservation Plan are subject to local regulation. In effect the Subregional Plan, governing Activities serving a statewide interests, acts as an overlay across areas also covered by Habitat Conservation Plans, thereby governing activities of municipal concern. As a result of the cooperative efforts of various local governments and public bodies within San Diego, Orange, and Riverside Counties, a reserve of habitat is being established which includes reserve core areas, narrow endemic reserves, and connecting corridors. These reserve areas would be managed primarily for listed plants and animals, with a varying goal of maintaining at least 60 - 90% of the natural lands as high quality habitat, depending on the subregional plan and jurisdiction. The corridors are designed to maintain connections between the primary reserves and to support supplemental populations between reserves. This Subregional Plan is designed to be consistent with the local habitat conservation plans and the overall preserve planning effort.

## 1.4.3 Activities Covered by Plan and Those Requiring Further CEQA/NEPA Coverage

There are two broad categories of activities covered in the Plan: Operation and Maintenance (O&M) and new construction. O&M pertains to existing facilities and does not require permits; therefore, CEQA/NEPA review is also not required. The Plan recognizes that O&M activities can, at times, have impacts. To mitigate for O&M impacts the Plan contains an extensive list of field protocols designed to minimize disturbance to habitat. The company has also committed to allow use of selected transmission rights-of-way for wildlife corridors. This use of rights-of-way for corridors is specifically intended to mitigate O&M activities and nothing else.

New construction may be subject to CEQA pursuant to the Public Utilities Commission (PUC) rules, in particular the new General Order 131-d. This Plan is intended to cover typical expansions of the system needed to serve new load, insure reliability, modernize older less efficient facilities, underground existing overhead lines, and to comply with new safety, air, and water quality standards, as well as other retrofits imposed by new government regulations. Those aforementioned activities that would normally be addressed by CEQA will still be subject to CEQA.

This Plan is not intended to exempt such projects from CEQA or NEPA, should the State or Federal Act pertain.

The Plan covers the following activities, as well as, estimates and defines the mitigation which may be required for the biological impacts of the installation, use, maintenance, and repair of the existing gas and electric system and typical expansions to that system. These activities are required to provide adequate, reliable, and safe service to existing customers and to meet the demands of new growth. The Plan does not cover extraordinary expansions to SDG&E's gas and electric system. The Plan also covers biological impacts (within the boundaries of the Plan area only), associated with new electric transmission lines including interconnections that do not project more that 30 miles outside of SDG&E's service territory (200 kV and less), Rainbow to Santee natural gas transmission pipeline, new gas transmission lines under 30" in diameter and less than 20 miles in length, new substations and regulator stations with habitat impacts under 20 acres, and new natural gas compressor stations with habitat impacts under 10 acres. Projects not covered by the Plan will be evaluated on a case-by-case basis, but will be evaluated by the standards set forth in this plan.

Since the future cannot be accurately predicted, the Plan allows for up to 400 acres of impacts in natural areas before requiring a Plan amendment. However, based on current technology, construction methods and standards, population forecasts, and local agency General Plans, the Plan anticipates only 124 acres of grading impacts in natural areas as a result of typical expansion and maintenance activities over the next 25 years (areas which are "natural" are not paved and do not contain ornamental landscaping or otherwise urbanized uses). Impacted areas may be home to one or more of the 110 species covered by this Plan. To mitigate these impacts, the Plan provides the following forms of mitigation:

The most important mitigation measure is avoidance of impacts
whenever possible. To accomplish this, new Operational Protocols
for working in the field were developed. There are 61 protocols, all
listed in Chapter 7 of the Plan. In addition, field crews attend a
series of on-going classes on how to behave and operate
construction and maintenance equipment in environmentally
sensitive areas.

- Certain fee-owned rights-of-way will be available for use as wildlife corridors in order to connect the region's conservation areas.
   SDG&E will also allow the use of certain rights-of-way held in easements for such corridors with the consent of the underlying land owner.
- Mitigation Credits of approximately 240 acres will be established upon commencement of the Subregional Plan. The credits will be debited to mitigate for actual impacts as projects are realized. The wildlife agencies will determine the extent and quality of any impact. If needed, the Mitigation Credits will be replenished by additional land conveyance.
- Restoration and enhancement are also available as mitigation measures, sometimes instead of debits to the Mitigation Credits, and other times in addition to such debits. Restoration will be used in some cases regardless of other forms of mitigation.

#### 1.4.4 Term of Plan

The Plan covers a term of 25 years with options for renewal. Involved parties agreed that 25 years should be the maximum term because of possible major changes in technology, development patterns, and projections and legislation affecting land use and the environment. After 25 years, the Plan will be reevaluated, and, if appropriate, extended. The Mitigation Credits will be replenished as needed.

The program anticipates approximately 124 acres of Covered Species habitat will be temporarily or permanently impacted under this program. A maximum of 400 acres of Covered Species habitat could be temporarily or permanently impacted under the 10(a) permit for this program.

## 2 Proposed Actions

#### 2.1 Maintenance and Construction Activities

SDG&E constructs new utility infrastructure on an ongoing basis to maintain uniform, adequate, safe, and reliable electric and gas service. SDG&E also conducts maintenance and repair activities on existing Facilities. Typical construction, maintenance and repair activities for each type of Facility are described in this section. Operational Protocols to be used by SDG&E field personnel to avoid and minimize the potential impacts of installation, maintenance and repairs for each type of facility are contained in Section 7.1<sup>2</sup>

#### 2.1.1 Overhead Facilities

Overhead Facilities are utilized in the transmission and distribution of electricity. Generally, overhead conductors (wires) are supported by wood or steel poles, or by steel lattice towers.

#### 2.1.1.1 New Overhead Facility Alignment

New overhead facilities will, to the extent possible, be designed to minimize habitat fragmentation and disruption of wildlife movement and breeding areas. This will be accomplished by avoiding siting of Facilities in habitat and by utilizing dead-end/spur roads rather than linking facilities tangentially, to the extent possible<sup>3</sup>. When

"to the extent possible" means without violating CPUC standards or jeopardizing the structural and operational integrity of the

<sup>&</sup>lt;sup>2</sup> Extensions of SDG&E gas and electric transmission and distribution facilities provided to serve a particular customer constitute a project of that customer and are not subject to this Subregional Plan, the Implementing Agreement, or the Permits.

facilities must be sited in undisturbed or habitat areas, they will, to the extent possible, be sited in lower quality habitat (See Figure 4).

#### 2.1.1.2 Placement of Structures

Steel lattice towers are installed using concrete foundations. Wood poles are installed using direct burial or concrete foundations. Maintenance will be performed and repairs may be required to restore structural integrity or inadequacies in a foundation or transmission structure caused by erosion or other occurrences.

#### 2.1.1.3 Placement of Electrical Equipment on Structures

Towers and poles support a variety of electrical equipment including insulators and conductors. Insulators are attached directly to poles, or to arms mounted on the structures. The insulators are installed by workers who climb the structure or access the structure in bucket trucks. Once the insulators are installed, a helicopter is often used to install a small rope. The small rope is used to pull in a bigger rope or cable which is then used to pull in the conductor.

#### 2.1.1.4 Insetting Poles

"Pole insetting" places poles in-line between existing structures. The new poles provide additional strength to support new or heavier conductors. The new poles are also used to achieve necessary wire clearances. Insetting is an effective method of fully utilizing existing electric line structures and alignments which often defers the need for new structures, lines and alignments.

#### 2.1.1.5 Equipment Repair and Replacement

Poles or towers may support a variety of equipment such as conductors, insulators, switches, transformers, lightning arresters, line junctions, and other electrical equipment. This type of equipment may need to be added, repaired, or replaced in order to maintain uniform, adequate, safe, and reliable service. Due to damage, changes in conductor size, or the like, an existing transmission structure will be removed and replaced with a larger/stronger structure at the same or nearby location.

#### 2.1.1.6 Pole Anchors and Stubs

Anchors, guy wires, and stubs are used to support poles. Generally one end of a guy wire attaches to the upper portion of a wood pole. The other end attaches to the top of a stub or to an anchor buried in the ground. These anchors can be in or out of alignment with the pole line. In order to maintain pole stability, new anchors or stubs, replacement anchors or stubs may be needed. Stubs can either be made of wood or steel and sometimes require concrete foundations.

#### 2.1.1.7 Insulator Washing

In some areas prone to atmospheric moisture, condensation combines with dust on porcelain insulators can create an electrical discharge. This discharge, known as "arcing", poses a significant risk of service outages. This risk can be substantially reduced by periodic washing of the insulators. The process of washing insulators involves driving a water truck to within 60 feet of the facility. A high pressure hose is used to spray water at the insulator.

#### 2.1.1.8 Tree Trimming

Tree trimming plays a critical role in maintaining reliable electrical power. Tree limb contact with electrical lines is a potential cause of power outages and is also a source of possible ignition and as such a potential fire hazard. Constant vigilance in tree trimming practices, regardless of habitat type, is necessary to maintain proper line clearances.

#### 2.1.1.9 Use of Helicopters

Helicopters are used in the visual inspection of overhead facilities. Each electric transmission line is inspected several times a year via helicopter. Helicopters are also occasionally used to deliver equipment, position poles and towers, string lines and position aerial markers as required by Federal Aviation Administration regulations.

#### 2.1.2 Underground Facilities

Underground Facilities are primarily utilized in the transmission and distribution of natural gas. Conduit containing electrical conductor may also be placed underground. New electric distribution lines are almost always placed underground in public streets.

#### 2.1.2.1 New Underground Facility Alignment

New underground facilities will be designed to minimize habitat fragmentation and disruption of wildlife movement and breeding areas by avoiding siting facilities in habitat and by utilizing dead-end/spur roads to the extent possible. When facilities must be sited in undisturbed areas, they will, to the extent possible, be sited in lower quality habitat.

#### 2.1.2.2 Underground Facility Access

Underground Facilities are regularly inspected visually and mechanically for any conditions which can potentially impair their function. Inspections involve driving along the top of/or parallel to the underground Facility. Access roads from public streets are utilized to reach the underground alignment. Access road maintenance is therefore a key component in installing, maintaining and inspecting underground Facilities.

#### 2.1.2.3 Protection of Underground Facilities in Waterways

Underground infrastructure may cross a variety of shallow waterways ranging from blue-line streams designated on United States Geological Service maps to agricultural irrigation ditches. When the integrity of the Facility is threatened due to scouring, measures to protect the Facility and to minimize future erosion must be taken. Typical maintenance activities utilized to protect the underground Facilities include grading, addition of fill material to repair erosion damage, repair of adjacent slopes with placement of rip-rap or concrete, compaction of soil, vegetation control of species with invasive root structures, and other activities as necessary. These measures may be accomplished by hand or by equipment or machinery. Vegetation is allowed to grow over the underground Facility where it will reduce erosion by wind and water, and stabilize the soil.

#### 2.1.2.4 Trenching

Trenching is required in order to install, replace, reposition, or repair underground Facilities. The width of the trench is dependent on the depth of the underground Facility and the stability of the side slopes. Underground Facilities are typically buried 3' to 5' deep. Facilities which are buried over 5' deep require side slopes of 1:1 or the use of shoring.

#### 2.1.2.5 Line Markers

Underground infrastructure installed on private property or out of the public right-of-way is marked above the ground through a variety of methods, including "Transmission Line Markers" (paddle-shaped markers attached at eye level to steel posts). In addition to marking the location of the underground facilities, the markers contain safety warning messages for digging contractors and the general public. Underground alignment occasionally runs perpendicular to a waterway or other terrain which prevents walking or driving along the alignment for inspection purposes. In these instances, a line-of-site free from vegetation from marker to marker must be maintained for visual inspections at a distance.

### 2.1.2.6 Use of Helicopters and/or Fixed Wing Aircraft for Visual Inspection

Gas transmission lines are inspected by ground patrol or from the air.

#### 2.1.3 Other Ground Disturbance

Many types of ground disturbance are necessary in order to install, protect, maintain and repair Facilities. These types of disturbances generally occur in, but are not limited to, the utility rights-of-way and existing access roads.

#### 2.1.3.1 Access Roads

Access roads comprise part of SDG&E's Facilities. Costeffective and efficient installation, maintenance, and repair
of its Facilities depend upon the availability of adequate
access roads. Most gas and electric transmission facilities,
and some distribution facilities, require access roads. New
access roads will, to the extent possible, be designed to
minimize habitat fragmentation and disruption of wildlife
movement and breeding areas through the utilization of
dead-end/spur roads rather than linking facilities
tangentially. When new access roads must be sited in
undisturbed areas, they will, to the extent possible, be sited
in lower quality habitat (See Figure 5).

#### 2.1.3.2 Access Roads Crossing Waterways

Access roads may cross a variety of shallow water ways ranging from blue-line streams designated on United States Geological Service maps to agricultural irrigation ditches. Culverts may be added when utilization of an unculverted access road would alter the natural flow of a waterway. When the integrity of the access road is threatened, the culverts will be kept clear of vegetation, sediment, and debris to protect the access road. Sediment deposited in the area will be removed by hand or through the use of earth moving equipment. Other construction and activities include bank stabilization and repair of subsidence damage. These activities may be accomplished through the placement of rip-rap and through the use of earth moving equipment within the access road area.

NOTE: A Streambed Alteration Agreement is still required from CDF&G, however, no additional biological mitigation other than what is defined by this Plan shall be required for Covered Species. Refer to Implementing Agreement and clearance by ACOE/404 permit.

#### 2.1.3.3 Slopes

Cut and fill slopes are constructed to create pads/foundations for utility structures or access roads. Slopes may require erosion repair.

#### 2.1.3.4 Staging & Other Work Areas

Staging areas are for the temporary storage of large construction equipment and materials used in construction, maintenance, and repair activities. They can also serve as equipment turn-around areas, wire pulling sites, equipment parking areas, component assembly areas, equipment laydown areas, equipment and material storage sites, and temporary soil stockpile sites.

#### 2.1.3.5 Geotechnical Remediation

Geotechnical remediation is necessary when geotechnical failure which may threaten the integrity of a Facility such as an electrical structure or a pipeline is imminent or has occurred.

#### 2.1.3.6 Geotechnical Testing

Geotechnical tests are conducted to determine soil stability, depth of water table, engineering design values, and for the presence of hazardous waste. Testing may involve sample drilling, monitoring wells, excavation pits, or trenches.

Access roads are required for this equipment over existing or potential project sites.

#### 2.1.3.7 Pest Control

Pest control at electric and gas facilities is necessary to ensure system integrity. Facilities requiring pest control are electric substations, gas regulator stations, gas valve boxes, and utility equipment yards (pest control is not necessary within electric transmission rights-of-way). Non-native rats, mice, and other rodents have been known to cause electrical shorts within substation transformers, eat through gas metering equipment, and eliminate the effectiveness of gas valve boxes. Fortunately, SDG&E facilities are not normally attractive to these pests. Therefore, a limited program of pest control is able to keep the rodent population down. Pest control is more common to facilities located adjacent to urbanized areas where food is more plentiful. When necessary, pest control measures will be used in accordance with the written recommendation of a licensed, registered Pest Control Advisor. Pesticides will only be applied by a licensed applicator in accordance with label precautions and applicable law in a manner that does not harm native plants or animals.

#### 2.1.3.8 Fire Control Areas

A clearing of 10 feet in any direction, measured horizontally, from the outer circumference of any pole or tower is needed for construction and is required by law to be maintained for fire protection after construction. This clearing forms an imaginary cylindrical space surrounding each pole or tower. At ground level, all flammable materials that will propagate fire are removed. Within such 10' radius and to height of to 8' from the ground, dead or dying trees or foliage, or the dead, diseased, or dying limbs or foliage are removed. Where such trimming results in the removal of more than 50% of any such tree or foliage to meet fire safety requirements, such tree or foliage is entirely removed. These fire control measures can aid in the prevention of fire caused by arcing and can protect the Facilities from failure due to a fire in a surrounding area. Areas cleared of vegetation are also required around gas line valve complexes and cathodic test stations for fire protection.

#### 2.1.3.9 Vegetation Control

Vegetation must be controlled on access roads, road shoulders, drainage structures, around transformers,

buildings, fuel tanks, switch and transformer yards, substations, regulator stations, and other Facilities. Vegetation is controlled to facilitate the construction and use of roads, to allow inspection and maintenance of infrastructure and Facilities, to expose hazards such as ruts to drivers, eliminate noxious weeds, prevent fires, and to provide safe working areas.

#### 2.1.3.9.1 Mechanical Removal

The simplest method of removing vegetation is by hand, such as the removal of isolated large shrubs or trees growing in areas where the roots could damage Facilities or where vegetation size restricts visual inspection. Raking is a means of removal usually used only to gather debris in preparation for disposal. Mowing will be used to control vegetation where low vegetation is desirable for erosion control. Clearing an area of vegetation by grading will also be used where no other means are appropriate.

#### 2.1.3.9.2 Herbicide Spraying

Herbicide spraying, although not commonly employed by SDG&E, may be used around buildings and where bare ground is required for fire control. Herbicide spraying will not be conducted where it will damage known populations of Covered Species of plants. The typical regimen for herbicide use includes the application of pre-emergent herbicides during the fall and winter and spot application of contact herbicides during the growing season. All herbicides will be applied by a registered applicator in accordance with label precautions and applicable law.

#### 2.1.4 Substations and Regulator Stations

Electric Substations connect the electrical transmission system to the electric distribution system, and reduce the electrical voltage to the distribution system in order to maintain safe reliable electric service. Substations are designed and operated to meet the safety standards required in the CPUC General Order 131-D for electrical systems. Regulator stations connect the natural gas transmission system to the natural gas distribution system, and regulate the

supply of gas to that distribution system in order to maintain safe, reliable natural gas service. Regulator stations are designed and operated to meet the safety standards required in the CPUC General Order 112-D for natural gas systems. This Plan mitigates up to 20 acres of habitat impacts associated with new substations and regulator stations.

## 2.1.4.1 Substation and Regulator Siting

To the extent possible, new substations and regulator stations will be sited to avoid natural areas in order to minimize habitat fragmentation and disruption of wildlife movement and breeding areas. When natural areas must be disturbed, facilities will, to the extent possible, be sited in lowest quality habitat. When facilities must be sited in a preserve area they will, to the extent possible, be sited at the outer boundary of the preserve rather than in the center (See Figure 6).

## 2.1.4.2 Staging and Other Work Areas

The disturbed areas within the property line of a substation or regulator station may be used as a staging area for the temporary storage of large construction equipment used in construction and maintenance activities. This property may also serve as equipment turn-around areas, wire pulling sites, equipment parking, assembly, and storage sites. Staging areas are used for equipment lay-down areas and pads for equipment positioning during construction. This utilization is intended to be temporary.

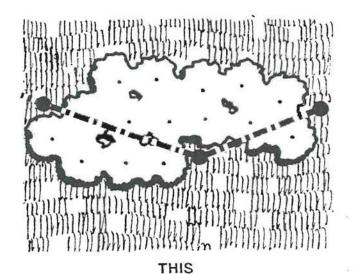
### 2.1.4.3 Fire Control Areas

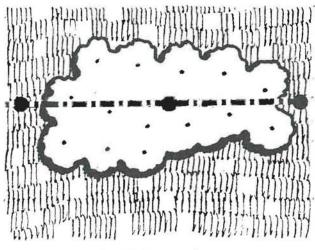
Brush management around substations and regulator stations consisting of a 30'-wide fire break free from natural vegetation is desirable. Fire-control clearances are maintained on a yearly basis.

### 2.1.4.4 Geotechnical Failure Protection and Remediation

Geotechnical remediation is necessary when geotechnical failure is eminent or has occurred, and threatens the integrity of a Facility such as a substation or a regulator station. Preventative maintenance includes slope reconstruction and the repair or addition of drainage structures and retaining walls. Access is needed to various sites proposed for electrical substations and gas regulator stations for the purpose of obtaining engineering design information on the soils.

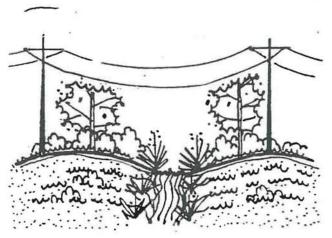
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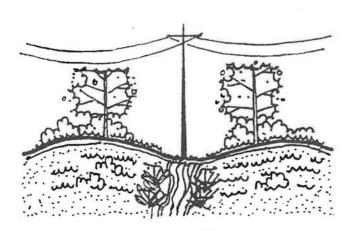


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PLACEMENT OF OVERHEAD POLES SHOULD AVOID HABITAT AREAS



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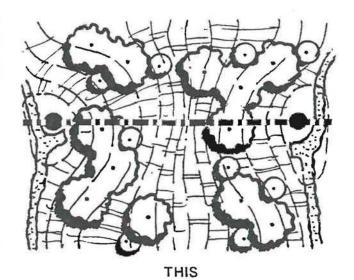
OVERHEAD POLES SHOULD NOT BE PLACED IN RIVERS, STREAMS, OR CREEKS

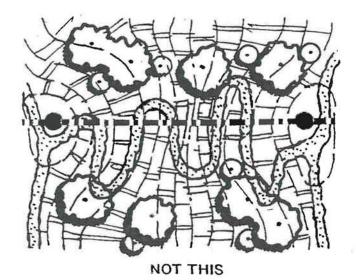
Operational Protocol Diagrams

FIGURE

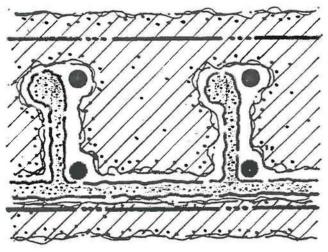


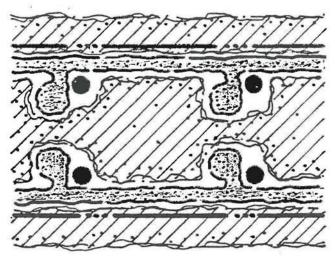
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NEW ACCESS ROADS SHOULD AVOID SENSITIVE AND CANYON AREAS





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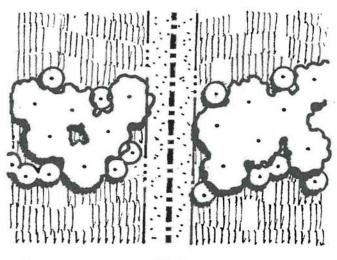
STUBS FROM EXISTING ACCESS ROADS SHOULD BE USED TO REACH NEW LINES

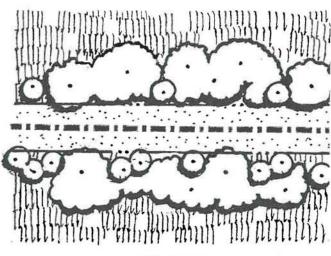
Operational Protocol Diagrams

FIGURE



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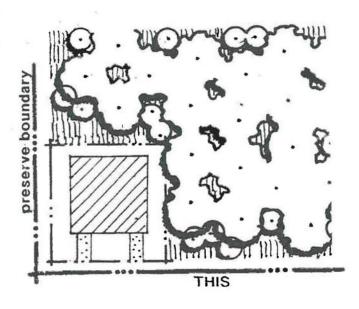


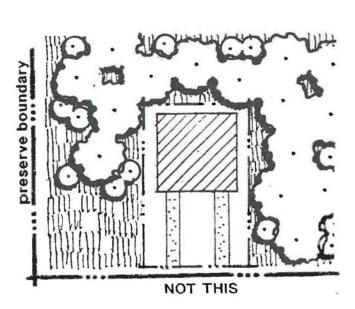


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**NOT THIS** 

UTILITY LINES SHOULD MAKE PERPENDICULAR CROSSINGS THROUGH HABITAT AREAS





SUBSTATIONS SHOULD BE SITED AT THE EDGES OF HABITAT PRESERVES

**Operational Protocol Diagrams** 

FIGURE

# 2.2 Emergencies

As a result of natural disaster, stochastic factors or vandalism, emergency repairs to Facilities may be warranted. Emergency repairs may also be required to prevent the occurrence of a Facility failure. Conditions in this category are those that potentially or immediately threaten the integrity of the SDG&E system including: broken/leaking pipes, downed lines/poles, slumps, slides, surface fault ruptures, erosion, major subsidence, or other natural disaster. Emergency repairs will be taken immediately as required. As a result, in considering potential impact to Covered Species or their habitat, adjustments for time of day or seasonal constraints may not be possible in the interest of system integrity and public health and safety.

Emergency work will be performed by SDG&E crews and/or contract crews under the direction of SDG&E and in accordance with the Operational Protocols and mitigation contained in Section 7.

# 3 Biology

This section describes the biological information used to assess potential impacts of this Subregional Plan. It identifies the habitats that are the subject of the Subregional Plan and provides a description of potential impacts to Covered Species or their habitat caused by Activities.

The biological data utilized in the development of the Subregional Plan are derived from a variety of sources, including a number of conservation programs being prepared by local governments in Southern California. The sources of SDG&E's biological data and information are set forth in Section 3.1.

Table 3.1 lists the species and habitats for which this Subregional Plan is intended to provide protective and conservation measures over the term of the Implementing Agreement.

# 3.1 Data Base References

The data bases for the regional conservation programs covering all of San Diego County and parts of Riverside and Orange Counties provide the biological basis for this Subregional Plan. Vegetation and habitat evaluation maps were used to provide the basis for decision-making on potential preserve boundaries. The three habitat conservation planning areas in San Diego are shown on Figure 7.

For the purposes of this Subregional Plan, the term Covered Species is as defined in the Implementing Agreement. Covered Species which are not listed are included because in most cases they will benefit from the habitat conservation actions to protect Listed Species. Furthermore, if any of the unlisted species are listed in the future, they will be protected as a function of the Implementing Agreement associated with the Subregional Plan.

Covered Species are listed in Table 3.1 Figures 3.1a - 3.1i follow Table 3.1 and indicate the approximate locations of selected sensitive species near SDG&E rights-of-way. These figures are to provide a rough indication of potential areas of impact for workers conducting preactivity surveys consistent with the Operational Protocols (see also § 7.1). These maps will be periodically revised as the quality of data improves.

# 3.1.1 Multiple Species Conservation Program (MSCP)

The biological data base and information which comprise the scientific basis for the City of San Diego's Multiple Species Conservation Program (MSCP) were developed over six years, beginning in 1989. It will be

updated periodically as the research and monitoring programs which accompany the implementation of the MSCP are carried out. The MSCP covers about 581,000 acres in southwestern San Diego County. The MSCP biological data base was developed by Ogden Environmental in cooperation with the USFWS, CDFG, local jurisdictions in the San Diego, and various consulting and academic biologists. It also relies in part on the California Natural Diversity Data Base and other records of survey. The Subregional Plan is based in part upon this data base. A map of the draft preserve plan area is attached as Figure 8a. The vegetation map is attached as Figure 8b.

## 3.1.2 Multiple Habitat Conservation Program (MHCP)

This data base was developed under a similar process to the MSCP data base. The study area covers approximately 658,000 acres in the northwestern portion of San Diego County. The vegetation map is attached as Figure 8c.

# 3.1.3 San Diego County Multi-Habitat Conservation and Open Space Plan (MHCOS)

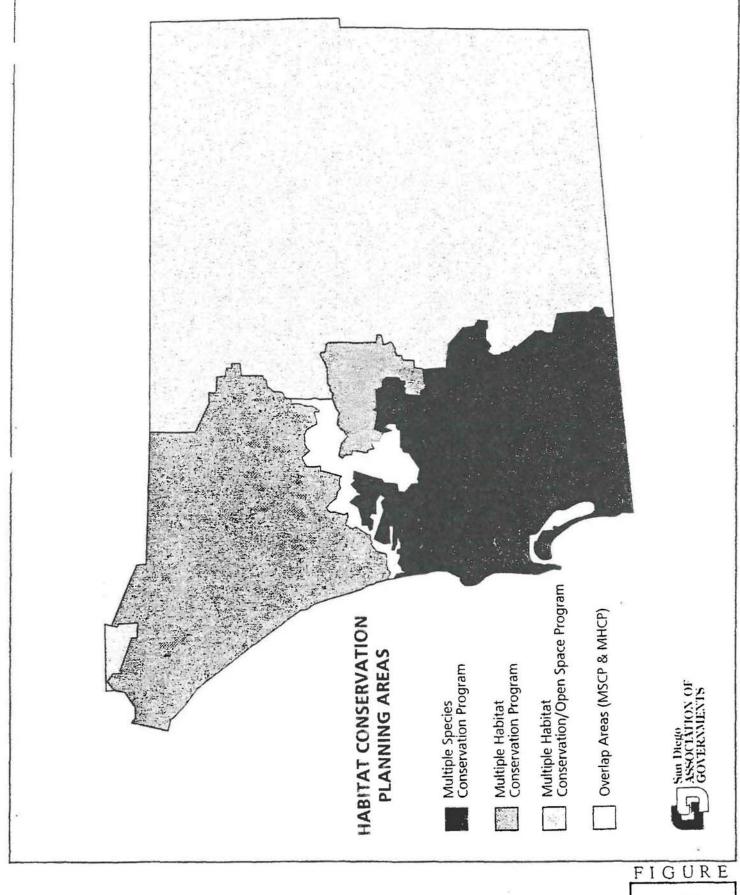
This data base remains under development, though basic biological information has been gathered on habitat types and other baseline information. This data base is being developed under a similar process to the MSCP data base. It covers the central mountainous section of San Diego County west of the desert. The vegetation map is attached as Figure 8d.

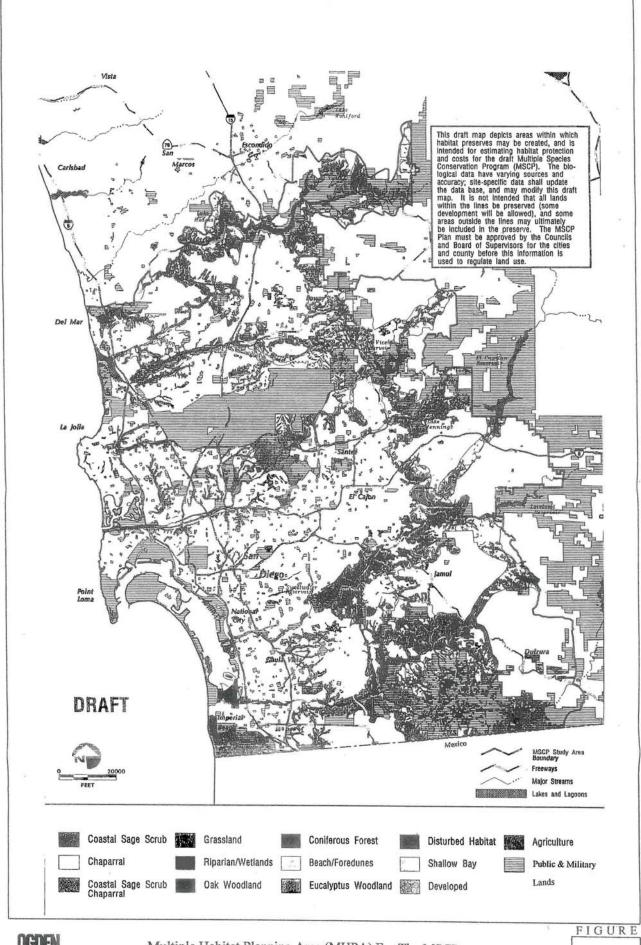
## 3.1.4 South Orange County NCCP Subregional Data Base

This data base was also developed under a similar process as the MSCP data base. It covers the southern section of Orange County, largely comprising the Rancho Santa Margarita Company property and adjacent conservation lands, and adjoining the Camp Pendleton Marine Corps Base west of Riverside County. A map of the draft plan area is attached as Figure 9.

# 3.1.5 Riverside County Habitat Conservation Plan (RCHCP)

This database was developed to address the recovery plan for the Stephen's Kangaroo Rat. A small portion of SDG&E's system is in this Plan area. The RCHCP intends to expand its scope into a multi-species program. A map of the draft plan area is attached as Figure 10.

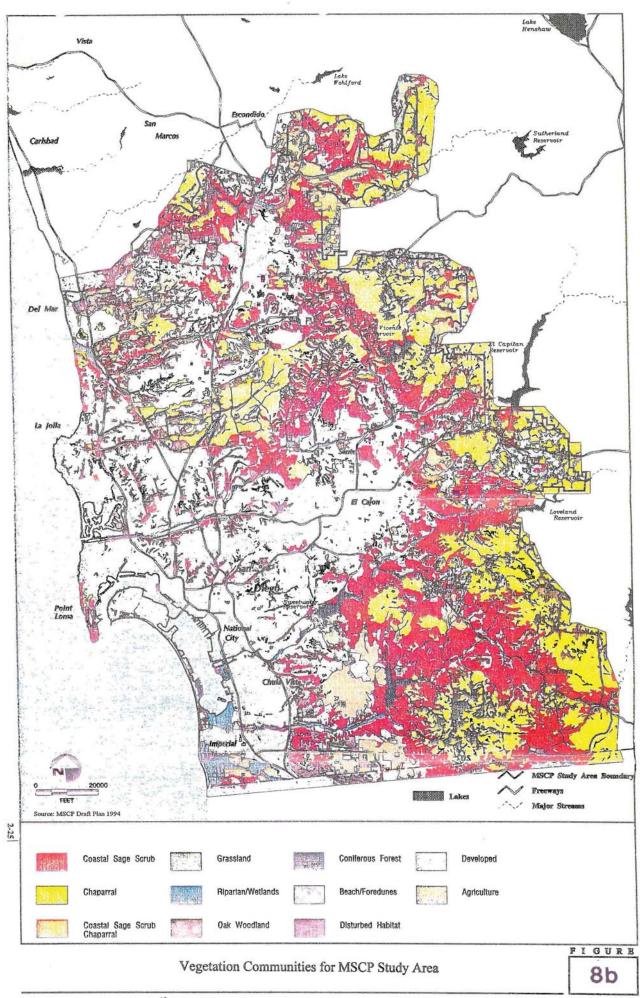


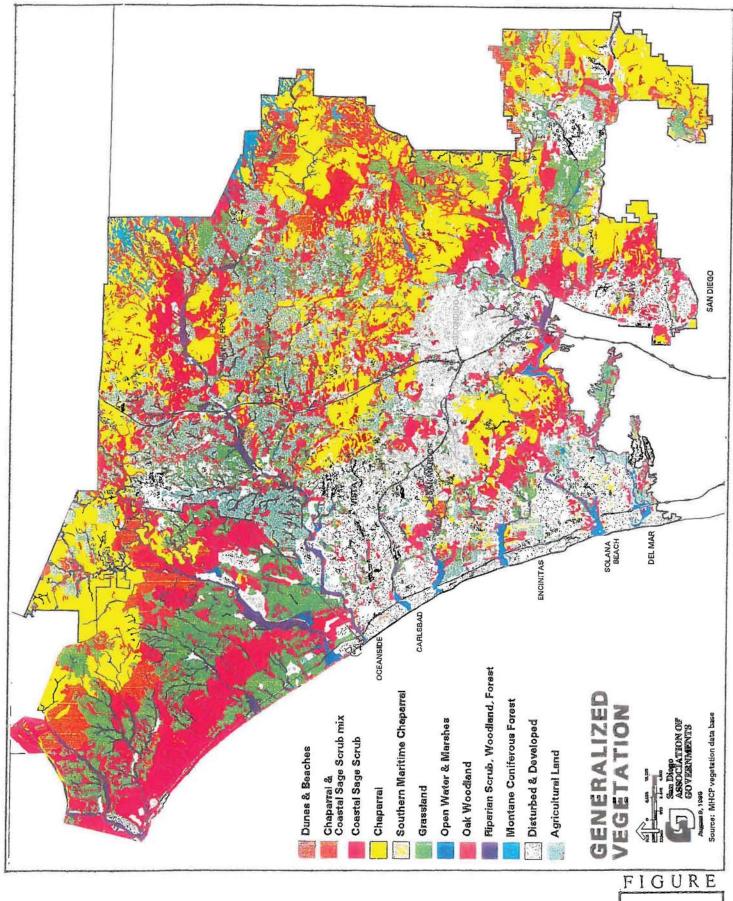


OGDEN

Multiple Habitat Planning Area (MHPA) For The MSCP

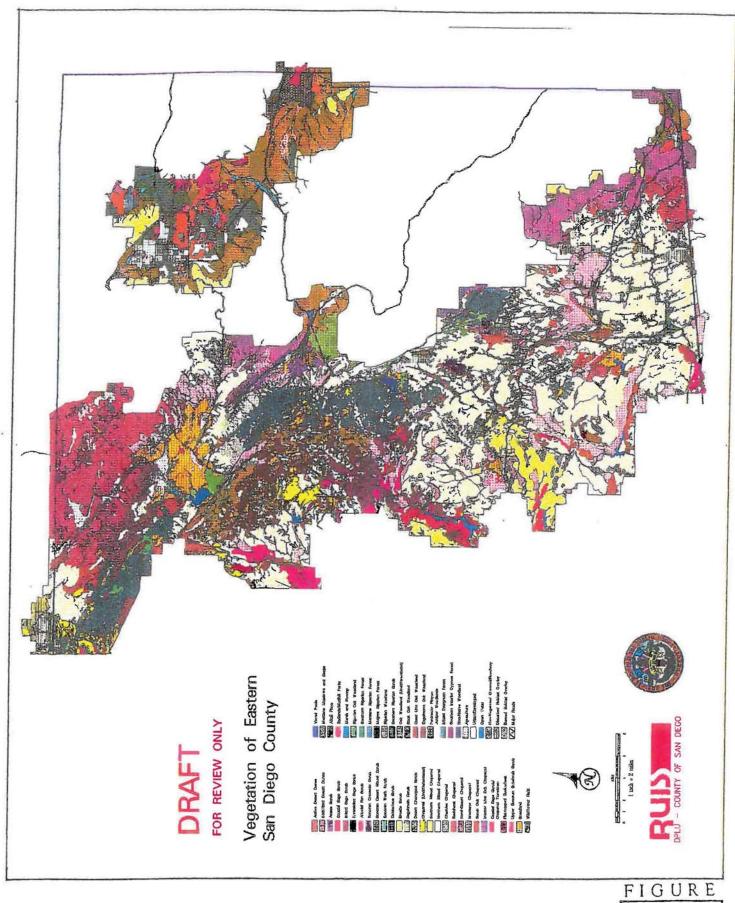
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Multiple Habitat Conservation Program MHCP

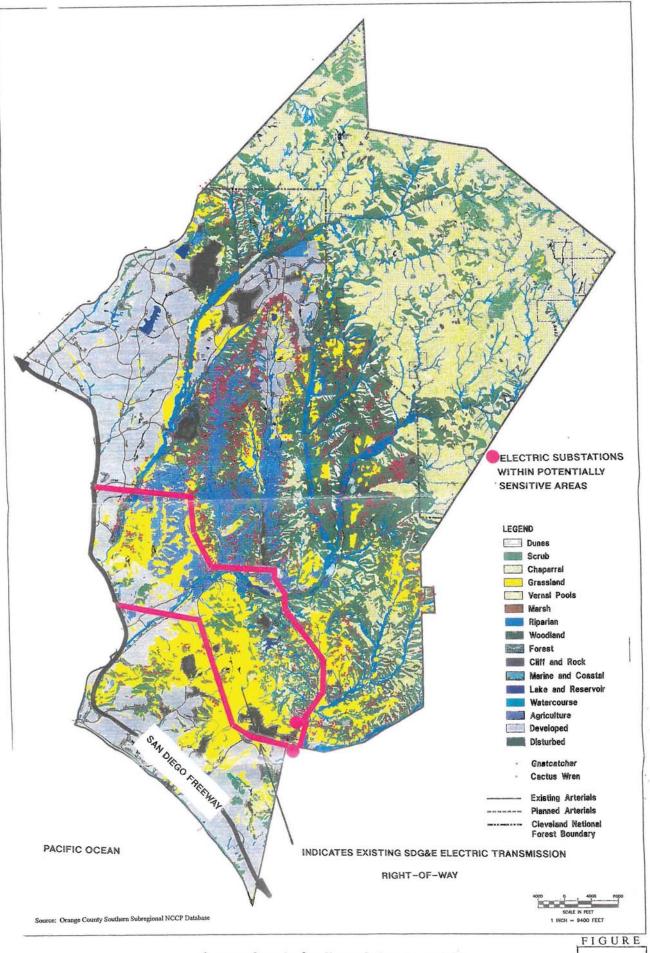
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Multiple Habitat Conservation and Open Space Program MHCOS

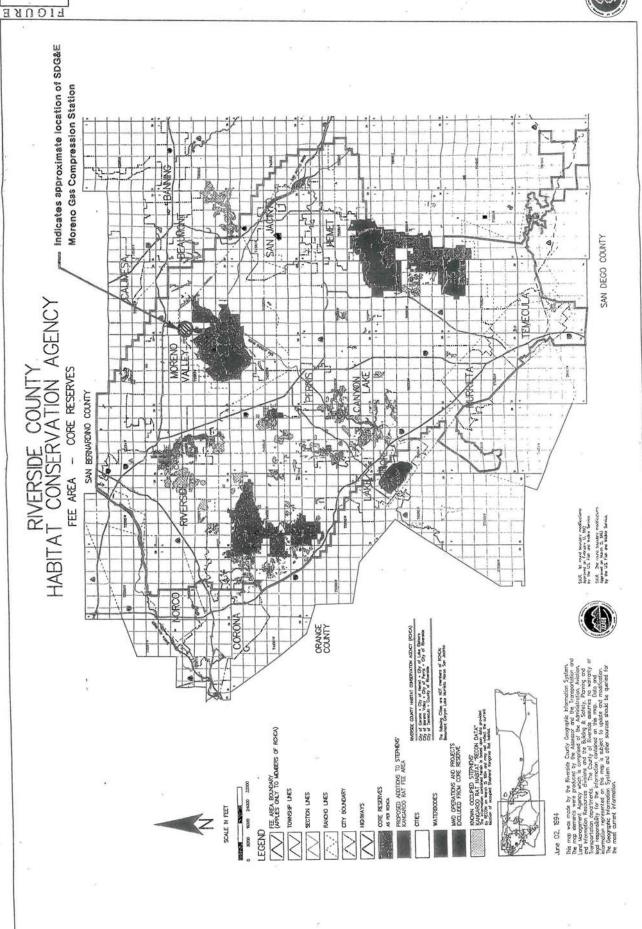
8d

SDGE



Orange County Southern Subregion NCCP







Subregional Natural Community Conservation Plan

OL

## TYPES OF HABITAT WITHIN SUBREGIONAL PLAN AREA

- Southern Foredunes
- Southern Coastal Bluff Scrub
- Maritime Succulent Scrub
- Coastal Sage Scrub
- Alluvial Fan Scrub
- Chaparral
- Southern Maritime Chaparral
- Coastal Sage/Chaparral Mix
- Grassland
- Meadow/Seep
- Southern Coastal Salt Marsh
- Alkali Marsh
- Freshwater Marsh
- Coast Live Oak Riparian Forest
- Riparian Forest
- Riparian Woodland
- Riparian Scrub
- Open Oak Woodland
- Open Engelmann Oak Woodland
- Dense Engelmann Oak Woodland
- Coast Live Oak Forest
- Black Oak Forest
- Torrey Pine Forest
- Mountain Conifer Forest
- Coulter Pine Forest
- Big Cone Spruce
- Jeffrey Pine
- Eucalyptus Forest

- Tecate Cypress Forest
- Inland Water
- Shallow Bays
- Disturbed Wetlands
- Non-Vegetated Floodchannel
- Beach-Saltpan
- Disturbed Habitat
- Agricultural

### MITIGATION

## I. Scrub & Chaparral Species

See Protocols (Section 7.1) and Habitat Enhancement Measures (Section 7.2)

## II. Grassland Species

Native grasslands: Over gas lines, same as vernal pool, except remove bunch grasses and replant, otherwise span with distribution and transmission lines.

Non-native grasslands: See Protocols (Section 7.1) and Habitat Enhancement Measures (Section 7.2).

## III. Beach, Marsh, and Wetland Species

Construction in marsh areas, soft sand, or open water in most cases will be accomplished through the use of helicopters for the delivery of materials, poles, personnel, and platforms. Roads should be avoided to the extent feasible.

# IV. Narrow Endemic Species

Take of certain narrow endemic Covered Species is to be avoided. Take authorizations for these species will be limited to emergencies and unavoidable impacts from repairs to existing facilities. The first priority is avoidance, if impact is unavoidable, then state-of-the-art conservation practices will be utilized to determine best mitigation method consistent with Operational Protocols. For repairs to existing facilities which could result in an impact, a biologist would be called in. Take of the "species to be avoided" may not occur for non-emergency repair work without first conferring with the USFWS and CDFG. For new projects, kill or injury of such animal species or destruction of such plants or their supporting habitat would not be covered by the Plan and Implementing Agreement.

# V. Riparian Species

See Protocols (Section 7.1, especially 7.1.7)

# VI. Forest Species

See Protocols, same as Riparian (Section 7.1, especially 7.1.7)

## VII. Open Water Species

When working in open water: Typically, a wooden platform is fabricated on dry land then delivered by helicopter. The platform, in two pieces, has a 1/2 circle for the pole cut into the edge of each. The platform has "feet" to keep it above the water. The platform would have other holes to prevent suction during removal. Personnel, materials, tools, and replacement poles would also be delivered to the platform by air.

Temporary disturbances in the work area would be limited to a 10' radius around the pole hole.

## VIII. Raptor Species

SDG&E will coordinate with wildlife agencies when new or expanded facilities are planned in significant bird movement corridors. The following methods will be considered for implementation on a case by case basis for use in the protection of raptors from electrocution associated with perching/nesting activities on distribution and transmission structures: Pole mounted bird perches, inverted "V" raptor guards, Bird-be-Gone<sup>TM</sup>, saw-toothed metal bird guards, insulated jumpers, or others. These methods will be employed on select structures in areas known to be inhabited by sensitive raptor species when the likelihood of electrocution is high or has been historically documented. Where nests interfere with safe operation of transmission system, avoid removal in months January - June.

### Wood Poles

### Pole Mounted Bird Perch

 Construction from 2" x 6" treated lumber, attached to the top of wood pole carrying voltages from 12kV - 138kV (PacifiCorp EV 101)

## Inverted "V" Raptor Guard

 Constructed of poly pipe and attached to cross arm between insulators with galvanized steel clamps

### Wood or Steel Poles

### Bird-be-Gone

4' long rows of plastic spikes attached to cross arms

### Sticky Solution

Sticky solution on cross arms or wires, birds don't like the feel

## Steel Lattice Towers

### Metal Bird Guard

 Saw-toothed bird guard, of 22-gauge sheet metal, attached to the cross arms of terminal, tangent, and angle towers, carrying voltages of 69kV and above

### IX. Vernal Pools

SDG&E will avoid vernal pools and their watersheds in the construction of new facilities, including roads. When pools are located above gas lines and repair work is necessary, work areas should be minimized and soil should be stockpiled for replacement after repairs. For new gas lines, avoid through routing changes. For access roads, stay within existing footprint, no new roads through vernal pool areas.

Under certain circumstances, SDG&E is prepared to consider rerouting an existing access road which passes through a vernal pool area as potential mitigation for the impacts of utility Activities on vernal pools that cannot be otherwise avoided pursuant to the Operational Protocols in the Plan, such as in an emergency. This rerouting would only be done if it was possible without compromising operational integrity and safety. The mitigation value of the rerouted road would be at 1:1 level.

## X. Stephens' Kangaroo Rat

Take of the Stephens' Kangaroo Rat (SKR) is only permitted for SDG&E in the Multiple Habitat Conservation Program (MHCP) planning area in northern San Diego County for operation and maintenance activities until the MHCP is approved. After that time, and provided that SKR is conserved within MHCP, Take for new construction Activities will be permitted under the terms of this Plan. This condition only applies to the SKR populations in San Diego County; Riverside County has an approved Take process and mitigation protocol. Furthermore, SDG&E's facilities in Riverside County already exist, and no new impacts are expected.

Note: Operational Protocols (Section 7.1) and Habitat Enhancement Measures (Section 7.2) are generally applicable to all of the habitat.

PLANTS San Diego thornmint Clay soils in chaparral, coastal San Diego County and	Sestal	OF SPI	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES an Diego County and Baja California,	PROTECTION PROTECTION CESA, NPPA, and CEQA. Plan's	CONSERVATION PLANNING IMPLICATIONS Adequately conserved by the Plan because in Darts will he avoided unless deserted	MITIGATION
Cay solis in chaparra, coastal sege scrub, valley and foothill 2-3-2 grasslands, and vernal pools.		san Usego county and baja cairto Mexico. Known currently from approximately 30 populations that typically small and endangered by pressures.	are urban	DESA, NYTA, and CLCA. That is Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan beause inputs, with be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water, Act, and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	1, 1V, 1X
Mexico. Only three small disjunct Regionally sensitive species/List 2, RE-D 3-3-1	Coastal bluff scrub and coastal sage scrub.	San Diego County and Baja Califo Mexico. Only three, small, disjun populations occur naturally in the been introduced to other localities	nia, ct U.S. Has	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	<mark>Z</mark>
San Diego ambrosia Chaparral, coastal sage scrub, Riverside and San Diego counties and Baja (Ambrosia pumila) valley and foothill grasslands, California, Mexico. In San Diego County, and vernal pools. Often in currently known from 4 scattered disturbed areas.	Chaperral, coastal sage scrub, valley and foothill grasslands, and vernal pools. Often in disturbed areas.	Riverside and San Diego countie California, Mexico. In San Diego currently known from 4 scattere populations.	s and Baja o County, id	CEGA. Plan's Operational Protocols would not be in place to mainrize or mitigate impacts as a first princity during SDG&E sortivities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	I, II <mark>, IV,</mark> IX
Sandy areas in coestal bluff Central California coest to Baja California Britania Britania Brita	Sandy areas in coastal bluff scrub and coastal sage scrub.	Central California coast to Baja Mexico. May be extirpated in S County and severely declining its mainland U.S. range.	Celifornia, San Diego throughout	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because invacts to San Diego County populations will be avoided unless deemed necessary for emergencies or repairs	<u>N</u>
Volcanic soils in chaparral and cismontane woodland.	Volcanic soils in chaparral and cismontane woodland.	Scattered populations occur on Miguel, and Jamul, mountains: County.	in San Diego	CEGA. Plan's Operational Proteotos Workers of Proteotos would not be in place to mainimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates in that orders any potential impacts that at occur to the species* lichiats. The Plan also preserves habitets no maximum extent precibable and preserves confider connecting habitets thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitets that may include the species.	II.
Del Mar manzanita Southern maritime chaparral. Infrequent in coastal San Diego County from Del Mar to Carlsbad. crassifolia) PE/List 1B, R-E-D 3-3-2	Southern maritime chaparral.	Infrequent in coastal San Dieg from Del Mar to Carlebad.	go County	FESA (assuming federal action associated with take), CEQA. Ifan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizs; avoidance, minimization, and midgation fin that order) for any potential impicts. The Plan preserves populations and habitats to maximum extent practicable and preserves confidors connecting habitats thereby providing for genetic material exchange and opportunities for matural population expansion. It may also restore and reclaim habitats that may include the species.	_
Coastal dunes milk-verch Coastal bluff scrub and coastal Mistorically occurred in San Diego.  (Astrogalus rener var. titi) dunes. Ampletey, and Los Angeles counties. Presumed excipated in San Diego.  (1/PE/List 18, R-E-D 3-3-3 Angeles counties.		Historically occurred in San Di Monterey, and Los Angeles co Presumed extirpated in San Di Angeles counties.	ago, unties. ego and Los	CESA, NPPA, and CEGA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	M, W
Encinitas baccharis Sandstone soils in chaparral. San Diego County endemic. Restricted to (Baccharis vanassae) approximately 13 known localities. PE/CE/List 18, R-E-D 2-3-3.		San Diego County endemic. F approximately 13 known local	Restricted to	FESA (assurning federal action associated with take). CESA. NPPA, and CEGA. Plan's Operational Protocols would not be in place to avoid impacts as a first pilotity during SIG&& activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	<mark>).</mark>
Nevin's barberry Sandy or gravelly soils in Los Angeles County south to Riverside, San Chaparral, cismontane Bernardino, and San Diego countries.  CI/PE/List 18, R-E-D 3-3-3 woodland, coasts age scub, Populations are relatively stable although and riparian scrub. Income service we can relatively populations are relatively populations.	in e scrub,	Los Angeles County south to F Bernardino, and San Diego cou Populations are relatively stable few in number. No extant nati tions are known in San Diego (	inties.  e although  ve popula- County.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the falls because invasors will be avoided unless deemed necessary for emergencies or repairs. Permitting pursants to Section 404 of the federal Clean Water Act and/or Section 1600 ; it the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	1, <mark>1V,</mark> VI
Thread-leaved brodises Clay solis in coastal sage (Brodises Riffolia) school-table		Interior valley regions of Rivers Diego counties - Fifteen popula known from San Diego County, Reverside County, 2 from San County, and 1 sach from Los J. Orange counties.	tide and San tidons are for from Bernadino Angeles and	FESA (assuming faderal action associated with take), CESA, MPPA, and CECA. Plan's Operational Protocols would not be in place to avoid impacts as a scrivities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritists avoidance, minimization, and mitigation, in the plan proiritists avoidance, minimization, and mitigation in that code) for any potential impacts. The Plan preserves populations and habitats to maximum extent prescubate and preserves conflorts connecting habitats thereby providing for genetic material sixchange and opportunities for natural population expansion. It may also resone and retain'n habitats that may include the species. Vernia opol populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for menergencies or repairs. Permitting pursant its Section 404 of the federal Clean Mater Act and/or Section 1600 of the California Fish and Game. Code may be necessary for impacts to ACOE end/or ODFG jurisdictional areas.	l, 11, VI, IX

- 2	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	PLANTS Orcutt's brodises (Spodes orcutti) Regionally sensitive species/List 1B, R-E-D 1-3-2	Clay soils in close-coned conferous forests, chaparral, cismontane woodlands, meadows, valley and foothill grasslands, and vernal pools.	Riverside and San Bernardino counties to Baja California, Mexico. Found in numerous localities in San Diego County.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or minigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves conflors connecting that interest providing to genetic material sectioning and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Vernal pool populations will be adequately conserved by the Plan because impacts to vernal pools will be adequately conserved by the Plan because mignest to vernal pools will be adequately conserved by the Plan because regions. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1800 of the California Fish and Game Code may be necessary for impacts or ACCE add/or CDFG jurisdictional areas.	, v. r.
	Dense reed grass (Calemogrostis koelerioides) Regionally sensitive species	Chaparral.	Orange and San Diego counties. Known from approximately 25 localities in San Diego County and approximately 3 localities in Orange County.	Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent precticable and preserves confidors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	-
	Dunn's mariposa lily (Calochortus dunni) CR/List 1B, R-E-D 2-2-2	Gabbroic and metavolcanic soils in close-coned conferous forests and chaparral.	Southern Peninsular Range of San Diego County and adjacent Baja, California, Mexico. Known from approximately 8 localities in San Diego County.	CESA, NPPA, and CEQA. Plan's Operational Proteoties would not the in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would mentally be very small, and the Plan priorities avoidance, minimization, and mitigation (in that order) for any operatial inspects. The Plan preserves populations and habitats to maximum extent practicable and preserves conflors connecting habitats thereby providing for genetic material exchange and opportunities for maximal population expansion. It may also restore and reclaim habitats that may include the appeals.	> -
7	Payson's jewelflower (Caulanthus simulans) Regionally sensitive species/List 4, R-E-D 1-2-3	Sandy, granitic soils in chaparral and coastal sage scrub.	Riverside and San Diego counties. Known from approximately 19 localities in San Diego County and 4 localities in Riverside County.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would penetally be very small, and the Plan minimizes or mitigates (in that codes any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves confidors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	
	Slandarpod jewalflowar (Caulanthus stenocarpus) CR	Chaparral, especially on burns.	San Diego County to northern Baja Caifornia, Mexico, Widespread but sporedic distribution.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would specially be very small, and the Plan priorities avoidance, minimization, and mitigation (in that order) for any potential inpacts. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting and habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	-
	Lakeside ceanothus (Ceanothus cyaneus) Regionally sensitive species/List 1B, R-E-D 3-2-2	Acid igneous rockland in close- coned conifercus forests and chaparral.	Western San Diego County to Baja California, Macioco, Restriade to Crest and El Cajon Mountain region in San Diego County. Specimen collected from Baja California, Mexico may be a hybrid.	CEGA. Plan's Operational Protocols would mot be in place to mainimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would specially be very small, and the Plan minimizes or midgates (in that orders any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.	۲.
	Wart-stemmed ceanothus (Ceanothus varucosus) Regionally sensitive species/List 2, R-E-D 1-2-1	Chaparral.	San Diego County and Baja California, Mexico. Currenty known from approximately 17 localities in San Diego County.	CEGA. Plan's Operational Protections and Protection would not be in place to munimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would spensify be very small, and the Plan minimizes or midgates (in that order law) potential impacts that occur to the specier habitat. The Plan also preserves habitat to maximum axtent practicable and preserves confidors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	_
	Orourt's spineflower (Chorizanthe oroutisme) PE/CE/List 18, R-E-D 3-3-3	Chaparai, close-coned conferous forests, and coastal sage scrub.	Endemic to San Diego County. Only one site known to be extant: Oak Crest Park in Encinitas.	FESA (assuming federal action associated with the NPA, and CECA. NPPA, and CECA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergancies or repairs.	r, <mark>já</mark>

	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	Orange County Turkish rugging (Chorizanthe staticoides ssp. chrysecenths) Regionally sensitive species	Ocean bluffs, coastal sage scrub.	San Diego and Oranga counties. Two known localities in San Diego County and 11 known in Orange County.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that court of the species' habitats. The Plan also preserves habitats for maximum extent predicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for maximal population expansion. It may also restore and reclaim habitats that may include the species.	-
	Sat marsh bird's-beak (Cordylanthus maritimus spp. maritimus) FEICE/List 18, R-E-D 2-2-2	Coastal dunes and coastal sait marshes.	San Luis Obispo County south to Baja California, Mexico. Restricted to 2 extant populations in San Diego County and possibly 2 in Orange County.	FESA (assurning federal action associated with take), CESA, NPPA, and CEGA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Adequately conserved by the Plan because inpacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1800 of the California Fish and Game Code may be necessary for impacts to ACDE and/or CDFG jurisdictional areas.	III' <mark>XX</mark>
	Orcutt's bird's-beak (Cordylanthus orcuttianus) Regionally sensitive species/List 2, R-E-D 3-3-1	Coastal sage scrub.	Endernic to San Diego County and Baja Californie, Mexico. Restricted to a few localities in southwestern San Diego County, Clay River populations are only vigorous, extant U.S. populations.	CEGA. Plan's Operational Protecols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be-very small; and the Plan minimities or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves tabitat to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	-
L C C C	Tecate cypress (Cypressus forbesi) Regionally sensitive species/List 1B, R-E-D 3-2-2	Close-coned coniferous forests and chaperral.	Orange County, San Diego County, and Baja Calfornia, Mexico. Known from 6 localities in San Diego County and 6 localities in Orange County.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a minimize or mitigate impacts as a entire phoning SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent presideable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for matural population expansion. It may also restore and reclaim habitats that may include the species.	5
024	Short-leaved dudleya  Torrey sandstone in cha (Dudleya blochmaniae ssp. brevifolia) and coastal sage scrub. PE/CE/List 18, R-E-D 3-3-3	Torrey sandstone in chaparral and coastal sage scrub.	Between La Jolla and Del Mar in San Diego County, Known from approximately 6 but not more than 8 localities.	FESA (assuming federal action associated with take), CESA, NPA, and CEGA. Plan's Operational Protocole would not be in place to avoid impacts as a first priority during SiOG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	<mark>.</mark> .
2366	Many-sterrmed dudleya (Dudleya multiceulis) Regionally sensitive species/List 1B, R-E-D 1-2-3	Often clay soils in chaparral, coastal sage scrub, and valley and footbill grasslands.	Los Angeles, Orange, Riverside, San Bernadino, and San Diego counties. Known only from Marine Corps Base Caunty Pendleton in San Diego County, numerous localities in Orange County.	CEGA. Plan's Operational Proteodes would not be in place to Proteodes would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan mininizes or migates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for matural population expansion. It may also instore and reclaim habitats that may include the species.	11.11
>3 = =	Variegated dudleya (Duckay variegata) Regionally sensitive species/List 1B, R-E-D 2-2-2	Chaparal, cismontane woodlands, coestal sage scrub, valley and foothill grasslands, and vernal pools.	Southern San Diego County and controvestern Baja California, Mexico. Known from approximately 60 localities in San Diego County.	CEGA. Plan's Operational Protocols would not be in place to minimize or migate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves confidors connecting habitats to maximum extent practicable and preserves confidors connecting natural population expansion. It may also restore and reclaim habitats that may include the species. Varial poly populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1800 of the Collinnia Fish and Game Code may be necessary for impacts to ACOE and/or CDP3 jurisdictional areas.	ו' וו' או' וצ
020	Sticky dudleya (Dudleya viscida) C1/List 18, R-E-D 3-2-3	Rocky areas in coastal bluff scrub, chaparral, and coastal sage scrub.	San Diego, Orange, and Riverside counties. Known from 10 populations in San Diego County, 4 localities in Orange County, and I location in southwestern Riverside County.	CEQJ. Pan's Operational Protocols would not be in place to minimize or mitigate impasts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or miglates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural providing for genetic material exchange and opportunities for natural expedies.	-

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NPPA, and CEGA. Plan's mitigation (in that order) for any potential impacts. The Plan preserves populations operational Protocols would not and habitats from maximal proplems activities.  In the protocols would not an abutata thereby providing for genetic material archange and opportunities for maximal population expansion. It may also restors and reclaim habitats that may include the species. Vernal pool populations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for word or the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.
CEGA. Plan's Operational  Adequately conserved by the Plan because impacts will be avoided unless deemed Protocols would not be in place to necessary for emergencies or repairs.  Interpreted to the plant of the pl
CEGA. Plan's Operational Effects of Plan on species are considered insignificant because impacts would more be in place to generally be very small, and the Plan minimizes or mitigates (in that order) any minimize or mitigate would not be in place to generally be very small, and the Plan minimizes or mitigates (in that order) any minimizes or mitigate impacts as a potential impacts that occur to the species' habitats. The Plan also preserves habitats that sometime action providing dor genetic material exchange and opportunities for natural species.
CCOA. Plan's Operational Effects of Plan on species are considered insignificant because impacts would motivate bin place to generally be very small, and the Plan milimitizes or midgate fundates a potential impacts as a potential impacts and insignificant because fundations. The Plan also preserves instructionary during SDG&E habitats to maximum extent precleable and preserves corridors connecting habitats activities.  Application of genetic material exchange and opportunities for natural especies.
CESA, NPPA, and CEOA. Plan's Effects of Plan on species are considered insignificant because impacts would Operational Protocoles would not generally be very small, and the Plan prioritizes avoidance, minimization, and being place to avoid impacts as a midgation (in that order) for any potential impacts. The Plan preserves populations in place or avoid impacts and abstrats to maximum extent practicable and preserves confiders connecting activities.  Initiatize provides.  An advantage and opportunities for maximum of genetic material suchange and opportunities for natural propulation expansion. It may also restore and reclaim habitats that may include the species.
CEGA. Plan's Operational Effects of Plan on species are considered insignificant because impacts would Protocols would not be in place to generally be very small, and the Plan minimizes or mitigates (in that order) any minimizes or mitigates impacts as a potential impacts that occur to the species' habitats. The Plan also preserves configore impacts to maximum extent preciteable and preserves confidors connecting habitats activities.  Thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species.
CEOA. Plan's Operational Effects of Plan on species are considered insignificant because impacts would more be in place to generally be very small, and the Plan minimizes or mitigates finitiate order) and impacts that occur to the species' habitats. The Plan also preserves insignity during SDG&E habitats to maximum extent precibeable and preserves confider connecting habitats activities.  Thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and existin habitats that may include the species. Three of the 4 populations are currently in designated open space.

MITIGATION	uons B V	), III bitats	i, Vi bitats	med I, IV V, VI he Code	bitats s the s the sause dies or dies	rnia (IX)	ided
CONSERVATION PLANNING IMPLICATIONS	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation and habitats of in that order! for any potential impact. The Plan preserves populations and habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitats that may	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species* blattes. The Plan also preserves that occur to the species* blattes to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reciaim habitats that may include the species.		Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Servicin 404 of the federal Clean Water Act and/or Section 1600 of the Calfornia Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimities or minigates fin that order) any potential impacts that occur to the species' labitate. The Plan also preserves that the preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species. Vernal pool oppulations will be adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or section 1600 of the California Fish and Gens: Code may be necessary for impacts to ACCS and/or CDFS jurisdictional areas.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or jespair. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdicibonal areas.
DEGREE OF EXISTING PROTECTION	FESA (assurming federal action associated with they and CECA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Plan's Operational Protocois would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	an's Operational would not be in place to r mitigate impacts as a ry during SDG&E	CECA. Plan's Operational Proteoties would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	FESA (assuming federal action associated with take) and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E as a first priority during SDG&E
RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	San Diego County. Restricted to a few, disjunct populations between Los Pensequitos Canyon and Encinitas (possibly Carisbad).	Southern San Diego County to northern Baja California, Mexico. Restricted to approximetely 6 localifies along the immediate coast in San Diego County.	Orange and San Diego counties to Baja Calfornia, Mexico. Known from proximately 30 localities in San Diego County and possibly 1 locality in Orange County.	San Diego County to Baja California, Maxico. Known from approximately 16 localities in San Diego County.	San Diego County to Baja California, Mexico. Known from approximately 112 localities in San Diego County.	Riverside, San Bernardino, San Diego, Lutt, Alameda, Contra Coses, Colusa, Solano, Stanislaus, and Kern counties; Oregon: Baje California, Mexico. Restricted to several vernal pool complexes on the mesas north of San Diego and on Otay Mesa in San Diego County.	Riverside, San Diego counties to Baja California, Mexico. Restricted to populations on Otay Mesa, Camp Pendieton, and Ramona in San Diego County.
HABITAT TYPES	Chaparral and coastal sage scrub.	Coastal dunes and coastal sage scrub.	Chaparral and cismontane woodland.	Close-coned coniferous forests, chaparral, riparian forests, riparian scrub, and riparian woodland.	Chaparral, coastal sage scrub, valley and foothill grasslands, and vernal pools.	Vernal pools (alkalins).	Vernal pools.
PLANTS	Del Mar Mesa sand aster (Corethogyne filaginifolia var. Inifolia PT/List 18, R-E-D 3-2-3	Nuttell's lotus (Lotus nuttallianus) Regionally sensitive species/List 18, R-E-D 3-3-2	Feit-teaved monardella (Monardella hypoteuca ssp. lanata ) Regionally sensitive species/List 18, R-E-D 2-2-2	Willowy monardella (Monardella linoides ssp. viminea) PE/CE/List 1B, R-E-D 2-3-2	San Diego golden star (Mullie Cievalandii) Regionally sensitive species/List 18, R-E-D 2-2-2.	Little mousetail (Myosurus minimus ssp. apus) Regionally sensitive species/List 3, R-E-D 2-3-2	Prostrate navarretia (Mavarretia fossalis) PT/List 1B, R-E-D 2-3-2
	38	36	37	88	98	<b>6</b>	4

	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
	PLANTS					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
42	Snake cholla (Opuntis parryi var. serpentina) Regionally sensitive species/List 18, R-E-D 3-3-2	Chaparral, coastal sage scrub, and maritime succulent scrub.	Southwestern San Diego County into northwestern Baja California, Mexico. In San Diego County is known from approximately 14 localities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E acrivities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs.	<u>N</u>
£	California Orout grass (Oroutia californica) FE/CE/List 18, R-E-D 3-3-2	Vernal pools.	Riverside and San Diego counties and in Baja California, Mexico. Known from approximately 10 localities in San Diego County and approximately 3 localities in Riverside County.	FESA lessuming federal action associated with take), CESA, NPPA, and CECA. Plan's Operational Protocols would not be in place to avoid impacts as a first princhy during SDG&E activities.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergencies of rapairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Garne Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	¥
4	Torrey pine (Pinus torreyana) Regionally sensitive species/List 1B, R-E-D 3-2-3	Sandstone in close-coned conferous forests and chaparral.	Along the coast near Del Mar in San Diego County and on Santa Rosa Island, Known only from these two localities as natives.	CEGA. Plan's Operational Protects would not be in place to minimize or mitigate impacts as a first phonity during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would prevently be very small, and the Plan minimizer or mitigates ii that orders any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for natural species.	-
\$4	San Diego mesa mint (Pogogyne abransii) FE/CE/List 18, R-E-D 2-3-3	Vernal pools.	San Diego County (Los Peñasquitos Canyon, Miranar, and San Diego). Restricted to these vernal pool complexes.	FESA (assuming federal action associated with take), CESA, NPPA, and CECIA. Plan's Operational Protocols would not be in place to avoid impacts as a first printy during SDG&E studies.	Adequately conserved by the Plan because impacts to vernal pools will be avoided uses deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and damne Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	×
84	Otay mesa mint (Pogogyne nudiuscula) FE/CE/List 18, R-E-D 3-3-2	Vernal pools.	Southwestern San Diego County and Baja California, Mexico. Restricted to 3 to 5 vernal pool complexes on Otay Mesa in San Diego County.	FESA (assuming federal action associated with take), CESA, NPPA, and CECIA. Plan's Operational Protocols would not be in place to avoid impacts as a first printly during SDG&E activities.	Adequately conserved by the Plan because impacts will be avoided unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 16C0 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	<mark>IV,</mark> IX
4	Small-leaved rose (Rose minutiolie) CE/List 2, R-E-D 3-3-1	Chaparral.	San Diego County to Baja California, Mexico. In San Diego County, restricted to 1 thicket on northwestern Otay Mesa.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would expensify be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves oppulations and habitat to maximum extent practicable and preserves conflors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	
84	Dehesa beargrass (Molina interrata) PT/CE/List 18, R-E-D 3-3-2	Chaparral (gabbroic and serpentinite)	San Diego County to Baja California, Mexico. Known from approximately 9 localities in San Diego County.	CESA, NPPA, and CEGA. Plan's Operational Protocols would not be in place to avoid impacts as a fiftre priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would energiate by very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves oppulations and habites to maximum extent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the	-

	SPECIES NAME & STATUS	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
-	PLANTS	STATE OF THE STATE				STATE STATE STATE OF
	San Miguel savory (Sartuzia chandlan) Regionally sensitive species/List 4, R-E-D 1-2-2	Chaparral, cismontane voodland, coastal sage scrub, riparian woodland, and valley and foothill grasslands.	Northern Baja California, Maxioos; San Diego GEOA. Plan's Operational County; and agleent Orange and western Protocole would not be in pilect to Riverside counties. An extremely rare alrub minintar or mitigate impacts as a with very few recent reports.  Entry priority during SDG&E activities.		Effects of Plan on species are considered insignificant becaust impacts would specially be very armal, and the Plan minimizes or midgates (i) that odder) any potential impact that occur to the species' habitat. The Plan size preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic markerial exchange and opportunities for natural population expansion. It may also restors and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1800 of the California Fifth and Gane Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	N
	Gander's butterweed (Senecio ganderi) CR(List 1B, R-E-D 3-2-3	Chaparral (burned areas, gabbroic outcrops).	San Diego and Riverside counties. Known from approximately 11 localities in San Diego County.	CESA, NPPA, and CEQA. Plan's Operational Protocols would not the place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would meretally be very small, and the Plan prioritizes avoidance, minimization, and mitigation (in that order) for any potential impacts. The Plan preserves populations and habitats, on maximum, axtant, practicable, and preserves confridors connecting habitat thereby providing for genetic material exchange and opportunities for natural specials.	-
	Narrow-leaved nightshade (Solanum tenulibbatum) Regionally sensitive species	Chaparral.	Southern San Diego County to Baja California, Maxico, Otay Mountain is a Couse for populations of this species. Known from approximately 30 localities in San Diego County.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or midgates (in that order) any openeral properties that occur to the species' habitat. The Plan also preserves habitat to maximum axtent practicable and preserves corridors connecting habitat thereby providing for genetic material exchange and opportunities for natural population expansion. It may also restore and reclaim habitat that may include the species.	-
	Parry's tetracoccus (Tetracoccus diolous) Regionally sensitive species List 18, R-E-D 3-2-2	Chaparral and coastal sage scrub.	San Diego and Riverside counties and Baja California, Mexico. Approximately 3.2 Known localities but rare in the southern portions of San Diego County	CEGA. Plan's Operational Protocols would not be in place to mainriate or midgate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also spreaves that the plan also preserves thereby providing for genetic material exchange and opportunities for natural thereby providing for genetic material exchange and opportunities for natural propulation expansion. It may also restore and reclaim habitats that may include the	-

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CONSERVATION PLANNING IMPLICATIONS	のでは、10mmのでは、10mmのでは、10mmの対象のでは、10mmの対象の対象の対象の対象の対象の対象の対象の対象の対象の対象の対象の対象の対象の	Effects of Plan are discountable because the species has such a widespread distribution. Also, the Plan preserves its habitats to the maximum existent paracticable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACDE and/or CDFG jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would spenially be very small, and the Plan minimities or migrates in that order I any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic marerial accelenge and opportunities for natural population expansion. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Same Code may be necessary for impacts Code Addro CDFG jurisdictional areas.	Effects of Plan on species are considered inaignificant because impacts would generally be very small, and the Plan minimizes or mitigates fin that order any potential impacts that occur to the species' habitets. The Plan also preserves habitets to maximum extent practicable and preserves confidors connecting that thereby providing for genetic material exchange and opportunities for natural specials. It may also restore and reclaim habitets that may include the species.	Effects of Plan on species are considered insignificant becauss impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species hallong the major preserves habitats to maximum extent practicable and preserves corridors connecting habitats thereby providing for genetic material exchange and opportunities for neural population expansion. It may also restore and reclaim habitats that may include the species.	Effects of Plan are discountable because the species is an uncommon resident in San Diego County, and any impacts would be extremely small relative to the large armage of the species. Also, the Plan preserves its habitats to the maximum extent practicable.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any piential impacts that occur to the species' habitats. The Plan also preserves babitats to mandrum extern practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species. Penniting puruant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACCB and/or CDFG jurisdictional areas.	Effects of Plan are discountable because the species is an uncommon winter visitor in San Diego County, and any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves its habitats to the maximum extent practicable.
DEGREE OF EXISTING PROTECTION		CEGA and MBTA. Plan's Operational Protocols would not debt in place to minimize or mitigate properts as a first priority during a SDG&E activities.	CEGA. Plan's Operational Protection would not be in place to Principles or mitigate impacts as a first priority during SDG&E.  activities.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a prificat privity during SDG&E activities.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	BEPA and CECA. Plan's Operational Proteoties would not be in place to minimize or mitigate in impacts as a first priority during SDG&E activities.	MBTA. Plan's Operational Protocolas would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.
RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES		Throughout the continental U.S. excluding of the dakes, parts of Montana, and parts of the Dakotas. Winters south to Mexico and the Honduras. Uncommon migrant, winter the Mexico and attenumer resident in San logo County. Breeds in San Diego County.		Venture County southeast through Los Amples, Orange, Riverside and San Diago counties to northwestern Baje California, Maxico. Uncommon to fairly common, but localized, resident in San Diego County.	Southern Canada to the southern U.S., West Indies, and Mexico to Ecuador. Uncommon and localized summer resident: may be very rare in winter.	Mountain regions of the Northern Herriphers. Throughout California except the center of the Central Valley. Throughout California country, As of 1381, the number of breeding pairs(38) within the western half of the Country had decreased by 33% from 1928 froul 1928.	a. Canada, northern U.S. Winters to rem Mexico. Central Vially, Salton and northeastern California. Abundant calized winter visitor. Wintering ations have declined in San Diego by due to wetland habitat loss.	Southwestern Canada and the western U.S. Winters in the southwestern U.S. and northern Mexico. Uncommon winter visitor.
HABITAT TYPES		Riparian woodlands.	Croplands, edges of fields, and edges of ponds.	Coastal sage scrub and chaparral.	Grasslands.	Rolling foothils, mountains, sage-juniper flats, and desert.	Fresh, emergent wetlands, moist grasslands, croplands, pastures, and meadows.	Grasslands, sagebrush flate, desert scrub, low foothills surrounding valleys, and pinyon-juniper habitats.
SPECIES NAME & STATUS	ANIMALS	Cooper's hawk (Accipiter cooperii) SSC	Tricolored blackbird (Agelaius tricolor) SSC	Southern California rufous-crowned sparrow (Mimophila ruficeps canescens)	Grasshopper sparrow (Ammodranus savannarum) Regionally sensitive species	Golden eegle (Aquile chryssetos) BEPA/SSC	Canada goose (Granta canadensis) Regionally sensitive species	Ferruginous hawk (Buteo regalis) SSC
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CONSERVATION PLANNING IMPLICATIONS		Effects of Plan are discountable because the species is an uncommon spring migrant and very are fall migrant is and very are are impaired in San Diego County, and any impets would be actromely amal relative to the large range of the species. Also, the Plan preserves individuals and habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and grame Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs.	Effects of Plan on species are considered insignificant because impacts would penetally be very small, and the Plan priorities a voidance, infinitiation, and mitigation (in that order) for any potential impacts. The Plan preserves individuals what habitets to maximum extent preciseable and preserves confiders connecting habitets. It may also restore and reclaim habitets that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section Bool of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG installicional areas.	Effects of Plan on species are considered insignificant because impacts would enterlay be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent predicable and preserves confiders connecting habitats. It may also restore and reclaim habitats that may include the species.	Effects of Plan are discountable because the species is an uncommon to fairly common ingrant and winter visitor but a rare and local summer resident in San Diego County. Any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves its habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACCE and/or CPCE jurisdictional areas.	Effects of Plan are discountable because the species is found in very small numbers (1-4 individuals) in the fall and winter in San Diego County. Also, the Plan preserves it shabitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Same Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would depending by every amail, and the Plan priorities a evoldance, infinitiation, and mitigation (in that order) for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves corridors connecting shaltars. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Effects of Plan are discountable because the species is a rare visitor along the coast in San Diego County, and any impacts would be extremely small relative to the large range of the species. Also, the Plan preserves individuals and habitats to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.
PROTECTION		CESA, CEQA, and MBTA. Plan's Operatoral Processing to the period process would not the be in place to avoid impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocolar would not be in place to minimize or midgate impacts as a first priority during SDG&E activities.	FESA, CEQA, and MBTA. Plan's Operational Proteonies would not be in place to avoid impacts as a first priority during SDG&E activities.	CEGA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	CECA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.		FESA, CESA, CECA, and MBTA. Plan's Operational protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	FESA, CESA, CECA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as first priority during SDG&E activities.
KANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES		Northwestern North America to northern Mandoc. Winters to Argentina. Spring and fall transient in southern California. Uncommon breeding resident in northeastern California and the Central in Northeastern California and the Central relating migrant; very fall migrant.	Southern Orange County south through San Galfornia, Mexico. San Diego County population estimated to be less than 300 principles of the san south of the san san shift fragmented populations and small, fragmented populations.	U.S.; Baja southeastern ter, migrates entral and ant, winter esident in	Breeds in the U.S. west of 95° W longitude in the Great Plains and Rocky Mountain states. Winters from the southwestern U.S. to Mexico, including the Baja California, Mexico. Common to very common, but extremely localized, winter visitor.	ad throughout the temperate North America and Eurasia. on to fairly common migrant and iffor, rare and local summer n San Diego County.	exico; exico; rt its south ador. I are n ss are sing	U.S. breeding range is so. California, and Arazia, Utah, Nevda, New Mexico, and Texas. Small, breeding populations persist in major river valleys in San Diego County.	Southern California as a rare visitor, minerial state to said to the coast. Only one pair has bred in San Diego County since the 1950s. In winter, occurs along coastal areas and at reservoirs in the County.
HABILAL LIPES	Service and the service of the servi	Junipersage flats, riparian aress, oak savannah, and grasslands.	Coastal sage scrub and mantime succulent scrub.	Sandy marine and estuarine shores.	Grasslands and plowed fields.	Meadows, grasslands, open rangelands, desert sinks, and fresh and saltwater emergent wetlands.	Brackish marshes, shallow, coastal habitats, and mangroves.	Breeds in thickets of willows or other ippiais understory, along streams, ponds or lakes, or in canyon drainage bottoms. Magnaris may be located among any of the larger trees or shrubs in the County of San Diepo but seem to prefer damp areas.	Open grasslands and scrublands, cliffs and steep terrain, sometimes urban areas. Often found along the coast or near lagoons and ponds where waterfowl
orccies name a status	ANIMALS	Swainson's hawk (Buteo swainson) CT	Coastal cactus wren (Campylorfynchus brunneicapillus) i SSC	Western snowy plover (cosstal) (Cosstal) (Charactius alexandrinus nivosus) FT/SSC	Mountain plover (Charadrius montanus) SSC	Northern harrier (Circus cyaneus) SSC	Reddish egret (Egrette rufescens) Regionally sensitive species	Southwestern willow flycatcher (Empidonax traillii extinus) FE/CE	American peregrine falcon (Falco peregrinus anatum) FE/CE
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MITIGATION	The state of the state of	#IX	=	=	=	II, VII	Ξ	-	<b>=</b>	>
CONSERVATION PLANNING IMPLICATIONS	The state of the s	Effects of Plan are discountable because the species is an uncommon winter visitor in San Diego County. Also, the Plan preserves individuals and habitars to the maximum extent practicable. Permitting pursuan to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Eith and Game Code may be necessary for impacts to ACOE and/or CPOE prival clinical clinical areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has a somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species 'habitats. The Plan also preserves behistist to maximum exarter predicable and preserves confiders connecting habitats. Il may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1000 of the California First and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Effects of Plan on species are considered intignificant because impacts would generally be very small, and the Plan pointizes souldment, minimization, and ministration, and ministration, and ministration, and and habitats to maximum extent precisionable and preserves conflorar connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section. 1 800 of the California Fish and Game Code may be necessary for impacts to ACOE and/or California Fish and Game Code may be necessary for impacts to ACOE.	Effects of Plan are discountable because the species is scarce along the southern California coast. Also, the Plan preserves the blacks to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would generally be very amail, and the Plan princitizes evolutions, minimization, and mitigation, middle and the state of the plan preserves inclinduals and habitests to maximum extent precisionle and preserves confidence connecting habitests. It may also restore and reclaim bakitest that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1500 of the California Fish and Game Code may be necessary for impacts to ACOE and/or OFFG jurisdictional areas.	Effects of Plan are discountable breause the species is an uncommon migrant and winter visitor and is rare in summer in San Disgo County. Also, the Plan preserves its habitates to the maximum extent practicable. Permitting pursuant to Section 404 of the federal Clann Water Act and/or Section 1800 of the Calleron The Est and Sanne Code many be necessary for impacts to ACCE and/or CDCE jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan princitizes evolutions, minimization, minimization, and minimization in that orders for any potential impacts. The Plan preserves individuals and habitat to maximum extent practicable and preserves confidors connecting habitat. It may also restore and reclaim habitat that may include the species.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizers evoidance, minimization, and mitigation in that orderly for any potential impacts. The Plan preserves inclividuals and hebitats to maximum extent precideable and preserves confiders connecting habitats: It may also restore and reclaim babitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fins and Game Code may be necessary for impacts to ACOE and/or DEG jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, the species has somewhat broad distribution, and the Plan minimizes or mitigates (in that order) any polential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable
DEGREE OF EXISTING PROTECTION	9	BEPA, FESA, CESA, CEOA, and MBTA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	CEGA and MBTA. Plan's Operational Protocols would not be in place to maintaize or mitigate impacts as a first priority during SDG&E activities.	ld not ts as a	CEQA and MBTA. Plan's operational Protocols would not oberational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	FESA, CEQA, and MBTA. Plan's operational protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	CEQA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	FESA and CECIA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	FESA, CESA, and CECA. Plan's Operational Protocols would not be in place to avoid impacts as first priority during SDG&E activities.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.
RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	1		Southwestern Canada, western U.S. Miners to Guardenala. Common migrant and winter wistor to San Diego County; no breeding records.	Santa Barbara County south to El Rosario, Baja California, Mexico. Localizad, permanent resident in San Diego County.	Alaska, Canada to Guatemala. Winters to Honduras, West Indies. Scarce along the southern California coast.	West coast of the U.S. and Baja California, Mexico. Common to very common norbreeding visitor to San Diego County.	Western U.S. to Argentina. In San Diego County, uncommon migrant and winter visitor; rare in summer.	Southern Los Angeles, Orange, western Hereside, and San Diago counties south into Baja California, Maxico. In 1990, Atwood estimated that approximately 1,819 to 2,262 pairs occurred in southern California.	Central and southern California: Baja California, Maxico; and the Calif of California. The total California population was estimated to be 235 pairs in 1991.	Southern British Columbia and western U.S. to the mountains of central Mexico. Common to very common resident and winter visitor in San Diego County.
HABITAT TYPES	3	Coasts, rivers, large lakes, mountains, and open country.	Rangaland, cultivated land, tideflats, beaches, and salt marshes.	Restricted to salt marshes actual descent shat are dominated by pickleweed (Salfcornia spp.)		Open salt water, bays, and beaches.	Freshwater marshes, irrigated land.	Coastal sage scrub.	Saftwater and brackish marshes.	Scattered trees; open, coniferous forests; and farms. In winter, brush and deserts.
SPECIES NAME & STATUS	According to the control of the	Baid eagle (Valiseetus feucocaphalus) (BEPA) FEICE	Long-billed curlow (Munerius americanus) (SSC	Belding's savannah sparrow (Passerculus sandwichensis beldingi) CE	Large-billed savannah aparrow (Passerculus sandwichensis rostratus) SSC	California brown pelican (Palecanus occidentalis californicus) FEICE	White-faced ibis (Plegadis chihi) SSC	Coastal California gnatoatcher (Polioptila californica californica) FT/SSC	Light-footed clapper rail (Railus longirostris levipes) FE/CE	Western bluebird (Sielis mexicana) Regionally sensitive species
	12	91	2	82	<u>e</u>	20	12	22	23	24

MITIGATION	- C.	II, IV	=	8	>	# <b>5</b>	×	W, W	×	-
CONSERVATION PLANNING IMPLICATIONS	The second secon	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemad necessary for emergencies or repairs.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation of in that order) for any potential impacts. The Plan preserves insidnduals can beliates to maximum restrint precideble and preserves confiders connecting habitats: It may also restore and reclaim babitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1900 of the California Fins and Game Code may be necessary for impacts to ACOE and/or CDEG jurisdictional areas.	Effects of Plain on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mightages fin that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent peacicable and preserves conflors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Firsh and Game Code may be necessary for impacts to ACOE and/or CDFG indicational areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan prioritizes avoidance, minimization, and mitigation of in that order) for any potential impacts. The Plan preserves inclindual and habitats to maximum extent practicable and preserves controding habitats: It may also restore and reclaim babitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1900 of the California Fish and Game Code may be necessary for impacts to ACOE and/or DEI jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to 6 maximum setterin practicable and preserves controllors connecting habitats. It may also restore and reclaim habitat that may include the species.	Adequately conserved by the Plan because impacts to varial pools will be avoided unless deemed necessary for amergenoise or repairs. Permitting pursuant to Section 464 of the federal Clean Water Act andfor Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs. Permiting pursuant to Section 404 of the federal Clean Water Act and/or Section 1000 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Adequately conserved by the Plan because impacts to vernal pools will be avoided unless deemed necessary for emergancies or repairs. Pennithing pursuant to Section 40.40 in the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.
DEGREE OF EXISTING PROTECTION	A CONTROL OF THE PARTY OF THE P	CEGA. Plan's Operational Protocols would not be in place to comminize or mitigate impacts as a first priority during SDG&E setivities.	FESA, CESA, ECAA, and MBTA. If Plans Operational Protocols would not be in place to evoid impacts as a first priority during SDG&E activities.	CCOA and MBTA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	FESA, CEGA, and MBTA. Plans operational protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	I CEQA. Plan's sale Protocols would not se to avoid impacts as a ity during SDG&E	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E setivities.	FESA and CEGA. Plan's Operational Protocols would not be inplicant Protocols would not first priority during SDG&E activities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.
RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES		Southwestern Canada, western U.S. Uncommon and rapidly declining in California.	Temperate and tropical oceans. Winters south of the U.S. In San Diego County the number of nesting pairs was 500 in 1991.	Beeeds on islands off Baja Culifornia, Moxico and near San Diego, Winters from Paru to Chile. Irregularity wanders north to Part function Bay. Abundant summer resident in the single nesting colony at the south end of the San Diego Bay.	California and outdespread in California and northwestern Baja California. Mexico. Known to winter only in southern Mexico. Cover 460 breeding pairs or territorial males were documented in San Diego County in 1991.	Restricted to the same distribution of the larval food plant, Tecate cypress (Cupressus forbesil), in three locations in San Diego County.	Occurs throughout San Diego County.	Santa Barbara County to the southern tip of Baja California, Mexico. Associated with nearly every coastal lagoon in San Diego County.	Known only from five vernal pools in vestern Riverside County in the vicinity of Temecula and Rancho California, from one pool on Citay Mesa in San Diego County, and from one pool at an undisclosed location in northern Baja California, Mexico.	Southwestern California from Los Angeles County south into northwestern Baja California, Mexico. Also occurs on several islands off the Pacific coast including Los Coronados Islands. Relatively limited
HABITAT TYPES		Open grasslands, prairies, (farmlands, and airfields.	Sea breaches, bays, large rivers, bars.	Shallow ocean waters, bays, and lagoons. Strictly associated with salt water.	Riparian woodlands.	Closed-cone pine forest.	Seasonally astatic pools which cour in tectoric water or earth sturp basins in patches or grassland and agriculture interspersed in coastal asge scrub and southern mixed chaparral vegetation.	Tidelands and estuaries.	Seasonally astatic pools occurring in tectonic swales or earth slump basins in patches of grassland and agriculture interspersed in coastal sage scrub.	Grasslands, coastal sage scrub, open chaparral, pine oak woodland, and coniferous forests.
SPECIES NAME & STATUS	ANIMALS	owl a hypogeal	California least tern (Sterna antillarum browni) rE/CE	Elegent tern (Sterns elegents) 6	Least Bell's viceo (Vireo bellii pusilus) FE/CE	Thorne's hairstreak butterfly (Mitoura thorne) Regionally sensitive species	San Diego fairy shrimp (Branchinecta sandiegoensis) PE	Salt marsh skipper (Penoquina errans) Regionally sensitive species	Riverside fairy shrimp (Streptocephalus woorton) FE	Coronado skink (Eumeces skiltonianus interparietalis) SSC
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MITIGATION	Section of the section of	×	-	<b>N</b>	-	=	<b>^</b> '1	-	_	-	n 1
CONSERVATION PLANNING IMPLICATIONS		Adequately conserved by the Plan because impects will be avoided; no direct killing or individuals will occur unless deemed necessary for emergencies or repairs.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habites. The Plan also preserves or obtained as the control of the species' habites to maximum extent prescribed he and preserves confiders connecting habites: It may also exerces and receipm habitest that may include the species.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless demad necessary for emergencies or repairs.	Effects of Plan on species are considered insortices to mitigate would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserve the Plan minimizes or mitigates (in maximum extent pasticible had preserve and preserves or configure connecting habitats. It may also restore and reclaim habitats that may include the species.	Effects of Plan on species are considered inspirificent because impacts would generally be very small, and the Plan mirimizes or mitigates (in that order) any optential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent pastuckees connecting habitats; in the plan also restore and reserves conflors connecting habitats. It may also restore and reclaim habitats that may include the species.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or midglases (in that order) any potential impacts that occur to the species! abitast. The Plan also preserves habites to maximum extent practicable and preserves corridors connecting habitasts. It may also restore and reclaim habitast that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1500 of the California Figh and Game Code may be necessary for impacts to ACOE and/or CDFG infraidinal areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats on maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	Effects of Plan on species are considered insignificent because impacts would generally be very small, and the Plan mirrnizes or mitigates (in that order) any potential impacts that occur to the species' saltiest. The Plan also preserve the habitats to maximum extent practiculate and preserves or and preserves or ordiors connecting habitats. It may also restore and reclaim habitats than my include the species.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitat. The Plan also preserves habitat to maximum extent paracicable and preserves corridors connecting habitats. It may also rescriore and reclaim habitat that may incude the species.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves confidors connecting habitats. It may also restore and reclaim habitats that may include the species.
PROTECTION		FESA, CESA, and CEOA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	pl place to lets as a	FESA and CEGA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to Principle or mitigate impacts as a first priority during SDG&E activities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	CECA. Plan's Operational Protocols would not be in place to mainraize or mitigate impacts as a first priority during SDG&E activities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first painity during SDG&E activities.	CEQA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first princity during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SOG&E activities.
RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	A STATE OF THE PASSED STAT	Afound San Lacinto Valley from Riverside County south to the vicinity of Vista in San Diego County. Geographic range is estimated to encompass 708,641 sores, the which is unusually small for rodents, particularly kangaro	Restricted to the coastal slope of southern California, from San Luis Obispo County south into northwestern Baja California, Mexico. Population information lacking.	Historically recorded from Marina del Rey[E] Egoundo south along the coast to the figuran Birer Valley north of the international border in San Diego County. In the court of the localities. Only three currently recorded localities remain out of eight historic localities: Dana Point, Change Pounty and Marine Corps Base Camp Pendieton, San Diego Courty.	s, and San California, on lacking.	Eastern Los Angeles, southwestern San Bernardino, central Riverside, eastern San Diego, and western Imperial Counties. Population information lacking.	Santa Margarita River south to northern Baja California, Maxico, Population information lacking.		6.5	E.,	Southern Santa Barbara County, south on the coastal slope to the vicinity of San Quintin, Baja California, Mexico., Localities on the eastern edge of its range include Jaçumba and San Felice Valley in San Diego County, Relatively common in open areas in
HABITAT TYPES		Grasslands, coastal sage scrub or sagebrush with sparse canopy cover, and disturbed areas.	Favors xeric habitats. Coastal habitats include open chaparral and coastal sage scrub.	Near the ocean where the substrate consists of fine, alluvial sends, and the dominant vegetation is coastal sage scrub or weeds.	Coastal sage scrub and weedy growth, often on sandy substrates.	Chamise-redshank and mixed chaparrals, sagebrush, desert wash, desert scrub, pinyon-juniper, and annual grassland .	Primarily associated with saute chaparal and is less common in open stands of this vegetation. Has been trapped in mulefat sorub.	Wide variety including various scrublands. May be associated with clumps of cectus or yucce.	Coastal sage scrub and sagebrush.	Sagebrush.	Coastal sage scrub, chaparral, grasslands, croplands, and open, disturbed areas provided there is at least some scrub cover present.
SPECIES NAME & STATUS	ANIMALS	Stephens' kangaroo rat ( (Dipodomys stephensi) o  FE/CT	3	Pacific little pocket mouse [Parographus longimembris pacificus] FEISSC	Northwestern San Diego pocket mouse (Cheetodipus fallax fallax) SSC	Pallid San Diego pocket mouse (Chaetodipus fallex pallidus) SSC	Dulzura pocket mouse (Chaetodipus californicus femoralis) SSC	Southern grasshopper mouse (Onychomys torridus ramona) SSC	Los Angeles pocket mouse Verognethus kongimembris brevinasus) SSC	Jacumba pocket mouse (Perognathus longimembris internationalis) SSC	San Diego black-tailed jackrabbit (Lepus californicus bennettii) SSC
		46	35	98	37	88	39	40	14	42	\$

1	HABITAT TYPES	RANGEWIDE AND LOCAL DISTRIBUTION OF SPECIES	DEGREE OF EXISTING PROTECTION	CONSERVATION PLANNING IMPLICATIONS	MITIGATION
seriy e	Nearly all habitats.	In California, sea level to alpine meadows, except xeric regions of the Mojave and Colorado deserts not supporting mule deer (Odocordieus Amerionus) populations.  Relatively common and most abundant in riparian areas and brushy stages of most habitats.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' ablitists. The Plan also preserves habitats to maximum extent preaticable and preserves conidors connecting habitats. If may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG unidiational areas.	None
d mon laparri oplano eas pr	Coastal sage scrub, riparian and mountain forests, chaparral, grasslands, croplands, and open, disturbed areas provided there is at least some scrub cover present.	Southern Riverside County (Tehquitz Alah), such on the coastals slope to the vicinity of San Quintin, Baja California, Mexico. Relatively common along the coastal footbills of southern California.	Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mighters (in that order) any potential impacts that occur to the species' labitate. The Plan also preserves habitats to maximum extent practicable and preserves confidors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1900 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG viridicitions areas.	None
nier, o	Drier, open stages of most shrub, forest, and herbaceous habitats with friable soils.	Central and southwestern North America. Throughout most of California except the North Coast area. Widespread but thought, to be declining in California.	CEGA. Plan's Operational Protocols would not be in place to minimize or milgate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimites or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves confidors connecting habitats. If may also restore and retain habitats that was not retain habitats that may include the species.	=
estric nallo w djacer	Restricted to rivers with shallow, gravelly pools adjacent to sandy terraces.	Formarly distributed from southern caldifornia to the northwestern cassal region of Baja California, Maxico. Most remaining populations occur within, or adjacent to, the Cleveland National Forest. Only 6 of the 22 extant populations south a dozen addits.	FESA and CEQA. Plan's Operational Process and not be in place to avoid impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan principses avoidance, minimization, and mitigation, and mitigation in that order! for any potential impacts. The Plan preserves individuals and habitats to maximum extent practicable and preserves confidors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1500 of the California Flat and Game Code may be necessary for impacts to ACOE and/or OFFG sinfactional areas.	>
cours tuatio opula oothill	Occurs primarily in grassland distudios, but to coesional populations occur in valley-footbill hardwood woodlands.	In California, throughout the Central Valley and adjacent forbills from Santa Barbara County south to the Mexican border. Usually quite common where it occurs.	CEQA. Plan's Operational Proteosis would more the in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered intignificant because impacts would generally be very small, and the Plan intimities or midgates (in that order) any potential impacts that occur to the species habitas. The Plan also preserves habitats to maximum extent predicable and preserves corridors connecting habitats. It may also restore and recisim habitats than may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Firsh and Game Code may be necessary for impacts to ACOE and/or OPFG jurideforinal areas.	-
eshw onds,	Wetland habitats including freshwater marshes, creeks, ponds, and reservoirs.	Vicinity of Monterey south into conchwestern baje California, Mexico. Primarily west of the major mountain ranges in southen California, but here is a population along the Moisew River in San Bernardino County. Very few vieble County.	CEOA. Plan's Operational Protections of Protections would more be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimize or mispass in that order) any potential trapers that occur to the species' habitas. The Plan also preserves habitats to maximum extent prescibable and preserves conficors connecting habitats. It may also restore and reclaim habitats that may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1500 of the California Fish and Game Code may be necessary for impacts to ACCE and/or CDFG puridicional areas.	>
dges nd w isturk	Coastal sage scrub, chaparral, deges of plasma woodlands, and washes; and in weedy, disturbed areas adjacent to these habitats.	Southern Orange County and southern San Bearardino County (Colton), south to the cape of Baja California, Mexico. Locally common.	CEOA. Part's Operational Proteocials would mot be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizer or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent perceicable and preserves conflors connecting habitats. It may also restore and reclaim habitats than may include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Figh and Game Code may be necessary for impacts to ACOE and/or CDFG juridational areas.	
Chaparral scrub in a outerops,	Chaparral and coastal sage scrub in areas with rock outgrops.	Southern slopes of the San Gabriel Mountains of Los Angetes County, south throughout cismontane and coastal asouthern California into northwestern Baja California, Mexico. Also found on Cedros Island off the Pacific coast of Baja California, Mexico. Population information lacking.	CEOA. Plan's Operational Proteodia would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	Effects of Plan on species are considered intignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves confidors connecting habitats. It may also restore and reclaim habitats that may include the species.	-

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CONSERVATION PLANNING IMPLICATIONS	The second secon	Effects of Plan on species are considered intignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order any potential impacts that occur to the species* habitest. The Plan also preserves habitest to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species* habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves thabitats to maximum extent practicable and preserves corridors connecting habitats. Ringy also restore and reclaim habitats than also restore and reclaim habitats than also restore and reclaim habitats than also restores.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitjates (in that order) any potential impacts that occur to the species "abitiats. The Plan also preserves habitets or maximum extent practicable and preserves corridors connecting habitats. It may also restore and reclaim habitats that may include the species.	Adequately conserved by the Plan because impacts will be avoided; no direct killing or injury to individuals will occur unless deemed necessary for emergencies or repairs. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1900 to the California Fish and farms Code may be necessary for impacts to ACOE and/or CDFG jurisdictional areas.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimizes or mitigates (in that order) any potential impacts that occur to the species' habitats. The Plan also preserves habitats to maximum extent practicable and preserves corridors connecting habitats it may also restore and reclaim habitats that may include the species.	Effects of Plan on species are considered insignificant because impacts would generally be very small, and the Plan minimites or mitigates (in that order) any potentially be very small, and the Plan minimites or mitigates. The Plan also preserves habitats to maximum extent practicals had preserves corridors connecting habitats. It may also restore and reclaim habitats that mey include the species. Permitting pursuant to Section 404 of the federal Clean Water Act and/or Section 1600 of the California Fish and Game Code may be necessary for impacts to ACOE and/or CDFG inrigidional areas.
PROTECTION	White the state of the state of the board	CEGA. Plan's Operational Protocola would not be in place to minimize or midgate impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first princity during SDG&E activities.	FESA and CEQA. Plan's Operational Protocols would not be in place to avoid impacts as a first priority during SDG&E activities.	CEGA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.	CECA. Plan's Operational Protocols would not be in place to minimize or mitigate impacts as a first priority during SDG&E activities.
OF SPECIES		Extreme southeastern Los Angeles County (Diamond Bail into southern Sail Bernardino County and south into southern Bail California, Mexico, Relatively common in the foothill zone and on the desert slopes.	Southwestern San Bernardino County south along the coastal slope into northwestern Baja California, Mexico. Population information lacking.	Transverse Ranges in Los Angeles and San Bernardino counties south into northwestern Baja California, Mexico. It also ranges east to the lower desert slope. Population information lacking.	Southern California, west of the deserts, and ranges south into northern Baja California, Mexico. Relatively common in footbill areas that contain large expanses of good habitat.	Central and southern California. Has been extirpated from 75% of its former range.	Santa Barbara County south to northwestern Baja California, Mexico. Population information lacking.	Monterey County south through the cosstal arranges into northwestern Base California. Mexico, Rere or extingated from many areas where it was formerly common.
HABITAT TYPES		Chaparral, woodland, and arid habitats in rocky areas and dense vegetation.	Oak woodlands and canyon bottoms. Sometimes encountered in grassland, chapartal, and coastal sage scrub.	In or near rocky areas in coastal sage scrub, chaparrel, and desert scrub.	Coastal sage scrub, chaparral, open oak woodlands and open coniferous forests in the mountains.	Dense shrubby, emergent riparian vegetation closely associated with deep, still, or slow moving water.	Primarily chaparral, but also coastal sage scrub and areas of grassland mixed with scrub.	Along permanent creeks, streams, vertam pools and along intermittent creeks. Occasionally found in chaparral or other habitats relatively far from permanent water.
SPECIES NAME & STATUS	ANIMALS	Northern red rattlesnake (Crotalus ruber ruber) SSC	San Diego ringneck snake (Diadophis punctatus similis) Regionally sensitive species	Coastal rosy boa Lichanura trivigata roseofusca) Regionally sensitive species	San Diego horned lizard (Phrynosoma coronatum blainvillel) SSC	California red-legged frog (Rana surora draytonii) PE/SSC	Coast patch-nosed snake (Salvadora hexalepis virgultea) SSC	Two-striped garter snake (Thamnophis hammondii) Regionally sensitive species
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CE = California andangered
CT = California breatened
CR = California rare
FE = Federally listed endangered
FF = Federally proposed endangered
PF = Federally proposed endangered
PT = Federally proposed endangered
PT = Federally proposed threatened
CT = Federally proposed threatened
CT = Enough data to support federal listing special concern

List 18 = Rare and endangered in California and

elsewhere
List 2=Rare and endangered in California but more
corrunon elsewhere
List 3=More information needed
List 4=Limited distribution (a watch list)

R (Rarity)
1 = Race but found in sufficient numbers and distributed validely enough that potential for extinction or extripation is low at this time.
2 Occurrence confined to several populations or one extended population.
3 = Occurrence limited to 1 or a few highly restricted populations or present in such small numbers that it is seldom reported.

E (Endangerment)
1 = Not endangered
2 = Endangered in a portion of its range
3 = Endangered throughout its range

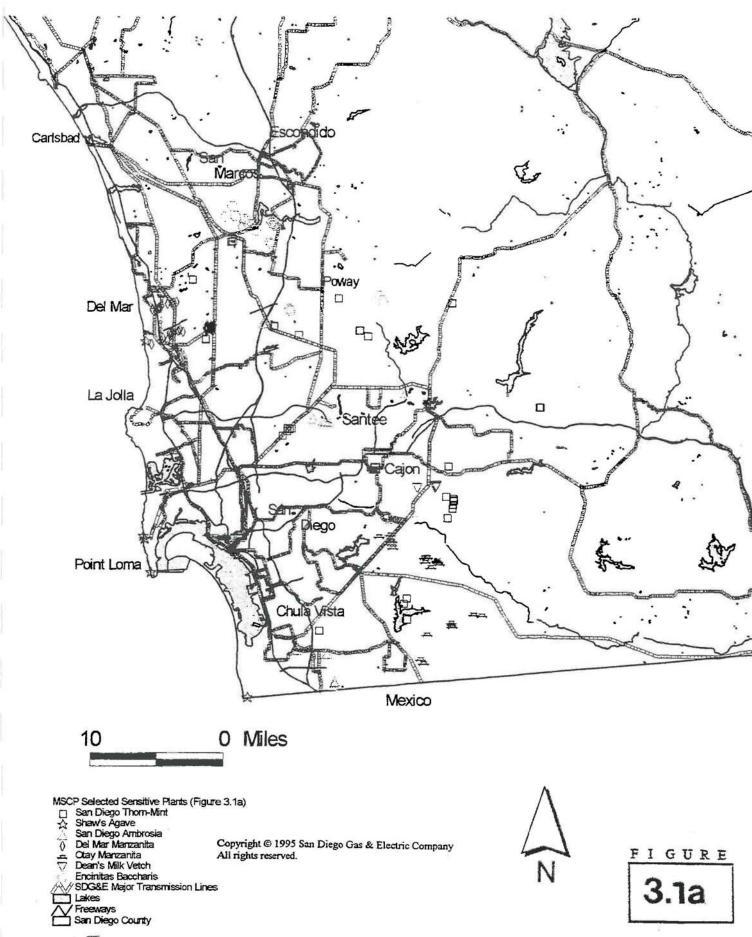
ABBREVIATIONS
ACOE – U.S. Army Corps of Engineers
ACOE – U.S. Army Corps of Engineers
BER = Bade Eagle Protection Act
CDFG = California Environmental Quality Act
CEQ A – California Environmental Quality Act
CES A – California Environmental Obseries Act
RES A = Federal Environmental Species Act
MRT = Migratory Bird Treaty Act
NPA = Native Plant Protection Act

MITIGATION
I. Scrub and chaperial species
II. Grassland species
III. Beach, marsh, and wetland species
IV. Narrow endemric plant and animal species
V. Riparian species
VII. Open water species
VIII. Raptor species
VIII. Raptor species
X. Stephens' kangaroo rat
X. Stephens' kangaroo rat

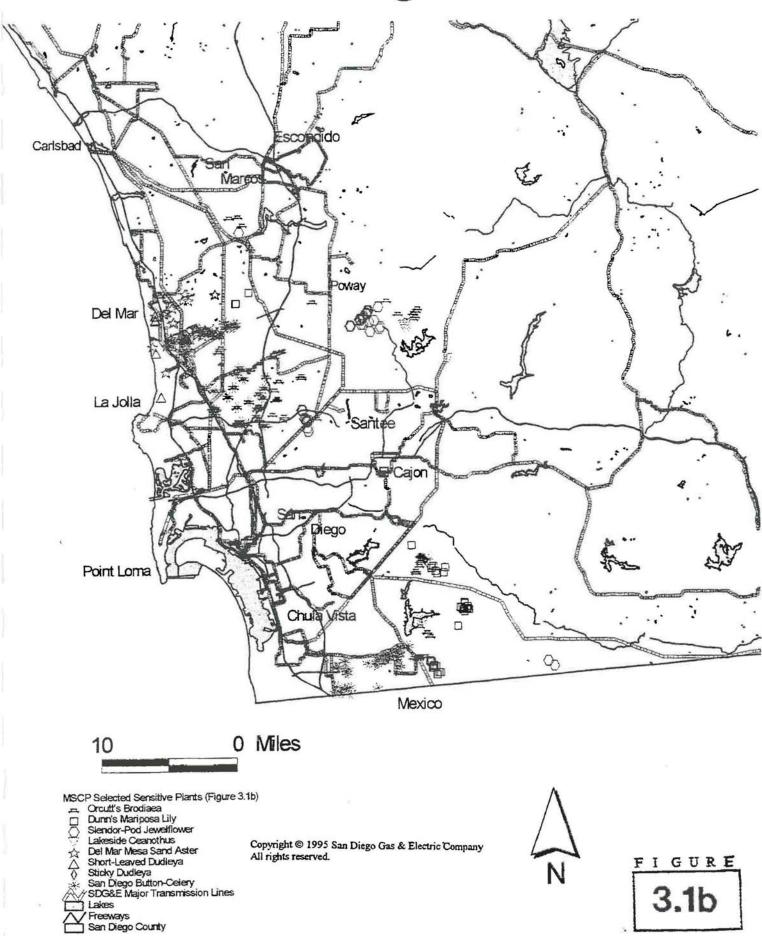
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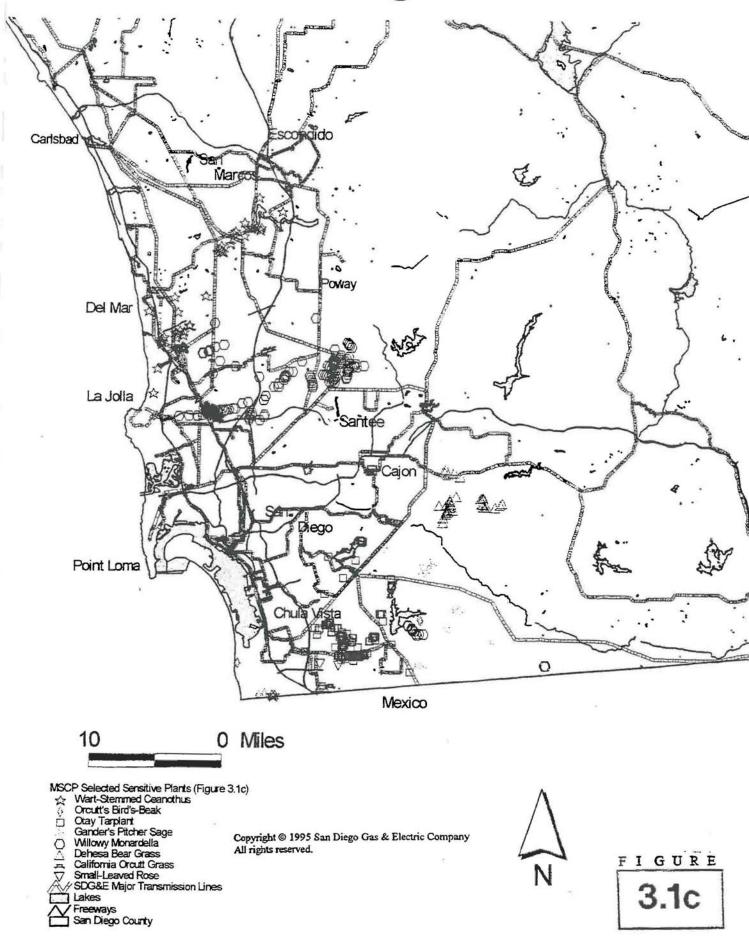
# SDG&E Subregional NCCP

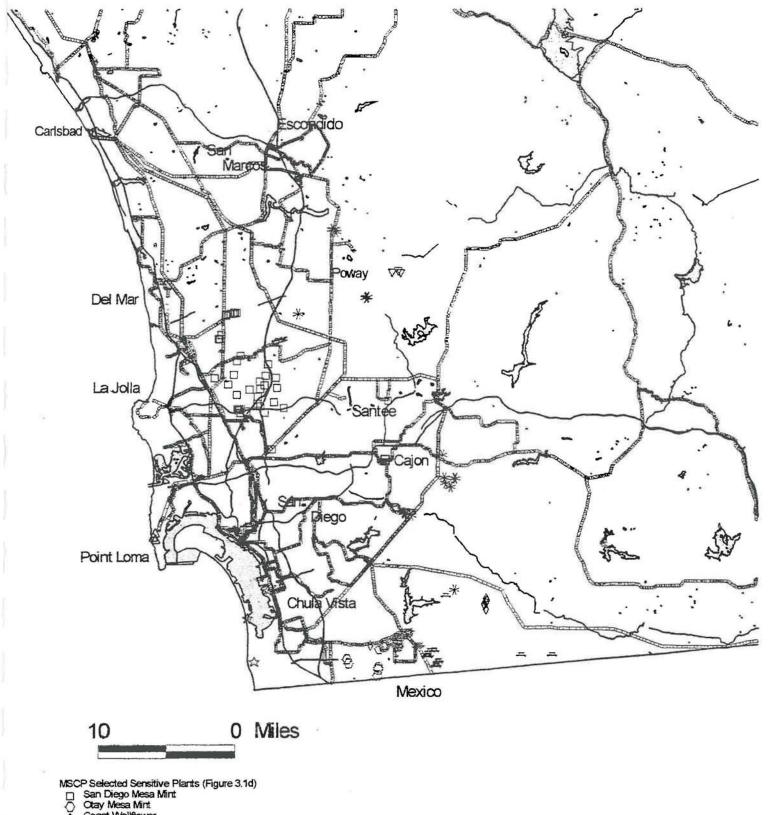












Coast Wallflower
Mexican Flannelbush

Tecate Cypress
Heart-Leaved Pitcher Sage
Salt Marsh Bird's-Beak

Palmer's Ericameria SDG&E Major Transmission Lines

Freeways
San Diego County

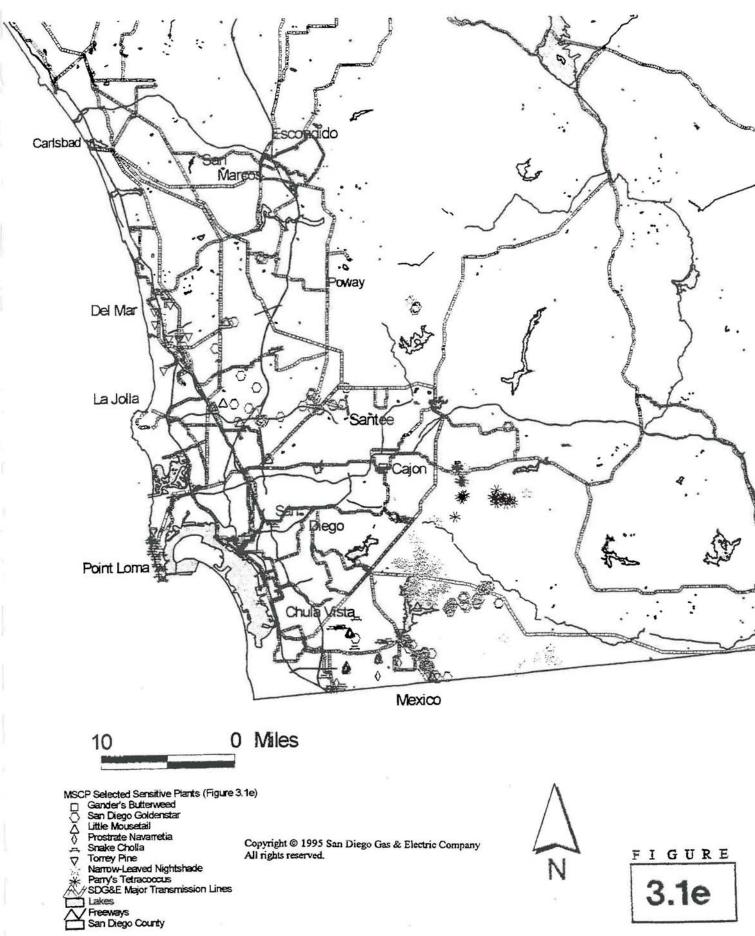
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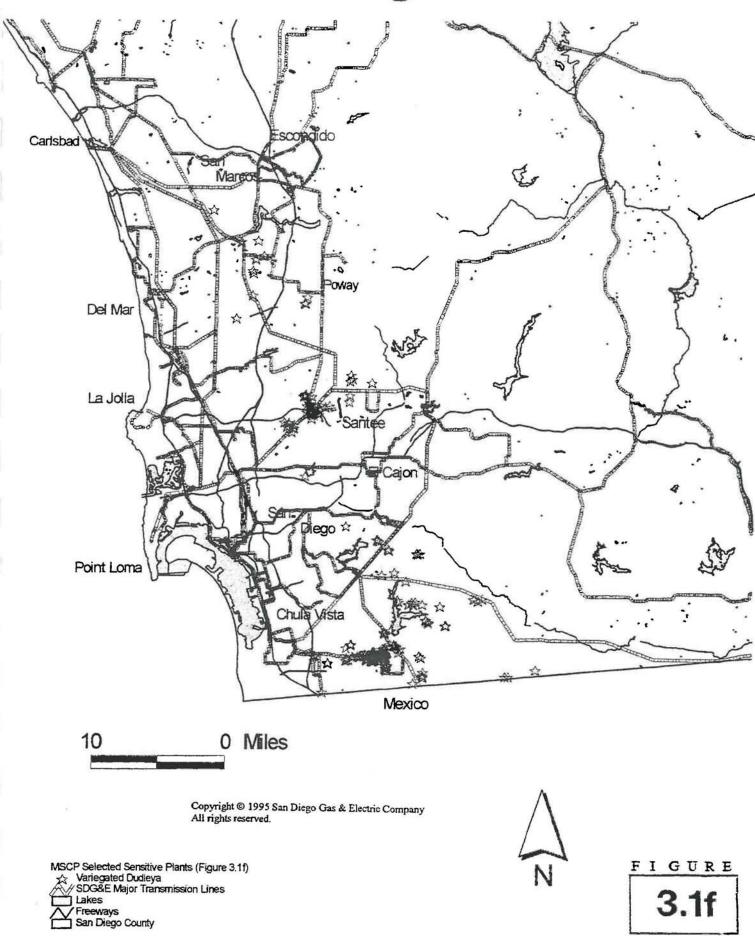
FIGURE

3.1d

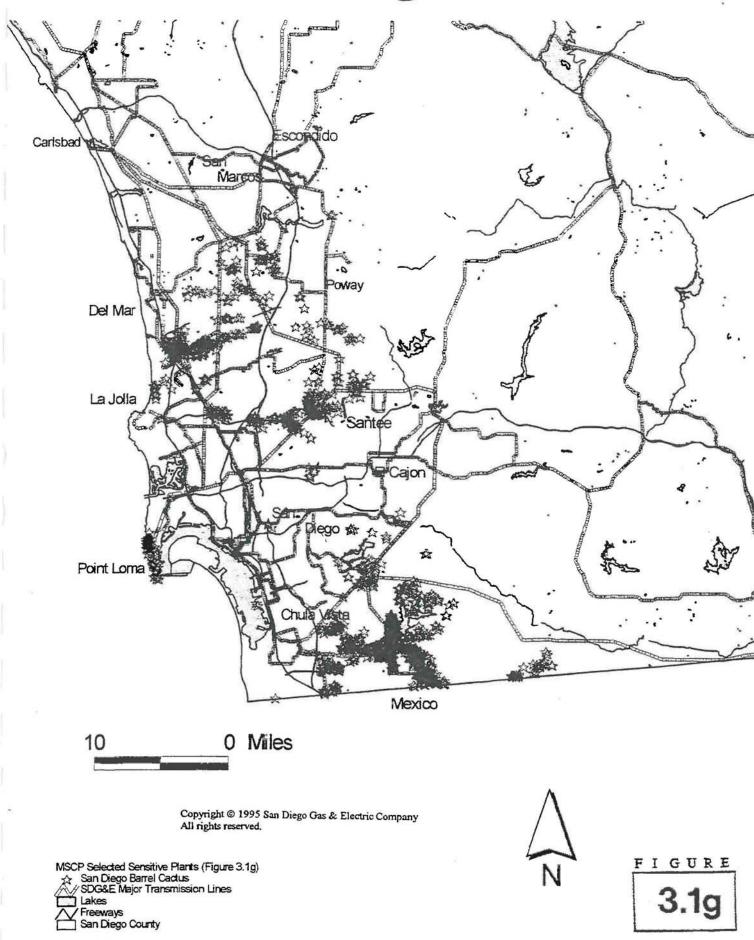




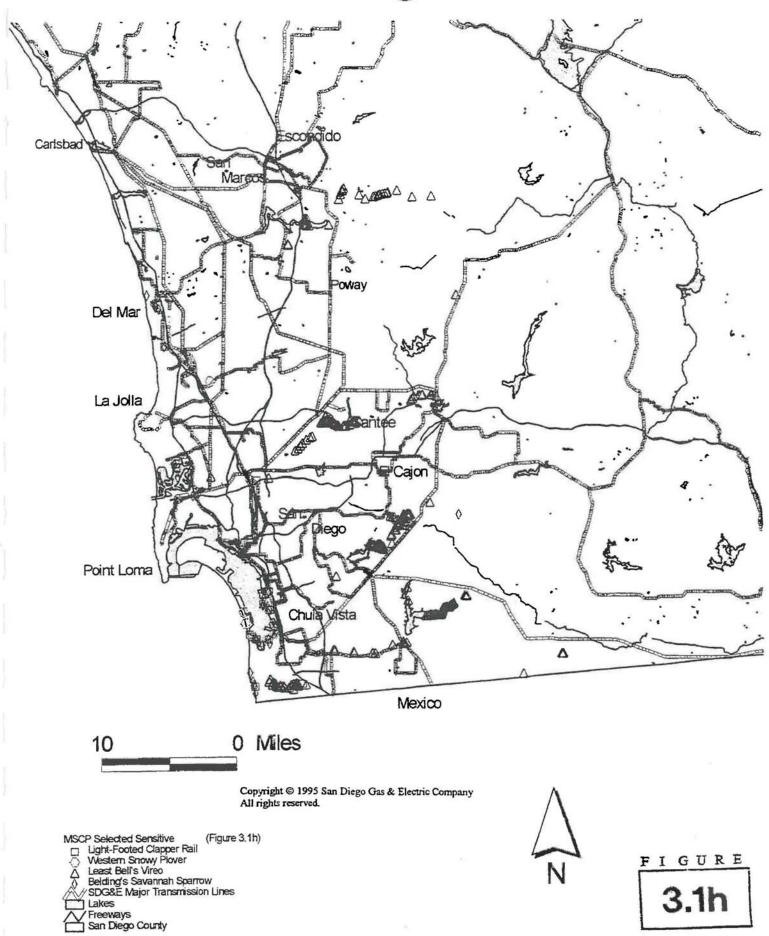




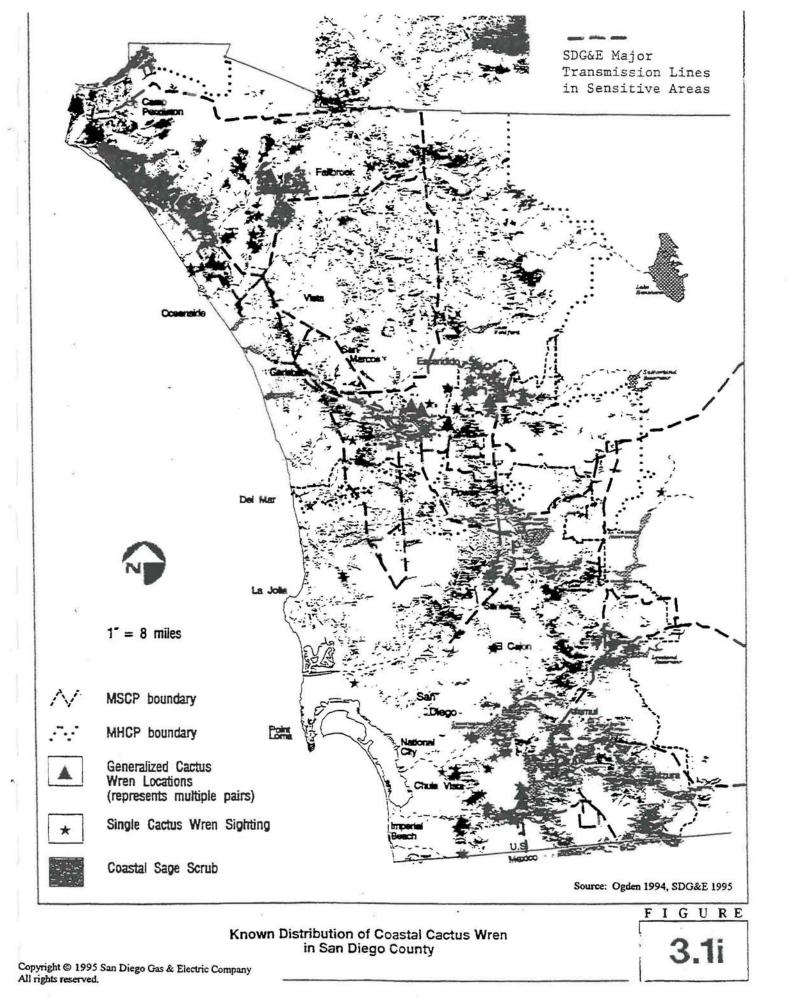
SDGE











SDGE

Subregional Natural Community Conservation Plan

## 3.2 Impact Assessment

As a regional energy provider SDG&E has several roles. One of the roles is to be a developer. SDG&E must develop and maintain a region-wide network of gas and electric transmission, distribution and resource facilities. From the standpoint of capital investment, SDG&E is probably the largest developer in the SDG&E service territory.

Energy development, like all development, has impacts. However, it is important when reviewing this document that the reader does not confuse the impacts of energy development with typical commercial, industrial, and residential development. Typical development permanently removes large areas of native vegetation, changes the topography, and covers much of the developed area with impervious surfaces. Most of SDG&E's previous and future energy development occurs above or below the earth's surface with very small areas of permanent disturbance. Impacts from energy development include: narrow and unpaved access roads, habitat that continues to exist and grow in rights-of-way, energy facilities (except for generators) that are unoccupied and generate very little traffic, and little or no contribution to edge effects due to predatory pets or extensive human activity. Negative impacts which may occur are habitat fragmentation and provision of human access to remote areas leading to potential exotic species invasion and destruction of habitat.

Construction impacts associated with the development of energy facilities also have less impact than those of typical developments because (1) construction projects associated with development of energy facilities normally are completed over a period of days rather than months or years as with other development projects, and (2) construction activities

themselves have less impact, for example, equipment and materials are often delivered by air, thereby minimizing ground disturbances.

Another significant difference between the development of energy facilities and typical development is that there is a greater degree of flexibility in siting and design when developing energy facilities. It is not to SDG&E's benefit to site and develop facilities in an environmentally insensitive manner. Doing so would not result in a measurable increase to company profits. Therefore, it is in the best interest of SDG&E, its rate payers, and shareholders for the company to adopt development and maintenance policies designed toward environmental protection and enhancement. SDG&E is also a resident of the service territory (has been for well over a century) and would like to continue to be a welcome one.

#### 3.2.1 Take of Covered Species

SDG&E's Activities will likely result in the Take of Covered Species and impact their habitat when incidental to otherwise lawful activities and when conducted in full compliance with the terms and conditions of this Subregional Plan.

However, this Subregional Plan is intended to avoid incidents resulting in the Take of Covered Species whenever possible and to implement measures to minimize and mitigate any Take of Covered Species to the maximum extent possible. Events of Take occurring within the terms and conditions of this Subregional Plan will not appreciably reduce the likelihood of the survival and recovery of any Covered Species.

Take of certain Covered Species is to be avoided. (These species are indicated in the Covered Species Table 3.1.) Take authorizations for these so called narrow endemic species will be limited to emergencies and unavoidable impacts from repairs to existing facilities. For new projects, kill or injury of such animal species or destruction of such plants or their supporting habitat would not be covered by the Plan and Implementing Agreement.

#### 3.2.2 Types of Take of Covered Species

#### 3.2.1.1 Impacts to Individual Animals

The Take of protected individuals and impacts to other Covered Species will likely occur as a result of SDG&E's Activities. SDG&E's Activities, including its installation, use, maintenance and repair of its Facilities, are more fully described in Section 2. The Take of these individuals may occur in the form of harassment, death, or displacement.

Of the aforementioned forms of Take of Covered Species and impacts to Covered Species, harassment may be the most common. Harassment of individuals of such species will occur as an unavoidable and unintentional consequence of conducting certain Activities and mitigation measures, such as human activity, the operation of machinery and equipment, and associated noise. Direct killing of or injury to individuals may result from their being struck by vehicles or equipment, or being crushed or trapped in their burrows. Displacement may occur when individual animals move away from long-term maintenance operations to surrounding areas and are forced to compete with animals in these areas for food and living space. Take of Covered Species due to these impacts will be eliminated, minimized or mitigated to the maximum extent possible utilizing the mitigation measures described in Section 7 of the Subregional Plan.

In certain situations, Take of certain species is authorized only under the rubric of operation and maintenance Activities. These situations typically involve potential impacts from Activities on endemic species having narrow ranges in areas without an approved regional conservation plan.

For example, Take of the Stephens' Kangaroo Rat (SKR) is only permitted for SDG&E in the Multiple Habitat Conservation Program (MHCP) planning area in northern San Diego County for operation and maintenance activities until the MHCP is approved. After that time, and provided that SKR is conserved within MHCP, Take for new construction Activities will be permitted under the terms of this Plan. This condition only applies to the SKR populations in San Diego County; Riverside County has an approved Take process and mitigation protocol. Furthermore, SDG&E's facilities in Riverside County already exist, and no new impacts are expected.

#### 3.2.1.2 Impacts to Individual Plants

Areas known to contain Covered Species of plants have been delineated in preliminary sruveys for MSCP and MHCP and will be flagged to eliminate or reduce impacts during Activities in these areas. Impacts to individual plants will primarily result from urgent or emergency repair Activities. This Subregional Plan prescribes the implementation of mitigation measures such as specific restoration or reclamation. Unknown populations of Covered Species plants, naturally occurring or intentionally introduced, are expected to exist with the Subregional Plan Area and may also be impacted by SDG&E's Activities. Pre-activity

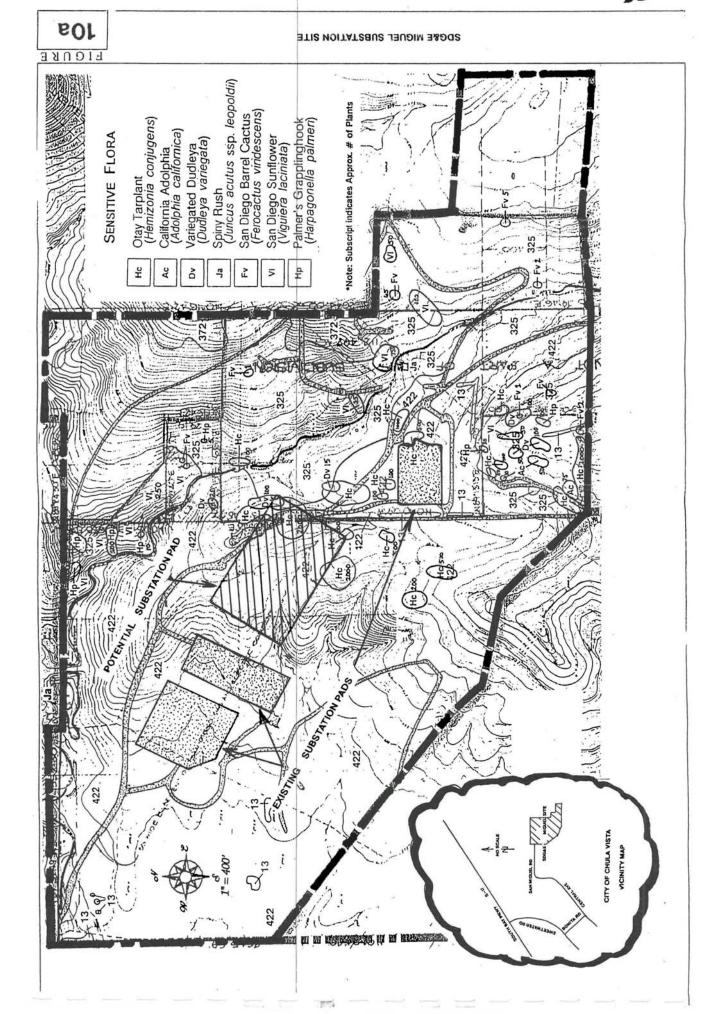
surveys for Covered Species of plants will identify areas of potential impact, and implementation of the provisions for avoidance and/or revegetation as set forth in Section 7 of this Subregional Plan will reduce these impacts.

SDG&E's Geographic Information System (GIS) will contain sensitive species and habitat data to demonstrate sensitive working areas. The Environmental Surveyor will continue to add new data to GIS based on preactivity surveys.

#### Expansion of Miguel Substation:

SDG&E owns land within the boundaries of its Miguel Substation property adjacent to the Sweetwater Reservoir on which significant populations of Otay Tarplant "Hemizonia conjugens" are found. Expansion plans for the substation could threaten about 1,000 - 2,000 of the approximately 12,000 individuals of the Tarplant population on the SDG&E property. Due to the rapidly changing nature of the electric industry, it is impossible to predict with complete certainty how the substation will be expanded, or even if it will become necessary. SDG&E has committed that impacts to sensitive species like the Tarplant, however, will be avoided to the extent possible.

Figure 10a shows the existing footprint of the substation development areas, with the biological resources indicated adjacent to the substation pads. Also outlined is one expansion scenario, the configuration of which is largely determined by the geometry of the existing equipment. Any impacts to the Tarplant populations due to an expansion would be minimized to the extent possible. Should impacts be necessitated, they would be mitigated with the set aside of a nearby area of Tarplant within the Miguel Substation property at a ratio of 2:1. The remaining Tarplant would be retained for mitigation use at a later date.



#### 3.2.2.2 Impacts to Habitat

SDG&E's Activities will likely result in some impacts to the habitats of Covered Species. Destruction of habitat, including blading or scraping, excavation, and erosion, along with fragmentation and human access to restricted areas, will likely occur in some areas as a result of SDG&E's Activities. Modification of habitat may reduce the prey base or other biological resources for Covered Species and thereby affect an individual's ability to survive. Implementation of the mitigation measures in Section 7.1 will avoid or reduce these impacts to the maximum extent possible.

#### 3.2.2.3 Duration and Intensity of Impacts

The duration and intensity of impacts to Covered Species will vary depending on the location and type of Activity being conducted. Some Activities will result in occasional harassment to individuals while others may result in greater impacts such as the killing of individuals or permanent habitat loss within the Subregional Plan Area. These impacts may be expected to occur throughout the year and may occur within any or all of the Subregional Plan Area.

For example, Activities such as the installation, use, maintenance or repair of Facilities may cause temporary harassment of individuals, while grading and clearing of electric substation pads, gas facilities, or access roads may result in permanent disturbance. Most Activities will allow a majority of Covered Species to reoccupy habitat after the completion of installation, maintenance and repair of a Facility and during its use (e.g. transmission line).

## 4 Land Use

This section of the Subregional Plan discusses existing and proposed land use activities and policies guiding SDG&E Activities within the Subregional Plan Area.

#### 4.1 Existing Land Use Activities

#### **Existing Land Uses**

Existing land use activities on SDG&E owned property, easements, and rights-ofway include installation, operation, maintenance and repair of SDG&E Facilities.

Although a good portion of SDG&E's easements are located within urbanized areas, many large easement corridors cross through and connect biologically sensitive and diverse areas. In addition, a number of substation and gas regulator sites adjoin or contain valuable native habitats. This Subregional Plan addresses only property owned by SDG&E, SDG&E easements and rights-of-way, and Activities within biologically sensitive areas.

#### 4.1.1 Electric Distribution Easement Corridors

These easements are typically 12' in width or narrower. Facilities consists of power poles located in the center of the easement with attachments such as guy anchors, circuit switches, stub and anchors, wires and communication cables. The total percentage of the above ground improvements in the easement area is less than 1% over an easement 200' in length. Access routes to these Facilities are not usually maintained, enabling the habitat to recover.

#### 4.1.2 Electric Transmission Easement Corridors

These easements are typically 20' in width or greater. Facilities may consist of power poles, two-pole structures, steel poles or lattice steel towers. 20'-wide corridors contain a single pole line, while corridors greater than 100' in width could contain as many as five individual transmission lines. Due to the greater span distance between structures, above ground improvements are approximately less than 5% of the easement area. Access to these improvements is normally provided via access roads.

#### 4.1.3 Gas Transmission Easement Corridors

These easements are normally 40' in width or narrower. Above ground improvements are minor and consist of valve boxes, cathodic stations, pipeline identification markers and leak detection devices. Above ground improvements are approximately less than 1% of the easement area. Access to these improvements is provided via access roads.

#### 4.1.4 Electric Substations and Gas Regulator Stations.

These Facilities are located along or at the terminus of transmission easement corridors and are usually surrounded by landscaped areas or as open space areas. It is essential for safe and reliable service that access roads be maintained in a condition which assures that these Facilities can be operated, as necessary, on a 24-hour basis.

#### 4.2 Proposed Land Uses

Forecasting the need, location and exact nature of future energy projects is accomplished by interpreting the projected growth plans from the various local and regional agencies. SDG&E identifies future "load centers" based on the locations, densities, and types of growth indicated in general plans and population forecasts. The current system design of SDG&E's energy network is a response to those plans and forecasts. Many rights-of-way and substations were purchased with space for expansion in the interest of serving future "load centers" that could be predicted from agency plans.

Major preservation plans, currently being prepared under NCCP legislation, will affect the existing growth forecasts to the extent that significant shifts in load center size and location are expected. The results will dictate a reevaluation of the system design needed to serve this region. Some rights-of-way and substations that were intended for expansion may be fully utilized. Existing urban areas may now need to be served with additional utility improvements to accommodate development intensification.

Therefore, SDG&E will not be able to accurately predict the extent of these "load center" shifts until the various preservation plans are completed and agencies modify their growth plans to reflect new patterns of growth and preservation. This Subregional Plan assumes that San Diego will continue to grow, but does not assume where the growth will occur. However, the plan does assume that growth will mean expansion of the energy system. The predictions pertaining to miles of gas and electric transmission lines, number of substations, and amounts of other energy facilities have been based on historical data.

Each new SDG&E project will be subject to CEQA and, if there is federal involvement, NEPA. Exact impacts and mitigation will be determined at that time. At this time, the plan only estimates disturbances to habitat based on past experiences. However, those preparing this plan have estimated that more mitigation than is necessary is being provided to prevent a shortfall as projects are needed.

This Subregional Plan may be amended by SDG&E when General Plans in the region are updated. At that time, the company can better predict what kinds of facilities will be needed and where to serve future growth areas.

In a limited number of cases, there are existing transmission corridors capable of accommodating additional electric and gas transmission facilities. These transmission corridors are shown in fluorescent green on Figure 11a. The vacant positions in Orange County are attached as Figure 11b.

#### 4.3 Projected Grading Disturbances

SDG&E has estimated a total of 124 acres of both temporary and permanent grading disturbances over the next 25 years. Section 4.4 discusses how this calculation was made. It is important to note that not all of this acreage disturbance would occur within habitats considered native, sensitive, or slated for protection. Nevertheless, this estimate should be considered valid because it covers both native and disturbed areas, and as a result reflects the worst case scenario. Specific estimates of native habitat disturbances can only be quantified through individual review of each SDG&E Activity just prior to its occurrence.

#### 4.4 Methodology for Estimating Grading Disturbance

The estimate for total grading disturbances was based on projecting 7 typical SDG&E activities over the course of 25 years. Estimates of individual grading disturbances were based on previous experiences by SDG&E.

#### 4.4.1 New Substations

Approximately 8 acres of permanent grading disturbances may result from the construction of four new electric distribution substations. Of the

estimates provided, this is the only one in which grading disturbance over native habitat is probable. Individually, each substation could impact 2 acres of habitat.

The typical substation site is 4.5 acres in size. Of this amount, up to 2 acres accommodate improvements for substation transformers, control house racks, fencing, roads, and transmission feed structures. The remaining land is devoted to setbacks, landscaping, open space access, and fire breaks where required. Figure 12 depicts the typical layout for each substation.

- A.4.2 New Electric Transmission Lines Requiring New Rights-of-Way
  Approximately 35 acres of grading disturbances may result from the
  construction of 7 new transmission lines. This acreage amount is the
  result of each new line requiring an entirely new right-of-way corridor and
  associated access road system. The above figure represents the aggregate
  of two different types of new transmission lines. Each type is described as
  follows:
  - New electric transmission, steel: 3 new transmission lines would be supported by either steel lattice towers or steel poles. Each new line would typically require a new right-of-way 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would include grading 18 structure sites (25' x 100' each), 2.4 miles of 12' wide access road and 2 temporary wire pulling pads (50'x 200' each). Figure 13 depicts this configuration.
  - New electric transmission, wood: 4 new transmission lines would be supported by wood poles. Each new line would typically require a new right-of-way 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would include grading 60 structure sites (20' x 20'), 2.4 miles of 12' wide access roads and 4 temporary wire pulling pads (50' x 200' each). Figure 14 depicts this configuration.

Note: New access roads do not typically traverse the entire right-ofway because of impassable terrain and the use of existing access roads.

4.4.3 New Electric Transmission Lines Within Existing Rights-of-Way
Approximately 23 acres of grading disturbances may result from the
construction of 10 new transmission lines placed within existing rights-ofway. This acreage amount is the result of each new line be able to utilize
existing access road infrastructure. The above figure represents the

aggregate of two different types of new transmission lines placed within existing rights-of-way. Each type is described as follows:

- New electric transmission, <u>steel</u>: 4 new transmission lines would be supported by either steel lattice towers or steel poles. Each new line would typically utilize an existing right of way that is 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would require the grading of 18 structure sites (25' x 100' each), .57 miles of 12' access roads and 2 temporary wire pulling pads (50' x 200' each). Figure 15 depicts this configuration.
- New electric transmission, wood: 6 new transmission lines would be supported by wood poles. Each new line would utilize an existing right-of-way that is 100' in width and 4 miles in length. Each would begin and terminate at different substations or at existing transmission lines. Typical ground disturbances for each line would include grading 60 poles sites (20' x 20' each), .57 miles of 12' wide access roads and 4 temporary wire pulling pads (50' x 200'). Figure 16 depicts this configuration.

Note: New access roads do not typically traverse the entire right-ofway because of impassable terrain and the use of existing access roads.

#### 4.4.4 Transmission Line Reconductoring

Approximately 11 acres of grading disturbances may result from the reconductoring (replacement of wire) of 16 existing transmission lines. Most of this disturbance is the result of creating pulling pads for wire spool trucks. The above figure represents the aggregate of two different types of transmission lines. Each type is described as follows:

- Transmission Line Reconductoring, steel: 8 transmission lines supported by steel lattice towers or steel poles may be reconductored. Each line would typically be within an existing right-of-way 100' in width and 4 miles in length. Each would begin and terminate at different substations or existing transmission lines. No new access roads or tower sites would be required. Typical ground disturbances for each line would be limited to temporary establishment of 2 wire pulling sites (50' x 200' each). Figure 17 depicts this configuration.
- Transmission Line Reconductoring, wood: 8 transmission lines supported by wood poles may be reconductored. Each line would be within an existing rights-of-way 100' in width and 4 miles in length.

Each would begin and terminate at different substations or at existing transmission lines. No new access roads or poles sites would be required. Typical ground disturbances for each line would include establishment of 4 wire pulling (50' x 200' each). Figure 18 depicts this configuration.

### 4.4.5 Individual Minor Repairs, Overhead Electric Transmission or Distribution

Approximately 20 acres of grading disturbances may result from 240 various minor operational construction and maintenance repairs. Generally, these activities will occur within existing rights-of-way that contain both electric distribution and transmission facilities.

A typical example of an incident might be the replacement of a wooden power pole knocked over by high winds. Repair requirements would require grading to accommodate a new access road (150' x 12') to the site and temporary construction pad (40' x 40') for repair and installation of the replacement pole. Figure 19 depicts the typical configuration of an individual repair incident.

#### 4.4.6 Gas Line Repairs

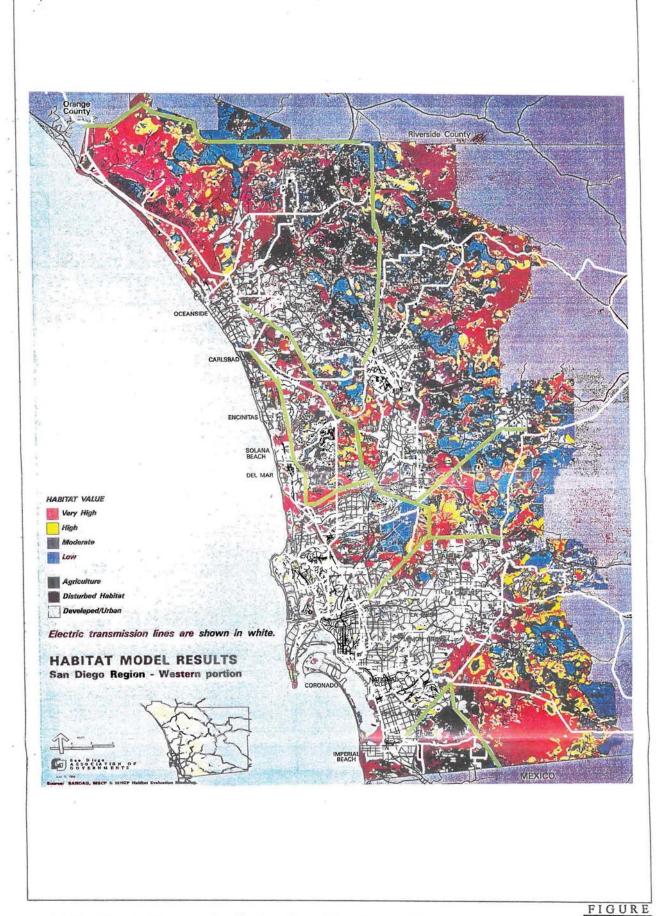
Approximately 19 acres of grading disturbances may result from 3 types of gas line repairs involving leaks, erosion and relocations. The above acreage is an aggregate of 3 types of repairs described as follows:

- Gas Line Leak Repair: 5 leak repair incidents are projected.
   Construction crews would excavate an area around the pipe so that a sleeve could be placed over the leak. The typical trench would be 10' x 100' and would be surrounded by a temporary construction area of 50' x 200'. Figure 20 depicts the typical configuration of an individual leak repair incident.
- Pipeline Relocation: 2 relocations are projected. Relocations due to pipeline failure are rare. A new pipeline alignment and necessary construction equipment would require a temporary construction area of 50' x 300'. Figure 21 depicts the typical configuration of an individual pipeline relocation.
- Gas Line Erosion Repair: 25 repair incidents are projected. These repairs are usually the result of streams eroding the earth from around pipelines and leaving them dangerously exposed. Typical improvements require an area of 50' x 100' so that unwanted fill material can be removed and replaced with recompacted material, erosion control blankets and or protective rip rap rock. An additional

temporary construction area of 150' x 200' would surround the improvement area and would be used for grading equipment, trenching machines, cranes, crew trucks and storage. Figure 22 depicts the typical configuration of an individual gas line erosion repair.

#### 4.4.7 New Gas Transmission

Approximately 8 acres of grading disturbances may result from the construction of one or more new gas transmission lines. This acreage amount is the result of the need for entirely new right-of-way corridor and associated road system.

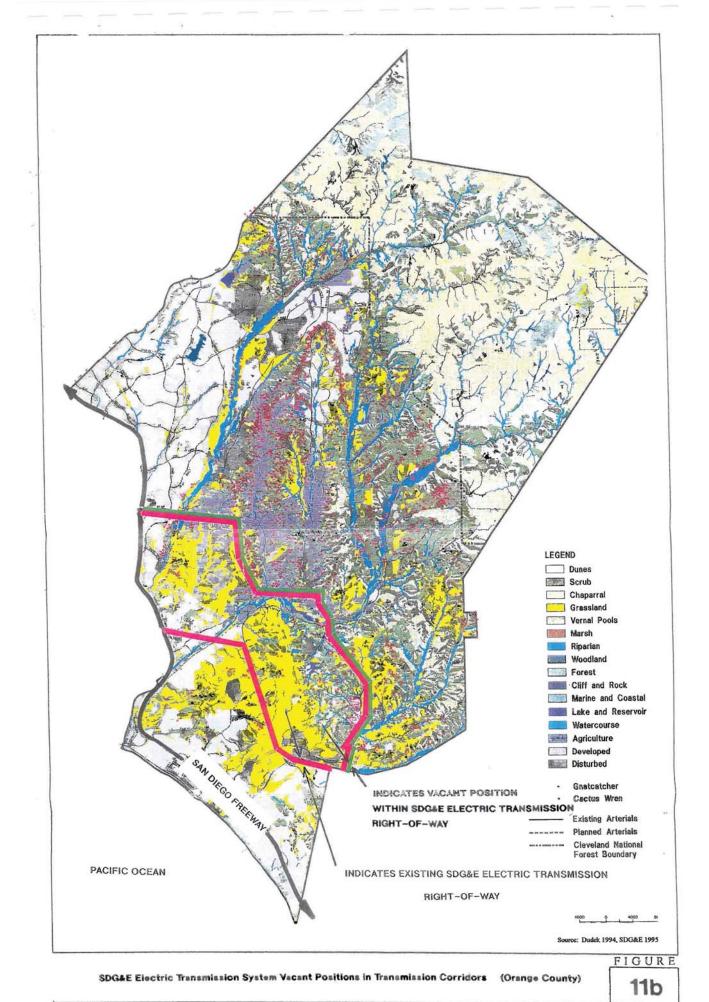


SDG&E Electric Transmssion System Vacant Positions in Transmission Corridors

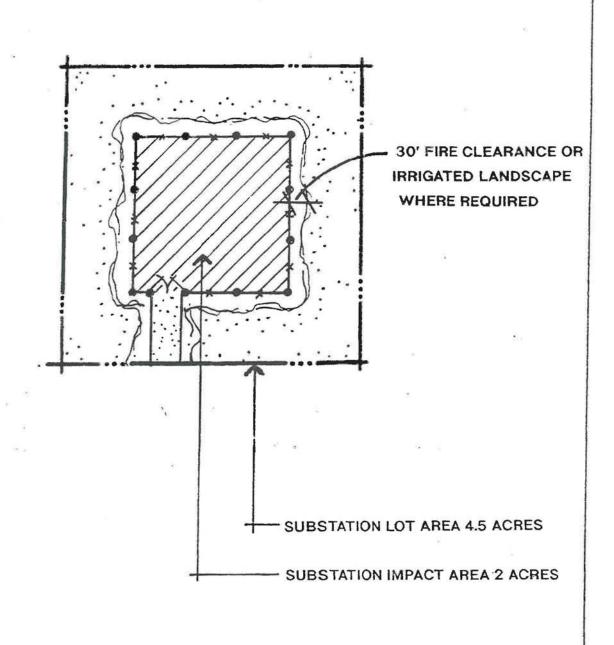
Green Lines Are Vacant Positions

11a





SDGE



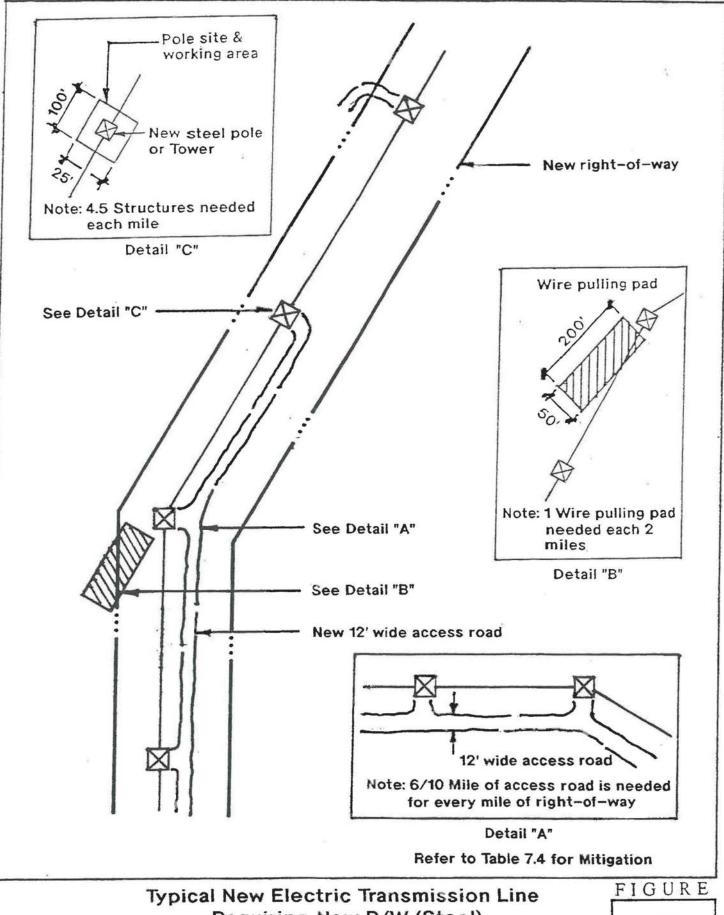
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Typical Substation Impact Diagram

FIGURE

12





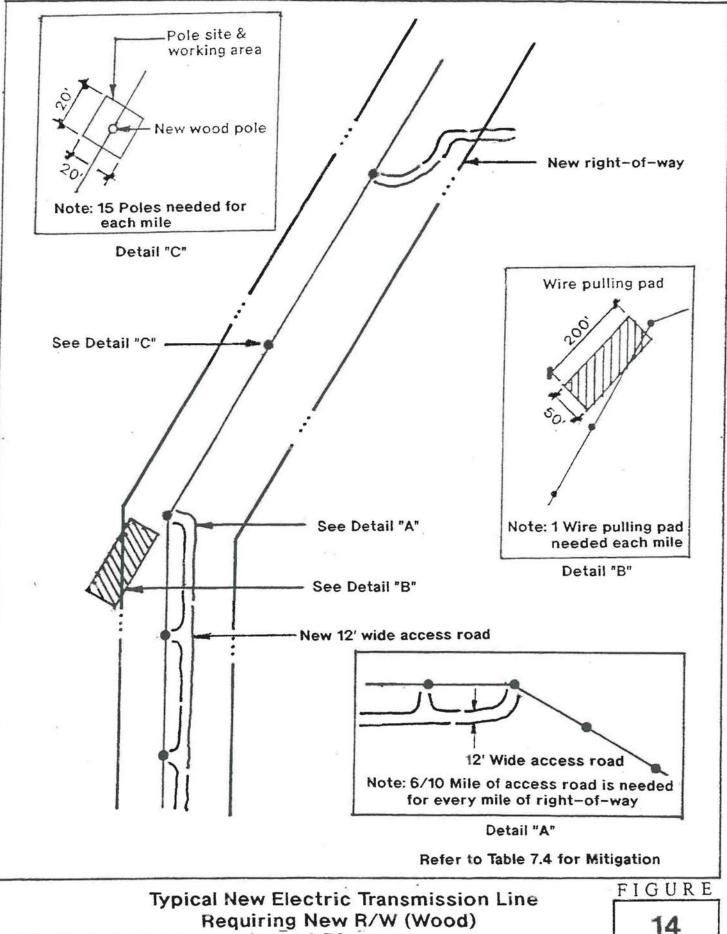
Requiring New R/W (Steel)

13

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Impact Diagram

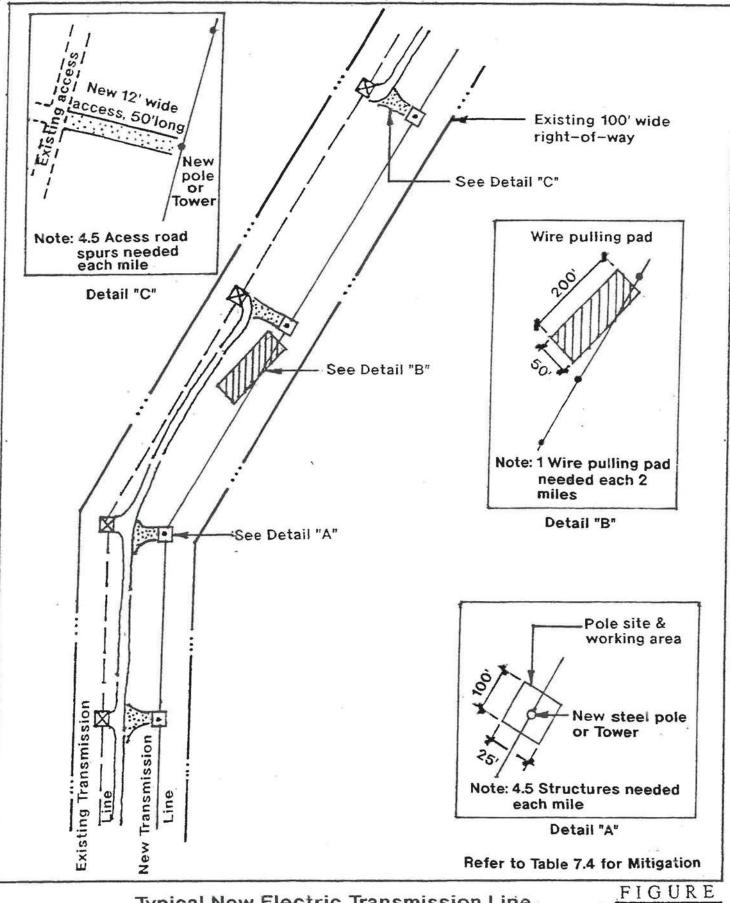




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Impact Diagram



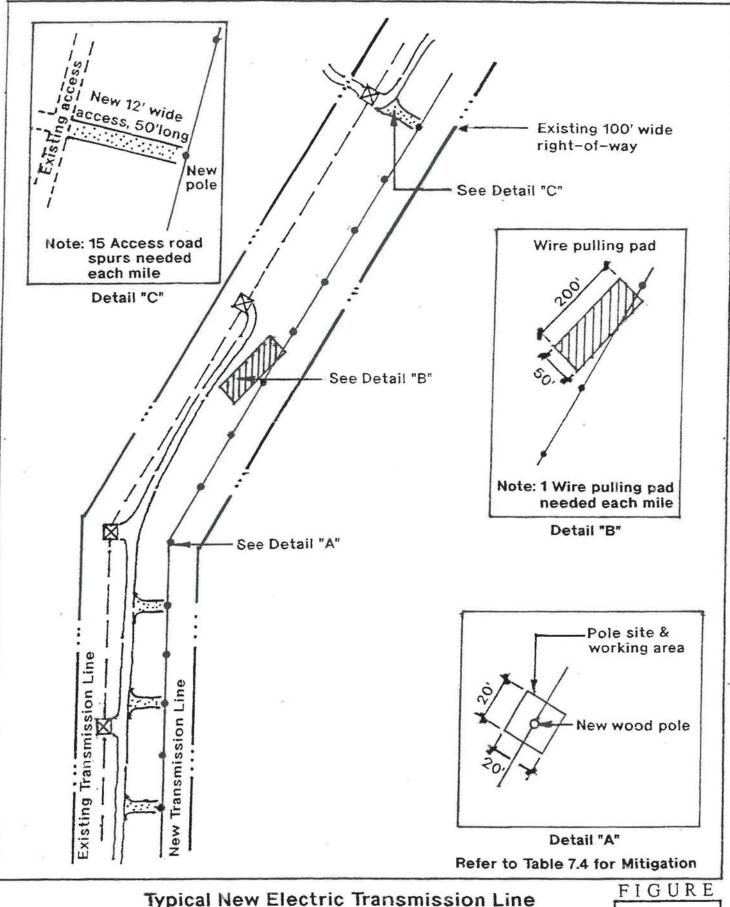


Typical New Electric Transmission Line in Existing R/W (Steel)

15

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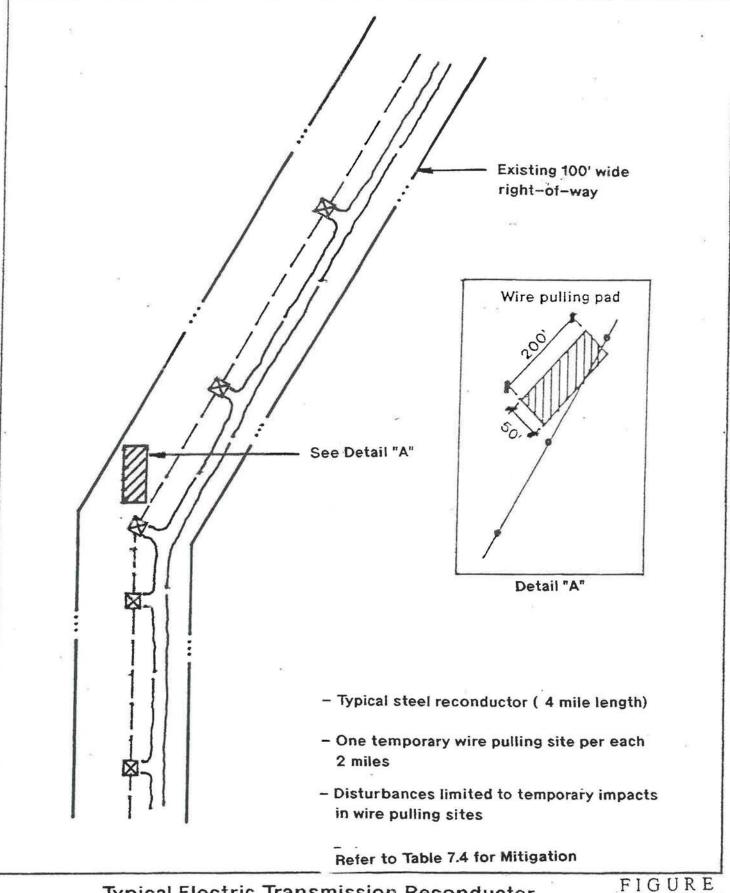


Typical New Electric Transmission Line in Existing R/W (Wood)

16

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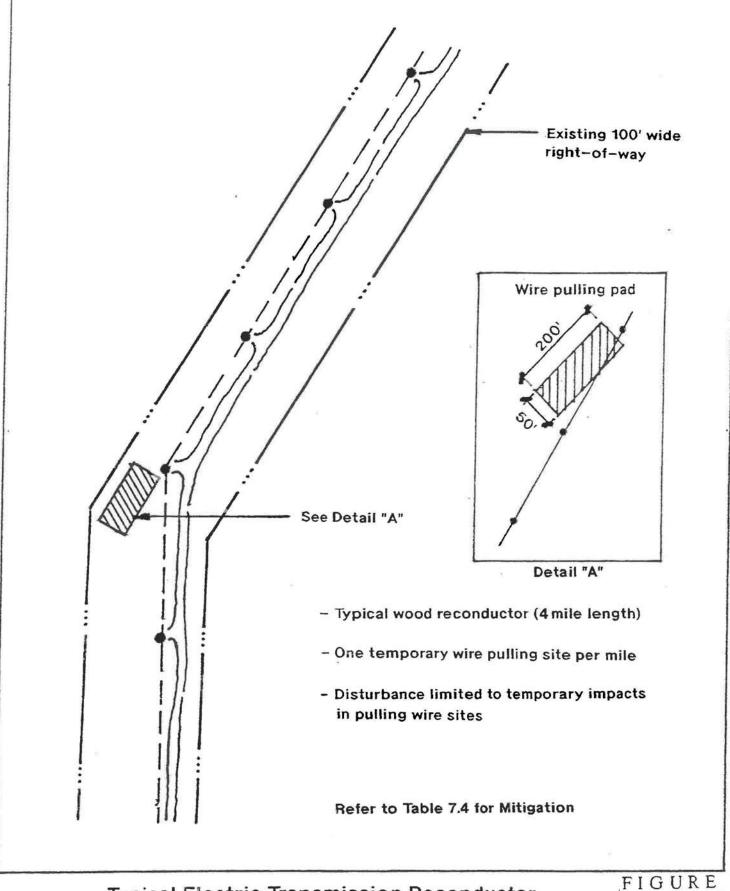


Typical Electric Transmission Reconductor in Existing R/W (Steel)

17

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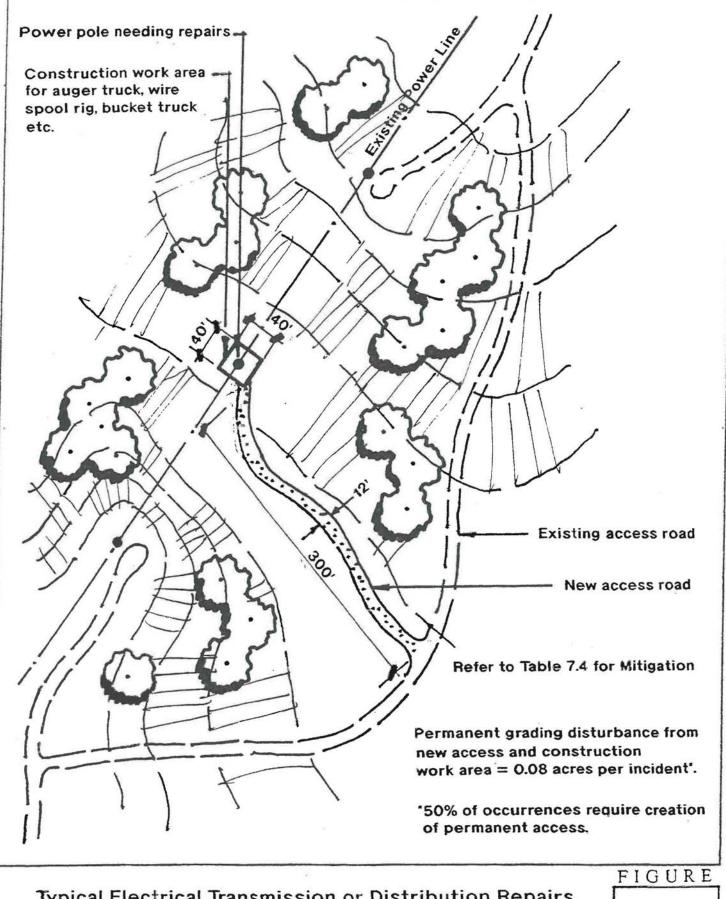


Typical Electric Transmission Reconductor in Existing R/W (Wood)

18

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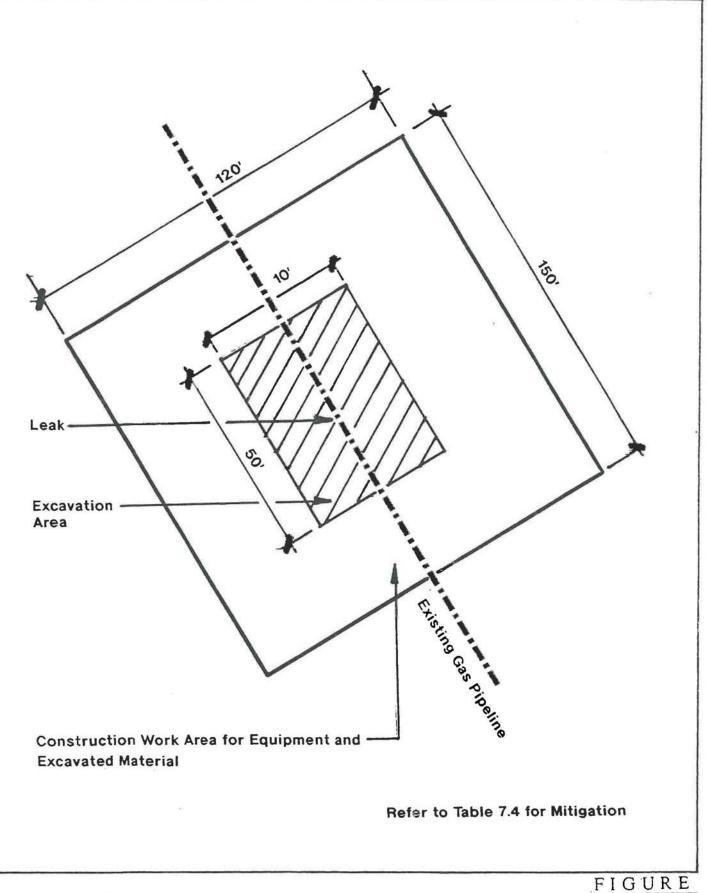


Typical Electrical Transmission or Distribution Repairs
Impact Diagram

19

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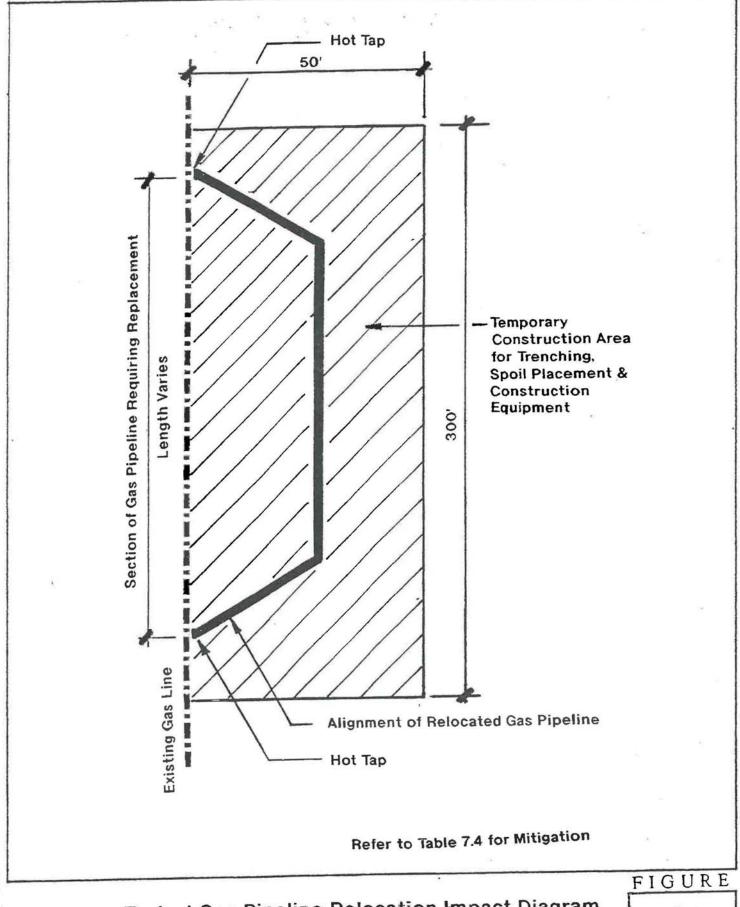


Typical Corrective Action to Repair Gas Pipeline Leak
Impact Diagram

20

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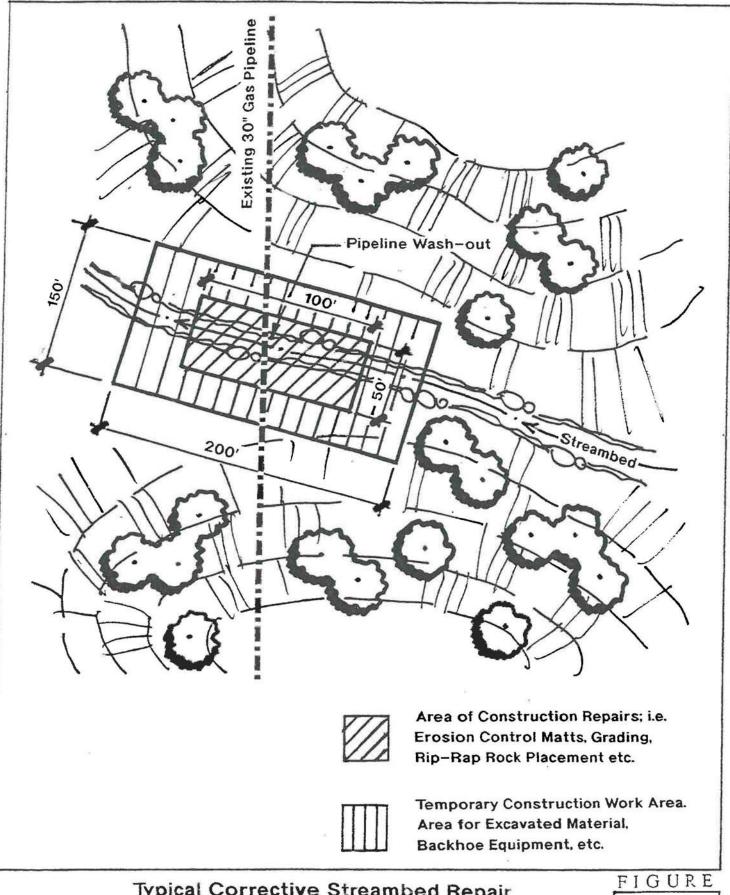


Typical Gas Pipeline Relocation Impact Diagram

21

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Typical Corrective Streambed Repair to Protect Gas Pipeline Impact Diagram

22

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## 5 Relation to Other Regional Habitat Conservation Plans

As of early 1995, a number of subregional and subarea comprehensive habitat and multiple species conservation plans proposed in southern California by various local governments, local bodies, and private entities are nearing the implementation phase of their plans. Included among these plans are the Multiple Species Conservation Plan generated as a part of San Diego's Clean Water Program, San Diego Association of Governments (SANDAG's) Multiple Habitat Conservation Program, the South Orange County NCCP Subregional Plan, the Riverside County Habitat Conservation Plan, and the County of San Diego's Multiple-Habitat Conservation and Open Space Plan. With limited exceptions relating to Preserve Areas in such plans, as described in Section 6, and certain threatened or endangered species with highly restricted habitat as described in Section 3, this Subregional Plan will be fully implemented independent of such other plans.

# 6 SDG&E Activities Within Habitat Conservation Plan Preserves

#### Activities Within Preserve Areas

As generally described in Section 2 of this Subregional Plan, SDG&E Activities will include the maintenance, repair, and replacement of existing Facilities as well as the installation, maintenance, repair, and replacement of new Facilities. Existing Facilities are and new Facilities may be expected to be, in part, located within established Preserve Areas of Habitat Conservation Plans (HCPs), state, federal, or local preserve areas including public and private lands or other areas set aside for the protection of plants and animals. SDG&E's Activities, particularly those related to new Facilities, are responsive to the growth and service needs of SDG&E customers within the Subregional Plan Area. However, SDG&E is not able to predict with any reasonable degree of certainty what the growth and service needs of its customers will be during the term of this Subregional Plan or what Facilities will be needed to meet those needs.

As a part of its efforts to coordinate the implementation of this Subregional Plan with any effective HCP which may be affected by SDG&E Activities, the following agreements will be adhered to for Activities occurring or proposed to occur in preserve areas.

### 6.1 Maintenance, Repair, and Replacement of Existing Facilities

Without further authorization from USFWS or CDFG, SDG&E may conduct all necessary maintenance, repair, and replacement Activities with respect to all existing Facilities which are now or may hereafter be located within a Preserve Area of an HCP, if conducted in accordance with the provisions of this Subregional Plan.

### 6.2 Installation, Maintenance, Repair, and Replacement of New Facilities

### 6.2.1 New Gas and Electric Transmission Facilities

As a result of the extensive, rapid, and continuing development within the Subregional Plan Area, existing and proposed Preserve Areas are or will be dispersed among and in some cases surrounded by developed areas. USFWS and CDFG recognize that as a public utility SDG&E is obligated to provide safe, reliable, efficient, and cost-effective electric and gas service throughout the developed area of its service territory in compliance with the Public Utilities Code and subject to the jurisdiction of the California Public Utilities Commission. Unavoidably, therefore. the construction of new electric and gas transmission Facilities through or within Preserve Areas will be necessary in certain circumstances to meet the service requirements of developing areas. Where SDG&E determines that new electric or gas transmission Facilities are necessary within part of a Preserve Area, it will coordinate with USFWS and CDFG in accordance with the procedure set forth below to plan and construct such new Facilities in a manner which avoids or minimizes any impacts to Covered Species and their habitat, to the extent possible, while not impairing SDG&E's ability to meet the service demands of its customers in accordance with its responsibilities as a public utility.

Whenever SDG&E determines that it is necessary to install a new electric transmission line, or electric substation, or to install a new gas transmission line, or gas regulator station in any part of a Preserve Area, SDG&E shall provide USFWS and CDFG with written notice of its intent to install such Facilities which shall contain a detailed description of such Facilities and of their location, along with a map of the area. At a minimum, the information contained on the pre-activity survey form is required. USFWS and CDFG may request a tour of the proposed site and a staff meeting to discuss it. Within twenty (20) working days of its receipt of SDG&E's notice, USFWS and CDFG shall provide SDG&E with their written response setting forth any objections to and alternatives to the location of the Facilities within the Preserve

Area. Within ten (10) working days of receiving the objections of USFWS of CDFG, or both, SDG&E shall provide USFWS and CDFG with its written reply to their response. Within ten (10) working days of receiving the SDG&E reply, USFWS and CDFG shall approve or deny SDG&E's proposed location for the Facilities within the Preserve Area. If no objections are received by SDG&E from USFWS or CDFG within twenty (20) working days of SDG&E's notice, USFWS and/or CDFG shall be deemed to have concurred with the Activity described in SDG&E's original notice. If USFWS and CDFG denies the location, SDG&E may, within ten (10) working days of receiving such denial appeal to a review panel consisting of Regional Director, USFWS, Director, CDFG, and SDG&E, whose decision shall be final for purposes of this Subregional Plan. The appeal conference must be held within twenty (20) working days.

### 6.2.2 New Gas and Electric Distribution Facilities

The project proponent, other than SDG&E, that is requesting the extension of distribution facilities to serve his/her project shall obtain approval of said extension of facilities as part of their overall project approval.

# 7 Mitigation

The basic formula for addressing the impacts of SDG&E Activities in sensitive resource areas is first to attempt to avoid impacts to Covered Species and their habitats, second to minimize necessary impacts to Covered Species to the extent feasible, and third to mitigate for those unavoidable impacts. The biological mitigation for anticipated impacts of SDG&E Activities takes three forms:

- SDG&E agrees to conduct Activities in an environmentally sensitive manner in accordance with adopted Operational Protocols.
  - SDG&E's Operational Protocols are behavioral and construction techniques which, when employed in the field, represent an environmentally sensitive approach to construction and maintenance. The protocols are primarily based upon impact avoidance and minimization and recognize that often minor adjustments during planning, construction, or maintenance activities can yield major benefits to the environment. Operational Protocols are discussed in detail in Section 7.1.
- SDG&E agrees to allow certain fee-owned rights-of-way to be used for wildlife and habitat preservation.
  - SDG&E will restrict the use and development of certain land owned by SDG&E underlying specific electric transmission facilities and otherwise comprising a part of SDG&E electric transmission rights-of-way, which contain habitat, connect fragmented habitat areas, or which may contribute to the habitat carrying capacity of Preserve Areas managed as a part of other conservation plans. SDG&E will restrict the use and development of such land to SDG&E's utility activities as described in this Subregional Plan through a prohibitory easement granted in favor of USFWS and

CDFG, as more fully described in Section 7.3 of this Subregional Plan and subject to the terms and conditions of the Implementing Agreement.

• SDG&E agrees to cause the conveyance of certain high quality habitat land to USFWS, CDFG, or their designee, as further mitigation measure for unavoidable impacts to Covered Species or their habitat as a result of Activities covered by the Subregional Plan. These lands will comprise the SDG&E Mitigation Credits. Mitigation Credits will be reduced as they are used for mitigation in accordance with the ratios set forth in Section 7.4. The amount of Mitigation Credit to be conveyed has been predicted for the initial term of this Subregional Plan (25 years) based upon the expected impacts to habitat which will result from the Activities covered by the Subregional Plan, as more fully described in Section 4. The use of Mitigation Credits will not be necessary where habitat enhancement measures have been successful as a mitigation measure.

Mitigation Credits which are unused at the expiration or termination of the Subregional Plan shall remain available for utilization, as appropriate, as mitigation for any project or action which may be required under CEQA, NEPA, or other environmental or natural resource law, as more fully described in the Implementing Agreement.

As more fully described in the Implementing Agreement, USFWS, CDFG, and SDG&E agree that, absent Unforeseen Circumstances, the mitigation measures provided in this Subregional Plan constitute the only mitigation measures that shall be required for any activity covered by the Subregional Plan where it results in an impact to a Covered Species or its habitat.

# 7.1 Operational Protocols

Operational protocols represent an environmentally sensitive approach to traditional utility construction, maintenance and repair Activities recognizing that slight adjustments in construction techniques can yield major benefits for the environment. The appropriate Operational Protocols for each individual project will be determined and documented by the Environmental Surveyor. The information regarding the qualifications and responsibilities of the environmental surveyor is contained in Appendix B. The following mitigation measures shall be adhered to by SDG&E.

### 7.1.1 General Behavior for All Field Personnel

- Vehicles must be kept on access roads. A 15 mile-per-hour speed limit shall be observed on dirt access roads to allow reptile species to disperse. Vehicles must be turned around in established or designated areas only.
- 2. No wildlife, including rattlesnakes, may be harmed, except to protect life and limb.
- Firearms shall be prohibited on the rights-of-way except for those used by security personnel.
- 4. Feeding of wildlife is not allowed.
- SDG&E personnel are not allowed to bring pets on the rights-of-way in order to minimize harassment or killing of wildlife and to prevent the introduction of destructive domestic animal diseases to native wildlife populations.
- Parking or driving underneath oak trees is not allowed in order to protect root structures except in established traffic areas.

- 7. Plant or wildlife species may not be collected for pets or any other reason.
- Littering is not allowed. SDG&E shall not deposit or leave any food or waste on the rights-of-way or adjacent property.
- 9. Wild Fires shall be prevented or minimized by exercising care when driving and by not parking vehicles where catalytic converters can ignite dry vegetation. In times of high fire hazard, it may be necessary for trucks to carry water and shovels, or fire extinguishers in the field. The use of shields, protective mats, or other fire prevention methods shall be used during grinding and welding to prevent or minimize the potential for fire. Care should be exhibited when smoking in natural habitats.
- 10. Field crews shall refer environmental issues including wildlife relocation, dead or sick wildlife, hazardous waste, or questions about avoiding environmental impacts to the Environmental Surveyor. Biologists or experts in wildlife handling may need to be brought in by Environmental Surveyor for assistance with wildlife relocations.

### 7.1.2 Training

- 11. All SDG&E personnel working within the project area shall participate in an employee training program conducted by SDG&E, with annual updates. The program will consist of a brief discussion of endangered species biology and the legal protections afforded to Covered Species; a discussion of the biology of the Covered Species protected under this Subregional Plan; the habitat requirements of these Covered Species; their status under the Endangered Species Acts; measures being taken for the protection of Covered Species and their habitats under this Subregional Plan; and a review of the Operational Protocols. A fact sheet conveying this information will also be distributed to all employees working in the project area.
- 12. Designated SDG&E staff will conduct selected reviews of SDG&E operations. Any proposed modifications to Operational Protocols, procedures or conditions will be promptly provided to CDFG and USFWS for their review and input for required permit or Subregional Plan amendments.

### 7.1.3 Preactivity Studies

13. The Environmental Surveyor shall conduct preactivity studies for all activities occurring off of access roads in natural areas. The scope of these studies is included in Appendix A. The Environmental Surveyor will complete a preactivity study form contained in Appendix A, including recommendations for review by a biologist and construction monitoring as appropriate. Biologists should be called in when there is the potential for unavoidable impacts to Covered Species. The forms are for information only, and will not require CDFG or USFWS approval. These forms shall be faxed to CDFG and USFWS, along with phone notification, who will reply within 5 working days, indicating if they would like to review the project and/or suggest recommendations for post project monitoring. If a biologist is required, he/she will be contacted concurrent to notification to CDFG and USFWS. SDG&E's project may proceed during this time if necessary, in compliance with the recommendations of the biologist (For narrow endemic species see mitigation IV following Table 3.1). USFWS survey protocols performed by qualified biologists will be required for new projects which are defined as projects requiring CEQA review.

In those situations where the Environmental Surveyor cannot make a definitive species

identification, an on-call biologist will be brought in. When the biologist is called, he or she will be contacted concurrently with CDFG and USFWS. The biologist will make the determination of the species in question and recommend avoidance or mitigation approaches to the Environmental Surveyor and a decision will be made. In those situations where more than one visit may be necessary to identify a given species, such as certain birds, no more than three site visits shall be required. It is expected that the typical USFWS search protocols will not be utilized in most situations due to the Plan's avoidance priority. Background information necessary to complete the annual report shall be collected on the preactivity study form and used by SDG&E to prepare the annual report.

- 14. In order to ensure that habitats are not inadvertently impacted, the Environmental Surveyor shall determine the extent of habitat and flag boundaries of habitats which must be avoided. When necessary, the Environmental Surveyor should also demark appropriate equipment laydown areas, vehicle turn around areas, and pads for placement of large construction equipment such as cranes, bucket trucks, augers, etc. When appropriate, the Environmental Surveyor shall make office and/or field presentations to field staff to review and become familiar with natural resources to be protected on a project specific basis.
- 15. SDG&E will maintain a library of rare plant locations known to SDG&E occurring within easements and fee owned properties. "Known" means a verified population, either extant or documented using record data. Information on known sites may come from a variety of record data sources including local agency Habitat Conservation Plans, pre-activity surveys, or biological surveys conducted for environmental compliance on a project site (e.g. initial study), but there is no requirement for development of original biological data. Plant inventories shall be consulted as part of pre-activity survey procedures.

### 7.1.4 Maintenance, Repair and Construction of Facilities

- 16. Maintenance, repair and construction Activities shall be designed and implemented to minimize new disturbance, erosion on manufactured and other slopes, and off-site degradation from accelerated sedimentation, and to reduce maintenance and repair costs.
- 17. Routine maintenance of all Facilities includes visual inspections on a regular basis, conducted from vehicles driven on the access roads where possible. If it is necessary to inspect areas which cannot be seen from the roads, the inspection shall be done on foot, or from the air.
- 18. When the view of a gas transmission line marker becomes obscured by vegetation on a regular basis requiring repeated habitat removal, consideration shall be given to the replacement of markers with taller versions.
- 19. Erosion will be minimized on access roads and other locations primarily with water bars. The water bars are mounds of soil shaped to direct flow and prevent erosion.
- 20. Hydrologic impacts will be minimized through the use of state-of-the-art technical design and construction techniques to minimize ponding, eliminate flood hazards, and avoid erosion and siltation into any creeks, streams, rivers, or bodies of water by use of Best Management Practices.

- 21. When siting new facilities, every effort will be made to cross the wetland habitat perpendicular to the watercourse, spanning the watercourse to minimize the amount of disturbance to riparian areas (See Figure 4).
- 22. Gas and other facilities cross streambeds and require maintenance and repair. During such times water may be temporarily diverted as long as after disturbance natural drainage patterns are restored to minimize the impact of the disturbance and help to reestablish or enhance the native habitat. Erosion control during construction in the form of intermittent check dams and culverts should also be considered to prevent alteration to natural drainage patterns and prevent siltation.
- Impacts to wetlands shall be minimized by avoiding pushing soil or brush into washes or ravines.
- During work on facilities, all trucks, tools, and equipment should be kept on existing access roads or cleared areas, to the extent possible.
- 25. Environmental Surveyor must approve of activity prior to working in sensitive areas where disturbance to habitat may be unavoidable.
- Insulator washing is allowed from access roads if other applicable protocols are followed.
- 27. Brush clearing around facilities for fire protection shall not be conducted from March through August without prior approval by the Environmental Surveyor. The Environmental Surveyor will make sure that the habitat contains no active nests, burrows, or dens prior to clearing.
- 28. In the event SDG&E identifies a covered species of plant within a 10' radius around power poles, which is the area required to be cleared for fire protection purposes, SDG&E shall notify USFWS (for ESA listed plants), and CDFG (for CESA listed plants), in writing, of the plant's identity and location and of the proposed Activity, which will result in a Take of such plant. Notification will occur ten (10) working days prior to such Activity, during which time USFWS or CDFG may remove such plant(s). If neither USFWS or CDFG have removed such plant(s) within the ten (10) working days following the notice, SDG&E may proceed to complete its fire clearing and cause a Take of such plant(s).

When fire clearing is necessary in instances other than around power poles, and the potential for impacts to Covered Species exists, SDG&E will follow the preactivity study and notification procedures in Operational Protocol number 13.

- 29. Wire stringing is allowed year round in sensitive habitats if conductor is not allowed to drag on ground or in brush and vehicles remain on access roads.
- 30. Maintenance of cut and fill slopes shall consist primarily of erosion repair. In situations where revegetation would improve the success of erosion control, planting or seeding with native hydroseed mix may be done on slopes.
- 31. Spoils created during maintenance operations shall be disposed of only on previously disturbed areas designated by the Environmental Surveyor or used immediately to fill eroded areas. Cleared vegetation shall be hauled off the rights-of-way to a permitted disposal location.

- 32. Within 6 months of Plan approval, environmentally sensitive tree trimming locations will be identified in the tree trim computer data base system utilized by tree trim contractors. (This data base also tracks the date of each tree trim, type of tree, where threatening dogs reside, etc.). The Environmental Surveyor should be contacted to perform a preactivity survey when trimming is planned in environmentally sensitive areas. Whenever possible, trees in environmentally sensitive areas (determined by CDFG and SDG&E) will be scheduled for trimming in the non-sensitive times.
- 33. No new Facilities and Activities shall be planned which disturb vernal pools, their watersheds, or impact their natural regeneration. Continued historic maintenance of existing infrastructure utilizing existing access roads is allowed to continue in areas containing vernal pool habitat. New construction of overhead infrastructure which spans vernal pool habitats is allowed as long as the placement of facilities or the associated construction activities in no way impact the vernal pools.
- 34. If any previously unidentified dens, burrows, or plants are located on any project site after the preactivity survey, the Environmental Surveyor shall be contacted. Environmental Surveyor will determine how to best avoid or minimize impacting the resource by considering such methods as project or work plan redevelopment, equipment placement or construction method modification, seasonal/time of day limitations, etc...
- 35. The Environmental Surveyor shall conduct monitoring as recommended in the preactivity survey report. At completion of work, the Environmental Surveyor shall check to verify compliance, including observing that flagged areas have been avoided and that reclamation has been properly implemented. Also at completion of work, the Environmental Surveyor is responsible for removing all habitat flagging from the construction site.
- 36. The Environmental Surveyor shall conduct checks on mowing procedures, to ensure that mowing is limited to a 12-foot wide area on straight portions of the road (slightly wider on radius turns), and that the mowing height is no less than 4 inches.
- 37. Supplies or equipment where wildlife could hide (e.g., pipes, culverts, pole holes) shall be inspected prior to moving or working on them to reduce the potential for injury to wildlife. Supplies or equipment that cannot be inspected or from which animals could not be removed shall be capped or otherwise covered at the end of each work day. Old piping or other supplies that have been left open, shall not be capped until inspected and any species found in it allowed to escape. Ramping shall be provided in open trenches when necessary. If an animal is found entrapped in supplies or equipment, such as a pipe section, the supplies or equipment shall be avoided and the animal(s) left to leave on its own accord, except as otherwise authorized by CDFG.
- 38. All steep-walled trenches or excavations used during construction shall be inspected twice daily (early morning and evening) to protect against wildlife entrapment. If wildlife are located in the trench or excavation, the Environmental Surveyor shall be called immediately to remove them if they cannot escape unimpeded.
- 39. Large amounts of fugitive dust could interfere with photosynthesis. Fugitive dust created during clearing, grading, earth-moving, excavation or other construction activities will be controlled by regular watering. At all times, fugitive dust emissions will be controlled by limiting on-site vehicle speed to 15 miles per hour.

40. Before using pesticides in areas where burrowing owls may be found, a pre-activity survey will be conducted.

#### 7.1.5 Maintenance of access roads shall consist of:

- 41. Repair of erosion by grading, addition of fill, and compacting. In each case of repair, the total area of disturbance shall be minimized by careful access and use of appropriately sized equipment. Repairs shall be done after preactivity surveys conducted by the Environmental Surveyor and in accordance with the recommendations regarding construction monitoring and relevant protocols. Consideration should be given to source of erosion problem, when source is within control of SDG&E.
- 42. Vegetation control through grading should be used only where the vegetation obscures the inspection of facilities, access may be entirely lost, or the threat of Facility failure or fire hazard exists. The graded access road area should not exceed 12'-wide on straight portions (radius turns may be slightly wider) (See Figure 23).
- 43. Mowing habitat can be an effective method for protecting the vegetative understory while at the same time creating access to a work area. Mowing should be used when permanent access is not required since, with time, total revegetation is expected. If mowing is in response to a permanent access need, but the alternative of grading is undesirable because of downstream siltation potential, it should be recognized that periodic mowing will be necessary to maintain permanent access.
- Maintenance work on access roads should not expand the existing road bed (See Figure 23).
- 45. Material for filling in road ruts should never be obtained from the sides of the road which contain habitat without approval from Environmental Surveyor..

### 7.1.6 Construction of new access roads shall comply with the following:

- 46. SDG&E access roads will be designed and constructed according to the SDG&E Guide for Encroachment on Transmission Rights-of-Way (4/91).
- Access roads will be made available to managers of the regional preserve system subject to coordination with SDG&E.
- 48. New access roads shall be designed to be placed in previously disturbed areas and areas which require the least amount of grading in sensitive areas during construction whenever possible (See Figure 5). Preference shall be given to the use of stub roads rather than linking facilities tangentially.
- SDG&E will consider providing access control on access roads leading into the regional preserve system where such control provides benefit to sensitive resources.
- 50. New access road construction is allowed year round. Every effort shall be made to avoid constructing roads during the nesting season. During the nesting season, the presence or absence of nesting species shall be determined by a biologist and appropriate avoidance and minimization recommendations followed.

### 7.1.7 Construction and Maintenance of Access Roads Through Streambeds

- Construction of new access roads through streambeds requires a Streambed Alteration Agreement from CDFG and/or consultation with the Army Corps of Engineers.
- 52. Maintenance or construction vehicle access through shallow creeks or streams is allowed. However, no filling for access purposes in waterways is allowed without the installation of appropriately sized culverts. The use of geotextile matting should be considered when it would protect wetland species.
- 53. Staging/storage areas for equipment and materials shall be located outside of riparian areas. (See Figure 23).

### 7.1.8 Survey Work

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- 54. Brush clearing for foot paths or line-of-sight cutting is not allowed from March through August in sensitive habitats without prior approval from the Environmental Surveyor, who will ensure that activity does not adversely affect a sensitive species.
- 55. SDG&E survey personnel must keep vehicles on existing access roads. No clearing of brush for panel point placement is allowed from March through August without prior approval from the Environmental Surveyor.
- Hiking off roads or paths for survey data collection is allowed year round so long as other protocols are met.

### 7.1.9 Emergency Repairs

- 57. During a system emergency, unnecessary carelessness which results in environmental damage is prohibited.
- 58. Emergency repair of facilities is required in situations which potentially or immediately threaten the integrity of the SDG&E system, such as pipe leaks, or downed lines, slumps, slides, major subsidence, etc. During emergency repairs the Operational Protocols contained in this Subregional Plan shall continued to be followed to fullest extent possible.
- 59. Once the emergency has stabilized, any unavoidable environmental damage will be reported to the Environmental Surveyor by the foreman. The Environmental Surveyor will develop a mitigation plan and ensure its implementation is consistent with this Subregional Plan.

### 7.1.10 Activities of Underlying Fee Owners

- 60. Most SDG&E rights-of-way are held in easement only. The activities of underlying fee owners cannot be controlled by SDG&E and are not covered by this Subregional Plan.
- 61. When sensitive habitat exists on either side of a utility right-of-way, SDG&E will not oppose underlying fee owners dedicating said property to conservation purposes. Underlying fee owners are expected to comply with applicable federal, state, and local regulations.

# 7.2 Habitat Enhancement Measures

The purpose of this section is to describe the techniques and permit the substitution of habitat enhancement measures when it is more beneficial than the use of mitigation credits. Habitat enhancement increases the value of biological resources in an impacted area, thereby improving the value of that habitat for Covered Species. Habitat enhancement activities shall occur under the direction of a Habitat Restoration Specialist. All disturbed areas, whether inside or outside of preserves, and which do not need to be maintained in a cleared state, shall be enhanced, either through vegetation restoration, habitat reclamation, or a combination of the two. Vegetation restoration entails a range of techniques.

For SDG&E Activities occurring within the Preserve, and for SDG&E Activities affecting riparian/wetland areas, the particular enhancement methodology will be proposed by SDG&E, with USFWS and CDFG concurring prior to implementation. For all other areas outside of the Preserve, SDG&E has discretion over the enhancement method selected, although it is expected that a standard coastal sage scrub seed mix will be used for reseeding many disturbed areas. For impacts both within and outside Preserve, if habitat enhancement is not selected, or is not successful according to the criteria specified in the mitigation flow chart (Figure 24), then a deduction from the SDG&E Mitigation Credits shall be made in accordance with ratios contained in Section 7.4. For all temporary impacts greater than 500 square feet, acreage not meeting success criteria shall be deducted from SDG&E mitigation credits at a 1:1 ratio. For areas of less than 500 square feet, success criteria will not be required to be met. In such areas, refer to erosion control measures contained in Section 7.1.

### 7.2.1 Vegetation Restoration

The Habitat Restoration Specialist has a range of vegetation restoration techniques from which to choose:

### Hydroseeding

Vegetation restoration will typically be done using a native seed mix obtained from a commercial seed provider and shall be applied by hydroseeding. For hydroseeding inside the Preserve areas, seed will be obtained from the local gene-pool and similar composition to the reference site.

Vegetation restoration shall be conducted from mid-November through mid-January to take advantage of rainy season precipitation, and should not be artificially irrigated.

Seed mix specifications and application techniques shall be provided by the Habitat Restoration Specialist, who will be an acknowledged specialist in native habitat restoration or a plant ecologist with experience developing native restoration plans in Southern California. The Habitat Restoration Specialist will be responsible for restoration plans within the Preserve.

If restoration lands contain areas used for temporary roads, staging areas, or other intensive activities, the soil may become so compacted that revegetation is difficult. In cases such as this, disking and plowing the compacted soil will loosen it and improve the success of hydroseed revegetation. Disking may also foster weed growth and should only be used where an influx of weeds would not adversely affect adjacent native plant communities.

Consideration shall be given to supplemental planting of species of concern in areas where it is desirable to expand existing colonies. For example, supplemental planting may be highly desirable in areas containing chollas or prickly pear cactus. Supplemental planting and plant relocation should only be done in disturbed areas that are thought to be suitable. Habitat conversion and impacts to extant native vegetation should be avoided.

### Hand-Seeding

Seed may be applied by hand and raked into the top inch of soil. This method is best suited for small areas and areas that are inaccessible to a hydroseed truck.

### **Imprinting**

Imprinting is the mechanical formation of smooth-walled V-shaped furrows in the soil surface, application of seed and injection of beneficial mycorrhizal fungi into the soil surface. This method is best suited for areas that are accessible by bulldozer and where there is a potential problem with weeds.

### Soil and Plant Salvage

Native vegetation from the area to be impacted should be removed, mulched and stockpiled separately. Top soil should also be removed and stockpiled separately. Following construction activities, the top soil should be replaced and covered with the mulch. The top soil and mulch both have native propagules and the mulch reduces the erosion potential. This method is well suited for temporary roads, staging areas, or other intensive activities.

### Quality Assurance

Monitoring, involving visual inspection, shall be conducted on restoration sites after one year. A second application may be made. If, after one more year, restoration is deemed unsuccessful, the wildlife agencies, in cooperation with SDG&E, will determine whether the remaining loss shall be mitigated through a deduction from the SDG&E Mitigation Credits, or a third application would better achieve the intended purpose.

Coverage standards will be based on comparisons with established stands of the target vegetation, or another reference area. The means of determining success should be based on estimates of cover by native species, cover of exotic species, and diversity of native species. The cover of native species should increase and the cover of weed species should decrease, eventually approximating the reference area. The reference areas should be a nearby stand of vegetation that the restoration is attempting to emulate. It should have a similar aspect, slope, and soil type.

Cover for the restoration and references areas should be estimated using repeatable cover classes. One tested system is as follows:

Cover Class	1	2	3	4	5	6
% Cover	0-5	5-25	25-50	50-75	75-95	95-100
Mean Cover	2.5	15	37.5	62.5	85	97.5

#### SUCCESS CRITERIA MILESTONES

<u>Criteria*</u>	Year 1	Year 2	
Cover by Exotic Species**	140%	130%	
Cover by Native Species (trees shrubs and herbaceous species)	60%	70%	
*Values are relative to reference **Percent total cover	ence area		*

### 7.2.2 Habitat Reclamation

Habitat reclamation techniques should be considered when re-seeding would be an ineffective habitat enhancement due to the presence of stronger and more prolific exotic vegetation in the proximity.

Habitat reclamation involves the elimination of existing exotic vegetation (weed abatement) to facilitate the natural re-colonization of a native habitat. An example of where habitat reclamation would be appropriate is in wetland areas containing tamarisk or giant reed.

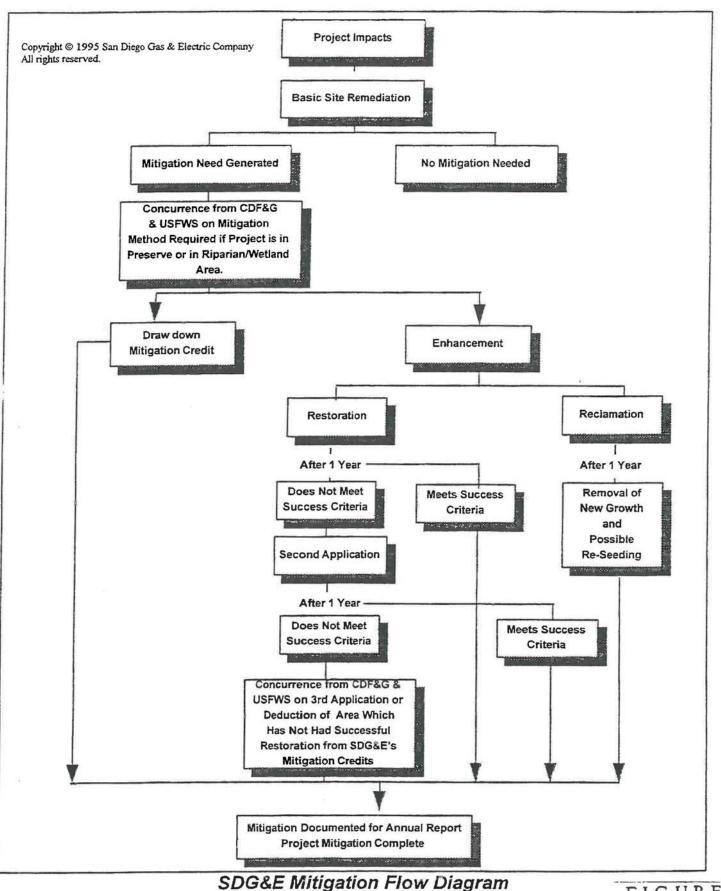
In order to avoid net loss of wetland and riparian habitat, exotic species should be removed at a 2:1 ratio. Exotics should be removed from the site and disposed of off-site. Soil should be prepared for new native growth to occur. In areas larger than 500 square feet, reseeding will supplement the recovery of native vegetation

Reclamation shall be limited to initial removal and one-time removal of new growth within one year if necessary. In certain cases, such as with Arundo removal, it may be necessary to clear invasive vegetation a third time. Once weeds are controlled, if extensive reclamation is undertaken, supplemental planting may be necessary to keep weeds out.

The habitat reclamation shall be done under the direction of the Habitat Restoration Specialist who will determine the abatement technique to be used and the area in the vicinity of the project site on which abatement would be most effective in facilitating reclamation on the project site.

### 7.2.3 Procedure

(Refer to Figure 24). Figure 24 -- Mitigation Flow Diagram



SDGE

SDG&E Mitigation Flow Diagram (For Temporary Disturbances)

FIGURE

# 7.3 Fee-Owned Rights-of-Way

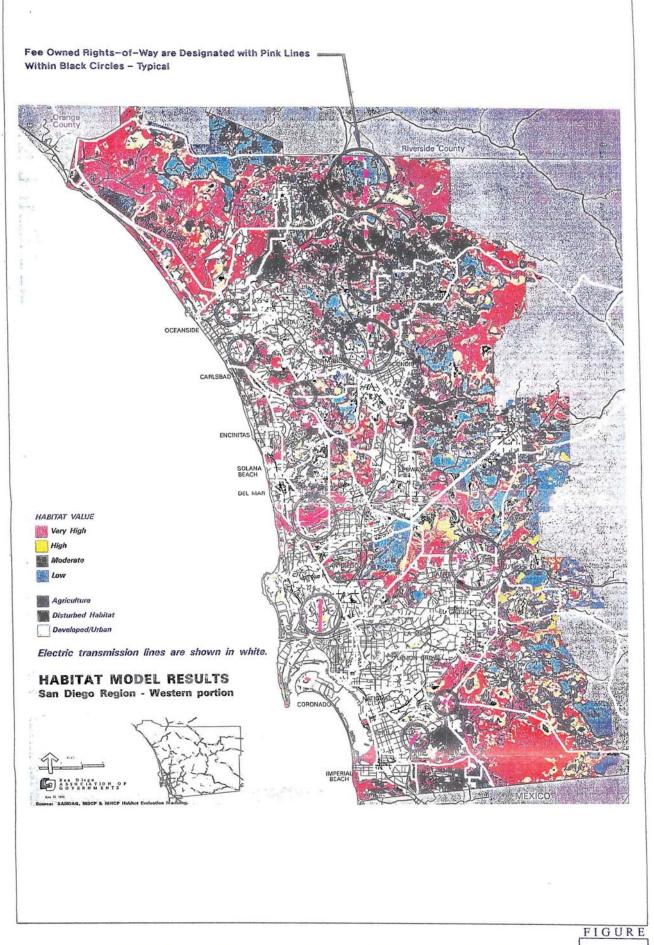
Certain of SDG&E's electric transmission rights-of-way consist of real property owned in fee by SDG&E. Such fee owned rights-of-way are of various widths and cover a variety of habitat types. Some of the fee-owned rights-of-way may serve as the foundation for the creation by USFWS and CDFG of valuable wildlife corridors between Preserve Areas. The fee-owned rights-of-way subject to this subsection are identified on Figure 25a and 25b.

As a further mitigation measure, SDG&E will restrict the use and development of such lands to those SDG&E activities covered by this Subregional Plan. Subject to the terms and conditions of the Implementing Agreement, SDG&E shall effect such use and development restriction by granting a prohibitory easement in favor of USFWS and CDFG, or their designee, to be recorded in County Recorder's Office for the County in which such land is located.

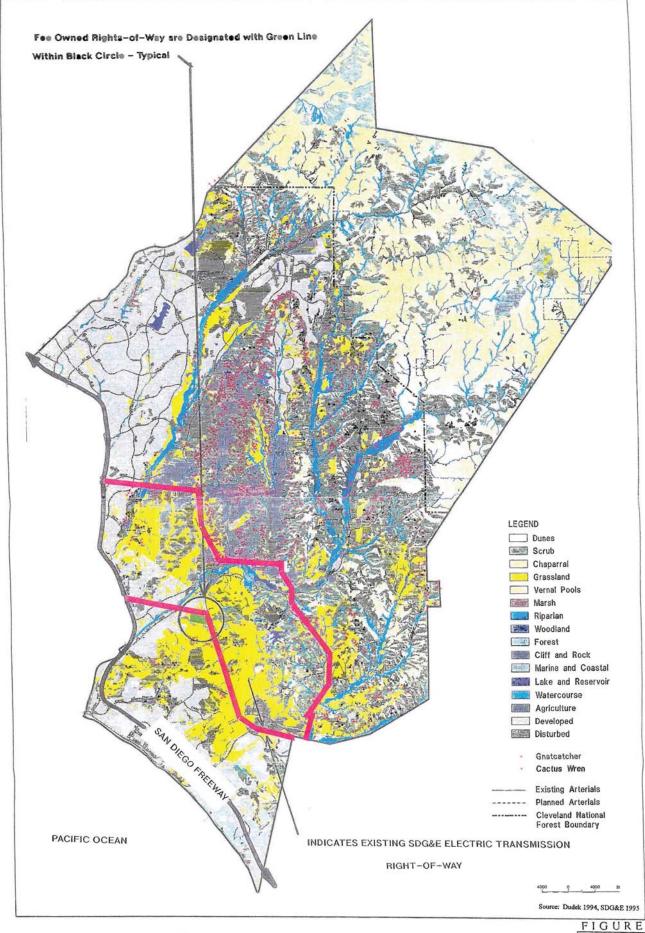
To assist in the creation of these corridors, SDG&E agrees that it will not, and that it will not allow any other person, to use such rights-of-way for any purpose other than for SDG&E Activities conducted in accordance with this Agreement, the Permits and the Subregional Plan. SDG&E's agreement to limit its use of such rights-of-way shall remain effective for so long as USFWS and CDFG continuously uses such rights-of-way in combination with other real property rights acquired by USFWS and CDFG in adjoining property, the use of which is subject to similar limited or restricted uses, to establish functional and effective corridors for Covered Species between separated Habitat and Preserve Areas, and, for so long as such corridors are properly functioning and necessary

for the conservation of Covered Species. SDG&E's agreement to limit the use of such rights-of-way will be memorialized in a negative or open space easement in favor of USFWS and CDFG, or their designee, and recorded in the County Recorder's Office for the county in which such rights-of-way are located. Such easement shall be substantially in the form of the easement attached hereto. However, in the event that any of such rights-of-way shall cease to be an essential element of a properly functioning, effective and necessary corridor, all easement rights conveyed by SDG&E affecting any such right-of-way shall terminate and revert back to SDG&E without limitation or reservation.

To the extent SDG&E rights-of-way extend over land in which it does not hold an undivided fee ownership interest, SDG&E agrees to approve of and when appropriate, encourage the conveyance, grant or dedication of such land by the fee owner to any relevant Habitat Conservation Planning Management entity for wildlife conservation purposes; provided, however, any such conveyance, grant or dedication shall be subject to the authorizations and Permitted Activities granted by USFWS and CDFG to SDG&E herein and to the rights of SDG&E to use such property for public utility purposes to the extent SDG&E held such rights, in law or in equity, at the time of such conveyance, grant or dedication. SDG&E further agrees, where the company's land rights allow, to prevent the underlying land owner from removing habitat within rights-of-way of significant habitat value to the extent feasible.



25a



SDG&E Electric Transmission System Foo Owned Rights-of-Way

25b

### 7.4 Mitigation Credits

SDG&E will provide the USFWS and the CDFG with funds to enable the procurement of approximately 240 acres of high quality habitat land. The provision of such funds will create a conservation bank in favor of SDG&E in which SDG&E will hold approximately 240 acres of Mitigation Credits for impacts to covered species or their habitats which result from SDG&E Activities. Mitigation Credits associated with the SDG&E Subregional Plan will be drawn upon and deducted from available Mitigation Credits to mitigate for unavoidable impacts associated with SDG&E Activities. Habitat enhancement opportunities may be available and pursued prior to such deductions being taken from the SDG&E Mitigation Credits as discussed in Section 7.2.

The habitat associated with the SDG&E Mitigation Credits is of very high value. The location and configuration of the land will play a critical role in meeting region-wide conservation goals. As such, the Mitigation Credits serve as mitigation for both in-kind and out-of-kind covered species and habitat impacts, without regard to the type of habitat and the biological value of the habitat impacted, except with regard to wetlands falling within the jurisdiction of the Army Corps of Engineers pursuant to Section 10 of the Rivers and Harbors Act and Sections 403 and 404 of the Clean Water Act.

In the Annual Report which will be prepared as a condition of this Plan, the general condition of the habitat assoicated with the Mitigation Credits will be discussed, with special attention paid to changes in the habitat such as from stochastic events like fires and drought. The Report will also include a table showing how many credits were used from the Mitigation Credits (expressed in acres) and how many are left.

Also in the Annual Report will be an analysis jointly prepared by SDG&E, CDFG and USFWS on the performance of the management entity who are overseeing the day-to-day

operations of the habitat associated with the Mitigation Credits. It may be necessary based on the outcome of that reporting to transfer control to CDFG or USFWS, if all of the parties agree.

The ratio between impacts from Activities and corresponding deductions from the Mitigation Credits are as follows:

Table 7.4

ACTIVITY	LOCATION	DURATION	RATIO
New Facilities			
	Inside Preserve*	Permanent	2:1
	Inside Preserve	Temporary	(a)(c)
	Outside Preserve	Permanent	1:1
	Outside Preserve	Тетрогагу	(a)
Maintenance of Existing Facilities	Inside Preserve	Permanent	2:1
		Temporary	(a) (b)
	Outside Preserve	N/A	(b)

- (a) Temporary impacts are mitigated through basic site remediation which, includes native hydroseed for erosion control. However, if roots are not grubbed during temporary impacts, the hydroseeding may not be necessary. This applies to areas greater than 500 square feet, and only where grubbing occurred. For all temporary impacts greater than 500 square feet, acreage not meeting success criteria shall be deducted from SDG&E mitigation credits at a 1:1 ratio.
- (b) Impacts associated with maintenance of existing facilities are mitigated for the term of the permit by SDG&E's agreement to restrict development other than SDG&E activities on fee-owned rightsof-way which contain habitat, connect fragmented habitat areas, or contribute to the habitat carrying capacity of the Preserve Areas in the region. SDG&E agrees to limit its use of such rightsof-way to utility activities.
- (c) Same as (a), except that any portion of the temporarily impacted area which does not revegetate in accordance with Section 7.2 and the Mitigation Flow Chart attached as Figure 24, then acreage not meeting success criteria shall be deducted from the SDG&E Mitigation Credits.
  - \*The term "Preserve" in Table 7.4 means the area encompassed by the MSCP's Multi-Habitat Planning Area (MHPA) map (as currently defined or ultimately adopted), the equivalent maps for the MHCP and MHCOS programs in San Diego County, the South Orange County NCCP Subregional Plan reserve area, and the Riverside County Conservation Agency Core reserve areas. If no preserve areas are formally delineated, those areas which are designated moderate, high, and very high quality habitat on habitat on evaluation maps prepared for the respective planning areas are considered the "Preserve."

### 8 Alternatives

Within its service territory, the demands of customers for electric power and natural gas are met by SDG&E. As a public utility, SDG&E is required by Public Utilities Code Section 451 to provide these utility services in a safe and reliable manner. The CPUC has the authority under Public Utilities Code Sections 701, 761 and 762 to require public utilities to establish and maintain the facilities and property rights which are necessary to provide safe and reliable service. In addition, SDG&E sets corporate goals in an effort to attain the highest quality and dependability of service at the lowest rates it can achieve.

These customer demands, legislative mandates, regulatory controls and corporate goals require that SDG&E install new facilities necessary to meet the growing demands of its customers, and that such new facilities and all existing facilities be adequately maintained and repaired to ensure safety and reliability. This Subregional Plan addresses such installation, operation, maintenance, and repair Activities and their potential to impact Covered species or their habitat.

The curtailment of any aspect of the SDG&E Activities would render SDG&E's public utility services, to a greater or lesser extent, inadequate to meet demand, inefficient, unsafe, and unreliable.

An alternative to this Subregional Plan is to do no conservation plan at all. The no plan alternative would mean that the SDG&E Activities described in the Subregional Plan would remain subject to "take" prohibitions of ESA and CESA. Incidental Take permits would be required for such Activities on a project by project and species by species basis. The case by case process of permitting is cumbersome. It has the potential to miss or to inadequately examine protective and conservation issues and measures, which may be too

ill defined, unrecognized or vague to enable a clean and meaningful impact analysis or to articulate needed mitigation measures. This Subregional Plan addresses such issues from an ecosystem or habitat basis, wherein such protections or conservation measures are affected, whether or not defined, as a functioning aspect or part of the protected and covered ecosystem or habitat. Because this Subregional Plan provides comprehensive multiple species and habitat conservation, and is not limited to listed species, it provides a net benefit to the environment in that it protects and conserves species in a manner which may prevent any future listing of such species. In addition, the Subregional Plan provides SDG&E with long term predictability concerning the nature of its operations for which in takings are permitted, avoiding cumbersome procedures and potential facility compromising delays.

### 9 Funding

Funding requirements must be guaranteed in order for this Plan to be implemented. Therefore, SDG&E must be solvent enough to provide the financial confidence that will constitute such a guarantee. SDG&E has served the San Diego area for over 114 years. The Company's evident stability is reflected in an A+ Standard & Poor's bond rating, an A1 bond rating by Moody's, and by the historical fact that SDG&E has not missed a dividend in 84 years. In 1994, SDG&E's operating revenues exceeded operating expenses by \$321,916,000.00. The fiscal health is such that SDG&E was able to declare a dividend of \$1.52 for each of its 116,484,000 shares of common stock for a 9.1% return on common equity. These figures, along with the Company's financial history should provide adequate assurance that SDG&E has the fiscal soundness to fulfill its financial commitments with regard to the implementation of this Plan.

# 10 Acknowledgments

This plan was prepared over a two-year period by San Diego Gas & Electric staff and consultants, with support from several outside entities. Any omission of names is not intentional.

### SAN DIEGO GAS & ELECTRIC PROJECT TEAM

Don L. Rose, Project Manager
Thomas G. Acuña, Land Planner
Stella A. Holland, Land Planner
Mark S. Chomyn, Land Planner
James R. Dodson, Environmental Attorney
Carole L. Major, Document Preparation

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### INTERN

Kimberly F. Seibly

### DATA BASE SUPPORT

Timothy J. Hurley, GIS Project Manager, SDG&E
Ogden Environmental & Energy Services Company (MSCP & MHCP biological data)
Dudek & Associates (MHCP & South Orange County biological data)
RECON (Riverside County biological data)
County of San Diego (MHCOS biological data)
San Diego Association of Governments (GIS support)

### WILDLIFE AGENCIES

Ron Rempel, California Department of Fish & Game Theresa Stewart, California Department of Fish & Game Sherry Barrett, United States Fish & Wildlife Service Jacalyn Fleming, United States Fish & Wildlife Service

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# Appendix A Scope of Preactivity Study

The purpose of the preactivity study is to determine the presence or absence of sensitive resources on or in the vicinity of a project area. Preactivity studies may be appropriate for any type of SDG&E field operation in a natural area. Prior to activities off of access roads in natural areas, the Environmental Surveyor conducts a preactivity study and records the findings of the study on the Preactivity Study Form (See Figure 26, pages 1 and 2). The preactivity study documents information such as:

- · Type, location, and size of project
- · Date, time, weather, and surrounding land uses
- Evaluation of type and quality of habitat
- Work description and methods which will be used to avoid or minimize ground disturbance, including biological monitoring during construction
- Anticipated impacts (if any) and proposed mitigation, i.e., enhancement or deduction from mitigation credits
- Map of location of work area

This Environmental Surveyor's recommendations regarding how to complete the project while avoiding or minimizing disturbance to environmental resources is detailed verbally to field personnel and followed by written documentation. The preactivity study will be conducted no earlier than 30 days before the surface disturbing activity. If surface disturbance has not commenced within 30 days, the Environmental Surveyor will conduct a verification study. The Environmental Surveyor's verbal and written recommendations will be submitted to the field crew within 1 week of conducting the study and prior to the activity.

The Preactivity Study Form is also faxed to CDFG and USFV— along with telephone notification who will reply within 5 working days, indicating if they would like to review the project. When a project can be completed avoiding impacts to natural resources, notification of CDFG and USFWS is for information only, and will not require approval, SDG&E's project may proceed during this time if necessary.

However, when the project cannot be completed without impacts, thus necessitating mitigation, CDFG and USFWS concurrence is required on the need for post-project site enhancement and on the enhancement method. For all new Facilities and related Activities, if Habitat cannot be avoided, a qualified biologist shall be called in to perform surveys following methodologies accepted by the Service. Upon receipt of the Preactivity Study Form, CDFG and USFWS has 15 working days to concur with the enhancement method. If CDFG and USFWS concurrence is not conveyed within 15 working days, the need for post-project enhancement and the enhancement method will be conducted in accordance with the enhancement method specified in the notice.

In both cases, the data recorded on the Preactivity Study Form is then entered into a SDG&E computer data base which is used to develop SDG&E's annual report to the CDFG and USFWS.

Preactivity Survey For	-m	
LPPM Field ID #:		
Date Request Rcvd:		
Project Type:		
Originating Dept:		
Requestor:		
LPPM Field Rvwr:		
LPPM Fld Rvwr Phone #:		
Function Code:		
Date of Field Survey:		
Weather Conditions:		
Site Elevation:		ž
Thomas Bros Ref #:		
APN:		
Field Survey Start Time:  Field Survey Stop Time:		
Hours Spent in Field:		
Linear Feet:		
Square Feet:	•	
Biologist Required?:		
Total Hours Spent on		
This Request:		

### Preactivity Survey Form (sheet 2 of 2)

Project Name	
Field ID#	
	Surrounding Land Use/Habitat
North	
	Proposed Work Description
	Habitat Evaluation
	1
	Reviewer Recommendation

### Appendix B SDG&E Environmental Surveyor Program Certification

#### GOAL

SDG&E shall implement and comply with the terms of the NCCP Subregional Plan (Plan) by utilizing a professional staff familiar with land use planning and environmental protection techniques.

#### DEFINITION OF STAFF

SDG&E staff is defined as employees of SDG&E or its independent agents, contractors, consultants practicing land use planning, biology, or similar profession and capable of implementing the terms and goals of the Plan.

### BIOLOGICAL RESOURCES TRAINING PROGRAM

To ensure adequate training, staff shall be trained and tested by a recognized independent environmental consultant with experience in environmental biology. Specific focus shall be to ensure that all of the species of plants and animals covered by the Plan can be identified and protected during operation, maintenance, and new construction activities. The consultant shall provide a certification for "Environmental Surveyor" to staff members successfully fulfilling the requirements of the training program.

Specifically, training for SDG&E staff shall consist of a 10-week, 40-hour course called the "Comprehensive Biological Resource Training Program." The Program's curriculum, goals, and objectives are attached as "Exhibit A." From time to time in consultation with the wildlife agencies, the program curriculum will be revised and updated.

#### TESTING

SDG&E shall test and will continue to test its staff periodically for competency in relevant environmental science and field work expertise.

### STAFF SKILLS REQUIREMENTS

SDG&E staff shall be capable of implementing the following:

### A) Prior to maintenance activity, SDG&E operations, or project construction:

- Conducting preliminary site visits to determine the extent and location of native vegetation communities and native wildlife within each project area.
- Assess the potential for the presence of sensitive habitats, plants or wildlife species on the site; especially species listed as threatened or endangered at the state or federal level.
- Review existing databases and general references to compile known records of sensitive species in the vicinity of the site.
- Determine the need for further biological assessment by expert biologists.

### B) In cases where no further analysis (by expert biologists) is required:

- Document the existing vegetation communities and representative wildlife species.
- Determine the extent and location of project impacts.
- Advise field crews on methods for proceeding, which avoid impacts to sensitive areas, and implement other Operational Protocols as appropriate.
- Recommend specific mitigation measures to offset unavoidable impacts.
- Monitor construction or maintenance activities to avoid impacts to sensitive areas.
- Prepare follow-up reports describing the work completed and effect of project on biological resources.

- C) In cases where further analysis is required by biological experts:
  - Work with expert biologist to ensure comprehensive analysis is completed.

### STAFF CERTIFICATION

SDG&E shall provide an updated list of qualified staff and copies of the Environmental Certification during the month of January each year to CDF&G and USFWS for review and record keeping. Copies of classroom work and testing shall only be submitted at the first certification of each qualified staff member. Thereafter, only copies of their Environmental Surveyor certification shall be provided on a yearly basis. Additional qualified staff members may be added to the list during the year by submitting copies of their class work, testing results and Environmental Certification.

### EXHIBIT "A"

### SAN DIEGO GAS & ELECTRIC COMPANY ENVIRONMENTAL TRAINING PROGRAM CURRICULUM / GOALS AND OBJECTIVES

- 1) Establish a broad overview of ecology, ecosystems, and the science of conservation biology.
  - a) Describe the flow of energy, nutrients, and water through an ecosystem including role of autotrophs, heterotrophs, nitrogen fixation, photosynthesis, and energy break down. Identify examples of these basic processes in southern California ecosystems.
  - b) Describe the basic components of an ecosystem (primary producer, consumer, tertiary consumers, etc.) Identify examples of these trophic levels in southern California's ecosystems.
  - c) Describe the general effects of development on natural ecosystems including removal of native diversity, disruption of natural systems (eutrophication), and the benefits of habitat restoration.
  - d) Define the physical and biological factors that make southern California an unusual region.
- 2) Use standard biological references and field guides to identify vegetation communities, and plant and wildlife species common to southern California ecosystems.
  - Identify the dominant indicator plant species for common vegetation communities with southern California.
  - b) Identify the common reptile, bird, and mammal species in southern California's ecosystems.
  - Be able to prepare detailed vegetation map of a particular area and identify dominant plants in each community,
  - d) Understand how to use dichotomous keys for identifying common plants of coastal sage scrub, chaparral, and riparian habitats.
  - e) Create a library of natural history field guides including standards guides for plants, reptiles, birds, and mammals.

- f) Create a matrices of habitats and key indicator species.
- 3) Use range maps, species accounts, existing biological resources assessments, and data bases to determine the general biological setting and determine the potential for a particular area to support sensitive habitat, plants, or wildlife.
  - Define what habitats and sensitive species may occur in a particular area of interest before initiating a field survey.
  - b) Determine the appropriate references for acquiring additional information on specific biological resources.
- 4) Identify typical habitat types for federally listed and State listed wildlife species throughout southern California with a focus on the coastal California gnatcatcher, lease Bell's vireo, southern willow flycatcher, southwestern arroyo toad, and Pacific pocket mouse.
  - a) Understand basic biology of the coastal California gnatcatcher, lease Bell's vireo, southern willow flycatcher, arroyo toad, and Pacific Pocket mouse, including biology, habitat requirements, and potential impacts to these species associated with SDG&E's activities.
  - b) Be familiar with the diversity of sensitive species throughout the region (Species of Concern) with emphasis on those plants and wildlife species typically encountered in coastal sage scrub habitats.
  - c) Determine the appropriate season for sensitive species surveys.
  - d) Determine the need for professional biologists to conduct focused surveys.
- 5) Understand basic principles of conservation biology focusing on the viability of populations and the process of local extinction.
  - Compare and contrast the genetic, stochastic, demographic, and environmental factors affecting the stability of a population.
  - b) Define the effects of habitat fragmentation and the importance of wildlife movement corridors to maintaining stable populations.
  - c) Describe Soule's "extinction vortex" and how it may apply to small and fragmented populations in southern California.
  - d) Identify wildlife movement corridors by topography, vegetation, and surrounding urbanization.

- 6) Understand the history of state and federal laws affecting wildlife management with a focus on Sections 4, 7, 9, and 10 of the federal Endangered Species Act and the Natural Community Conservation Plan. Understand how the Endangered Species Act works in conjunction with CEQA, NEPA, and the Fish and Game Code (including CESA).
  - a) Describe the evolution of and need for wildlife management laws from the Lacey Act, Migratory Bird Treaty Act, and Endangered Species Act.
  - b) Describe basic components of the federal Endangered Species Act.
  - c) Describe "take" as it pertains to southern California with reference to harassment, removal of potentially occupied habitats, and direct removal of occupied habitats.
  - Describe the listing process and Candidate system and why this system is currently under review.
  - e) Compare and contrast the Section 7 and Section 10 processes.
  - f) Describe the components of a Biological Assessment and Habitat Conservation Plan.
  - g) Describe the NCCP and how habitat-based conservation plans differ from the single species conservation.
  - h) Describe pertinent projects, decisions, and controversies surrounding the federal Endangered Species Act.
- 7) Understand the basic component of Section 404 of the Clean Water Act and Section 1600 of the Fish and Game Code with emphasis on determining the need for professional delineation of wetlands and stream courses through an area. Identify wetland versus upland vegetation, hydric soil types, and "unusual" wetlands such as vernal pools and ephemeral streams.
  - a) Define the basic component of Section 404 and Section 1600.
  - b) Create a checklist for wetlands, including soils, hydrology, and vegetation.
  - c) Identify common wetland indicator species.
  - d) Use the basic methods and reference material pertaining to official wetland delineations.

- e) Understand need for professional advice on determining full extent of "wetlands" in xeric habitats.
- 8) Incorporate the various methods of habitat restoration and revegetation in coastal sage scrub and wetland habitats into biological mitigation programs.
  - Compare and contrast the basic methods of coastal sage scrub revegetation, including hydroseeding, native regrowth, and container planting.
  - b) Compare the contrast the basic methods of wetland restoration for southern California's riparian ecosystems with emphasis on mulefat scrub and willow scrub habitats.
  - c) Determine the projects requiring irrigation and those that may function well without irrigation.
  - d) Understand ecological benefits of erosion, control measures, removal of weeds (especially giant reed grass), cowbird trapping, controlled human access, fencing, interpretive signs, and other mitigation measures.
  - e) Describe mitigation banking and site-specific measures and how these methods can work together.
- 9) Establish the forms, methods, and review system for Preactivity Survey and conduct a Preactivity Survey.
  - Create a field survey form identifying all pertinent aspects of the biological setting requiring review during a Preactivity Survey.
  - b) Conduct a Preactivity Survey to determine the extent and location of native vegetation communities and the potential for the area to support sensitive biological resources, including sensitive habitats, corridors, plants, and wildlife.
  - Determine the need for further biological assessments by a professional biologist.
  - d) Incorporate photodocumentation into report preparation.
  - e) Prepare an annual report pertaining to all areas surveyed under the program.