

cc: ALISA D.



County Executive Office

Memorandum

January 24, 2008

To: John Moorlach, Chairman Board of Supervisors

From: Thomas G. Mauk, County Executive Officer

Subject: Exception to the Rule 21

John Moorlach
by [Signature]
COS

#546B

The County Executive Office is requesting a supplemental for the January 29, 2008 Board Meeting.

Agency: Resources and Development Management Department
Subject: Wilkinson Road Bridge NRCS Damage Survey Report
District: 3rd

Reason for supplemental: To expedite Federal approvals of funding for the repair of the damaged Wilkinson Bridge

Concur:

John Moorlach
by [Signature]
COS

cc: Members, Board of Supervisors
Rob Richardson, Assistant to the County Executive Officer
Ben De Mayo, County Counsel



**SUPPLEMENTAL AGENDA ITEM
AGENDA STAFF REPORT**

S46B

ASR Control

MEETING DATE: January 29, 2008
LEGAL ENTITY TAKING ACTION: Orange County Board of Supervisors
BOARD OF SUPERVISORS DISTRICT(S): 3
SUBMITTING AGENCY/DEPARTMENT: Resources and Development Management Department
DEPARTMENT CONTACT PERSON(S): Ignacio Ochoa, (714) 834-2308
 Nadeem Majaj, (714) 834-3719

SUBJECT: Wilkinson Road Bridge NRCS Damage Survey Report

CEO CONCUR

COUNTY COUNSEL REVIEW

N/A NRCS. then →

CLERK OF THE BOARD

Discussion

3 Votes Board Majority

Budgeted: No **Current Year Cost:** \$171,600 **Annual Cost:** Nominal
Staffing Impact: N/A **# of Positions:** N/A **Sole Source:** N/A
Current Fiscal Year Revenue: \$128,700 from NRCS
Funding Source: NRCS funding 75%, Road Fund 25%

Prior Board Action: N/A

RECOMMENDED ACTION(S)

1. Authorize the Director, Resources and Development Management Department (RDMD), or designee to accept and counter-sign the Santiago Fire Damage Survey Report with respect to the Wilkinson Road Bridge findings prepared by the Natural Resources Conservation Service (NRCS).
2. Direct RDMD to return to the Board with status update and next steps for the County to secure NRCS funding when Congress approves funding for the Wilkinson Road Bridge repair.
3. Direct RDMD to contact the owners of the bridge to obtain an entry permit, indemnification, and any easements required for County to repair the bridge and maintain it in the future.
4. Find that the recommended actions are Categorical Exempt (Class 8) from the provisions of CEQA pursuant to Section 15308 of the CEQA Guidelines

SUMMARY:

Accepting and counter-signing the Santiago Fire Damage Survey Report will allow NRCS to initiate the funding process through Congress for the Wilkinson Road Bridge repair under the Emergency Watershed Protection (EWP) program.

BACKGROUND INFORMATION:

On November 7, 2007, following the Santiago Fire, the County requested federal assistance from U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) under provisions of Section 403, Agricultural Credit Act of 1978, to restore watersheds affected by the Santiago Fire. Specifically, the County requested that NRCS assist in the assessment of vulnerabilities and identification of assistance measures NRCS might provide under the Emergency Watershed Protection program.

In response to the County's request for assistance, NRCS conducted a survey of the entire 28,000-acre burnt area in late October 2007. On November 15, 2007, NRCS published the attached Emergency Watershed Protection Damage Survey Report (DSR) for Santiago Fire Streambank Protection. In it, NRCS concluded that heavy debris flows and flooding will damage the Wilkinson Road Bridge causing the Harding Creek channel to be plugged which could damage utilities and homes along both sides of the channel. Therefore, the NRCS recommends that the Wilkinson Road Bridge be repaired at an estimated cost of \$171,600 of which NRCS will fund \$128,700 (75% of the total cost) upon approval by Congress.

Wilkinson Road Bridge is a privately owned and maintained bridge. It serves approximately ten (10) homes in Modjeska Canyon. By accepting and counter-signing the report, the County will be sponsoring the repair of this privately owned bridge. As a sponsor, the County will be responsible for acquiring necessary land rights, obtaining all necessary regulatory permits, preparing plans for repair, construction and operation and maintenance of the bridge for 25 years.

FINANCIAL IMPACT:

NRCS will provide the County \$128,700 for the bridge repair when approved by Congress. Under the EWP program, the County is obligated to provide 25% of the bridge repair cost (up to \$42,900) for the local cost share and implementation of the work. The County's 25% share can be in cash, in-kind services, or a combination of both.

STAFFING IMPACT:

N/A

REVIEWING AGENCIES:

N/A

ATTACHMENT(S):

Attachment A – Santiago Fire Damage Survey Report, prepared by NRCS

Attachment A

EMERGENCY WATERSHED PROTECTION
Damage Survey Report

for

SANTIAGO FIRE
HARDING CANYON AREA

DSR NO. (01-07-3320)

October 28, 2007

Orange, CA

Prepared By:

USDA Natural Resources Conservation Service
950 N. Ramona Blvd., Suite 6
San Jacinto, California 92582

In Cooperation With:

County of Orange
1750 Douglas Road
Anaheim, Ca. 92806-6031

Co-Sponsored by::

November 15, 2007

Attachment A

EMERGENCY WATERSHED PROTECTION

Damage Survey Report

SANTIAGO FIRE – ORANGE COUNTY

Streambank Protection

DSR No. 01-07-3320

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Attachment A

United States Department of Agriculture
Natural Resources Conservation Service

OMB No. 0578-0030
NRCS-PDM-20

DAMAGE SURVEY REPORT (DSR) Emergency Watershed Protection Program – Recovery

Section 1A:

Date of Report: 11-14-2007

DSR Number: 01-07-3320 Project Number: _____

NRCS Entry Only

Eligible:	YES	NO
Approved:	YES	NO
Funding Priority Number (from Section 4)		
Limited Resource Area:	YES	NO

Section 1B: Sponsor Information

Sponsor Name: Orange County

Address: 1750 Douglas Road

City/State/Zip: Anaheim, Ca, 92806-6031

Contact Name: Bill Hisey, Manager of Public Works Operations & Maintenance

Telephone Number: 714-973-6699

E-mail: bill.hisey@rdmd.ocgov.com

Sponsor Name: N/A

Address:

City/State/Zip:

Contact Name:

Telephone Number:

E-mail:

Sponsor Name: N/A

Address:

City/State/Zip:

Contact Name:

Telephone Number:

E-mail:

Section 1C: Site Location Information

County: Orange

State: California

Congressional District: 47th Gary Miller

Latitude:

Section: 29

Township: 5S

Range: 7W

UTM Coordinates:

Drainage Name: Santiago Canyon

Reach: Harding Canyon

Damage Description. The entire 3,600 acre Harding Canyon Watershed was burned during the 30,000 acre Santiago fire. Forest Service has determined that the intensity of burn in this watershed was high in most locations. Watershed slopes are extremely steep, averaging over 50%. A section of the drainage channel is not protected from flooding. Flows are being directed behind the bridge abutment. Heavy debris flows and flooding are predicted and will damage the Wilkinson Road Bridge, causing the channel to be plugged. This will knock out utilities and damage homes along both sides of the channel. Severe flood flows will also undermine existing stream bank protection by undercutting the toeings (which are entirely exposed), causing additional flooding and structure damage.

Approved 7/2005 page 1

Attachment A

DSR NO: 01-07-3320

Section 1D: Site Evaluation

All answers in this Section must be YES in order to be eligible for FWP assistance

Site Eligibility	YES	NO	Remarks
Damage was a result of a natural disaster?	X		Santiago fire - October 2007
Recovery measures would be for runoff retardation or soil erosion prevention?	X		Prevent flooding and streambank erosion.
Threat to life and/or property?*	X		Several homes and utilities
Event caused a sudden impairment in the watershed?*	X		Entire 3,600 acre watershed burned
Imminent threat was created by this event? **	X		fire intensity was high, watershed is very steep
For structural repairs, not repaired twice within ten years? **	X		
Site Defensibility			
Economic, environmental, and social documentation adequate to warrant action (Go Section 2-C through 2-I ***)	X		Cost/Benefit Ratio = 3.2 to 1
Proposed action technically viable? (Go to Page ****)	X		

Have all the appropriate steps been taken to ensure that all segments of the affected population have been informed of the LWP program and its possible effects? YES X NO

Comments: Working with USFS and Cal Fire BAER Teams, OES and FLMA

* Statutory

** Regulatory

*** DSR Sections 2-C through 2-I are required to support the decisions recorded on this summary page. If additional space is needed, at this or any other page in this Form, add appropriate pages.

Attachment A

DSR NO: 01-07-3320

Section I E: Proposed Action

Describe the preferred alternative from Findings: Section 5 A:

Install grouted rock streambanks protection on approximately 100 feet of unprotected banks, and install grouted rock stream bottom protection on approximately 120 feet of stream bottom.

Total installation cost identified in this DSR: Section 5: \$ 171,600.00

Section I F: NRCS Review and Approval

Area Eng. Review: Resource Technology Staff Review

Reviewed by: State Conservation Engineer Date:

Approved By: State Conservationist Representative Date Approved:

PRIVACY ACT AND PUBLIC BURDEN STATEMENT

NOTE: The following statement is made in accordance with the Privacy Act of 1974, 5 U.S.C. 552a, and the Paperwork Reduction Act of 1995, as amended. The authority requesting the following information is 7 CFR 604 (E)WEP and Section 215 of the Flood Control Act of 1950, Public Law 81-516, 53 Stat. 1710, 1, and Section 403 of the National Credit Act of 1978, Public Law 95-354, as amended by Section 382 of the Federal Agriculture Improvement and Reform Act of 1996, Public Law 104-127, 16 U.S.C. 2203. EWP, through local sponsors, provides emergency measures for runoff retardation and erosion control to areas where a sudden impairment of a watershed threatens life or property. The Secretary of Agriculture has delegated the administration of EWP to the Chief of NRCS on state, tribal, and private lands.

Signing this form indicates the sponsor concurs and agrees to provide the regional cost-share to implement the EWP recovery measures determined eligible by NRCS under the terms and conditions of the program authority. Failure to provide a signature will result in the applicant being unable to apply for or receive a grant for the approved program authority. Once signed by the sponsor, this information may not be provided to other agencies (IRS, Department of Justice, or other State or Federal Law Enforcement agencies) and in response to a court or administrative tribunal.

The provisions of criminal and civil statutes, including 18 U.S.C. 256, 267, 371, 341, 551, 1001, 15 U.S.C. 714f, and 31 U.S.C. 3729 may also be applicable to the information provided. According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0518-0020. The time required to complete this information collection is estimated to average 1171.96 minutes/hours per response, including the time for reviewing instructions, searching existing data sources, gathering, gathering, designing, and maintaining the data needed, and completing and reviewing the collection information.

USDA NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write USDA, Director of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410, or call: (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Civil Rights Statement of Assurance

The program or activities conducted under this agreement will be in compliance with the nondiscrimination provisions contained in the Titles VI and VII of the Civil Rights Act of 1964, as amended; the Civil Rights Restoration Act of 1987 (Public Law 100-259); and other nondiscrimination statutes, namely, Section 504 of the Rehabilitation Act of 1973, Title IX of the Amendments of 1972, the Age Discrimination Act of 1975, and the Americans With Disabilities Act of 1990. They will also be in accordance with regulations of the Secretary of Agriculture (7 CFR 15.150 and 150j) which provide that no person in the United States shall on the grounds of race, color, national origin, gender, religion, age or disability, be excluded from participation, or be denied the benefits of, or otherwise subjected to discrimination under any program or activity receiving Federal financial assistance from the U.S. Department of Agriculture or any agency thereof.

Approved 7/2005
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County of Orange
California

Thomas G. Mauk
County Executive Officer

November 7, 2007

Lincoln E. Burton, State Conservationist
U.S. Department of Agriculture
Natural Resources Conservation Service
430 'G' Street #4164
Sacramento, CA 95616-4164

Dear Mr. Lincoln:

The County of Orange requests Federal assistance under provisions of Section 403, Agricultural Credit Act of 1978, to restore watersheds affected by firestorms in Orange County during the months of October and November, 2007.

In preparation for the rainy season, the County of Orange is working with Federal, State, and local agencies to plan and implement emergency measures to safeguard lives and property from imminent hazard of floodwater and erosion. Over 28,000 acres burned to date and containment is expected this week. The Santiago Fire was primarily a wildland fire, burning significant portions of the upper reaches of several major watersheds. Within the Santiago Creek watershed, the fire destroyed or damaged homes and outbuildings as well as burning steep terrain immediately surrounding the Modjeska Canyon community. The fire burned significant portions in the upper reaches of the San Diego Creek sub-watershed, which in addition to threatening lives and property, is regulated under a Total Maximum Daily Load for sediment. Major post-fire impacts can be expected on public and private properties within the burn area as well as downstream.

Watershed	Total Acreage	Acreage Burned	Percent Burned	Sediment TMDLs
Lower Santa Ana River	135,186	14,500	10.7	
▪ Santiago Creek sub-watershed	63,680	14,500	22.8	
Newport Bay	97,139	12,635	13.0	Yes
▪ San Diego Creek sub-watershed	86,881	12,635	14.5	Yes
Aliso Creek	23,517	949	4.0	
San Juan	103,684	391	> 0.1	

This letter is to request that NRCS assist in the assessment of vulnerabilities and identification of assistance measures your agency might provide under the Emergency Watershed Protection program. We understand that if the County of Orange decides to become a sponsor of an Emergency Watershed Protection project, our responsibilities would include acquiring necessary land rights and permits to construct, and if required, to operate and maintain the proposed recovery measures.

County Executive Office
10 Civic Center Plaza
Third Floor
Santa Ana, California
92701-6677

Tel: (714) 834-2345
Fax: (714) 834-3018
Web: www.oc.ca.gov

Lincoln E. Burton
November 7, 2007
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We also understand the NRCS would provide 75 percent of the funding for recovery measures identified, and the 25 percent local match could be provided in cash, in-kind services, or a combination.

The name and address for the contact person for our organization is as follows:

Bill Hisey, Manager of Public Works-Operations & Maintenance
Resources & Development Management Department
County of Orange
1750 Douglass Road
Anaheim, CA 92806-6031
714-973-6699
bill.hisey@rdmd.ocgov.com

We appreciate the assistance of your staff to date and look forward to working with them further on this very important matter. We are coordinating multi-agency assessment and planning teams and would benefit greatly from the expertise of your program as soon as possible. Please contact Mr. Hisey for any additional information you might require.

Sincerely,



Thomas G. Mauk
County Executive Officer

cc: Bob Hewitt, NRCS District Conservationist
Alisa Drakodaidis, Deputy CFO, Infrastructure & Environmental Services
Bryan Speegle, Director of Resources & Development Management Department
Ignacio Ochoa, RDMD-Director of Public Works
Bill Hisey, RDMD-Manager of Operations & Maintenance

Attachment A

DSR NO: 01-07-3320

Section 2: Environmental Evaluation

*SEE ATTACHED CALIFORNIA ENVIRONMENTAL ASSESMENT WORKSHEET

Completed By: Robert S. Hewitt _____

Date: 11-14-07

2A Resource Concerns	2C Existing Condition	2C Alternatives and Effects		
		Proposed Action	No Action	Alternative
2D Effects of Alternatives				
Soil				
Water Downstream water rights				
Air				
Plant				
Animal				
Other				

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Attachment A

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Section 2 E: Special Environmental Concerns

Resource Consideration	Existing Condition	Alternatives and Effects		
		Proposed Action	No Action	Alternative
Clean Water Act Waters of the U.S.				
Coastal Zone Management Areas				
Coral Reefs				
Cultural Resources				
Endangered and Threatened Species				
Environmental Justice				
Essential Fish Habitat				
Fish and Wildlife Coordination				
Floodplain Management				
Inventory Species				
Migratory Birds				
Natural Areas				
Prime and Unique Farmlands				
Riparian Areas				
Scenic Beauty				
Wetlands				
Wild and Scenic Rivers				

Completed By: Robert S. Hewitt

Date: 11-14-07

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Attachment A

ENVIRONMENTAL ASSESSMENT WORKSHEET (EAW)

Reformatted 1/04

This EAW is used to document the effects a proposed activity may have on natural, human, and cultural resources, in compliance with NEPA and NRCS NEPA Policy (General Manual 190, Section 410).

Project:	Santiago Fire, Harding Canyon Streambank Protection
Date:	11-14-07
Client and/or Business Name:	County of Orange
Purpose and Need Statement (client objective, setting, existing conditions):	This possible EWP project is to protect homes and utilities from debris and flood damage
Description of Proposed Project (include timetable and maintenance activities):	The project will include stream bank and stream bottom stabilization. The entire 3,600 acre watershed burned in the Santiago Fire. This work is needed immediately to protect homes and utilities from flooding this winter. Maintenance after work is completed will be minimal, but will consist of keeping the stream cleaned out and removal of vegetation
Treatment Unit:	Harding Canyon Bridge area at Wilkinson Road
Watershed:	Santiago
Location Description (T.R.Sect, Lat/Long):	N 1/4, Sec. 29, T5S, R7W
	7.5' Quad:
Name of Person(s) Completing Worksheet:	Robert S. Hewitt

ENVIRONMENTAL EFFECTS

Effects are documented in terms of Short-Term (ST), those that occur during installation/construction; and Long-Term (LT), those that occur during the life of the project and into the future after the installation construction activity is finished. On-site and off-site, positive and negative, and cumulative and residual effect must be documented. If mitigation is proposed, effects must be documented.

Environmental Effects Element	Description of Effects
I. SOIL	
a. Soil surface (e.g. disruptions, destruction of structure, displacements, compaction, deposition, removal of organic material, improvements)?	Project will involve bank reshaping, soil fill and compaction for approx. 100 feet. Protective gabions (or equivalent) will be placed on banks and bottom stabilizer will be placed to reduce head cutting. Existing vegetation in this area will be removed.
b. Soil fertility?	Fertility of existing banks will be reduced as additional soil is brought in and compacted
c. Unique geologic or natural physical features (e.g. covering, modification, partial destruction, protection, etc.)?	None observed
d. Wind or water erosion of soils, or soil erodibility, either on or offsite?	Project will provide stability of stream bank within project site and deduce the chance of additional stream bank losses downstream.
e. Siltation, deposition or erosion which may impact or modify the channel of a river, stream, ocean shoreline, or other water?	Erosion will be reduced within and below project site

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Attachment A

f.	Exposure of people or property to geologic hazards such as landslides, mudslides, subsidence or similar hazards?	Project should reduce chances of flood and debris flows from damaging homes and utilities.
g.	Number of acres of prime & or unique cropland?	None
h.	Other?	
II. WATER		
a.	Stream channel dimension, pattern, and or slope (including downstream impacts)?	Stream channel at project location is approx. 14 to 18 feet wide and 6 feet deep. Head cutting has increased channel depth by about 5 additional feet. Slope of channel at project site is 2.4%. Project site is the only area in the channel (within the developed area) that is not protected. Downstream impacts could be damage to homes and utilities.
b.	Surface water infiltration rates, drainage patterns, velocities and/or volumes?	Infiltration rates should not be altered - channel bottom will remain un-improved. Velocities should stay the same, channel width will be kept at a maximum amount. Volumes will not be changed by this project.
c.	Quality or quantity of discharge into surface waters, including, but not limited to temperature, nutrients, bacteria, or turbidity?	Quality of discharge should be improved slightly if flooding is prevented and bank erosion is reduced. Water temperature will not change. Nutrients and bacteria levels will not change. Turbidity may be reduced if flows stay in channel.
d.	Quantity of ground waters through either direct additions/withdrawals or interception of aquifers?	No change
e.	Ground water quality?	No change
f.	Water amount available for public use?	No change
g.	Exposure of people or property to flooding?	Flooding will be reduced.
h.	Other?	
III. AIR		
a.	Air quality (local or regional)?	Quality may be reduced during construction with the use of heavy equipment. No change after project is completed.
b.	Odors?	None
c.	Other?	
IV. PLANTS		
a.	Diversity of species, or numbers of any plant species (upland, riparian, wetland, etc.)?	Slight reduction in riparian vegetation with the installation of bank protection. Stream bottom may be considered wetland, but will not be altered except at the proposed location of grade stabilizer.
b.	Numbers or health and vigor of any antique, sensitive, species of concern, rare, threatened or endangered plants or plant critical habitats?	See attached map with California Natural Diversity Database sensitive species and habitat polygons.
c.	Normal recruitment of existing native species?	No change. Gabions will not be planted after installation.
d.	Rare, sensitive or protected habitats?	Work area is approximately 100 feet on east bank. West bank is protected with concrete wall. Habitats will be slightly altered and possibly reduced due to project.

Attachment A

e.	Introduction, spread, or establishment of non-native, exotic, or invasive plants?	No change. Arundo plants were removed from this channel several years ago and have not re-established.
f.	Other?	
V. ANIMALS		
a.	Diversity of species, or numbers of any species of animals (birds, mammals, fish, reptiles, amphibians and invertebrates)?	Minor change, if any. Loss of seven trees in the work area.
b.	Unique, sensitive, species of concern, rare, threatened, or endangered animals (review T&E and other lists)?	See attached map with California Natural Diversity Database sensitive species and habitat polygons.
c.	Native animals (migration barriers, competition from non-natives, etc.)?	No change
d.	Existing fish and wildlife habitat or critical habitat (nesting, spawning, etc.)?	Slight reduction during construct, but should be re-established soon after work is completed. Channel bottom to remain unimproved.
e.	Human activity during sensitive life stages (nesting, spawning, etc.)?	Project site is surrounded with homes within a few feet of bank. Human activities should have no affect during construction.
f.	Other?	
VI. OTHER HUMAN CONSIDERATIONS		
a.	Noise levels?	Increased during construction. Return to normal when project is completed.
b.	Present or planned land uses?	No change
c.	Aesthetic resource, scenic value, or natural area?	Only slight change in stream bank appearance.
d.	Recreational opportunities?	No change
e.	Public health and safety?	Safety issue should be reduced after installation of project due to the reduced possibility of flooding of nearby homes.
f.	Public interest related to the site or watershed?	Local interest is very high and all contacted want some type of protection.
g.	Economic impacts to the clients, landowners, or public?	Significant financial losses if flooding and debris flows occur.
h.	Client well-being?	Property owners will feel safer if project is installed.
i.	Environmental justice?	Project should not have a significant affect on the environment.
j.	Other?	

SPECIAL ENVIRONMENTAL CONCERNS

Attachment A

If the effect is adverse or positive to any of the following, explain in the notes section or on an attachment. Under **Present** indicate **Yes** or **No**. For **Cultural Resources**, if the activity is an "Undertaking," a separate primary documentation is required. For **Threatened or Endangered Species**, A "may effect, not likely to adversely affect" or "may adversely effect" determination to a federally listed species or critical habitat will require additional consultation with the US Fish and Wildlife Service. Similar requirements will apply to state listed species. See the *NRCS California Environmental Handbook* for specific guidance on the following concerns.

Concerns	NRCS Policy Procedure	Present	Description of Effects
Threatened or Endangered Species (To ensure actions do not jeopardize T&E species)	190 GM 410.22, CA Endangered Species Handbook	No	
Landscape Resource (To preserve and enhance scenic beauty or improve landscape)	190 GM 410.24	No	
Floodplain Management (To conserve, preserve and restore existing natural and beneficial values of floodplains)	190 GM 410.25	Yes	Reduce flooding within the Harding Canyon Watershed at its junction with Santiago Canyon
Wetland (To protect, maintain and restore wetland functions and values)	190 GM 410.26, NFSA Manual	No	No wetland determination has been made of the site, but it does not appear this 100 foot reach has wetlands.
Stream Channel Modification (To maintain and restore streams, wetlands and riparian vegetation as functioning parts of a viable ecosystem)	190 GM 110.27-28	Yes	The stream in this 100 foot section will be modified with the construction of a gabion like wall. After completion, stream channel should return to pre-existing conditions.
Riparian Area (To protect, maintain, and restore riparian areas)	190 GM 411	Yes	Riparian area should be little changed after installation of project.
Prime and Unique Farmland (To minimize unnecessary or irreversible conversion of farmland to non-agricultural use)	310 GM 403	No	
Cultural Resources (To preserve and prevent the destruction or degradation of cultural resources, including historical archaeological sites and traditional cultural places)	420 GM 401	No	
Coastal Zone Management Area (To ensure conservation of coastal resources)	Federal Register 6/25/99, PL 92-583	No	
Wild and Scenic River (Consideration of impacts when actions affect areas adjacent to Wild and Scenic Rivers)	Federal Register 9/7/82, p. 39454	No	
Special Aquatic Site (To protect, restore and maintain special aquatic sites)	Federal Register 12/24/80, FPA 404(b)(1) 230.3 & 230.10	No	

//

Attachment A

Essential Fish Habitat (To conserve and enhance fish habitat for salmon, shellfish, marine fish)	50 CFR 600.905-930 Federal Register .2.19/97	No
--	--	----

OTHER CONSIDERATIONS

Insert description or details below each consideration. If the consideration is not applicable, indicate by inserting *N/A*. Supplemental documentation may be required. Be sure the documentation here is congruent with similar documentation in the **Concerns** section above.

If wetland impacts are proposed, conduct a wetland determination and complete the NRCS minimal effects procedure per the Food Security Act Manual. Make certain that the client contacts the US Army Corps of Engineers to determine the need for a permit under *Section 404* of the *Clean Water Act (CWA)* and *Section 10* of the *Rivers and Harbor Act*, and the Regional Water Quality Control Board for *Section 401* of the *CWA* certification.

If a stream, lake or other water body is involved the client should contact the California Department of Fish and Game for a *Section 1600 Streambed Alteration Agreement*.

Document mitigation planned or required to avoid, minimize, or compensate for negative impacts

1. If any known or suspected archaeological (historic or prehistoric) or paleontological items are found during the project work, all work must immediately cease and the NRCS must be notified immediately.
2. All native vegetation will be avoided, if possible.
3. If work will take place in nesting season (March-Sept.), trees and shrubs with potential migratory bird nests will be avoided. (Further consultation will be required if disturbance is necessary.)

Document communications with USFWS, NMFS, Corps of Engineers, EPA, CDFG, RWQCB, NRCS Biologist, etc.

These agencies will be consulted.

Discuss any Cumulative Effects (beneficial or adverse)

Preventing flooding of the Harding Canyon channel may also prevent flooding of homes along Santiago Canyon channel since the junction is just down stream.

Alternatives to Proposed Action that were considered (include reasons why alternative was not selected)

1. No Action: Flooding potential not reduced.
2. Alternative 1 (Proposed Action): Flooding potential should be reduced.
3. Alternative 2: Bring channel up to Flood Control standards: Not acceptable to public, loss of non-improved channel habitat, extremely high costs.

Remarks or Other Considerations

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Attachment A

CONCLUSIONS

Based upon the Environmental Assessment Worksheet (rationale for the **Recommendation** below)

With proper mitigation, permits, and consultation, this project will go forward as planned.

RECOMMENDATION

Check one:

The project is not a federal action. No additional analysis is required.

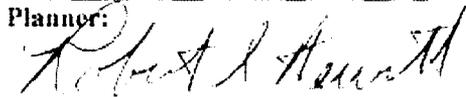
The project is categorically exempt from further environmental analysis. There are no extraordinary circumstances.

Based upon the conclusions above I find that this action will not have significant adverse impacts on the quality of the environment. No further environmental analysis is required. The assessment indicates work should proceed.

Further analysis is necessary including the possible need to prepare an Environmental Impact Statement or a Finding of No Significant Impact. The landowner will be informed not to proceed until further assessment is completed.

SIGNATURE

Planner:



Reviewed / Concurred By:

Title:

District Conservationist

Date: 11-14-07

Title:

Date:

Attachment A

SUMMARY OF NEAR TERM BENEFITS

DSR No. 01-07-3320

Properties	Estimated Value of Structures	Damage Factor	Probability Factor	Near Term Damage (\$)
HARDING CANYON				
17311 Harding Can. Rd	\$400,000	.2205	1.0	\$88,200.00
17331 Harding Can. Rd	\$400,000	.2205	1.0	\$88,200.00
17291 Harding Can. Rd	\$500,000	.1595	1.0	\$79,750.00
17311 Wilkinson Rd	\$400,000	.1595	1.0	\$63,800.00
17312 Wilkinson Rd	\$400,000	.1595	1.0	\$63,800.00
17342 Wilkinson Rd	\$400,000	.1595	1.0	\$63,800.00
17382 Wilkinson Rd	\$400,000	.1595	0.75	\$47,850.00
17402 Wilkinson Rd	\$400,000	.1595	0.75	\$47,850.00
12" Main Water Line				\$30,000.00
Phone Line & Cable Line				\$ 5,000.00
Total Near Term Damages				\$543,250.00

* loss of access to 12 homes.

** loss of drinking water to 50-100 homes

Attachment A

DSR NO: 01-07-3320

Section 2 G: Social Considerations

This section must be completed by each alternative considered (attach additional sheets as necessary).

	YES	NO	Remarks
Has there been a loss of life as a result of the watershed impairment?		X	Possibility increases greatly during heavy rains.
Is there the potential for loss of life due to damages from the watershed impairment?	X		Entire 3,600 acre watershed burned. Intensity of burn was high. Houses built along Harding Canyon's unimproved channel will be damaged. Emergency access will be eliminated.
Has access to a hospital or medical facility been impaired by watershed impairment?		X	Access will be eliminated if flooding destroys bridge.
Are there any individuals with disabilities living within watershed impairment?	X		Unknown at this time, but possible.
Has the community as a whole been adversely impacted by the watershed impairment (life and property ceases to operate in a normal capacity)?		X	Not at this time, but flooding will cause the community to be adversely impacted.
Is there a lack or has there been a reduction of public safety due to watershed impairment?	X		The threat has caused a concern for the home owners for their safety to be able to evacuate the flooding site.

Completed By: Robert S. Hewitt

Date: 11-14-07

Approved: 7/2008
page 8

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Attachment A

DSR NO: 01-07-3320

Section 2 H: Group Representation and Disability Information

This section is completed only for the preferred alternative selected.

Group Representation	Number
American Indian/Alaska Native Female Hispanic	
American Indian/Alaska Native Female Non-Hispanic	
American Indian/Alaska Native Male Hispanic	
American Indian/Alaska Native Male Non-Hispanic	
Asian Female Hispanic	
Asian Female Non-Hispanic	
Asian Male Hispanic	
Asian Male Non-Hispanic	
Black or African American Female Hispanic	
Black or African American Female Non-Hispanic	
Black or African American Male Hispanic	
Black or African American Male Non-Hispanic	
Hawaiian Native Pacific Islander Female Hispanic	
Hawaiian Native Pacific Islander Female Non-Hispanic	
Hawaiian Native Pacific Islander Male Hispanic	
Hawaiian Native Pacific Islander Male Non-Hispanic	
White Female Hispanic	
White Female Non-Hispanic	
White Male Hispanic	
White Male Non-Hispanic	
Total with Disabilities	
Total Group	

Census tract(s) Not available at this time.

Completed By: Robert S. Hewitt

Date: 11-14-07

Approved 7/2005
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Attachment A

DSR NO: 01-07-3320

Section 2 I:

Required consultation or coordination between the lead agency and/or the RFO and another governmental unit including tribes:

Easements, permissions, or permits: County of Orange has this responsibility

Mitigation Description: All proposed work is within previously disturbed locations. Consultation with Calif Dept Fish & Game to determine if mitigation will be required.

Agencies, persons, and references consulted, or to be consulted: NRCS biologist will consult with US Fish & Wildlife, ACOE, Water Quality and Calif Dept. Fish & Game.

Approved 7/2005
page

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Attachment A

DSR NO: 01-07-3320

Section 4: NRCS EWP Funding Priority

Complete the following section to compute the funding priority for the recovery measures in this application (see instructions on page 15).

Priority Ranking Criteria	Yes	No	Ranking Number Plus Modifier
1. Is this an exigency situation?	X		1
2. Is this a site where there is serious, but not immediate threat to human life?	X		2
3. Is this a site where buildings, utilities, or other important infrastructure components are threatened?	X		3
4. Is this site a funding priority established by the NRCS Chief?		X	
The following are modifiers for the above criteria			Modifier
a. Will the proposed action or alternatives protect or conserve federally-listed threatened and endangered species or critical habitat?			N A
b. Will the proposed action or alternatives protect or conserve cultural sites listed on the National Register of Historic Places?			N A
c. Will the proposed action or alternatives protect or conserve prime or important farmland?			N A
d. Will the proposed action or alternatives protect or conserve existing wetlands?			N A
e. Will the proposed action or alternatives maintain or improve current water quality conditions?			N A
f. Will the proposed action or alternatives protect or conserve unique habitat, including but not limited to, areas inhabited by State-listed species, fish and wildlife management area, or State identified sensitive habitats?			N A

Enter priority computation in Section 1A, NRCS Entry, Funding priority number

Remarks

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page 20

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Attachment A

DSR NO: 01-07-3320

Section 5A: Findings

finding: Indicate the preferred alternative from Section 2 (Enter onto Section 1E):

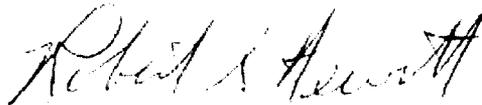
I have considered the effects of the action and the alternatives on the Environmental, Economic, Social, the Special Environmental Concerns, and the extraordinary circumstances in the instruction from to an NRCS-PDM-29, Damage Survey Report (DSR). I find for the reasons stated below, that the preferred alternative

Has been sufficiently analyzed in the EWP PEIS (reference all that apply)

- Chapter
- Chapter
- Chapter
- Chapter
- Chapter

May require the preparation of an environmental assessment or environmental impact statement.

NRCS representative of the DSR team:



Title: Robert S. Hewitt, District Conservationist (for) Jae Lee, District Conservationist Date: 11-14-2007

Section 5 B: Comments:

Section 5 C:

Sponsor Concurrence: _____ Date: _____

Sponsor Concurrence: N/A _____ Date: _____

Sponsor Concurrence: N/A _____ Date: _____

Section 6: Attachments

- A. Location Maps
- B. Site Plans and Selected Photos
- C. Miscellaneous Photo Documentation
- D. Miscellaneous Attachments
- E. Materials Pricing

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page 12

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Attachment A

SUS-NG-6
March 1973

U.S. Department of Agriculture
Natural Resources Conservation Service
Area 4 - California

UTILITY CHECK SHEET

Reference Eng. Memo - 13

Project Name: Harding Canyon Streambank Protection Location: Harding Canyon, Orange County
Utilities Involved and Location: Domestic 12" water line (across bridge), telephone line and cable line (on power pole stretching across channel along bridge), electrical line (located above channel near bridge location)

Landowner or Operator Notified

Who: Sponsor/Contractor

By Whom: NRCs Government Rep _____

How Will be done: in person _____

Date _____

Work to be Done: Secure utilities _____

When: When work begins _____

Utility Company Notified

Who: Water, Phone, Cable

By Whom _____

How _____

Date _____

Request to Locate Utility _____

Work to be Done _____

When _____

Request for Company Representative to be Present _____

Utility Marked or Staked _____

Date _____

Representative Present During Construction: _____

Contractor Notified

Who _____

By Whom: Sponsor _____

How _____

Date _____

Type of Utility _____

Location _____

Vertical Location in Relation to Work _____

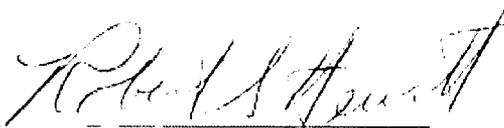
Horizontal Location in Relation to Work _____

Contractor Shown Markings or Stakes _____

Utility Location Shown on Plans _____

Other Remarks: It is the responsibility of the person doing the digging, excavating, trenching, etc. to call Dig Alert (at 1-800-227-2600) at least two business days before beginning excavation. Sponsor will also be responsible for notifying utilities.

Prepared by:



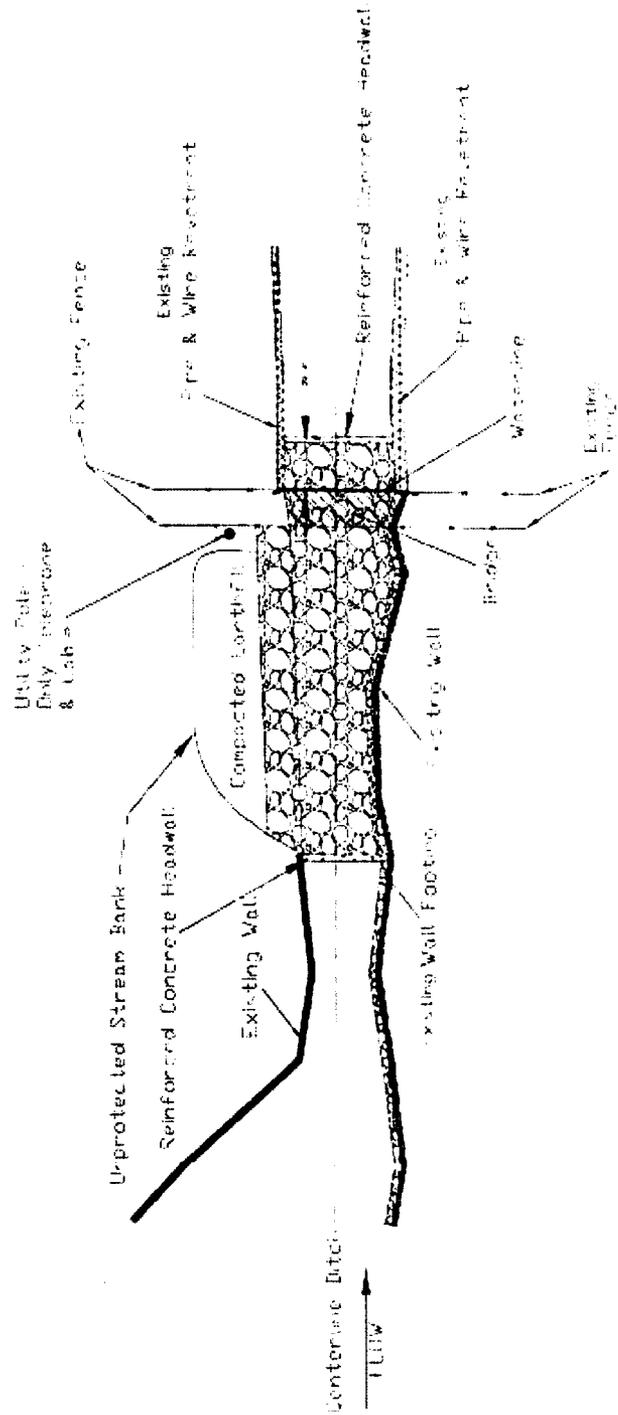
11-14-57

Sponsor Signature

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Attachment A

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CROSS SECTION
1:10

SAVING OUR RIVERS FROM POLLUTION AND RESTORING THEM TO HEALTHY, PRODUCTIVE ECOSYSTEMS
 CLEAN WATER THROUGH PROTECTIVE RESTORATION PROJECTS
 FEDERAL ENVIRONMENTAL AGENCY

Attachment A

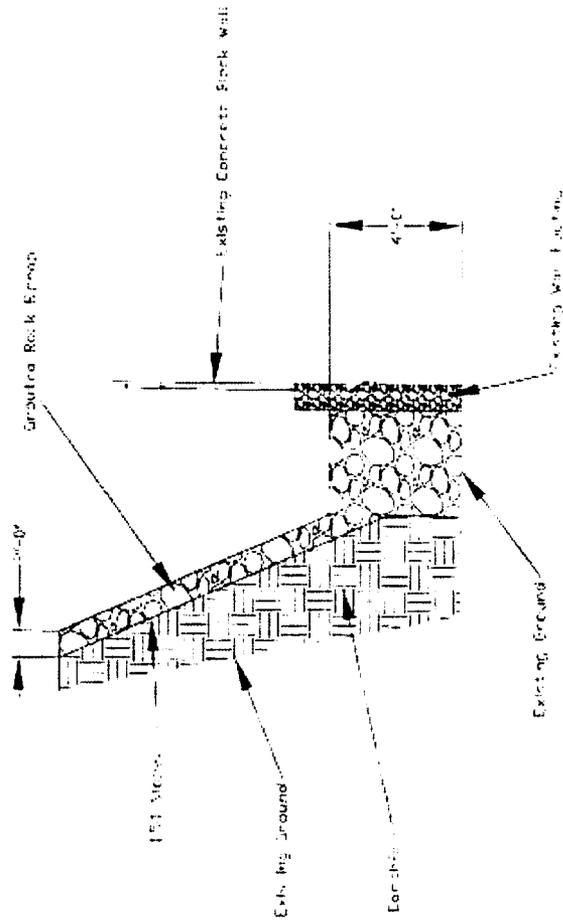
25

UNIVERSITY OF CALIFORNIA, BERKELEY

ENVIRONMENTAL ENGINEERING CENTER

REPORT NO. UCC-92-01

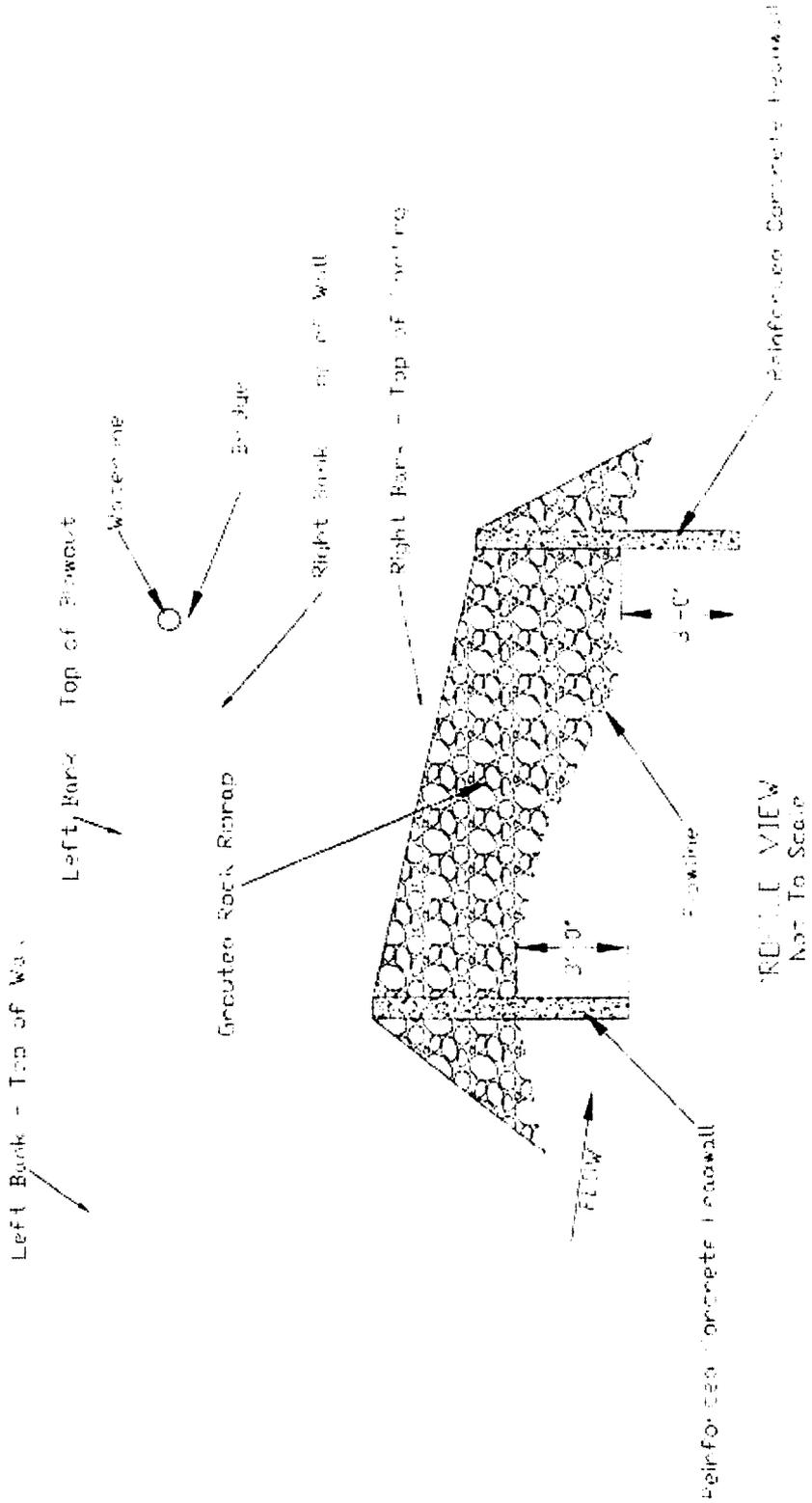
TYPICAL SECTION ON GRANULES IN FRAP



Typical Cross Section

Not to Scale

Attachment A



REINFORCED CONCRETE HEADWALL
NOT TO SCALE

Attachment A

Earthwork Computation Sheet

Location:

Watershed:

By:

Date:

Checked By:

Date:

Item: **ROCK**

Station	End area (ft ²)	Sum of end areas (ft ²)	Distance (ft)	Section Products (ft ³)	Volume (cy ³)	Remarks
1+04	0.0					
		48.4	9.0	435.6	8.1	
1+13	48.4					
		125.0	17.0	2125.0	39.4	
1+30	76.6					
		154.0	35.0	5390.0	99.8	
1+65	77.4					
		163.4	35.0	5719.0	105.9	
2+00	86.0					
		164.0	14.0	2296.0	42.5	
2+14	78.0					
		144.2	31.0	4470.2	82.8	
2+45	66.2					
		66.2	10.0	662.0	12.3	
2+55	0.0					

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Attachment A

Earthwork Computation Sheet

Location:

Watershed:

By:

Date:

Checked By:

Date:

Item: Earthfill

Station	End area (ft ²)	Sum of end ares (ft ²)	Distance (ft)	Section Products (ft ³)	Volume (cy ³)	Remarks
1+13	0.0	115.8	17.0	1968.6	36.5	
1+30	115.8	223.6	35.0	7826.0	144.9	
1+65	107.8	288.0	35.0	10080.0	186.7	
2+00	180.2	180.2	14.0	2522.8	46.7	
2+14	0.0					

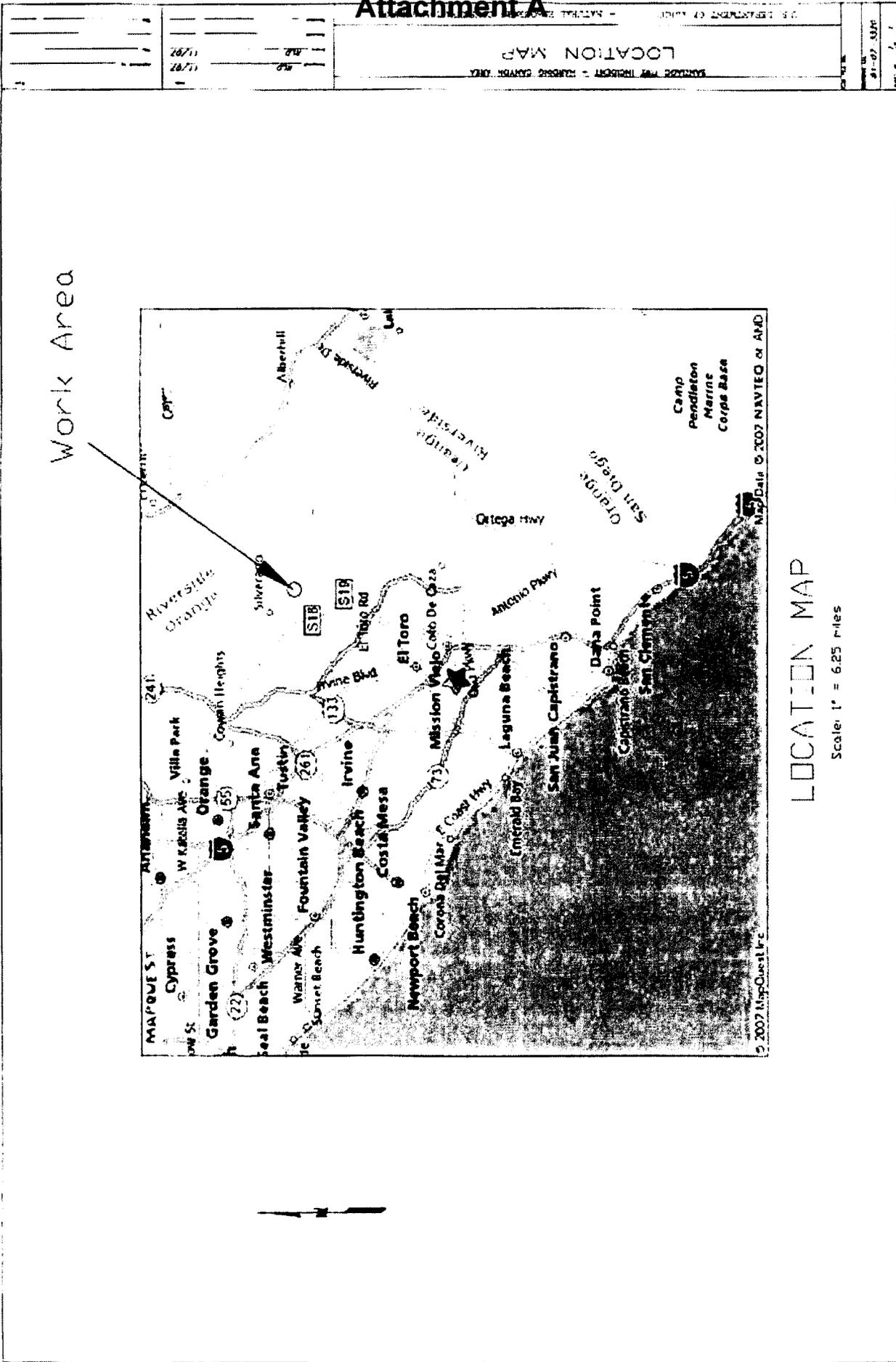
29

Attachment A

				TOTAL	414.8	

WSE 420

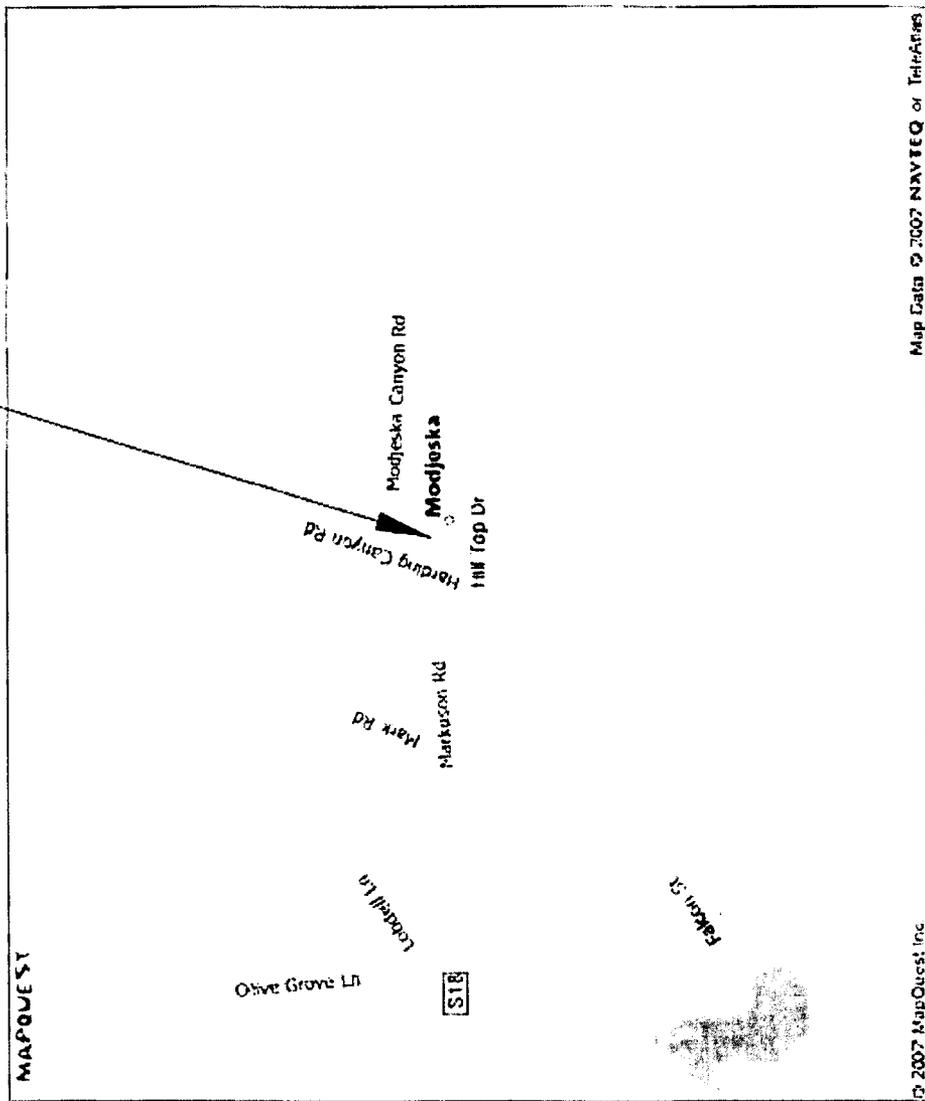
Attachment A



Attachment A

VICINITY MAP
LATHROP FIRE DISTRICT - HARDING CANYON AREA

Work Area



Map Data © 2007 NAVTEQ or TeleAtlas

© 2007 MapQuest, Inc.

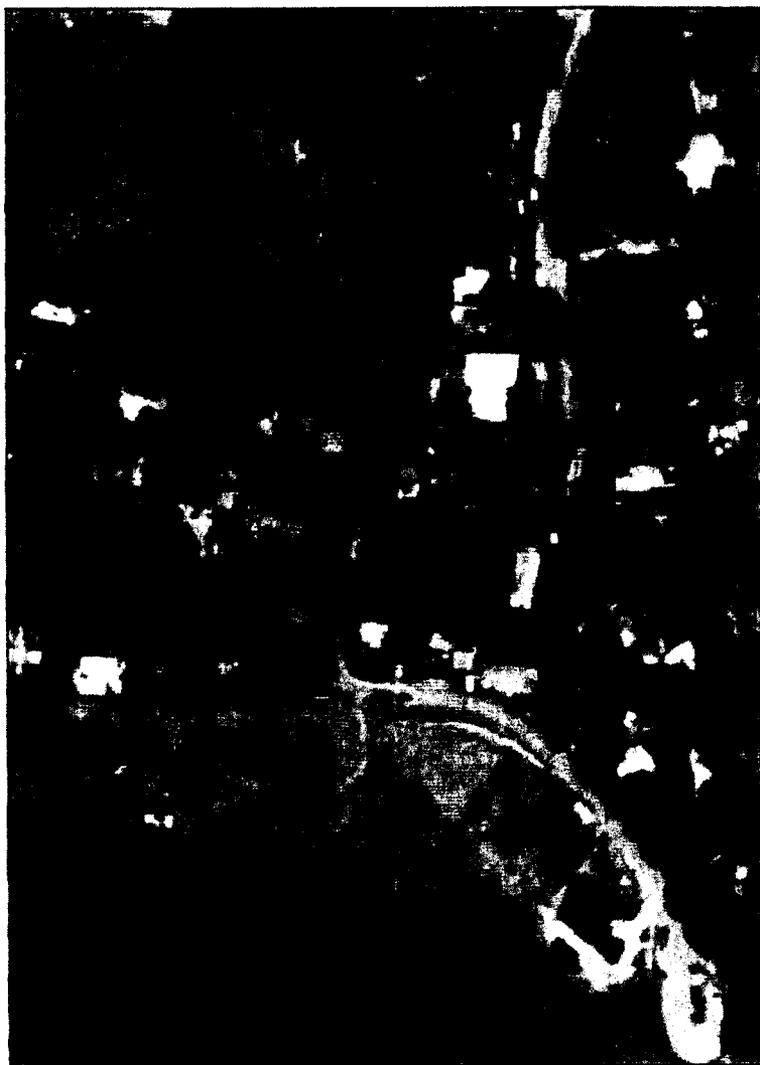
VICINITY MAP

Scale: 1" = 1580'

1 of 27-1000

Attachment A

DATE: _____	BY: _____	PROJECT: _____
NO. _____	SCALE: _____	WORK AREA: _____



WORK AREA
Scale: 1" = 100'

Attachment A



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Attachment A

So Fire
Burn Severity
(Raw data)
NARS - 1030260
Fire Perimeter as of
10/17/2017 2335hrs

Drainage
Area

Project Location

Legend

- Unburned
- Light
- Medium
- High



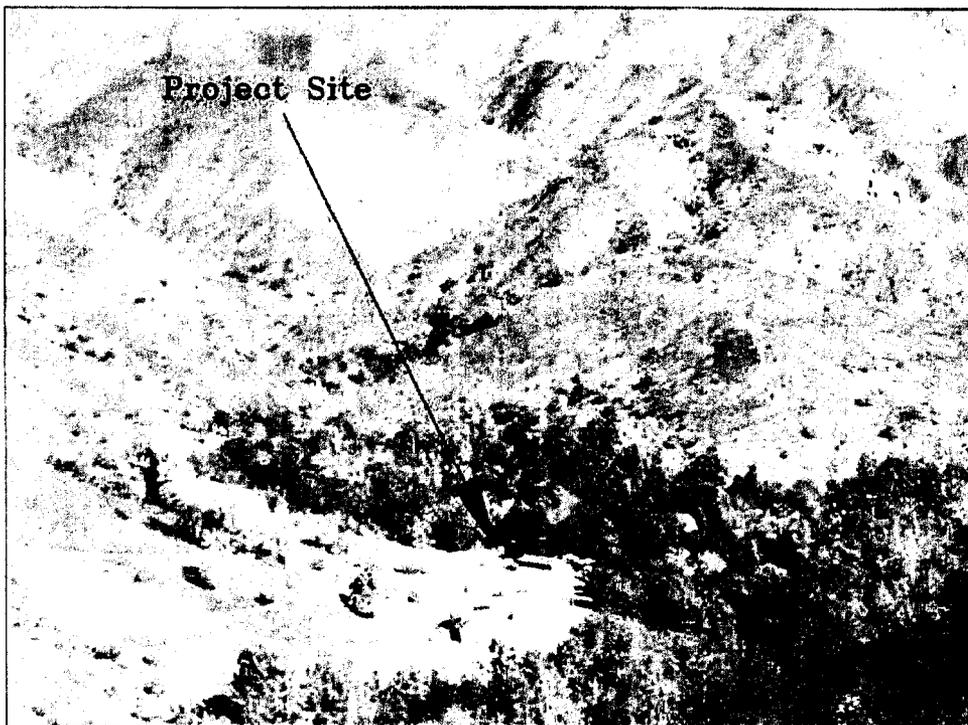
Attachment A



Attachment A



"Entire 3,625 acres watershed burned - medium to high intensity."



Attachment A



"Houses threatened by flooding."



Attachment A



"Bridge footing & wall footing undermined."



Attachment A



"Utilities threatened - Water Main, telephone, cable."



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Attachment A



"Grouted rock to be installed on left bank - Left side of this picture."

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Attachment A



“Project to tie into upstream concrete walls.”

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Attachment A

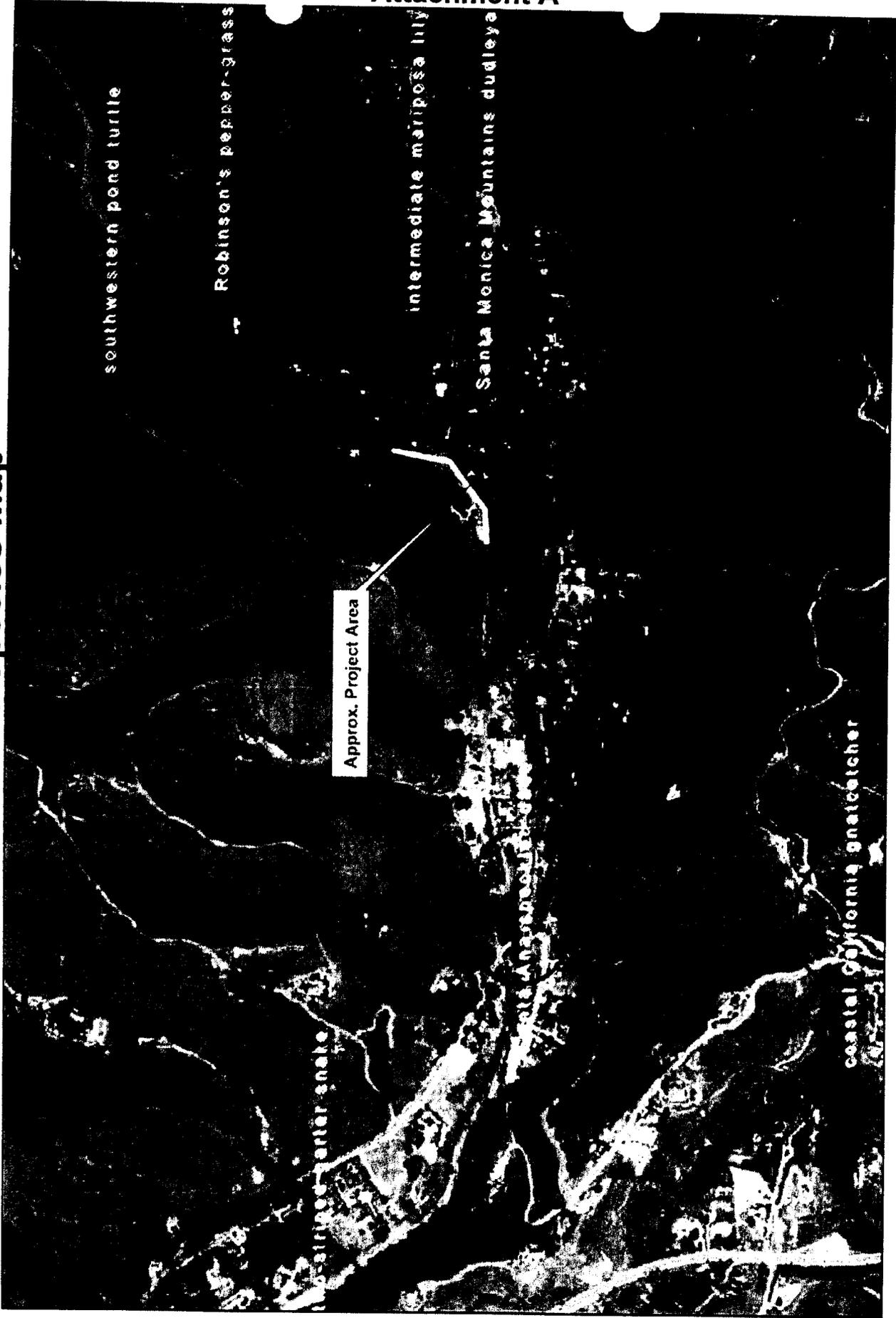


"Project to end below bridge and tie into existing banks."

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Santitas Canyon Watershed, Modjok Canyon, Harding Canyon Reach Sensitive Species Map

Attachment A



Attachment A

Sensitive Species Near: Santiago Canyon Watershed, Modjeska Canyon, Harding Canyon Reach

Scientific Name	Common Name	Federal	State	DFG	CNPS
<i>Palaemonetes californicus</i>	coastal California gnatcatcher	Threatened	None	SC	
<i>Rhinichthys osculus</i> ssp. 3	Santa Ana speckled dace	None	None	SC	
<i>Actinemys marmorata pallida</i>	southwestern pond turtle	None	None	SC	
<i>Thamnophis hammondi</i>	two-striped garter snake	None	None	SC	
<i>Lespedeza virginicum</i> var. <i>robinsonii</i>	Robinson's pepper grass	None	None		1B 2
<i>Dakleya cymosa</i> ssp. <i>ovatifolia</i>	Santa Monica dudleya	Threatened	None		1B 2
<i>Caechortus weedi</i> var. <i>intermedius</i>	intermediate mariposa-lily	None	None		1B 2