



Restoration Plan for Special Status Plants*

Submitted to:

California Public Utilities Commission
U.S. Department of Interior Bureau of Land Management
U.S. Fish and Wildlife Service
California Department of Fish and Game
U.S. Department of Agriculture Forest Service

Prepared for San Diego Gas & Electric Company by:

ICF INTERNATIONAL 9775 Business Park Avenue, Suite 200 San Diego, California 92131 (858) 578-8964 CHAMBERS GROUP, INC. 8787 Complex Drive, Suite 110 San Diego, California 92123 (858) 541-2800

FINAL

January 3, 2011 November 29, 2010

^{*} This plan also addresses the conservation of special status plants on offsite mitigation lands.

*Track changes were left intentionally to show FINAL changes to the document





CONTENTS

		ITIONS AND ACRONYMS	
		DUCTION	
1.			
		PURPOSE	
	1.2 F	RELATIONSHIP TO OTHER PROJECT MITIGATION PLANS	4
2.	DDCD C	PECIES AND MEASURES	7
۷.			
	2.1	OVERVIEW	
	2.1.1	Species Occurrence and Estimated Impacts	
	2.1.2	RPSP Measures	
	2.1.		
	2.1.		
	2.1.		
	2.1. 2.2 J	.2.4 Enhancement and Monitoring in Right-of-Way	
	2.2.1	Species Profile	
	2.2.1	Occurrence and Estimated Impacts	
	2.2.3	RPSP Measures	
	_	Payson's Caulanthus	
	2.3.1	Species Profile	
	2.3.1	Occurrence and Estimated Impacts	
	2.3.3	RPSP Measures	
		LAKESIDE CEANOTHUS	
	2.4.1	Species Profile	
	2.4.2	Occurrence and Estimated Impacts	
	2.4.2	RPSP Measures	
		DELICATE CLARKIA	
	2.5.1	Species Profile	
	2.5.2	Occurrence and Estimated Impacts	
	2.5.2	RPSP Measures	
		TECATE TARPLANT	
	2.6.1	Species Profile	
	2.6.2	Occurrence and Estimated Impacts	
	2.0.2	RDSD Measures	

2.7	STICKY GERAEA	17
2.7.1	1 Species Profile	17
2.7.2	2 Occurrence and Estimated Impacts	17
2.7.3	3 RPSP Measures	18
2.8	SAN DIEGO GUMPLANT	18
2.8.1	1 Species Profile	18
2.8.2	2 Occurrence and Estimated Impacts	18
2.8.3	3 RPSP Measures	19
2.9	DESERT BEAUTY	19
2.9.1	1 Species Profile	19
2.9.2	2 Occurrence and Estimated Impacts	19
2.9.3	3 RPSP Measures	19
2.10	HAYDON'S LOTUS	20
2.10	0.1 Species Profile	20
2.10	0.2 Occurrence and Estimated Impacts	20
2.10	0.3 RPSP Measures	20
2.11	HAIRY STICKLEAF	21
2.11	1.1 Species Profile	21
2.11	1.2 Occurrence and Estimated Impacts	21
2.11	1.3 RPSP Measures	21
2.12	FELT-LEAVED MONARDELLA	22
2.12	2.1 Species Profile	22
2.12	2.2 Occurrence and Estimated Impacts	22
2.12	2.3 RPSP Measures	22
2.13	NUTTALL'S SCRUB OAK	23
2.13	3.1 Species Profile	2 3
2.13	3.2 Occurrence and Estimated Impacts	23
2.13	3.3 RPSP Measures	23
2.14	MORENO CURRANT	24
2.14	1.1 Species Profile	24
2.14	1.2 Occurrence and Estimated Impacts	24
2.14	1.3 RPSP Measures	24
2.15	RAYLESS RAGWORT	25
2.15	5.1 Species Profile	25
2.15	5.2 Occurrence and Estimated Impacts	25
2.15	5.3 RPSP Measures	25
IMPL	EMENTATION GUIDELINES	27
3.1	ROLES AND RESPONSIBILITIES	27
3.2	RPSP COMPONENT OF VEGETATION RESTORATION PLANS FOR TIAS	
3.3	RPSP RESTORATION IN THE ROW OR OTHER LOCATION	
3.4	ROW ENHANCEMENT AND MONITORING PLAN	_
3.4 3.5	SUBSTITUTING OFFSITE CONSERVATION FOR RESTORATION	
5.5	SUBSTITUTING OFFSITE CONSERVATION FOR RESTORATION	30
DEEE	DENIGEC	24

APPENDIX A: SPECIES OCCURRENCE AND ESTIMATED IMPACTS BY LOCATION ALONG THE PROJECT ALIGNMENT				
APPENDIX B: RPSP MAPBOOK (BOUND SEPARATELY)	### 133 ### 100 SEPARATELY)			
APPENDIX C: OFFSITE MITIGATION LANDS	61			
TABLES				
TABLE 1. SPECIES COVERED BY THE RPSP	1			
TABLE 2. RELATIONSHIP OF THE RPSP TO OTHER PROJECT MITIGATION PLANS	4			
TABLE 3. SUMMARY OF SPECIAL STATUS PLANT OCCURRENCE AND RPSP MEASURES	8			
TABLE 4. TYPE OF PROJECT IMPACT AREAS WHERE THE SPECIAL STATUS PLANTS OCCUR				
Table 5. Estimated Impacts to Jacumba Milk-Vetch (number)				
Table 6. Estimated Impacts to Payson's Caulanthus (number)				
TABLE 7. ESTIMATED IMPACTS TO LAKESIDE CEANOTHUS (NUMBER)	15			
Table 8. Estimated Impacts to Delicate Clarkia (number)	15			
TABLE 9. ESTIMATED IMPACTS TO TECATE TARPLANT (NUMBER)	16			
TABLE 10. ESTIMATED IMPACTS TO STICKY GERAEA (NUMBER)	17			
TABLE 11. ESTIMATED IMPACTS TO SAN DIEGO GUMPLANT (NUMBER)	18			
TABLE 12. ESTIMATED IMPACTS TO DESERT BEAUTY (NUMBER)	19			
TABLE 13. ESTIMATED IMPACTS TO HAYDON'S LOTUS (NUMBER)	20			
Table 14. Estimated Impacts to Hairy Stickleaf (number)	21			
TABLE 15. ESTIMATED IMPACTS TO FELT-LEAVED MONARDELLA (NUMBER)	22			
TABLE 16. ESTIMATED IMPACTS TO NUTTALL'S SCRUB OAK (NUMBER)				
Table 17. Estimated Impacts to Moreno Current (number)				
TABLE 19 ESTIMATED IMPACTS TO PAYINGS PACKAGET (MUMADED)				

Contents Sunrise Powerlink RPSP

ABBREVIATIONS AND ACRONYMS

BLM Bureau of Land Management, U.S. Department of Interior

BMP Best Management Practice(s)

BO Biological Opinion

Cal-IPC California Invasive Plant Council

CDFG California Department of Fish and Game

CNDDB California Natural Diversity Database

CNF Cleveland National Forest

CPUC California Public Utilities Commission

Final EIR/EIS Final Environmental Impact Report & Environmental Impact Statement

HAP/HMP Habitat Acquisition Plan and Habitat Management Plan

HMMP Habitat Mitigation and Monitoring Plan

MMCRP Mitigation Monitoring Compliance, and Reporting Plan

MP Mile Post

NTRP Native Tree Restoration Plan

ROD Record of Decision

ROW Right-of-Way

RPSP Restoration Plan for Special Status Plants

RPSV Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas

SDG&E San Diego Gas and Electric Company

SRPL Sunrise Powerlink

USFS United States Forest Service, U.S. Department of Agriculture

USFWS United States Fish and Wildlife Service





1. INTRODUCTION

This section describes the purpose of this *Restoration Plan for Special Status Plants* (RPSP) and its relationship to other mitigation plans for San Diego Gas and Electric Company's (SDG&E's) Sunrise Powerlink Project (Project). In this RPSP, the term 'Project' means the configuration and components of the transmission line and its ancillary facilities as identified in the May 2010 Project Modification Report (PMR).

1.1 PURPOSE

The primary purpose of this is RPSP to identify how SDG&E will comply with the restoration and related mitigation requirements that apply to the Project's effects on the 14 special status plant species identified in Table 1.

Table 1. Species Covered by the RPSP*

Scientific Name	Common Name	Sensitivity Code	
Astragalus douglasii var. perstrictus	Jacumba milk-vetch	CNPS 1B.2, BLM SS, CNF SS	
Caulanthus simulans	Payson's caulanthus	CNF SS (CNPS 4.2)	
Ceanothus cyaneus	Lakeside ceanothus	CNPS 1B.2, CNF SS	
Clarkia delicata	Delicate clarkia	CNPS 1B.2, CNF SS	
Deinandra floribunda	Tecate tarplant	CNPS 1B.2, BLM SS, CNF SS	
Geraea viscida	Sticky geraea	CNPS 2.3	
Grindelia hirsutula var. hallii	San Diego gumplant	CNPS 1B.2	
Linanthus bellus	Desert beauty	CNPS 2.3	
Lotus haydonii	Haydon's lotus	CNPS 1B.3	
Mentzelia hirsutissima	Hairy stickleaf	CNPS 2.3	
Monardella hypoleuca ssp. lanata	Felt-leaved monardella	CNPS 1B.2, CNF SS	
Quercus dumosa	Nuttall's scrub oak	CNPS 1B.1	
Ribes canthariforme	Moreno currant	CNPS 1B.3, BLM SS, CNF SS	
Senecio aphanactis	Rayless ragwort	CNPS 2.2	

Sensitivity Codes

CNPS 1B.1: Rare, threatened, or endangered in California and elsewhere, seriously endangered in California

CNPS 1B.2: Rare, threatened, or endangered in California and elsewhere, fairly endangered in California

CNPS 2.3: Rare, threatened, or endangered in California, not very endangered in California

CNPS 4.2: Limited distribution [Watch List], fairly endangered in California

BLM SS: BLM sensitive species

CNF SS: Cleveland National Forest sensitive species, as identified by the USFS.

1. Introduction Sunrise Powerlink RPSP

Note

* The 14 species identified in this table are among 26 special status plant species considered in the 2009 and/or 2010 rare plant surveys conducted for the Project, as summarized in Table 3 of the 2010 rare plant survey report (RECON 2010a). The other 12 species include:

- San Diego thornmint (Acanthomintha ilicifolia)
- Dean's milk-vetch (Astragalus deanei)
- Descanso milk-vetch (Astragalus oocarpus)
- Palmer's goldenbush (Ericameria palmeri var. palmeri)
- San Diego button-celery (Eryngium aristulatum var. parishii)
- San Diego barrel cactus (Ferocactus viridescens)
- Ramona horkelia (Horkelia truncata)
- Mexican hulsea (Hulsea californica)
- Slender-leaved ipomopsis (*Ipomopsis tenuifolia*)
- Mountain Springs bush lupine (Lupinus excubitus var. medius)
- San Diego golden star (Muilla [Bloomeria] clevelandii)
- San Bernardino aster (Symphyotrichum defoliatum)

None of these other 12 species occur within Project impact areas (based on the May 2010 PMR footprint and the 2009 and 2010 surveys). See the RECON reports on the 2009 and 2010 surveys (RECON 2009 and 2010a) for information about the occurrence or absence of these species in relation to earlier configurations of the Project and the May 2010 PMR.

The mitigation requirements addressed in this RPSP are those specified in:

- The Final Environmental Impact Report and Environmental Impact Statement (Final EIR/EIS)
 for the Project, which was prepared and approved by the California Public Utilities
 Commission (CPUC) and U.S. Department of Interior Bureau of Land Management (BLM) as
 lead agencies;
- The Mitigation Monitoring, Compliance, and Reporting Program (MMCRP) for the Project (a component of the Final EIR/EIS), specifically measure B-5a;
- The Records of Decision (RODs) issued by the BLM and U.S. Department of Agriculture Forest Service (USFS) for the Final EIR/EIS; and
- The Biological Opinion (BO) issued by the U.S. Department of Interior Fish and Wildlife Service (USFWS) pursuant to Section 7 of the federal Endangered Species Act (FESA).

As worded in the MMCRP and repeated in the RODs and BO:

 Unavoidable impacts to listed plants must be mitigated through salvage and relocation and/or offsite conservation at a 2:1 ratio;

2 | Page

Sunrise Powerlink RPSP 1. Introduction

 Unavoidable impacts to California Native Plant Society (CNPS) List 1 and 2, BLM sensitive species, and USFS sensitive species [as identified by USFS for CNF] must be mitigated through reseeding or relocation to temporary impact areas; offsite mitigation lands also may be used to mitigate impacts to these plant species.

- Where reseeding or relocation is required, a habitat restoration plan must be prepared and implemented by a qualified habitat restoration specialist; and the restoration plan must be approved prior to impacting the plant resources.
- Restoration sites must be maintained and monitored for five years or until the established success criteria are met.

In addition, the following clarifications regarding the requirements that apply to non-listed special status plants were made in a conference call on November 23, 2009 between CPUC consultant HELIX Environmental Consulting, Inc., SDG&E, and SDG&E's biological consultants:

- 1. The intent of measure B-5a was to mitigate CNPS List 1 and 2 plant species by reseeding and/or relocating impacted plants to temporarily disturbed areas within the project footprint.
- 2. If plants are to be reseeded or relocated, a restoration plan would need to be prepared and submitted to the agencies. Once approved, the reseeded and/or relocated plants would be monitored for five years or until success criteria are met.
- 3. Measure B-5a does not require a conservation easement for temporary impact areas. Therefore, once the reseeded and/or relocated plants have met the required success criteria, SDG&E would have fulfilled the mitigation requirements for those particular species.
- 4. CNPS List 1 and 2 plant species do not have to be relocated or reseeded to one of the project's mitigation parcels, although this is an acceptable option.
- 5. Purchase of mitigation parcels containing CNPS List 1 and List 2 plant species may be considered acceptable mitigation for impacts to List 1 and 2 species. If off-site acquisition and preservation of List 1 and 2 species is proposed, SDG&E shall justify why mitigation parcels are commensurate for the project's impacts (e.g., explain the number of locations impacted, the estimated size of the impacted population(s), the estimated population on the mitigation parcels, etc). A minimum 1:1 ratio is expected to be necessary if off site mitigation purchase is proposed to mitigate CNPS List 1 and List 2 species.

This RPSP addresses the requirements above as they apply to the 14 non-listed CNPS List 1 and 2, BLM sensitive, and USFS sensitive species that occur within Project impact areas. As determined in rare plant surveys conducted in 2009 and 2010, the Project will not affected any currently listed plant species or any plant species currently proposed for listing. Therefore, the provisions above regarding listed plant species do not apply.

1. Introduction Sunrise Powerlink RPSP

1.2 RELATIONSHIP TO OTHER PROJECT MITIGATION PLANS

In addition to the RPSP, there are other required mitigation plans for the Project that address restoration requirements and/or mitigation for impacts to plants. These include:

- Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas (RPSV)
- Weed Control Plan (WCP)
- Storm Water Pollution Prevention Plans (SWPPPs)
- Habitat Acquisition Plan and Habitat Management Plan (HAP/HMP)
- Cleveland National Forest (CNF) HAP/HMP
- Habitat Mitigation and Monitoring Program (HMMP)

Table 2 provides a brief description of each plan and relationship of the RPSP to each.

Table 2. Relationship of the RPSP to Other Project Mitigation Plans

Document	Description	Relationship of the RPSP
Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Area (RPSV) Habitat Acquisition Plan and Habitat Management	The RPSV covers the restoration of 21 sensitive vegetation communities (types and subtypes) in areas where the Project will have temporary impacts. It identifies the process, methods, and success criteria for restoring vegetation to pre-construction conditions within temporary work areas around structure pads, construction yards, wire stringing areas, guard areas, and designated access roads. The sensitive vegetation types include chaparrals, coastal and montane scrubs, desert scrubs, herbaceous wetlands, riparian forests and woodlands, and woodlands and forests. The measures for temporary impacts to riparian/wetland types in the RPSV are from the HMMP. The HAP/HMP addresses offsite the mitigation requirements for the Project's impacts on sensitive vegetation communities and listed species outside of Cleveland National Forest. The impacts are those identified in the Project Modification Report (PMR) dated May 2010. The HAP/HMP identifies nine properties that will be conserved and managed through funding provided by SDG&E and includes a	Restoration of special status plants within temporary impact areas will be planned and implemented in coordination with the restoration of sensitive vegetation communities in the same impact areas. The site-specific plans prepared under the RSPV will specify how and where the plants will be restored and how the restored population will be maintained and monitored. Offsite conservation of special status plants will occur on properties included in the HAP/HMP. The HAP/HMP provides for the acquisition, permanent preservation, and ongoing management of lands where one or more special status plant species occur.
Plan (HAP/HMP) Cleveland National Forest HAP/HMP	management plan for each property. Each management plan identifies the mitigation function of the property, the proposed land manager and owner, management tasks necessary to conserve the property's mitigation values, funding required for initial and ongoing management, and the current status of the land acquisition. Under the HAP/HMP, approximately 8,940 acres will be acquired, and approximately \$17,072,416 will be provided for management. The CNF HAP/HAP will identify the offsite mitigation lands for Project impacts to sensitive vegetation and species in CNF and will include a management plan for those properties. USFS has provided SDG&E with a list of potential mitigation properties and has indicated that, based on the requirements specified in the USFS ROD, at least 185.56 acres are	If offsite conservation is required for impacts to USFS sensitive plant species in CNF, the CNF HAP/HMP will identify where the conservation will occur and provide for the ongoing management of those lands.

Sunrise Powerlink RPSP 1. Introduction

Document	Description	Relationship of the RPSP
Weed Control Plan (WCP)	The WCP covers the identification and control of noxious weeds within the Project right-of-way (ROW) and impact areas for the life of the Project. Requirements include a pre-construction inventory of noxious weeds in the Project area, annual surveys during construction and for two years after construction, surveys every two years after construction, implementation treatment and preventive measures during operations and maintenance as well as construction.	The WCP measures apply to the temporary impact areas during construction and restoration and to the Project ROW. WCP measures will be coordinated with RPSV and RPSP weed control measures in the temporary impact areas until the RPSV and RPSP success criteria are met. The WCP measures will be coordinated with the RSPS measures for any plant restoration within the ROW and will continue in the ROW after the RPSP success criteria are met.
Storm Water Pollution Prevention Plans (SWWPs)	SWPPPs are plans required under the Project's National Pollution Discharge Elimination System (NPDES) and General Construction Permit Each SWPPP includes site map(s), an identification of construction/contractor activities that could cause pollutants in the storm water, and a description of measures or practices to control these pollutants. Among other issues, the SWPPPs address erosion and sediment controls during and after construction at each Project impact area.	The SWPPP measures at temporary impact areas will be planned and implemented with the RPSP (and RPSV) restoration requirements in mind, and vice versa. The RPSV site-specific restoration plans, including all provisions for special status plants, will be SWPPP revegetation program for the location.
Habitat Mitigation and Monitoring Plan (HMMP)	The HMMP identifies the offsite properties where jurisdictional waters and wetland/riparian resources will be preserved, enhanced, and/or restored as a condition of the Project's 401/404 permits and Streambed Alteration Agreement (SAA). The HMMP indicates where the HMMP measures will be implemented, what success criteria will apply, the cost of those measures, and the source of assured funding for those measures. Temporary as well as permanent impacts to dry washes and riparian/wet-land habitats are covered by the HMMP. After the HMMP success criteria are met, long-term management of the offsite property is guided by the HAP/HMP.	One of the plant species (Tecate tarplant) covered by the RPSP occurs in dry washes that are jurisdictional waters. The RPSP proposed conservation of Tecate tarplant on offsite mitigation lands identified in the HMMP and the HAP/HMP.

1. Introduction Sunrise Powerlink RPSP

This page is intentionally blank.







2. RPSP SPECIES AND MEASURES

This section provides information about the characteristics and occurrence of the 14 special status plants and identifies the RPSP measures that will be implemented for each species. Guidelines for implementing the RPSP measures are provided in section 3.

2.1 OVERVIEW

2.1.1 Species Occurrence and Estimated Impacts

Table 3 summarizes the occurrence of the 14 plant species within Project impact areas and undisturbed portions of the Project right-of-way (ROW) and indicates the restoration, conservation, and/or other measures that will be implemented for each species. Species occurrence is based on the results of rare plant surveys conducted by RECON Environmental Consultants. Chambers Consulting Group, and others in 2009 and 2010. These surveys covered all Project impact areas identified in the May 2010 PMR. Project impact areas are grouped in three categories: permanent, temporary, and road use. Table 4 indicates the types and dimensions of areas included in each category. Appendix A includes a comprehensive table of species' occurrence along the Project alignment by Project milepost, structure, and source of impact, together with individual tables indicating occurrence of each species. Appendix B (bound separately) is a mapbook depicting the information in Appendix A on aerial imagery with a landownership overlay. The table in Appendix A and the maps in Appendix B present the results of the 2009 and 2010 surveys for the 14 species covered by the RPSP. Information about other special status plants that were identified outside of Project impact areas is included in the RECON reports on the rare plant surveys (see RECON 2009 and RECON 2010a).

2.1.2 RPSP MEASURES

Impacts to the 14 species will be mitigated through the following RPSP measures:

- 1. Restoration within the temporary impact areas (TIAs);
- 2. For species restored within TIAs, enhancement and monitoring of existing populations within the undisturbed portion of the ROW during the TIA restoration period;
- 3. Conservation (i.e., permanent preservation and ongoing management) of known populations of the species on one or more of the mitigation sites acquired for the Project; and
- 4. Where restoration within TIAs or offsite conservation is not an option, restoration within undisturbed portions of the ROW or other appropriate location.

For each of the 14 species, the goal is to restore and/or conserve at least as many plants as will be affected by the Project and contribute to the persistence of the species along the Project alignment. Additional details regarding these measures follow Table 4.

Table 3. Summary of Special Status Plant Occurrence and RPSP Measures

	Number Affected by Construction Activities						
Species	Permanent Impact Area	Temporary Impact Area	Use of Existing Access Road	TOTAL IMPACT	Number in Undisturbed ROW	RPSP Measures	
Jacumba Milk-vetch ¹	57	958	263	1278	406	R-TIA and E-ROW	
Payson's Caulanthus ¹	86	188	0	274	36	R-TIA and E-ROW	
Lakeside Ceanothus	7	0	0	7	33	OC-El Capitan (~227 plants)	
Delicate Clarkia	2	40	360	402	3590	OC- Chocolate Canyon (~25 plants) OC-Lightner (~1247 plants)	
Tecate Tarplant	53	1355	801	2209	637	OC-Long Potrero (~76,865 plants)	
Sticky Geraea ¹	291	312	70	673	812	R- TIA and E-ROW	
San Diego Gumplant ²	0	0	1	1	0	Restoration on road shoulder, if impact is unavoidable	
Desert Beauty	798	2860	0	3658	2556	R-TIA and E-ROW, and/or OC- Suckle option	
Haydon's Lotus	0	3	0	3	16	R-TIA and E-ROW or OC-Suckle option	
Hairy Stickleaf	6	0	0	6	59	R- and E-ROW or OC-Suckle option	
Felt-leaved Monardella	55	0	0	55	0	OC-Lightner (~1058 plants)	
Nuttall's Scrub Oak	17	0	0	17	49	R- and E-ROW	
Moreno Currant ²	2	0	0	2	3	R-ROW or OC-Long Potrero option, if impact is unavoidable	
Rayless Ragwort ¹	0	13	0	13	0	R-TIA	
TOTAL	1374	5729	1495	8598	8197		

Note and Codes

- 1 This species occurs in impact areas in CNF; mitigation measures for the CNF impacts are being developed in cooperation with and are subject to approval by the USFS.
- 2 Subject to field verification, it may be possible to avoid the identified impact to this species. See discussion of occurrence and impacts in RPSP sections 2.8 and 2.14.

E = Enhancement OC-name (~#) = Offsite Conservation-Mitigation Site (approximate number conserved)

R = Restoration ROW = Right-of=Way TIA = Temporary Impact Area

Table 4. Type of Project Impact Areas Where the Special Status Plants Occur

Туре	Description
Permanent Impact Areas	
	100 ft x 100 ft area that will be cleared during construction for the installation of
	the transmission line towers. The tower foundation will be placed within the site
Structure Site (or Pad)	area. Construction activities are anticipated to occur over three to six weeks at most
	structure sites. Afterwards, the area around the tower will be restored as specified in the
	applicable SWPPP.
	75 ft x 35 ft area adjacent to or overlapping structure pad area at sites constructed
Maintenance Pad	by conventional methods. Used for storage and to provide access during O&M.
	100-ft diameter equipment loading/work staging area for structures constructed by
Tower Staging Area Pad	helicopters. Will be used during construction and O&M (less frequently for the
(TSAP)	latter).
	These are areas where grading that is necessary to Project construction will occur outside
Grading	the footprint of the other permanent impact areas.
	Typically constructed to have 14-foot-wide sections at straight portions of the road and 16-
New Access Road	to 20-foot-wide sections to facilitate safe movement of equipment and vehicles. Permanent
	access roads will be used during construction and O&M.
	Some existing access roads will be modified within the existing width of the road to facilitate
Improved Access Road	safe movement of equipment and vehicles. Improved roads will be used during construction
•	and O&M.
Temporary Impact Areas (TIAs)	
	Construction yards will have multiple uses that are anticipated to extend over one year at
	most sites, and over two years at yards where field offices will be established (Alpine, Rough
Construction Yards	Acres). These activities include tower steel and construction materials (soil, rock, concrete)
	storage, contractor vehicle and heavy equipment parking, helicopter landing, vehicle wash
	stations, etc. Afterwards, the work areas will be restored to pre-construction conditions.
	Stringing sites will be used after tower construction is completed and during wire pulling and
Stringing Sites	installation. Wire stringing activities are anticipated to occur for approximately four weeks at
	each pull site. Afterwards, the sites will be restored to pre-construction conditions.
	Temporary work areas will be used to complete conventional tower assembly and erection
Work Areas	and store and maintain equipment for tower assembly. These areas will receive heavy foot
work Areas	traffic as well as a variety of heavy equipment, steel, tools, and other construction materials. Construction activities are anticipated to occur over three to six weeks at most tower sites.
	Afterwards, the work areas will be restored to pre-construction conditions.
	Temporary access roads will be constructed or improved to provide access to structure sites.
	These roads will be in place for approximately six to eight weeks duration to accommodate
New Access Road	the construction process. Afterwards, the road area will be restored to pre-construction
	conditions.
	Some existing access roads that will not be used after construction will be improved. These
Improved Access Road	roads will be in place for approximately six to eight weeks duration to accommodate the
	construction process and will be restored pre-construction conditions afterwards.
Existing Access Roads	
	Some existing roads that provide access to permanent and temporary impact areas include
Use of Existing Roads	areas of vegetation that will be crushed or heavily disturbed by vehicle traffic and transport
	of heavy equipment.

2.1.2.1 RESTORATION IN TIAS

Restoration in TIAs is the primary form of mitigation for impacts to five of the RPSP species: Jacumba milk-vetch, Payson's caulanthus, sticky geraea, desert beauty, and rayless ragwort.

- For Jacumba milk-vetch and sticky geraea, restoration will occur at TIAs where ten or more of
 plants of either species have been identified (see tables in Appendix A), provided that the 1:1
 restoration goal can be achieved at the selected TIAs. For impacts within CNF, some or all of the
 restoration may occur at other locations designated by USFS.
- For desert beauty, restoration will occur at the TIAs where the plant occurs; offsite conservation remains an option and may replace some or all restoration within TIAs.
- For Payson's caulanthus and rayless ragwort, restoration will occur within TIAs where these
 plants occur. For impacts within CNF, some or all of the restoration may occur at other locations
 designated by USFS.

All plant restoration measures within TIAs will be planned in conjunction with and implemented as part of the site-specific vegetation restoration plans under the RPSV (see section 3). Additionally, in planning restoration for these plants priority will be given to TIAs that occur on lands where the restoration site will not be subject to future disturbance.

2.1.2.2 OFFSITE CONSERVATION ON PROJECT MITIGATION LANDS

Offsite conservation on one or more of the mitigation lands acquired for the Project is the primary mitigation for impacts to four RPSP species: Lakeside ceanothus, delicate clarkia, Tecate tarplant, and felt-leaved monardella. Implementation of this RPSP measure for these species will occur as part of the implementation of the HAP/HMP. The HAP/HMP provides for the acquisition, preservation, and ongoing management of the biological resources on the Project mitigation sites, including but not limited to four sites with populations of RPSP species. These sites are: Chocolate Canyon (delicate clarkia), El Capitan (Lakeside ceanothus), Lightner (delicate clarkia and felt-leaved monardella), and Long Potrero (Tecate tarplant). Appendix C includes maps of these four sites showing where the RPSP plants were observed in past surveys conducted for the Project, together with tables that summarize information about the resources on each site and the management arrangements and funding provided under the HAP/HMP. The justification for use of offsite conservation as mitigation for impacts to the special status plants is addressed in the description of the RPSP measures for each of the four species (see subsections 2.4. 2.5, 2.6, and 2.12).

Offsite conservation also is reserved as a mitigation option for four species: desert beauty, Haydon's lotus, hairy stickleaf, and Moreno currant. The Suckle mitigation site (see Appendix C for information about the site) has habitat suitable for desert beauty, Haydon's lotus, and hairy stickleaf but has not been surveyed for these species. Moreno currant potentially occurs on the Long Potrero but has not been identified in surveys to date. SDG&E will arrange for the surveys to be conducted in 2011. As described in section 3 of this RPSP, if one or more of the species are found on the properties, SDG&E will submit a written report documenting occurrence and indicating the number of plants conserved as

mitigation for impacts. All or part of any restoration proposed for the species would be replaced by the offsite conservation, depending on the numbers being conserved. The justification for use of offsite conservation is addressed in the description of the RPSP measures for each of the four species (see subsections 2.9. 2.10, 2.11, and 2.14). Pending the results of the 2011 surveys, seed collection, and topsoil salvaging for these species will be planned and implemented as specified in this RPSP.

2.1.2.3 RESTORATION IN RIGHT-OF-WAY OR OTHER LOCATION

Restoration outside TIAs will be limited to areas within the ROW and other locations where there are past or current records of species occurrence and where restoration can be implemented with minimal ground disturbance and low or no probability of future disturbance.

For three species (San Diego gumplant, hairy stickleaf, and Nuttall's scrub oak) restoration in the ROW or other location is the proposed because there are not impacts to the species within TIAs and, except for the possible occurrence on hairy stickleaf on Suckle, the plants are not known to occur on offsite conservation sites. If impacts to San Diego gumplant cannot be avoided, restoration is proposed for the shoulder of the existing road where the one plant was found. If hairy stickleaf is not found on Suckle, restoration will occur in the ROW near EP277-1 or EP279-1. Nuttall's scrub oak will be restored in the ROW near CP8-2 or at a the San Diego County Sycamore Canyon open space preserve (where this plant occurs). The Plant Restoration Program Manager will prepare site-specific restoration plans for Nuttall's scrub oak and, if necessary, for San Diego gumplant and hairy stickleaf (see section 3).

Where restoration occurs within the ROW, O&M activities will be conducted to avoid and minimize impacts to the restored plant population(s). Where restoration is proposed for a location outside impact areas, the ROW, or project mitigation lands, priority will be given to selecting a location(s) where the restoration site will not be subject to future disturbance.

2.1.2.4 ENHANCEMENT AND MONITORING IN RIGHT-OF-WAY

For the RPSP species that will be restored (see Table 3), an additional mitigation measure will be implemented during the restoration period. The additional measure is the enhancement and monitoring of existing populations of the restored plant species at locations in the Project ROW where those species occur. The purpose of this measure is to promote the persistence of these species along the alignment and to maintain options for remedial measures in the event restoration in a given location is not successful. Enhancement measures will focus on weed management and may include some seeding. Weed management will be planned and implemented in close coordination with the Weed Control Plan. Where seeding is proposed, only minimal ground disturbance (such as loosening the soil) will be allowed. Monitoring will entail site visits at least every other year for the duration of the restoration period for each species (i.e., until the restoration success criteria for the species are met at the restoration sites for that species). The Plant Restoration Program Manager will prepare an enhancement and monitoring plan that identifies the location, methods, and timing of all weeding, seeding, and maintenance/monitoring measures that will be implemented in the ROW for RPSP species. Locations selected for enhancement will include but not be limited to (1) areas adjacent to TIAs where

one more plant species are being restored and (2) areas where there are Project impacts to one or more RPSP species but no TIAs.

For other RPSP species that occur in the ROW (i.e., species that will be conserved offsite), the RPSP does not propose special measures for enhancement and monitoring. However, the impact avoidance and weed control measures that apply to the ROW during and after construction will benefit those species and likewise promote their persistence along the alignment.

2.2 JACUMBA MILK-VETCH

2.2.1 Species Profile

Jacumba milk-vetch is a perennial herb in the legume family (Fabaceae) with stout, erect stems that can grow up to 3 feet (1 meter) in height. This species flowers from April to June and ranges from Imperial and San Diego counties to Baja California (CNPS 2010). This species grows in stony or sandy places in La Posta loam soils (Reiser 2001). The habitat for Jacumba milk-vetch includes southern oak woodland, open chaparrals, and grasslands from 3,000 feet to 4,500 feet (915 to 1,375 m) in elevation (CNPS 2010, Munz 1974).

Jacumba milk-vetch is a CNPS List 1B.2, BLM sensitive species, and CNF sensitive species.

2.2.2 OCCURRENCE AND ESTIMATED IMPACTS

Jacumba milk-vetch occurs in permanent and temporary impact areas, on existing access roads, and in undisturbed portions of the ROW. Most impacts will occur in connection with establishment of a construction yard and use of existing roads (Table 5). There are approximately 406 plants in undisturbed portions of the ROW.

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Construction Yard		836		836
Grading	9	2		11
Improved Road	10			10
Maintenance Pad	1			1
New Road	14	14		28
String Site Area		31		31
Structure Pad	23			23
Work Area		75		75
Use of Existing Roads			263	263
Tot	ol 57	050	262	1278

Table 5. Estimated Impacts to Jacumba Milk-Vetch (number)

2.2.3 RPSP MEASURES

Impacts to Jacumba milk-vetch will be mitigation through restoration at TIAs and enhancement and monitoring within undisturbed portions of the ROW.

Restoration will occur primarily at the Rough Acres construction yard, where the largest number of Jacumba milk-vetch will be affected. Restoration also will occur within other TIAs where 10 or more plants of this species have been identified (See Appendix A Table A-2). Restoration will be planned in conjunction with and implemented as part of the site-specific vegetation restoration plans prepared for Rough Acres and the designated TIAs under the RPSV. Methods for obtaining materials for Jacumba milk-vetch restoration include, but are not limited to, collection of seed within permanent and temporary impact locations, collection of seed within the Project ROW, collection of topsoil where Jacumba milk-vetch is present within permanent and temporary impact locations, salvage whole plants within permanent and temporary impact locations, and limit grading activities within temporary impact areas leaving the underground storage organ intact for re-sprouting.

In addition to restoration in TIAs, populations of this species within the undisturbed portion of the ROW will be enhanced, maintained, and monitored at locations identified by the Plant Restoration Program Manager. The enhancement measures will focus on the removal and control of weeds; depending on the supply of seed available after TIA restoration has been planned, some seeding in the ROW also may occur. Maintenance and monitoring of enhancement sites will continue until the success criteria at the TIA restoration sites for Jacumba milk-vetch are met.

2.3 PAYSON'S CAULANTHUS

2.3.1 Species Profile

Payson's caulanthus is an annual herb in the mustard family (Brassicaceae). It is generally bristly and branched above with cut to dentate leaves (Hickman 1993). Payson's caulanthus has small yellow flowers, blooms generally from March through May and is found in chaparral and coastal scrub habitats in San Diego and Riverside Counties, California (CNPS 2010). This species is locally common in the Thing Valley and La Posta Road areas along the Project ROW.

Payson's caulanthus is CNF sensitive species and is covered by the RPSP where impacts occur to it within CNF. It also is a CNPS List 4.2 species. Outside CNF, restoration and/or offsite conservation is not required under the MMCRP for this plant.

2.3.2 OCCURRENCE AND ESTIMATED IMPACTS

Payson's caulanthus occurs within permanent and temporary impact areas and within the Project ROW. Most impacts to this plant will occur in connection with the establishment and use of a construction yard (Table 6). This species does not occur on existing access roads. There are approximately 36 plants within undisturbed portions of the ROW.

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Construction Yard		188		188
Structure Pad	86			86
Total	86	188		274

Table 6. Estimated Impacts to Payson's Caulanthus (number)

2.3.3 RPSP MEASURES

Restoration of this species will occur within the Thing Valley construction yard and/or at other locations in CNF designated by USFS. Site-specific restoration measures for the yard will be planned in conjunction with an implemented as part of the vegetation restoration plan for the yard. Restoration outside the yard (if any) will be planned and implemented as a separate activity under a plan prepared by the Plant Restoration Program Manager and approved by USFS.

In addition to restoration in TIAs and subject to USFS approval, populations of this species within the undisturbed portion of the ROW near milepost 61 will be enhanced, maintained, and monitored. The enhancement measures will focus on the removal and control of weeds; depending on the supply of seed available after restoration has been planned, some seeding in the ROW also may occur. Maintenance and monitoring of the enhancement site will continue until the success criteria at the restoration sites for Payson's caulanthus are met.

2.4 LAKESIDE CEANOTHUS

2.4.1 SPECIES PROFILE

Lakeside ceanothus is an evergreen shrub and member of the buckthorn family (Rhamnaceae) that reaches up to 15 feet (4.6 m) in height. Lakeside ceanothus produces bright blue flowers from April to June (Munz 1974). This species inhabits dry, shrubby slopes within dense chaparral communities at elevations less than 2,500 feet (765 m) in elevation (CDFG 2009). Lakeside ceanothus is endemic to San Diego County and northern Baja California, Mexico. In San Diego County it is found from Crest to the Lakeside foothills, including Ramona, Lakeside, and Alpine. This species has been recorded on acid igneous rock land and Cieneba very rocky coarse sandy loam soils. Although Lakeside ceanothus is restricted in range, it may cover hundreds of acres when present (Reiser 2001).

Lakeside ceanothus is a CNPS List 1B.2 species, a BLM sensitive species, and a CNF sensitive species.

2.4.2 OCCURRENCE AND ESTIMATED IMPACTS

Lakeside ceanothus occurs within the permanent impact areas of two structure sites (Table 7). This plant does not occur in any of the Project's TIAs or on existing access roads. Approximately 33 occur in undisturbed portions of the Project ROW.

Table 7. Estimated Impacts to Lakeside Ceanothus (number)

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Structure Pad	7			7
Total	7			7

2.4.3 RPSP Measures

Impacts to approximately 7 plants at the two structure sites will be mitigated by offsite conservation of approximately 227 plants on the El Capitan mitigation site. See Figure 1 and Table C-1 in Appendix C. The HAP/HMP provides for the permanent preservation and management of the El Capitan site.

Offsite conservation is appropriate mitigation for the Project's impacts to Lakeside ceanothus because the El Capitan site is the same general vicinity of the two impact areas and approximately 227 plants will be permanently conserved for the 7 affected by the Project. Total impacts are mitigated at a ratio of approximately 32:1. In addition, conservation will precede impacts to this plant.

2.5 DELICATE CLARKIA

2.5.1 Species Profile

Delicate clarkia is an annual in the evening-primrose family (Onagraceae) that grows up to 3 feet (0.9 meter [m]) in height and produces rose-lavender to pale pink flowers in May and June. Delicate clarkia is found only in San Diego County and Baja California, Mexico. It grows on dry slopes in oak woodlands and chaparral below 4,000 feet (1,220 m) (Munz 1974), preferring sites that are partially shaded with soils wet during the spring. Delicate clarkia is inconspicuous when not in flower but readily recognizable by its spoon-shaped rose-colored petals and bright orange-tipped anthers (Reiser 2001).

Delicate clarkia is a is a CNPS List 1B.2 and a CNF sensitive species.

2.5.2 OCCURRENCE AND ESTIMATED IMPACTS

Delicate clarkia occurs mainly on existing access roads and in one work area (Table 8). More than 3500 plants of this species occur within undisturbed portions of the Project ROW.

Table 8. Estimated Impacts to Delicate Clarkia (number)

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Improved Road	1			1
Structure Pad	1			1
Work Area		40		40
Use of Existing Roads			360	360
To	otal 2	40	360	402

2.5.3 RPSP MEASURES

Impacts to approximately 402 plants will be mitigated by offsite conservation of approximately plants on two mitigation sites – Chocolate Canyon (approximately 25 plants) and Lightner (approximately 1,247 plants). See Figures 2 and 3 and Tables 2 and 3 in Appendix C. The HAP/HMP provides for the permanent preservation and management of both mitigation sites.

Offsite conservation is appropriate mitigation for the impacts to delicate clarkia because the work area impacts occur in the Project ROW that crosses (but is excluded from) the Chocolate Canyon mitigation site and there are no TIAs with this plant in the vicinity of existing roads where most impact will occur. The Lightner site compensates for the road-related as well as other impacts by preserving large numbers of this plant within one of the largest area of contiguous woodlands in San Diego County. Total impacts are mitigated at a ratio of approximately 3:1. In addition, conservation will precede impacts to this plant (the two sites have already been acquired).

2.6 TECATE TARPLANT

2.6.1 Species Profile

Tecate tarplant is an annual herb in the sunflower family (Asteraceae) that grows up to 3.5 feet (1 m) in height and blooms between August and October (CNPS 2010, Hickman 1994, and Reiser 2001). This species ranges from San Diego County into Baja California and occurs in Coastal Sage Scrub and Chaparral habitats between 230 and 4,000 feet (70 to 1,220 m) in elevation. Habitat for this species is characterized as primarily dry valleys and foothills, within sandy washes in the high desert. Reiser (2001) reports that this species favors sandy washes and is often found growing in Carrizo very gravelly loam soil series. This species may be distinguished from other tarplant species found in the region by having 13 to 20 ray flowers, which appear in late summer and fall.

Tecate tarplant is a CNPS List 1B.2 species, a BLM sensitive species, and a CNF sensitive species.

2.6.2 OCCURRENCE AND ESTIMATED IMPACTS

Tecate tarplant occurs in permanent and temporary impact areas, on existing access roads, and in undisturbed portions of the Project ROW. Project impacts will occur in connection with grading, a string site, maintenance pad, and work area for one structure (EP67) and from use of existing roads (Table 9). Approximately 637 occur within undisturbed portions of the ROW.

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Grading		242		242
Maintenance Pad	53			53
String Site Area		953		953
Work Area		160		160
Use of Existing Roads			801	801
Tot	al 53	1355	801	2209

Table 9. Estimated Impacts to Tecate Tarplant (number)

2.6.3 RPSP MEASURES

Impacts to 2209 plants will be mitigated through the offsite conservation of approximately 76,865 plants at the Long Potrero mitigation site. See Figure 4 and Table C-4 in Appendix C. The HAP/HMP provides for the permanent preservation and management of the Long Potrero site. Tecate tarplant also will likely benefit from the wash restoration and enhancement measures at Long Potrero under the HMMP.

Offsite conservation is appropriate mitigation for the impacts to Tecate tarplant because the impacts related to EP67 occur in a area that encompassed by the northern boundaries but excluded from the Long Potrero site and because there are no TIAs within this plant in the vicinity of the existing roads where most impacts will occur. Total impacts are mitigated at a ratio of approximately 34:1. In addition, conservation will precede impacts to this plant (the site has already been acquired).

2.7 STICKY GERAEA

2.7.1 SPECIES PROFILE

Sticky geraea is a short-lived perennial in the sunflower family (Asteraceae) that produces yellow flowers between May and June (CNPS 2010). This species grows from an underground caudex (Hickman 1993). Sticky geraea occurs in southeastern San Diego and southwestern Imperial Counties and Baja California (CNPS 2010). This species can be found on dry chaparral slopes between 2,000 to 4,000 feet (600 to 1,220 m) in elevation, most commonly associated with chamise (*Adenostoma fasciculatum*) as the dominant shrub. Sticky geraea often occurs in dry, sandy areas, and is sometimes found in disturbed areas. Reiser (2001) reports that sticky geraea occurs on Tollhouse rocky coarse sandy loam soils.

Sticky geraea is a CNPS List 2.3 species.

2.7.2 OCCURRENCE AND ESTIMATED IMPACTS

Sticky geraea occurs in permanent and temporary impact areas, on existing access roads, and in undisturbed portions of the Project ROW. Most impacts will occur in connection with construction of new permanent access roads and the establishment of use of temporary stringing and work areas (Table 10). Approximately 812 occur in the ROW.

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
New Road	219	24		243
Construction Yard		20		20
Grading	14	15		29
Maintenance Pad	24			24
String Site Area		96		96
Structure Pad	34			34
Work Area		157		157
Use of Existing Roads			70	70
Total	291	312	70	673

Table 10. Estimated Impacts to Sticky Geraea (number)

2.7.3 RPSP MEASURES

Impacts to sticky geraea will be mitigation through restoration at TIAs and enhancement and monitoring within undisturbed portions of the ROW.

Restoration will occur at the TIAs where 10 or more plants of this species have been identified, which are mainly a construction yard, work areas, and string sites (See Appendix A Table A-7). Restoration will be planned in conjunction with and implemented as part of the site-specific vegetation restoration plans prepared for the designated TIAs under the RPSV. Methods for obtaining materials for sticky geraea restoration include, but are not limited to, collection of seed within permanent and temporary impact locations, collection of seed within the Project ROW, collection of topsoil where sticky geraea is present within permanent and temporary impact locations, salvage whole plants within permanent and temporary impact locations, and limit grading activities within temporary impact areas leaving the underground storage organ intact for re-sprouting.

In addition to restoration in TIAs, populations of this species within the undisturbed portion of the ROW will be enhanced, maintained, and monitored at locations identified by the Plant Restoration Program Manager. The enhancement measures will focus on the removal and control of weeds; depending on the supply of seed available after TIA restoration has been planned, some seeding in the ROW also may occur. Maintenance and monitoring of enhancement sites will continue until the success criteria at the TIA restoration sites for sticky geraea are met.

2.8 SAN DIEGO GUMPLANT

2.8.1 Species Profile

San Diego gumplant is a perennial herb in the sunflower family (Asteraceae) that produces yellow flowers between July and October and is endemic to San Diego County (CNPS 2010). This species is found in meadows and dry slopes between 2,600 to 5,600 feet (800 to 1,700 meters) in elevation (Hickman 1993).

San Diego gumplant is a CNPS List 1B.2 species.

2.8.2 OCCURRENCE AND ESTIMATED IMPACTS

One plant has been found within one existing dirt access road that will be used for the Project (Table 11). This plant has not been observed in permanent and temporary impact areas or in the Project ROW.

Table 11. Estimated impacts to San Diego Gumplant (number)

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Use of Existing Roads			1	1
Total			1	1

2.8.3 RPSP Measures

The Plant Restoration Program Manager will conduct a site visit to further evaluate the feasibility of avoiding impacts to this plant from vehicle traffic. If the impact is unavoidable, restoration on the shoulder of the road will be considered. Restoration would occur using purchased seed and would require preparation of a site-specific plan as per section 3 of this RPSP.

2.9 DESERT BEAUTY

2.9.1 SPECIES PROFILE

Desert beauty is an annual wildflower in the phlox family (Polemoniaceae) that grows to approximately 4 inches (10 cm) in height. This species blooms in April and May (CNPS 2010) and has flowers that range from lilac to pink, with a yellow throat dotted with purple spots. Desert beauty is found only in southeastern San Diego County and adjacent Baja California (Munz 1974, CNPS 2010). It grows in open sandy sites in Semi-Desert Chaparral between 3,000 and 4,500 feet (915 to 1,375 m) in elevation (Hickman 1993 and CNPS 2010).

Desert beauty is a CNPS List 2.3 species.

2.9.2 OCCURRENCE AND ESTIMATED IMPACTS

Desert beauty occurs within permanent and temporary impact areas and within undisturbed portions of the Project ROW. It was not observed within existing access roads. Most impacts will occur in connection with new access roads, grading, structure pads, and stringing sites associated with three towers and a TSAP (Table 12). Approximately 2556 occur in the ROW.

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
New Road	361	530		891
Construction Yard		25		25
Grading		410		410
String Site Area		1895		1895
Structure Pad	152			152
TSAP	285			285
Total	798	2860		3658

Table 12. Estimated Impacts to Desert Beauty (number)

2.9.3 RPSP Measures

Impacts to desert beauty will be mitigated through restoration in TIAs and enhancement/monitoring of populations within the ROW.

Restoration will occur in the TIAs associated EP220-1, EP221-1, and EP204-4 and the construction yard serving EP178 (see Appendix A Table A-9). The two TIAs (grading areas) where fewer than 10 plants

occur will not be treated as RPSP restoration sites but desert beauty seed will be included in the vegetation restoration palette. Site-specific restoration measures will be identified the site-specific restoration plans prepared for the TIAs under the RPSV. Enhancement and monitoring measures will focus on monitoring for the incursion of invasive plants; depending on the availability of seed, some seeding in the ROW also may occur. The enhancement/monitoring measures will continue until the success criteria for the desert beauty restoration sites are met.

SDG&E will have the option to substitute offsite conservation for some or all restoration within TIAs. Surveys for desert beauty will be conducted at the Suckle site in April or May of 2011 to determine if this species is present and, if so, in what numbers. Section 3 of this RPSP identifies the process for confirming offsite conservation as a substitute for all or some restoration of desert beauty.

2.10 Haydon's Lotus

2.10.1 Species Profile

Haydon's lotus is a subshrub in the pea family (Fabaceae) (Hickman 1993) that produces small orange colored flowers from January through June (CNPS 2010). This species can be found in elevations ranging from 1,900 and 4,000 feet (600 to 1,200 m) in elevation in San Diego and Imperial counties and Baja California, Mexico in creosote bush scrub and juniper woodland (Hickman 1993 and CNPS 2010).

Haydon's lotus is a CNPS List 1b.3 species.

2.10.2 OCCURRENCE AND ESTIMATED IMPACTS

Haydon's lotus occurs within the temporary work area for one structure (Table 13). It does not occur in permanent impact areas or on existing access roads. Approximately 16 plants occur in the Project ROW near EP247.

Table 13. Estimated Impacts to Haydon's Lotus (number)

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Work Area		3		3
Total		3		3

2.10.3 RPSP MEASURES

Restoration of Haydon's lotus will occur within the one TIA. Seed will salvaged and/or topsoil collected prior to impact and sown after construction in the TIA. Site specific restoration measures will be identified in the site-specific plan prepared for the TIA under the RPSV. Enhancement and monitoring measures also will be implemented in the ROW until the success criteria for the restoration site are met. Within the ROW, the focus will be on monitoring for continued plant occurrence.

SDG&E also will have the option to substitute offsite conservation for restoration within the TIA if this plant if found on the Suckle mitigation site. Surveys for Haydon's lotus will be conducted at the Suckle site in January and June of 2011 to determine if this species is present and, if so, in what numbers. Section 3 of this RPSP identifies the process for confirming offsite conservation as a substitute for restoration.

2.11 HAIRY STICKLEAF

2.11.1 SPECIES PROFILE

Hairy stickleaf is an annual in the loasa family (Loasaceae) that grows up to approximately 12 inches (31 centimeters) in height (Hickman 1993). This species generally blooms from March through May (CNPS 2010) and produces pale yellow flowers (Hickman 1993). Hairy stickleaf is found within San Diego and Imperial counties as well as Baja California, Mexico within Sonoran desert scrub (CNPS 2010).

Hairy stickleaf is a CNPS List 2.3 species.

2.11.2 OCCURRENCE AND ESTIMATED IMPACTS

Hairy stickleaf occurs in the permanent impact areas of two structure sites (Table 14). Approximately 59 plants occur in the ROW in the vicinity of those structures. This plant does not occur in TIAs or on existing access roads.

 Impact Area Type
 # in Permanent Impact Area
 # in Temporary Impact Area
 # Affected by Use of Existing Roads
 Total # Affected

 Structure Pad
 6
 6
 6
 6

 Total
 6
 6
 6

Table 14. Estimated Impacts to Hairy Stickleaf (number)

2.11.3 RPSP MEASURES

Restoration of hairy stickleaf will occur on the periphery of the plants in the ROW, near the structure pads for EP279-1 and/or EP277-1. Restoration will be accomplished by salvage of seed and/or topsoil collected prior to impact. Enhancement and monitoring measures also will applied to the existing population in this ROW until the success criteria for the restoration site(s) are met. For the existing population, the focus will be on monitoring for continued occurrence.

SDG&E also will have the option to substitute offsite conservation for restoration if this plant is found on the Suckle mitigation site. Surveys for Haydon's lotus will be conducted at the Suckle site between March and May of 2011 to determine if this species is present and, if so, in what numbers. Section 3 of this RPSP identifies the process for confirming offsite conservation as a substitute for restoration.

2.12 Felt-Leaved Monardella

2.12.1 SPECIES PROFILE

Felt-leaved monardella is an herbaceous perennial in the mint family (Lamiaceae) that grows from a creeping rootstock (rhizome) to approximately 2 feet (0.6 m) in height. This species flowers between June and July. Its range occurs from Orange County to San Diego County and Baja California, Mexico. Felt-leaved monardella is found on dry slopes in chaparral below 4,500 feet (1,375 m) (Munz 1974), typically growing beneath chamise on undeveloped peaks and mountainous ridges. Felt-leaved monardella has been known to grow alongside Indian warrior (*Pedicularis densiflora*) within soils such as San Miguel-Exchequer rocky silt loam or acid igneous rock lands (Reiser 2001).

Felt-leaved monardella is a CNPS List 1B.2 and a CNF sensitive species.

2.12.2 OCCURRENCE AND ESTIMATED IMPACTS

Felt-leaved monardella occurs in the impact area for a new permanent access road (Table 15). It was not observed in TIAs, on existing access roads, or in undisturbed portions of the Project ROW.

Table 15. Estimated Impacts to Felt-Leaved Monardella (number)

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
New Road	55			55
Total	55			55

2.12.3 RPSP MEASURES

Impacts to approximately 55 plants will be mitigated through conservation of 857 plants at the Lightner mitigation site. The HAP/HMP provides for the permanent preservation and management of the Lightner site.

Offsite conservation is appropriate mitigation for the impacts to felt-leaved monardella because the impacts just outside the boundaries of the Lighter mitigation site and there are no TIAs with this plant where restoration could occur. The Lightner site compensates for the road-related impacts by preserving large numbers of this plant within a large block of chaparral and woodlands. Total impacts are mitigated at a ratio of approximately 19:1. In addition, conservation will precede impacts to this plant (the site has already been acquired).

2.13 NUTTALL'S SCRUB OAK

2.13.1 Species Profile

Nuttall's scrub oak is an evergreen shrub in the oak family (Fagaceae) that grows up to 10 feet (3 m) in height (Hickman 1993) and blooms from February to April (CNPS 2010). Nuttall's scrub oak is found near the coast in Santa Barbara, Orange, and San Diego counties and in Baja California, Mexico, at elevations below 1,300 feet (400 m). Nuttall's scrub oak grows in Chaparral, Coastal Sage Scrub, and Closed-Cone Coniferous Forest habitats (CNPS 2010), preferring Coastal Chaparral with a relatively open canopy in flat areas, but growing in dense stands on north-facing slopes (Reiser 2001). In San Diego County, this species is known to grow as far inland as Camp Elliott and Otay Mesa (Reiser 2001), being replaced by the similar scrub oak (*Quercus berberidifolia*) in higher, drier locations (Hickman 1993). The undersides of the leaves have soft felt-like hairs and spiny margins (Pavlik et al. 2006).

This plant is a CNPS List 1B.2 species.

2.13.2 Occurrence and Estimated Impacts

Nuttall's scrub oak occurs in the permanent impact areas associated with two structure sites (Table 16). Approximately 17 occur in undisturbed portions of the ROW near two structures. It does not occur in TIAs or on existing access roads. All recorded locations are on lands within MCAS Miramar.

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Grading	5			5
Maintenance Pad	8			8
New Road	3			3
Structure Pad	1			1
Total	17			17

Table 16. Estimated Impacts to Nuttall's Scrub Oak (number)

2.13.3 RPSP MEASURES

Subject to MCAS Miramar approval, restoration of Nuttall's scrub oak will occur within the Project ROW adjacent to the impact areas. If an alternate site for restoration is required, SDG&E will seek authorization from the County of San Diego to restore Nuttall's scrub oak within the County's Sycamore Canyon Open Space Preserve. Restoration will be accomplished by salvage of whole shrubs and immediate transplantation into receptor sites and/or acorns collected and propagated prior to impact and planted after construction is completed. Site-specific measures will be identified in a site-specific plan prepared as described in section 3 of this RPSP.

In addition to restoration, enhancement and monitoring measures will be applied to the Nuttall's scrub oak in the ROW. The measures will focus on understory weed removal and controls and will continue until the success criteria for the Nuttall's scrub oak restoration site(s) are met.

2.14 MORENO CURRANT

2.14.1 SPECIES PROFILE

Moreno currant is a deciduous shrub in the gooseberry family (Grossulariaceae) that grows up to six feet (2 meters) in height (Hickman 1993). This species blooms from February through April (CNPS 2010) and produces purple colored flowers (Hickman 1993). Moreno currant is endemic to San Diego county is found within chaparral and riparian scrubs between 1,100 and 3,900 feet (340 to 1,200 meters) in elevation.

Moreno current is a CNPS List 1B.3, BLM sensitive, and CNF sensitive species.

2.14.2 OCCURRENCE AND ESTIMATED IMPACTS

Two plants were identified in road-related permanent impact areas associated with EP40-1 (see Appendix A Table A-15). This plant was not observed in temporary impact areas or on existing roads. Three plants were identified in the ROW in the vicinity of EP40-1.

in Permanent # in Temporary # Affected by Use of **Impact Area Type** Total # Affected **Impact Area Impact Area Existing Road** Grading 1 1 New Road 1 1 Total 2

Table 17. Estimated Impacts to Moreno Current (number)

2.14.3 RPSP MEASURES

When the final design plans for the road and grading area for EP40-1 are available, the Plant Restoration Program Manager will make a determination as to whether impacts are avoidable. If unavoidable, the impacts will be mitigated through restoration in the ROW near EP40-1 and enhancement/monitoring of the Moreno currant in the ROW. Enhancement/monitoring will likely occur in the same location as the restoration and will focus on monitoring for continued occurrence of the plants. Monitoring of the restoration site and the existing population in the ROW will continue until the restoration success criteria are met. Site-specific restoration measures will be identified in a restoration plan prepared in accordance with section 3 of the RPSP.

SDG&E also will have the option to substitute offsite conservation for restoration if this plant is found on the Long Potrero mitigation site. Surveys will also be conducted at the Long Potrero mitigation property between February and April of 2011 to determine if this species is present within the property. Section 3 of this RPSP identifies the process for confirming offsite conservation as a substitute for restoration.

2.15 RAYLESS RAGWORT

2.15.1 SPECIES PROFILE

Rayless ragwort is an annual in the sunflower family (Asteraceae) that produces small inconspicuous yellow flowers between January and April (CNPS 2010 and Hickman 1993). This species grows from a slender taproot and ranges in height from 2 to 8 inches (5 to 20 centimeters) and can be found in central and southern California as well as Baja California, Mexico (Hickman 1993). This species can be found in chaparral, cismontane woodland and coastal scrub (CNPS 2010) between 33 to 1,800 feet (10 to 550 m) in elevation (Hickman 1993).

Rayless ragwort is a CNPS List 2.2 species.

2.15.2 OCCURRENCE AND ESTIMATED IMPACTS

Rayless ragwort occurs in the Thing Valley construction yard in CNF. It does not occur in permanent impact areas, on existing roads, or in the ROW. (See Table 18.)

Table 18. Estimated Impacts to Rayless Ragwort (number)

Impact Area Type	# in Permanent Impact Area	# in Temporary Impact Area	# Affected by Use of Existing Roads	Total # Affected
Construction Yard		13		13
Total		13		13

2.15.3 RPSP MEASURES

Restoration of rayless ragwort will occur in the Thing Valley yard and/or at other locations in CNF designated by USFS. Site-specific restoration measures will be identified within the RPSV for the Thing Valley yard and/or site-specific restoration plans prepared for other sites designated by USFS.

This page is intentionally blank.







3. IMPLEMENTATION GUIDELINES

3.1 ROLES AND RESPONSIBILITIES

Roles and responsibilities for planning and implementing the measures identified in this RPSP are as follows:

- SDG&E will fund the restoration, enhancement/monitoring, and conservation measures and is responsible for successful implementation of the measures as mitigation for Project impacts.
- SDG&E will retain a Plant Restoration Program Manager to oversee RPSP implementation.
 The Program Manager's responsibilities include but are not limited to:
 - a. Maintaining and managing the schedule of RPSP activities;
 - b. Coordinating with the Program Manager for the RPSV and Weed Control Plan;
 - c. Directing the preparation and implementation of site-specific restoration measures for inclusion in the site-specific vegetation restoration plans for TIAs;
 - d. Directing the preparation and implementation of an enhancement and monitoring plan for populations of RPSP species that will be restored in TIAs or other locations and also occur in the ROW;
 - e. Preparing the documentation for offsite conservation in place of restoration in TIAs, the ROW, or other location;
 - f. Overseeing the work all contractors retained for RPSP tasks;
 - g. Preparing reports on RPSP implementation;
 - h. Maintaining communications with the Project Biological Monitor appointed by the CPUC and BLM; and
 - i. Ensuring that RPSP activities occur according to schedule and within the requirements of all applicable Project permits.

3.2 RPSP COMPONENT OF VEGETATION RESTORATION PLANS FOR TIAS

The plant restoration component of site-specific vegetation restoration plans for TIAs will prepared under the direction of the Plant Restoration Program Manager in close coordination with the Restoration Specialists for the RPSV. For each TIA where RPSP restoration measures will be

implemented, the RPSP component of the site-specific restoration plan will include but not be limited to the following items:

- 1. Map and summary description of pre-impact conditions for the RPSP species, including records of occurrence and distribution of suitable habitat for the species in the TIA.
- 2. Specifications for the amount and source of seed required for restoration in the TIA.
- 3. Priority methods for clearing site for construction uses, including specifications for retaining top soil and root systems and/or salvaging and storing plants and top soil;
- 4. Site preparation requirements when construction activities in the TIA are concluded;
- 5. Maps delineating the plant restoration area(s) within the restoration site;
- 6. Specifications regarding the seeding, maintenance, and monitoring of the plant restoration area(s), with the measures described in the same level of detail as the corresponding measures for restored vegetation;
- 7. Performance standards and success criteria for the plant restoration sites, by species and location; and
- 8. Adaptive management/remedial measures for responding to problems and changed circumstances.

Using the data collected on the impact areas, the Plant Restoration Program Manager will work with the Restoration Specialists and the wildlife agencies to select appropriate reference sites that will be used for judging the performance of each plant restoration area. The plant reference sites will be selected at the same time and in the same way that vegetation reference sites are selected; they also will be marked and monitored in the same way (see RPSV).

Performance standards and success criteria for the plant restoration sites also will be developed by the Plant Restoration Program Manager and Restoration Specialists in coordination with USFWS, CDFG, the CPUC Biological Monitor, BLM, and – for restoration within CNF – USFS. Development of the standards and criteria will begin when data on the impact areas has been compiled and the reference areas have been identified. Key issues to be considered include but are not limited to:

- Whether the species is a perennial or annual;
- The dependence of the species on rainfall patterns;
- The characteristics of the vegetation community in which the species occurs and is being restored;

- Appropriate performance standards for restoration sites that will not include irrigation systems;
 and
- Short- term and long-term standards for determining if a restored site is self-sustaining.

Maintenance and monitoring of the plant restoration sites will be closely coordinated with that of the restored vegetation. Where possible given the bloom periods of the restored plants, monitoring of vegetation and plant restoration sites will be conducted concurrently.

The reporting requirements for the plant restoration sites will be the same as for the vegetation restoration within the TIA (see RPSV). The reports will be prepared under the direction of the Plant Restoration Program Manager and submitted with the report on vegetation restoration in the TIA.

All plant restoration activities will comply the impact avoidance and mitigation measures identified in the Final EIR/EIS, MMRCP, the BO, and other applicable Project documents and determinations. All plant restoration plans and activities for lands in CNF are subject to approval by the USFS.

3.3 RPSP RESTORATION IN THE ROW OR OTHER LOCATION

Where restoration is proposed in the Project ROW or other location, the Plant Restoration Program Manager shall prepare a site-specific plan that includes but is not limited to the following information:

- 1. Map and description of existing conditions at the location where the RPSP species occurs.
- 2. Specifications for the amount and source of seed required for restoration at the location.
- 3. Site preparation methods, including steps to minimize ground disturbance;
- 4. Specifications regarding the seeding, maintenance, and monitoring of the plant restoration area(s);
- Reporting requirements and schedule;
- 6. Performance standards and success criteria for the plant restoration sites, by species and location; and
- 7. Adaptive management/remedial measures for responding to problems and changed circumstances.

Reference sites, performance standards, and success criteria will be identified concurrent with those for restoration within TIAs.

Maintenance and monitoring of the plant restoration sites will be closely coordinated with implementation of the Weed Control Plan, maintenance and monitoring of restoration within nearby TIAs, and RPSP enhancement/monitoring measures in the ROW. Maintenance and monitoring will occur

for five years or until the success criteria for the restoration area are met. All plant restoration activities will comply the impact avoidance and mitigation measures identified in the Final EIR/EIS, MMRCP, the BO, and other applicable Project documents and determinations. All plant restoration plans and activities for lands in CNF are subject to approval by the USFS.

The review and approval process for the site-specific plans will be the same as that for the vegetation restoration plans (see RPSV).

3.4 ROW ENHANCEMENT AND MONITORING PLAN

Concurrent with the preparation of the site-specific plans for restoration within TIAs, the ROW, or other locations, the Plant Restoration Program Manager will prepare a RPSP ROW Enhancement and Monitoring Plan. The plan will include but not be limited to the following information:

- 1. A map and description of the locations where RPSP enhancement/monitoring measures will be implemented for RPSP species that are being restored;
- 2. An assessment of current conditions and opportunities for weed management and/or seeding;
- 3. Enhancement and monitoring methods to be implemented at the locations; and
- 4. Reporting requirements and schedule.

The review and approval process for the ROW enhancement/monitoring plan will be the same as for the site-specific restoration plans (see section 3.4), except as follows. Enhancement/monitoring in Quino habitat will require USFWS written approval only if the activities entail ground disturbance.

3.5 Substituting Offsite Conservation for Restoration

To exercise the offsite mitigation options identified in this RPSP for desert beauty, Haydon's lotus, hairy stickleaf, or Moreno's currant, SDG&E will submit a written request to substitute offsite conservation for some or all of the restoration requirements for the species. The request will be submitted to the CPUC and, if the change is to the mitigation for a BLM or CNF sensitive species, to BLM and/or USFS for approval. The request will be accompanied by a report that documents occurrence of the species on the mitigation site, explains why the substitution is appropriate, and confirms that the HMP and endowment for the property cover management of the conserved population(s). Approval of the substitution will be provided in writing to SDG&E by the CPUC and BLM and/or USFS as appropriate.





4. REFERENCES

Aspen Environmental Group

2008 Final Environmental Impact Report/Environmental Impact Statement and Land Use Plan Amendment for the Sunrise Powerlink Project. Prepared for San Diego Gas and Electric Company (applicant) for the California Public Utilities Commission (CPUC) and United States Bureau of Land Management. October 2008.

California Invasive Plant Council (Cal-IPC)

2009 Invasive Plant Inventory. Available from http://www.cal-ipc.org/ip/inventory/index.php>.

California Native Plant Society (CNPS)

2010 Inventory of Rare and Endangered Plants (online edition v7-09c). Rare Plant Scientific Advisory Committee, California Native Plant Society, Sacramento, California. Available Online at: from http://www.cnps.org/inventory.

California Department of Fish and Game (CDFG)

2009 *Natural Diversity Database.* RareFind Version 3.1.0. Wildlife and Habitat Data Analysis Branch. Version Dated July 2009.

Canfield, R.H.

1941 Application of the Line Intercept Method in Sampling Range Vegetation. Journal of Forestry 39:388-394.

Hickman, J.C. (Ed.)

1993 *The Jepson Manual: Higher Plants of California.* University of California Press. Berkeley, California.

Munz, P.

1974 A California Flora and Supplement. University of California Press. Berkeley, California.

Pavlik, B.M., P.C. Muick, S.G. Johnson, and M. Popper

2006 Oaks of California. Cachuma Press and the California Oak Foundation, Los Olivos, California.

RECON Environmental, Inc

2009 Rare Pant Survey Report for the SDG&E Sunrise Powerlink Project. November 2009.

4. References Sunrise Powerlink RPSP

Rare Pant Survey Report for the SDG&E Sunrise Powerlink Project. December 2010. 2010b Weed Control Plan for the SDG&E Sunrise Powerlink Project. Reiser, C.H. 2001 Rare Plants of San Diego County. Aquafir Press. Imperial Beach, California. San Diego Gas & Electric Company 2010a Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Area. September 2010. Prepared with the assistance of ICF International and Chambers Group, Inc. 2010b Native Tree Restoration Plan for the Sunrise Powerlink Project. September 2010. Prepared with the assistance of ICF International. Project Modification Report for the Sunrise Powerlink Project. May 2010. 2010c 2010 Habitat Acquisition Plan and Habitat Management Plan for the Sunrise Powerlink Project. September 2010. Prepared with the assistance of TAIC and ICF International. St. John, T.V. Mycorrhizal Inoculation in Habitat Restoration. Land and Water. 42(5):17-19. 1998





APPENDIX A: SPECIES OCCURRENCE AND ESTIMATED IMPACTS BY LOCATION ALONG THE PROJECT ALIGNMENT





Table A-1. Species Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP277-1	Llaim, Stickland	ROW				9	9
MS-01	MP-24	EP2//-1	Hairy Stickleaf	Structure Impact Area	3				3
1012-01	IVIP-24	EP279-1	Hairy Stickleaf	ROW				50	50
		EP279-1	Hally Stickled	Structure Impact Area	3				3
		EP247	Haydon's lotus	ROW				6	6
	MP-32	LF247	Traydori S lotus	Work Area		3			3
		EP248	Jacumba milk-vetch	ROW				1	1
MS-02		EP244	Sticky geraea	Access Road Existing			4		4
1013-02		LF 244	Sticky geraea	ROW				17	17
	MP-33	EP245-1	Sticky geraea	Access Road	5				5
		LF243-1	Sticky geraea	ROW				61	61
		EP247	Haydon's lotus	ROW				10	10
MS-03	MP-37	EP228	Sticky geraea	Access Road Existing			2		2
1015 05	IVII 37	L1 220	Sticky geraca	ROW				1	1
		EP219-1	Sticky geraea	ROW				1	1
				Access Road	339	530			869
				grading		397			397
			Desert beauty	ROW				226	226
				String Site Area		1661			1661
MS-04	MP-39	EP220-1		Structure Impact Area	7				7
		LI 220 I	Jacumba milk-vetch	ROW				8	8
			Jacamba mink veteri	String Site Area		4			4
				Access Road	18				18
			Sticky geraea	grading	7				7
				String Site Area		12			12

<u>01.03.11</u> <u>11.29.10</u> Page | 35

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				grading		5			5
			Desert beauty	ROW				2002	2002
			Desert beauty	String Site Area		45			45
		EP221-2		Structure Impact Area	145				145
			Jacumba milk-vetch	ROW				2	2
			Sticky geraea	ROW				22	22
			Sticky geraea	Structure Impact Area	4				4
		EP221A	Desert beauty	ROW				280	280
		LFZZIA	Desert beauty	TSAP	285				285
			Jacumba milk-vetch	ROW				2	2
		EP214	Jacumba miik-vetcii	Work Area		18			18
			Sticky geraea	ROW				1	1
			Jacumba milk-vetch	ROW				2	2
MS-05	MP-40			Access Road	1				1
		EP215	Sticky geraea	Access Road Existing			3		3
			Sticky geraea	ROW				2	2
				Work Area		5			5
		EP217-1	Jacumba milk-vetch	ROW				12	12
	MP-40	EP214	Jacumba milk-vetch	ROW				2	2
			Jacumba milk-vetch	ROW				102	102
			Jacamba mik veten	Work Area		1			1
				Access Road	2				2
MS-06	MP-41	EP210		Access Road Existing			16		16
	IVII -₩1		Sticky geraea	ROW				11	11
				Structure Impact Area	3				3
				Work Area		11			11
		EP211	Jacumba milk-vetch	Access Road Existing			9		9

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				ROW				1	1
			Sticky geraea	ROW				30	30
			Jacumba milk-vetch	Access Road Existing			13		13
			Jacumba miik-vetch	Work Area		1			1
		EP213		Access Road Existing			1		1
		EP213	Cticky goraca	ROW				47	47
			Sticky geraea	Structure Impact Area	3				3
				Work Area		35			35
	MP-41	EP208	Jacumba milk-vetch	ROW				5	5
		EP206-1	Jacumba milk-vetch	Construction Yard		5			5
		EP200-1	Jacumba miik-vetcii	ROW				7	7
		EP207	Jacumba milk-vetch	ROW				3	3
MS-07	MP-42	EP208		Access Road	3				3
			Jacumba milk-vetch	Maintenance Pad	1				1
				ROW				26	26
				Structure Impact Area	18				18
				Work Area		24			24
			Jacumba milk-vetch	Construction Yard		647			647
		EP204-3	Jacumba miik-vetcii	ROW				1	1
			Sticky geraea	Construction Yard		1			1
			Jacumba milk-vetch	Access Road Existing			3		3
MS-08	MP-42	EP205-2	Jacumba mik-vetch	Construction Yard		89			89
1013-00	IVIF-42		Sticky geraea	Construction Yard		19	"		19
				Construction Yard		60			60
		EP206-1	Jacumba milk-vetch	ROW				26	26
		LF 200-1	Jacumba miik-vettii	Structure Impact Area	2				2
				Work Area		7			7

<u>01.03.11</u> <u>11.29.10</u> Page | 37

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP203-3	Chielas gorgon	grading		1			1
		EP203-3	Sticky geraea	String Site Area		4			4
			Desert beauty	grading		8			8
	MP-43		Desert beauty	String Site Area		189			189
	IVIP-45	EP204-3		Access Road		7			7
		EP204-3	Jacumba milk-vetch	grading		1			1
				String Site Area		5			5
			Sticky geraea	Access Road		1			1
				Access Road	1				1
				Access Road Existing			11		11
			Jacumba milk-vetch	grading		1			1
		EP200A-1		ROW				3	3
				Structure Impact Area	3				3
				Work Area		14			14
				Access Road	137				137
				Maintenance Pad	23				23
			Sticky geraea	ROW				165	165
MS-09	MP-43			Structure Impact Area	4				4
				Work Area		80			80
			Desert beauty	ROW				30	30
				Access Road Existing			3		3
		EP201-3	Jacumba milk-vetch	grading	5				5
		LF201-3	Jacumba miik-vetcii	ROW				8	8
				Work Area		3			3
			Sticky geraea	ROW				19	19
		EP202-3	Jacumba milk-vetch	Access Road Existing			2		2
		LF 202-3	Sticky geraea	Work Area		2			2

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		ED202-2	Jacumba milk-vetch	ROW				4	4
		EP203-3	Sticky geraea	ROW				3	3
	MP-44	EP200-3	Sticky geraea	String Site Area		1			1
	IVIP-44	EP200A-1	Sticky geraea	ROW				9	9
		EP196-1	Jacumba milk-vetch	Access Road Existing			4		4
		EP197-2	Jacumba milk-vetch	Access Road Existing			31		31
		EP197-2	Jacumba miik-vetcii	Work Area		5			5
			Jacumba milk-vetch	Access Road Existing			13		13
		EP198-3	Jacumba miik-vetcii	ROW				43	43
	MP-44		Sticky geraea	ROW				8	8
MS-10	IVIP-44		Jacumba milk-vetch	ROW				46	46
		EP199-3	Sticky geraea	ROW				29	29
	_		Silon, portion	Work Area		2			2
		EP200-3		Access Road	1				1
			Jacumba milk-vetch	ROW				3	3
				String Site Area		17			17
	MP-45	EP195-1	Jacumba milk-vetch	Access Road Existing			21		21
		EP192-1	Jacumba milk-vetch	Access Road Existing			8		8
		EP193-1	Jacumba milk-vetch	Access Road Existing			5		5
MS-11	MP-45	LF193-1	Jacumba mik-vetch	ROW				1	1
		EP194-2	Jacumba milk-vetch	Access Road Existing			60		60
		EP195-1	Jacumba milk-vetch	Access Road Existing			10		10
	MP-45	EP191-1	Sticky geraea	ROW				2	2
		EP190-2	Desert beauty	ROW				2	2
MS-12	MP-46		Jacumba milk-vetch	Access Road	3				3
	1017-40	EP191-1	Jacumba IIIIK-VEICH	Access Road Existing			25		25
			Sticky geraea	Access Road Existing			2		2

<u>01.03.11</u> <u>11.29.10</u> Page | 39

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				Access Road		7			7
		EP187-2	Jacumba milk-vetch	Access Road Existing			2		2
	MP-46	EP187-2		String Site Area		3			3
			Sticky geraea	Access Road		6			6
		EP188-1	Jacumba milk-vetch	Access Road Existing			8		8
		EP185-1	Jacumba milk-vetch	Access Road Existing			1		1
		EP185-1	Sticky geraea	Access Road Existing			5		5
			Jacumba milk-vetch	Access Road Existing			27		27
MS-13			Jacumba miik-vetch	ROW				11	11
IVIS-13		EP186-1		Access Road	23				23
			Sticky geraea	Access Road Existing			9		9
	MP-47			ROW				303	303
			Jacumba milk-vetch	Access Road	1				1
		EP187-2		Access Road Existing			1		1
				ROW				1	1
		EP187-2		Access Road Existing			7		7
			Sticky geraea	ROW				12	12
				String Site Area		32			32
				Access Road	3				3
		EP184-1	Jacumba milk-vetch	Access Road Existing	4		2		6
				ROW				50	50
	MP-47		Jacumba milk-vetch	Access Road Existing	3				3
MS-14		EP185-1	Jacumba miik-vetch	ROW				3	3
			Sticky geraea	ROW				7	7
		EP186-1	Sticky geraea	ROW				33	33
	MD 40	FD101	Dosort boouty	Access Road	10				10
	MP-48	EP181	Desert beauty	ROW				6	6

40 | Page <u>11.29.10 01.03.11</u>

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP179	Desert beauty	ROW				3	3
			December 1	Access Road	12				12
	MP-48	EP180	Desert beauty	ROW				7	7
			Jacumba milk-vetch	ROW				5	5
			EP180 Total		12			12	24
			MP-48 Total		12			15	27
			Desert beauty	Construction Yard		25			25
MS-15				Access Road Existing			1		1
1012-12		EP178		Construction Yard		34			34
		EP1/8	Jacumba milk-vetch	ROW				1	1
	MP-49			String Site Area		2			2
	IVIP-49			Work Area		2			2
		EP179	Jacumba milk-vetch	Access Road	2				2
				Access Road Existing			3		3
				Construction Yard		1			1
				ROW				27	27
		EP140	Sticky geraea	ROW				2	2
MS-16	MP-54	EP141	Sticky geraea	String Site Area		1			1
		EP142-1	Sticky geraea	ROW				6	6
MS-17	MP-55	EP136	Payson's caulanthus	Structure Impact Area	15				15
			Payson's caulanthus	Construction Yard		188			188
	MP-56	EP130-1	Rayless Ragwort	Construction Yard		13			13
			Sticky geraea	ROW				18	18
MS-18		EP128	Payson's caulanthus	Structure Impact Area	2				2
	MP-57		Jacumba milk-vetch	Access Road Existing	3				3
	IVIF -37	EP129	Jacumba IIIIK-VELCII	grading	4				4
			Sticky geraea	Access Road Existing			15		15

<u>01.03.11</u> <u>11.29.10</u> Page | 41

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-19	MP-61	EP109-1	Davisa ala savila athus	ROW				36	36
1012-19	INIA-01	EP109-1	Payson's caulanthus	Structure Impact Area	69				69
	MP-64	EP95	Sticky geraea	Access Road Existing			6		6
				Access Road		16			16
				Maintenance Pad	1				1
		EP89-1	Sticky geraea	String Site Area		1			1
MS-20	MP-65			Structure Impact Area	15				15
				Work Area		22			22
		EP91	Sticky geraea	String Site Area		13			13
		EP94	Sticky geraea	Access Road	4				4
	MP-66	EP89-1	Sticky geraea	String Site Area		2			2
		EP82	Sticky geraea	ROW				1	1
		LFOZ	Sticky geraea	Structure Impact Area	1				1
				Access Road	7				7
MS-21	MP-67	EP83	Sticky geraea	grading	4	14			18
				String Site Area		30			30
		EP84	Sticky geraea	Access Road	22				22
		LF04	Sticky geraea	grading	3				3
MS-22	MP-68	EP78	Sticky geraea	ROW				2	2
1013-22	IVIP-00	EP/O	Sticky geraea	Structure Impact Area	4				4
		EP69	Tecate tarplant	Access Road Existing			16		16
	MP-70	EP70	Tecate tarplant	Access Road Existing			78		78
MS-23		EP73	Tecate tarplant	Access Road Existing			150		150
	MP-71	EP69	Tocato tambant	Access Road Existing			135		135
	IVIP-/1	EP09	Tecate tarplant	Work Area		1			1
MS-24	MP-71	EP66	Tecate tarplant	Access Road Existing			36		36
1013-24	IVIF-/I	EP67	Tecate tarplant	grading		242			242

42 | Page 11.29.10 01.03.11

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				Maintenance Pad	53				53
				String Site Area		953			953
				Work Area		159			159
		EP68	Tecate tarplant	Access Road Existing			72		72
		EP69	Tecate tarplant	Access Road Existing			27		27
	MD 72	EP64	Tecate tarplant	Access Road Existing			1		1
	MP-72	EP65-1	Tecate tarplant	Access Road Existing			20		20
		EDG2		Access Road Existing			40		40
. 46 27	MP-72	EP63	Tecate tarplant	ROW				86	86
MS-27		EP64	Tecate tarplant	Access Road Existing			104		104
	MP-73	EP58-2	Tecate tarplant	Access Road Existing			11		11
		EP51-1	Tecate tarplant	Access Road Existing			20		20
	NAD 74		Delicate clarkia	ROW				10	10
MS-28	MP-74	EP52-1		Access Road Existing			4		4
			Tecate tarplant	ROW				284	284
	MP-75	EP51-1	Tecate tarplant	ROW				33	33
N45 20	NAD 74	EP51-1	Tecate tarplant	Access Road Existing			55		55
MS-29	MP-74	EP52-1	Tecate tarplant	Access Road Existing			1		1
		FD40	San Diego gumplant	Access Road Existing			1		1
NAC 20	NAD 75	EP49	Tecate tarplant	Access Road Existing			27		27
MS-30	MP-75	EDEO	Tarakatandan	Access Road Existing			4		4
		EP50	Tecate tarplant	ROW				234	234
				Access Road	1				1
MS-31	MP-78	EP40-1	Moreno currant	grading	1				1
				ROW				3	3
MS-32	MP-82	EP27-1	Sticky geraea	Access Road		1			1
MS-33	MP-89	SSDE2	Felt-leaved monardella	Access Road	55				55

<u>01.03.11</u> <u>11.29.10</u> Page | 43

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-34	MP-98	CP87-1	Deliente elevire	ROW				1100	1100
IVI3-34	IVIP-98	CP87-1	Delicate clarkia	Work Area		40			40
		CP81-1	Delicate clarkia	Access Road Existing			40		40
MS-35	MP-99	CP82-1	Delicate clarkia	Access Road Existing			150		150
1013-33	IVIP-99	CP02-1	Delicate clarkia	ROW				420	420
		CP83	Delicate clarkia	ROW				300	300
	MP-100	CP74-2	Delicate clarkia	Access Road Existing			170		170
MS-36	IVIP-100	CP74-2	Delicate clarkia	ROW				365	365
	MP-101	CP72-2	Delicate clarkia	ROW				20	20
MS-37	MP-101	CP71	Delicate clarkia	ROW				1110	1110
1013-37	MP-102	CP69-2	Delicate clarkia	Access Road Existing	1				1
MS-38	MP-104	CP61-1	Delicate clarkia	Structure Impact Area	1				1
			Delicate clarkia	ROW				235	235
		CP47-2	Lakeside ceanothus	ROW				20	20
MS-39	MP-107		Lakeside Ceallottius	Structure Impact Area	2				2
1013-33	IVIF-107		Delicate clarkia	ROW				30	30
		CP48-2	Lakeside ceanothus	ROW				13	13
			Lakeside Cearlottius	Structure Impact Area	5				5
				Access Road	3				3
		,		grading	4				4
		CP10	Nuttall's scrub oak	Maintenance Pad	6				6
MS-40	MP-116			ROW				8	8
1013-40	IVIF-110			Structure Impact Area	1				1
		CP11-1	Nuttall's scrub oak	grading	1				1
		Ct 11-1	Nuttail 5 Stills Oak	Maintenance Pad	2				2
		CP8-2	Nuttall's scrub oak	ROW				41	41
				TOTAL	1374	5729	1495	8197	16,795

44 | Page <u>11.29.10 01.03.11</u>

Table A-2. Jacumba Milk-Vetch Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-02	MP-32	EP248	Jacumba milk-vetch	ROW				1	1
		EP220-1	Jacumba milk-vetch	ROW				8	8
MS-04	MP-39	EP22U-1	Jacumba miik-vetcii	String Site Area		4			4
		EP221-2	Jacumba milk-vetch	ROW				2	2
		EP214	Jacumba milk-vetch	ROW				2	2
MS-05	MP-40	EP214	Jacumba miik-vetcii	Work Area		18			18
1013-05	IVIP-40	EP215	Jacumba milk-vetch	ROW				2	2
		EP217-1	Jacumba milk-vetch	ROW)		12	12
	MP-40	EP214	Jacumba milk-vetch	ROW				2	2
		EP210	Jacumba milk-vetch	ROW				102	102
	_	EPZIU	Jacumba miik-vetcii	Work Area		1			1
MS-06	MP-41	EP211	Jacumba milk-vetch	Access Road Existing			9		9
	IVIP-41	EPZII	Jacumba miik-vetch	ROW				1	1
		EP213	Jacumba milk-vetch	Access Road Existing			13		13
		EP215	Jacumba miik-vetch	Work Area		1			1
	MP-41	EP208	Jacumba milk-vetch	ROW				5	5
		EP206-1	Jacumba milk-vetch	Construction Yard		5			5
		EP200-1	Jacumba miik-vetch	ROW				7	7
		EP207	Jacumba milk-vetch	ROW				3	3
MS-07	MP-42			Access Road	3				3
	IVIP-42			Maintenance Pad	1				1
		EP208	Jacumba milk-vetch	ROW				26	26
		2. 200	Jasanisa min veter	Structure Impact Area	18				18
				Work Area		24			24

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP204-3	Jacumba milk-vetch	Construction Yard		647			647
		EP204-3	Jacumba miik-vetcii	ROW				1	1
		EP205-2	Jacumba milk-vetch	Access Road Existing			3		3
	MP-42	EP203-2	Jacumba miik-vetcii	Construction Yard		89			89
	1017-42			Construction Yard		60			60
MS-08		EP206-1	Jacumba milk-vetch	ROW				26	26
		LF200-1	Jacumba miik-vetcii	Structure Impact Area	2				2
				Work Area		7			7
				Access Road		7			7
	MP-43	EP204-3	Jacumba milk-vetch	grading		1			1
				String Site Area		5			5
				Access Road	1				1
			Jacumba milk-vetch	Access Road Existing			11		11
		EP200A-1		grading		1			1
		LF200A-1	Jacumba miik-vetcii	ROW	3	3			
				Structure Impact Area	3				3
MS-09	MP-43			Work Area		14			14
1013-03	IVIF-43			Access Road Existing			3		3
		EP201-3	Jacumba milk-vetch	grading	5				5
		LF201-3	Jacumba miik-vetcii	ROW				8	8
				Work Area		3			3
		EP202-3	Jacumba milk-vetch	Access Road Existing			2		2
		EP203-3	Jacumba milk-vetch	ROW				4	4
		EP196-1	Jacumba milk-vetch	Access Road Existing			4		4
MS-10	MP-44	EP197-2	Jacumba milk-vetch	Access Road Existing			31		31
1412-10	IVIF -44	LF 131-Z	Jacumba miik-vettii	Work Area		5			5
		EP198-3	Jacumba milk-vetch	Access Road Existing			13		13

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				ROW				43	43
		EP199-3	Jacumba milk-vetch	ROW				46	46
				Access Road	1				1
		EP200-3	Jacumba milk-vetch	ROW				3	3
				String Site Area		17			17
	MP-45	EP195-1	Jacumba milk-vetch	Access Road Existing			21		21
		EP192-1	Jacumba milk-vetch	Access Road Existing			8		8
		EP193-1	Jacumba milk-vetch	Access Road Existing			5		5
MS-11	MP-45	EP193-1	Jacumba miik-vetch	ROW				1	1
		EP194-2	Jacumba milk-vetch	Access Road Existing			60		60
		EP195-1	Jacumba milk-vetch	Access Road Existing			10		10
MS-12	MP-46	EP191-1	Jacumba milk-vetch	Access Road	3				3
IVI3-12	IVIP-40	EP191-1	Jacumba miik-vetcii	Access Road Existing			25		25
				Access Road		7			7
	MP-46	EP187-2	Jacumba milk-vetch	Access Road Existing			2		2
	IVIP-46			String Site Area		3			3
		EP188-1	Jacumba milk-vetch	Access Road Existing			8		8
NAC 12		EP185-1	Jacumba milk-vetch	Access Road Existing			1		1
MS-13		EP186-1	Jacumba milk-vetch	Access Road Existing			27		27
	NAD 47	EP186-1	Jacumba miik-vetch	ROW				11	11
	MP-47			Access Road	1				1
		EP187-2	Jacumba milk-vetch	Access Road Existing			1		1
		_		ROW				1	1

<u>01.03.11 11.29.10</u> Page | 47

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				Access Road	3				3
		EP184-1	Jacumba milk-vetch	Access Road Existing	4		2		6
MS-14	MP-47			ROW				50	50
		EP185-1	Jacumba milk-vetch	Access Road Existing	3				3
		EN192-1	Jacumba miik-vetch	ROW				3	3
	MP-48	EP180	Jacumba milk-vetch	ROW				5	5
				Access Road Existing			1		1
				Construction Yard		34			34
		EP178	Jacumba milk-vetch	ROW				1	1
MS-15				String Site Area		2			2
IVIS-15	MP-49			Work Area		2			2
				Access Road	2				2
		ED170	la avvada a va illa vatala	Access Road Existing			3		3
		EP179	Jacumba milk-vetch	Construction Yard		1			1
				ROW				27	27
MC 10	MD 57	ED120	la averaba escillo escoto	Access Road Existing	3				3
MS-18	MP-57	EP129	Jacumba milk-vetch	grading	4				4
				TOTAL	57	958	263	406	1684

48 | Page <u>11.29.10 01.03.11</u>

Table A-3. Payson's Caulanthus Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-17	MP-55	EP136	Payson's caulanthus	Structure Impact Area	15				15
N4C 10	MP-56	EP130-1	Payson's caulanthus	Construction Yard		188			188
MS-18	MP-57	EP128	Payson's caulanthus	Structure Impact Area	2				2
N4C 10	MD C1	ED400.4	Developed and anthrop	ROW				36	36
MS-19	MP-61	EP109-1	Payson's caulanthus	Structure Impact Area	69				69
				TOTAL	86	188		36	310

Table A-4. Lakeside Ceanothus Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		CD47.3	Lakosida Caanathus	ROW				20	20
MC 30	MS-39 MP-107	CP47-2	Lakeside Ceanothus	Structure Impact Area	2				2
1013-39	IVIP-107	CD40.2	Lakeside Ceanothus	ROW				13	13
	CP48-2		Lakeside Cealiotilus	Structure Impact Area	5				5
				TOTAL	7			33	40

Table A-5. Delicate Clarkia Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-28	MP-74	EP52-1	Delicate clarkia	ROW				10	10
NAC 24	MD 00	CD07.1	Deliente elevire	ROW				1100	1100
MS-34	MP-98	CP87-1	Delicate clarkia	Work Area		40			40
		CP81-1	Delicate clarkia	Access Road Existing			40		40
N4C 25	NAD 00	CD02.4	Deliante elevida	Access Road Existing			150		150
MS-35	MP-99	CP82-1	Delicate clarkia	ROW				420	420
		CP83	Delicate clarkia	ROW				300	300
	140.400	0074.2	5 li . I li	Access Road Existing			170		170
MS-36	MP-100	CP74-2	Delicate clarkia	ROW				365	365
	MP-101	CP72-2	Delicate clarkia	ROW				20	20
N4C 27	MP-101	CP71	Delicate clarkia	ROW				1110	1110
MS-37	MP-102	CP69-2	Delicate clarkia	Access Road Existing	1				1
MS-38	MP-104	CP61-1	Delicate clarkia	Structure Impact Area	1				1
N4C 20	MD 407	CP47-2	Delicate clarkia	ROW				235	235
MS-39	MP-107	CP48-2	Delicate clarkia	ROW				30	30
				TOTAL	2	40	360	3590	3992

Table A-6. Tecate Tarplant Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP69	Tecate tarplant	Access Road Existing			16		16
	MP-70	EP70	Tecate tarplant	Access Road Existing			78		78
MS-23		EP73	Tecate tarplant	Access Road Existing			150		150
	NAD 74	EDCO	To cot a tomologic	Access Road Existing			135		135
	MP-71	EP69	Tecate tarplant	Work Area		1			1
		EP66	Tecate tarplant	Access Road Existing			36		36
				Grading		242			242
		5067		Maintenance Pad	53				53
	MP-71	EP67	Tecate tarplant	String Site Area		953			953
MS-24				Work Area		159			159
		EP68	Tecate tarplant	Access Road Existing			72		72
		EP69	Tecate tarplant	Access Road Existing			27		27
	140.72	EP64	Tecate tarplant	Access Road Existing			1		1
	MP-72	EP65-1	Tecate tarplant	Access Road Existing			20		20
		EDC3	T	Access Road Existing			40		40
NAC 27	MP-72	EP63	Tecate tarplant	ROW				86	86
MS-27		EP64	Tecate tarplant	Access Road Existing			104		104
	MP-73	EP58-2	Tecate tarplant	Access Road Existing			11		11
		EP51-1	Tecate tarplant	Access Road Existing			20		20
	MP-74			Access Road Existing			4		4
MS-28		EP52-1	Tecate tarplant	ROW				284	284
	MP-75	EP51-1	Tecate tarplant	ROW				33	33
N45 26	NAD 74	EP51-1	Tecate tarplant	Access Road Existing			55		55
MS-29	MP-74	EP52-1	Tecate tarplant	Access Road Existing			1		1

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP49	Tecate tarplant	Access Road Existing			27		27
MS-30	MP-75	EP50	Tocata tarniant	Access Road Existing			4		4
		EPSU	Tecate tarplant	ROW				234	234
				TOTAL	53	1355	801	637	2846

Table A-7. Sticky Geraea Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP244	Sticky geraea	Access Road Existing			4		4
MS-02	MP-33	EP244	Sticky geraea	ROW				17	17
IVI3-U2	IVIP-33	EP245-1	Cticles garage	Access Road	5				5
		EP245-1	Sticky geraea	ROW				61	61
MC 02	MP-37	ED220	Chielas	Access Road Existing			2		2
MS-03	IVIP-37	EP228	Sticky geraea	ROW				1	1
		EP219-1	Sticky geraea	ROW				1	1
				Access Road	18				18
NAC OA	MP-39	EP220-1	Sticky geraea	Grading	7				7
MS-04	IVIP-39			String Site Area		12			12
		ED224 2	Chieferen	ROW				22	22
		EP221-2	Sticky geraea	Structure Impact Area	4				4
		EP214	Sticky geraea	ROW				1	1
NAC OF	NAD 40			Access Road	1				1
MS-05	MP-40	EP215	Sticky geraea	Access Road Existing			3		3
				ROW				2	2

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				Work Area		5			5
				Access Road	2				2
				Access Road Existing			16		16
		EP210	Sticky geraea	ROW				11	11
				Structure Impact Area	3				3
MS-06	MP-41			Work Area		11			11
IVIS-U6	IVIP-41	EP211	Sticky geraea	ROW				30	30
				Access Road Existing			1		1
		ED242	Chialm, same as	ROW				47	47
		EP213	Sticky geraea	Structure Impact Area	3				3
				Work Area		35			35
	MP-42	EP204-3	Sticky geraea	Construction Yard		1			1
	IVIP-42	EP205-2	Sticky geraea	Construction Yard		19			19
MS-08		EP203-3	Sticky gove on	Grading		1			1
	MP-43	EP203-3	Sticky geraea	String Site Area		4			4
		EP204-3	Sticky geraea	Access Road		1			1
				Access Road	137				137
				Maintenance Pad	23				23
		EP200A-1	Sticky geraea	ROW				165	165
	MP-43			Structure Impact Area	4				4
MS-09	IVIP-45	· ·		Work Area		80			80
1013-09		EP201-3	Sticky geraea	ROW				19	19
		EP202-3	Sticky geraea	Work Area		2			2
		EP203-3	Sticky geraea	ROW				3	3
	MP-44	EP200-3	Sticky geraea	String Site Area		1			1
	IVIP-44	EP200A-1	Sticky geraea	ROW				9	9

<u>01.03.11</u> <u>11.29.10</u> Page | 53

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP198-3	Sticky geraea	ROW				8	8
MS-10	MP-44	EP199-3	Sticky goroop	ROW				29	29
		EP199-3	Sticky geraea	Work Area		2			2
MS-12	MP-45	EP191-1	Sticky geraea	ROW				2	2
IVIS-12	MP-46	EP191-1	Sticky geraea	Access Road Existing			2		2
	MP-46	EP187-2	Sticky geraea	Access Road		6			6
		EP185-1	Sticky geraea	Access Road Existing			5		5
				Access Road	23				23
MS-13		EP186-1	Sticky geraea	Access Road Existing			9		9
IVIS-13	MP-47			ROW				303	303
				Access Road Existing			7		7
		EP187-2	Sticky geraea	ROW				12	12
				String Site Area		32			32
MS-14	MP-47	EP185-1	Sticky geraea	ROW				7	7
1013-14	IVIP-47	EP186-1	Sticky geraea	ROW				33	33
		EP140	Sticky geraea	ROW				2	2
MS-16	MP-54	EP141	Sticky geraea	String Site Area		1			1
		EP142-1	Sticky geraea	ROW				6	6
MS-18	MP-56	EP130-1	Sticky geraea	ROW				18	18
1012-10	MP-57	EP129	Sticky geraea	Access Road Existing			15		15
	MP-64	EP95	Sticky geraea	Access Road Existing			6		6
				Access Road		16			16
				Maintenance Pad	1				1
MS-20	MP-65	EP89-1	Sticky geraea	String Site Area		1			1
	IVIF-03			Structure Impact Area	15				15
				Work Area		22			22
		EP91	Sticky geraea	String Site Area		13			13

54 | Page <u>11.29.10 01.03.11</u>

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
		EP94	Sticky geraea	Access Road	4				4
	MP-66	EP89-1	Sticky geraea	String Site Area		2			2
		ED03	Cticles are as	ROW				1	1
		EP82	Sticky geraea	Structure Impact Area	1				1
				Access Road	7				7
MS-21	MP-67	EP83	Sticky geraea	Grading	4	14			18
				String Site Area		30			30
		5D0.4	Chialman and an	Access Road	22				22
		EP84	Sticky geraea	Grading	3				3
146.22	145.60	5570	c.: I	ROW				2	2
MS-22	MP-68	EP78	Sticky geraea	Structure Impact Area	4				4
MS-32	MP-82	EP27-1	Sticky geraea	Access Road		1			1
	•			TOTAL	291	312	70	812	1485

Table A-8. San Diego Gumplant Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-30	MP-75	EP49	San Diego Gumplant	Access Road Existing			1		1
				TOTAL			1		1

Table A-9. Desert Beauty Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				Access Road	339	530			869
				Grading		397			397
		EP220-1	Desert beauty	ROW				226	226
				String Site Area		1661			1661
				Structure Impact Area	7				7
MS-04	MP-39			Grading		5			5
				ROW				2002	2002
		EP221-2	Desert beauty	String Site Area		45			45
				Structure Impact Area	145				145
		EP221A	Desert beauty	ROW				280	280
	EPZZIA Desert		Desert beauty	TSAP	285				285
MS-08	MP-43	EP204-3	Descrit beauty	grading		8			8
1012-08	IVIP-43	EP204-3	Desert beauty	String Site Area		189			189
MS-09	MP-43	EP201-3	Desert beauty	ROW				30	30
MS-12	MP-46	EP190-2	Desert beauty	ROW				2	2
MS-14	MP-48	EP181	Desert beauty	Access Road	10				10
IVIS-14	IVIP-48	Eb191	Desert beauty	ROW				6	6
		EP179	Desert beauty	ROW				3	3
MS-15	MP-48	FD190	Desert heavity	Access Road	12				12
INI2-12		EP180	Desert beauty	ROW				7	7
	MP-49	EP178	Desert beauty	Construction Yard		25			25
				TOTAL	798	2860	2556		6214

Table A-10. Haydon's Lotus Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
	MP-32	ED2.47	Haudaw'a Latus	ROW				6	6
MS-02	IVIP-32	EP247	Haydon's Lotus	Work Area		3			3
	MP-33	EP247	Haydon's Lotus	ROW				10	10
				TOTAL		3		16	19

Table A-11. Hairy Stickleaf Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
	EP277-1	Hain, Chialdana	ROW				9	9	
MS-01		EP2/7-1	7-1 Hairy Stickleaf	Structure Impact Area	3				3
1012-01	MP-24	EP279-1	Hainy Stickloaf	ROW				50	50
		EP279-1	Hairy Stickleaf	Structure Impact Area	3				3
				TOTAL	6			59	65

Table A-12. Felt-Leaved Monardella Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-33	MP-89	Suncrest (SSDE2)	Felt-leaved Monardella	Access Road	55				55
				TOTAL	55				55

Table A-13. Nuttall's Scrub Oak Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
				Access Road	3				3
				Grading	4				4
		CP10	Nuttall's Scrub Oak	Maintenance Pad	5				5
				ROW				8	8
MS-40	MP-116			Structure Impact Area	1				1
		CP11-2	Nuttall's Scrub	Grading	1				1
		CP11-2	Oak	Maintenance Pad	2				2
		CP8-2	Nuttall's Scrub Oak	ROW				41	41
				TOTAL	17			49	66

Table A-14. Moreno Currant Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
			Access Road	1				1	
MS-31	MP-78	EP40-1	Moreno Currant	Grading	1				1
				ROW				3	3
				TOTAL	2			3	5

Table A-15. Rayless Ragwort Occurrence and Estimated Impacts by Location along Project Alignment (number)

Map Book Sheet	Milepost	Structure #	Species	Location	Permanent Impact Area	Temporary Impact Area	Impact from Road Use	In ROW	Total
MS-18	MP-56	EP130-1	Rayless Ragwort	Construction Yard		13			13
				TOTAL		13			13





APPENDIX B: RPSP MAPBOOK

Bound Separately Because of Size









APPENDIX C: OFFSITE MITIGATION LANDS

TABLE C-1. EL CAPITAN	 63
TABLE C-2. CHOCOLATE CANYON	 63
TABLE C-3. LIGHTNER	 64
TABLE C- 4. LONG POTRERO	 64
FIGURE 1. EL CAPITAN	
FIGURE 2. CHOCOLATE CANYON	
FIGURE 3. LIGHTNER	
FIGURE 4. LIGHTNER	 73
FIGURE E. SUGRIE	75



Table C-1. El Capitan

ACRES	381.40
Local Jurisdiction	San Diego County El Capitan Open Space Preserve, CNF
CROSSED BY PROJECT ROW	No
Conserved as Mitigation for Project Impacts to	Sensitive Vegetation Communities
INCIDENTAL BIOLOGICAL VALUES	Nesting Golden Eagles
ALSO A MITIGATION SITE FOR PROJECT IMPACTS TO	
JURISDICTIONAL WATERS	No
SENSITIVE PLANTS	Yes (Lakeside ceanothus)
NATIVE TREES	No
OTHER	MSCP considerations; golden eagle conservation.
ADJACENT CONSERVED/PUBLIC LANDS	CNF, San Diego County El Capitan Open Space Preserve
Proposed Land Manager/Owner	County of San Diego or San Diego River Conservancy
ESTIMATED START-UP MANAGEMENT COSTS	\$235,817
ESTIMATED ENDOWMENT FOR ONGOING MANAGEMENT	\$1,440,192
Acquisition Status	Acquired by SDG&E

Table C-2. Chocolate Canyon

ACRES	76.14
LOCAL JURISDICTION	County of San Diego
CROSSED BY PROJECT ROW	Yes
CONSERVED AS MITIGATION FOR PROJECT IMPACTS TO	Sensitive Vegetation
INCIDENTAL BIOLOGICAL VALUES	Southwestern Willow Flycatcher, Least Bell's Vireo
ALSO A MITIGATION SITE FOR PROJECT IMPACTS TO	
JURISDICTIONAL WATERS	Yes
SENSITIVE PLANTS	No
NATIVE TREES	Yes (via oak woodland conservation)
OTHER	MSCP considerations
ADJACENT CONSERVED/PUBLIC LANDS	City of San Diego Cornerstone Lands,
PROPOSED LAND MANAGER/OWNER	City of San Diego
ESTIMATED START-UP MANAGEMENT COSTS	\$107,233
ESTIMATED ENDOWMENT FOR ONGOING MANAGEMENT	\$598,088
Acquisition Status	Acquired by SDG&E

Table C-3. Lightner

Acres	705.86
Local Jurisdiction	County of San Diego
CROSSED BY PROJECT ROW	Yes (also Substation Site)
Conserved as Mitigation for Project Impacts to	Sensitive Vegetation Communities
Incidental Biological Values	Hermes Copper Habitat and Potential Quino Habitat
ALSO A MITIGATION SITE FOR PROJECT IMPACTS TO	
JURISDICTIONAL WATERS	Yes
SENSITIVE PLANTS	Yes (Felt-leaved Monardella)
NATIVE TREES	Yes (via oak woodland conservation)
OTHER	None
ADJACENT CONSERVED/PUBLIC LANDS	CNF
Proposed Land Manager/Owner	Conservancy
ESTIMATED START-UP MANAGEMENT COSTS	\$364,446
ESTIMATED ENDOWMENT FOR ONGOING MANAGEMENT	\$1,479,648
Acquisition Status	Acquired by SDG&E

Table C- 4. Long Potrero

Acres	1212.27
LOCAL JURISDICTION	County of San Diego
CROSSED BY PROJECT ROW	Yes
Conserved as Mitigation for Project Impacts to	Sensitive Vegetation, Quino, Arroyo Toad
INCIDENTAL BIOLOGICAL VALUES	Sensitive Plants
ALSO A MITIGATION SITE FOR PROJECT IMPACTS TO	
JURISDICTION WATERS	Yes
SENSITIVE PLANTS	Tecate Tarplant, possibly Moreno currant
NATIVE TREES	Yes (via oak woodland conservation)
OTHER	None
ADJACENT CONSERVED/PUBLIC LANDS	CNF, BLM, Hauser Wilderness Area
PROPOSED LAND MANAGER/OWNER	Conservancy
ESTIMATED START-UP MANAGEMENT COSTS	\$527,356
ESTIMATED ENDOWMENT FOR ONGOING MANAGEMENT	\$3,279,064
Acquisition Status	Acquired by SDG&E

ACRES	199.39
LOCAL JURISDICTION	County of Imperial
CROSSED BY PROJECT ROW	No
Conserved as Mitigation for Project Impacts to	Sensitive Vegetation and Barefoot Banded Gecko
INCIDENTAL BIOLOGICAL VALUES	Palm Oasis, Peninsular Bighorn Sheep Habitat
ALSO A MITIGATION SITE FOR PROJECT IMPACTS TO	
JURISDICTION WATERS	Yes
SENSITIVE PLANTS	Possibly desert beauty, Haydon's lotus, and hairy stickleaf
Native Trees	No
OTHER	None
ADJACENT TO EXISTING CONSERVED/PUBLIC LANDS:	BLM, Caltrans, San Diego County Park (across county border), Anza-Borrego Desert State Park (in SD County)
Proposed Land Manager/Owner	State Parks
ESTIMATED START-UP MANAGEMENT COSTS	\$148,922
ESTIMATED ENDOWMENT FOR ONGOING MANAGEMENT	\$970,596
Acquisition Status	Acquired by SDG&E











