

# **HIPPY FIRE**

## **BURNED AREA EMERGENCY STABILIZATION AND REHABILITATION (ESR) PLAN**

**August 5, 2002**

**U.S. FISH AND WILDLIFE SERVICE**

**CIBOLA NATIONAL WILDLIFE REFUGE**

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
Assistant Fire Management Officer Fuels

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
Manager, Cibola NWR

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Fire Ecologist, Region 2

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Regional Fire Coordinator, Region 2

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Refuge Supervisor, AZ/NM

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Regional Director, Region 2

# ***HAPPY FIRE***

**AGENCY/UNIT:** U.S. Fish and Wildlife Service  
Cibola National Wildlife Refuge  
Rt. 2, Box 138  
Cibola, Arizona 85328  
Phone: 928/857-3253

**LOCATION/SIZE:** Cibola, La Paz County, Arizona  
424 acres  
T1S, R24W, Sec.2  
Lat/Long 33 21' 14.2" 114 41' 46.6"

**DATE:** June 23, 2002

**PREPARED BY:** U.S. Department of Interior  
U.S. Fish and Wildlife Service  
Cibola National Wildlife Refuge

Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mike Hawkes, BAER Team Leader  
U.S. Fish and Wildlife Service

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## EXECUTIVE SUMMARY

### Introduction

This plan has been prepared in accordance with specific agency policy. This plan provides burned area emergency stabilization and rehabilitation (ESR) recommendations for all lands burned within the Hippy Fire perimeter which lie within the Cibola National Wildlife Refuge (NWR) administered by the U.S. Fish and Wildlife Service (USFWS). The primary objectives of the Hippy Fire Burned Area Emergency Stabilization and Rehabilitation (ESR) Plan are:

- " To repair or improve lands unlikely to recover naturally from severe wildland fire damage by emulating historic or pre-fire ecosystem structure, function, diversity, and dynamics according to approved land management plans.
- " Restore or establish healthy, stable ecosystems, even if these ecosystems cannot fully emulate historic or pre-fire conditions as specified in approved land management plans.
- " To reduce fire hazards to the surrounding communities as dense, monotypic salt cedar is a greater hazard than native vegetation (i.e. cottonwood, willow, mesquite).

This plan addresses emergency rehabilitation of fire damages.

The burned area emergency stabilization and rehabilitation (ESR) team consisted of Mike Hawkes, John Earle and Brenda Zaun of Cibola NWR. The 424 acre area burned by the fire was dominated by mature salt cedar (*Tamarix chinensis*.) with quailbush (*Atriplex lentiformis*), arrow-weed (*Tessaria sericea*), cottonwood (*Populus fremontii*), and a 20 year old reveg site that contained willow (*Salix goodingii*), screwbean mesquite (*Prosopis pubescens*) and honey mesquite (*Prosopis glandulosa*). The team found extensive damage to the reveg site as well as patches of cottonwood and willow trees located along the river in the backwater areas of J-dikes. Additionally, approximately .7 miles of refuge fencing was destroyed as well as 8 to 10 wooden utility poles that held the line that supplied power to a pump that served as the refuge s water supply. The refuge and the community of Cibola experienced a power outage for several hours Sunday afternoon/evening. Severe radiant heat damaged all of the boundary signs located on the .7 miles of fencing. The heat also melted the copper telephone wires together within a telephone junction box located along the fenceline which rendered the refuge without telephone service until Monday morning. The wildlife biologist evaluated vegetative and habitat impacts and conducted an assessment of wildlife loss. The refuge manager assessed utility pole and line damage and notified Arizona Public Service (APS) utility company regarding damage and repairs required. On June 25, APS replaced the burned poles with steel utility poles.

### Fire Background

The Hippy Fire began approximately 1330 on Sunday, June 23, 2002 on Cibola NWR approximately 1 mile west of the refuge headquarters, La Paz County, Arizona. The cause of ignition is currently under investigation, but is believed to be human-caused with the aid of fireworks. Initial assessment of the fire was initiated by Tristan Fluharty, BLM Fire Operations Specialist. Incident command was taken by the Lower Colorado River Interagency Fire Management Group engines from the Yuma BLM. The fire

exhibited extreme fire behavior including fire whirls, spotting, and torching with winds up to 15 mph from the southwest. It grew rapidly, jumping two roads. It expanded a range of 1.6 miles in length within 2 hours. The radiant heat and intensity of the fire was extreme, completely incinerating wooden power poles and trees in the hottest portions of high fuel loads. In addition to refuge lands, the fire spotted across a county road and burned two large stacks of baled alfalfa hay. Resources that responded to the Hippy Fire included 9 Type 6 engines (BLM Yuma, Kingman, Phoenix, Oatman, Mohave Mesa), a Type 2 and Type 4 engine from Ehrenberg and Palo Verde, 2 water tenders, 3 Type 4 engines, 1 Type 2 crew from Mescalero, 1 Type 3 helicopter, 2 single-engine air tankers, 1 air attack, and Riverside, Imperial and La Paz County Sheriff s Offices also provided assistance, primarily with traffic control. One D6 dozer was utilized to build a fire line to halt the continued growth of the fire and prevent it from possibly endangering private homes and lives. The fire was contained on June 24, 2002 at 2000 and declared controlled on June 26, 2002 at 1700.

### **Fire Damages and Threats to Human Safety and Natural and Cultural Resources**

In addition to vegetative damage caused by the fire, .7 miles of refuge boundary fence, 6 boundary signs, and 8 to 10 wooden utility poles were destroyed directly by the fire and associated radiant heat. Approximately 70 feet of cement-lined irrigation ditch was destroyed due to fire suppression activities with a bulldozer. A local contractor was called and assessed the damage for immediate replacement. The current burned area condition poses no threat to human safety or cultural resources in the area. The majority of the area burned was historically used for agriculture. However, it is located within 1 mile of the community of Cibola. West winds could produce a significant amount of ash and dust to disturb respiratory function in some people.

### **Management Requirements**

The area lies within the Cibola NWR and is adjacent to an important recreational area along the east side of the Colorado River. It is also located within a mile from the community of Cibola. The adjacent river is popular for boating, skiing, fishing, and is used by tourists and local residents. Various partners, including the U.S. Bureau of Reclamation (BOR) and the U.S. Bureau of Land Management (BLM) would be interested partners, along with the U.S. Fish and Wildlife Service (USFWS), in revegetating this area. Furthermore, revegetation with native trees would greatly reduce the threat of a fire hazard for the surrounding communities. Without revegetation efforts, salt cedar will return rapidly.

### **Rehabilitation**

The following statements in approved management plans justify the proposed burned area rehabilitation treatments funded with Emergency Fire Rehabilitation funds.

Lower Colorado River National Wildlife Refuges Comprehensive Management Plan and Environmental Assessment, page 55, lists revegetation, including salt cedar removal, as a goal and objective of Cibola NWR (approved 9/94, J. Rogers).

Restore riparian areas invaded by salt cedar to historic Southwestern Willow Flycatcher habitat, (Lower Colorado River Refuge Complex Comprehensive Conservation Plan, page 31, C. Smith, 10/97).

Guidance for rehabilitation of wildfire areas is provided by the USFWS Fire Management Handbook (Release: 7/17/00) and 095 FW3 (2/00).

The burned area presents an opportunity to prevent the invasive exotic salt cedar from further dominating this area by restoring it with native riparian plant species. This should also enhance the water resources available to wildlife and plants at this site, as native species utilize less water for evapotranspiration than the exotic salt cedar. Restoring native plants will help stabilize soils by mitigating gully and sheet erosion of soil, ash, and woody debris, thereby reducing the erosion of these elements and their impacts to the lower watershed and riparian habitat.

Guidance limits the use of fire rehabilitation funds to stabilize soils and biotic communities no later than two growing seasons, or a maximum of three years after initial plan approval. The stabilization of biotic communities should minimize unacceptable changes to ecosystem structure and function resulting from wildfire. Such stabilization allows for the establishment of shrubs, forbs, grasses, and trees if demonstrated to meet project objectives. Also allowed are efforts to minimize the establishment of non-native invasive species to prevent burned area degradation.

Our objective for the Hippy Fire rehabilitation plan is to first remove as much of the burned aerial vegetation (salt cedar skeletons) as possible, using heavy equipment. This can be achieved by using a Caterpillar D6 and/or D8 with a blade and root knife. Salt cedar resprout vigorously after burning.

Planting of native cottonwood, willow, mesquite trees, and perhaps native bushes (quail bush, wolfberry) would follow at a rate of approximately 110 trees per acre (20' centers). The trees would be flooded/irrigated accordingly to achieve maximum growth and survivorship.

## **PART A - FIRE LOCATION AND BACKGROUND INFORMATION**

Fire Name	Hippy
Fire Number	C803
Agency Unit	Cibola National Wildlife Refuge
Region	2
State	Arizona
County(s)	La Paz
Ignition Date/Cause	June 23, 2002 / Human caused
Zone	LCR Interagency
Date Controlled	June 26, 2002 @ 1700
Total Acres	424
Date Contained	June 24, 2002 @ 2000

**PART B - NATURE OF PLAN**

I. Type of Plan (check one box below)

<input type="checkbox"/>	Emergency Stabilization
<input checked="" type="checkbox"/>	Rehabilitation
<input type="checkbox"/>	Both Emergency Stabilization and Rehabilitation

II. Type of Action (check one box below)

<input checked="" type="checkbox"/>	Initial Submission
<input type="checkbox"/>	Updating or Revising the Initial Submission
<input type="checkbox"/>	Supplying Information of Accomplishment to Date on Work
<input type="checkbox"/>	Different Phase of Project
<input type="checkbox"/>	Final Accomplishment Report (To Comply with the Closure of the 9262 Account)

**PART C - EMERGENCY REHABILITATION ASSESSMENT**

Rehabilitation Objectives

- " Prevent aggressive regrowth and re-establishment of undesirable exotic plant species such as salt cedar (*Tamarix chinensis*).
- " As practical and necessary, restore natural conditions to areas disturbed by fire suppression actions. Replace utility poles, fencing, signs, and repair damaged section of irrigation ditch.
- " Rehabilitate former salt cedar areas with cottonwoods, willows, mesquites and other native species as specified in the Lower Colorado River National Wildlife Refuges Comprehensive Management Plan.
- " Restore former revegetation site.
- " Reduce fire hazards to surrounding communities.

**PART D - TEAM ORGANIZATION, MEMBERS, AND RESOURCE ADVISORS**

I. Approval Authorities

II. Bumed Area Emergency Stabilization and Rehabilitation (ESR) Team Members:

Position	Team Member (Agency)
Team Leader	Mike Hawkes, Refuge Manager (USFWS)
Public Information	BLM, Yuma office
Operations	Mike Hawkes (USFWS)
NEPA Compliance & Planning	Brenda Zaun, Refuge Biologist (USFWS)
Hydrologist	
Soil Scientist	
Geologist	
Cultural Resources/Archeologist	Carol Telles (BLM)
Vegetation Specialist	Brenda Zaun (USFWS)
Wildlife Biologist	Brenda Zaun (USFWS)
GIS Specialist	Barbara Bowles (BLM)
Documentation/Computer Specialist	
Photographer	Brenda Zaun (USFWS)

**PART E - SUMMARY OF ACTIVITIES AND COSTS**

The summary of activities and cost table below identifies emergency rehabilitation costs charged or proposed for funding from Suppression Operations, Emergency Fire Rehabilitation, agency operation, and other funding sources. Expenditures are displayed in the total cost column. They are coded with the appropriate cost authority. The total cost of the rehabilitation effort to date, excluding the costs absorbed by the fire account (fire crews, labor, and associated overhead) is displayed as either Suppression Operations (F), Emergency Fire Rehabilitation (EFR), Emergency Watershed Protection (EWP), or Agency Operations/Other (O/OP) or other.

**Fire Name:** Hippy Fire  
**Date:** June 23, 2002

**PART E - SUMMARY OF REHABILITATION ACTIVITIES - COST SUMMARY TABLE - Hippy Fire**

Spec #	Title	Unit	Unit Cost	# of Units	Cost by Funding Source		Implementation Method	Specification Total
					EFR	OP/O		
	<b>Heavy Equipment Operation</b>							
	D-6 CAT Clear and pile aerial vegetation	hr	\$ 75.00	800	\$ 60,000		Agency	\$ 60,000
	D-6 CAT Root plow and pile salt cedar roots	hr	\$ 75.00	800	\$ 60,000		Agency	\$ 60,000
	<b>Contractor Services</b>							
	Laser level ground	ac	\$ 300.00	400	\$ 120,000		Contractor	\$ 120,000
	Construct water conveyance system	job	\$ 10,000.00	1	\$ 10,000		Contractor	\$ 10,000
	Tree planting	ac	\$ 100.00	400	\$ 40,000		Contractor	\$ 40,000
	Repair concrete ditch	job	\$ 3,000.00	1	\$ 3,000		Contractor	\$ 3,000
	Replace fence	mile	\$ 10,000.00	.7	\$ 7,000		Contractor	\$ 7,000
	<b>Supplies</b>							
	Willow, cottonwood, mesquite seedlings	ea	\$ 2.50	44,000	\$ 110,000		Purchase	\$ 110,000
	Signs	ea	\$ 6.85	13	\$ 89		Purchase	\$ 89
	<b>Miscellaneous</b>							
	Monitor revegetation site		\$ 5,000.00		\$ 5,000		Agency	\$ 5,000
<b>TOTAL COST</b>								\$ 425,089

**COST:** EFR=Emergency Fire Rehabilitation, OP/O=Agency Operations Funding, Other **METHOD:** FC=Crew Assigned to Fire, C=Contract, EFC=Emergency Fire Contract, P=Agency Personnel

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Clear and pile aerial vegetation and root plow	<b>AGENCY:</b>	Contractor
<b>PART E LINE ITEM:</b>	Ground preparation for revegetation	<b>FISCAL YEAR(S) (list each year):</b>	FY1

I. **WORK TO BE DONE** (describe or attach exact specifications of work to be done)

**Number and Describe Each Task:**

- A. General Description:** D-6 CAT to clear burned aerial vegetation and root plow 400 acre burned area to remove salt cedar skeletons and root crowns
- B. Location/Suitable Sites:** 400 acres burned in Hippy Fire
- C. Design/Construction Specifications:** Remove aerial vegetation and root crowns
- D. Purpose of Treatment Specifications:** To prepare ground for revegetation and prohibit the regrowth of salt cedar trees

**II. LABOR, MATERIALS AND OTHER COSTS:**

PERSONNEL SERVICES:		COST/ITEM
WG-10 Equipment Operator - Refuge will provide		
TOTAL PERSONNEL SERVICE COST		
EQUIPMENT PURCHASE, LEASE AND/OR RENT		COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST		
MATERIALS AND SUPPLIES		COST/ITEM
D-6 CAT and root plow @ \$75/hr for 1600 hrs		\$120,000
TOTAL MATERIALS AND SUPPLY COST		\$120,000
TRAVEL COST		COST/ITEM
TOTAL TRAVEL COST		
CONTRACT COST		COST/ITEM
TOTAL CONTRACT COST		

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1	Equipment/hr	\$75	1600	\$120,000	ESR	P
FY 2						

FY 3						
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**FUNDING SOURCE**

- F - Suppression Operations
- EFR** - Emergency Fire Rehabilitation
- EWP** - Emergency Watershed Protection
- OP/O** - Agency Operations/Other

**METHODS**

- P** - Agency Personnel Services
- C** - Contract (long-term)
- EFC** - Emergency Fire Contract (short-term)
- FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	M/P
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services    E = Equipment    M = Materials/Supplies    T = Travel    C = Contract    F = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Laser Level - Ground Preparation	<b>AGENCY:</b>	Contractor
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<b>PART E</b>	Laser Level	<b>FISCAL YEAR(S)</b>	FY1
<b>LINE ITEM:</b>		<b>(list each year):</b>	

**I. WORK TO BE DONE** (describe or attache exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> Laser level and slope ground to accomodate revegetation and flooding/irrigation of plants</p> <p><b>B. Location/Suitable Sites:</b> 400 acres burned in Hippy Fire</p> <p><b>C. Design/Construction Specific ations:</b> Laser level at 1% slope</p> <p><b>D. Purpose of Treatment Specifications:</b> To prepare ground for revegetation</p>
--

**II. LABOR, MATERIALS AND OTHER COSTS:**

<b>PERSONNEL SERVICES:</b>	<b>COST/ITEM</b>
TOTAL PERSONNEL SERVICE COST	
<b>EQUIPMENT PURCHASE, LEASE AND/OR RENT</b>	<b>COST/ITEM</b>
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
<b>MATERIALS AND SUPPLIES</b>	<b>COST/ITEM</b>
TOTAL MATERIALS AND SUPPLY COST	
<b>TRAVEL COST</b>	<b>COST/ITEM</b>
TOTAL TRAVEL COST	
<b>CONTRACT COST</b>	<b>COST/ITEM</b>
Laser level and 1% slope, \$300/ac @ 400 ac	\$120,000
TOTAL CONTRACT COST	\$120,000

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1	acre	\$300	400	\$120,000	ESR	C
FY 2						
FY 3						

**FUNDING SOURCE**

- F** - Suppression Operations
- EFR** - Emergency Fire Rehabilitation
- EWP** - Emergency Watershed Protection
- OP/O** - Agency Operations/Other

**METHODS**

- P** - Agency Personnel Services
- C** - Contract (long-term)
- EFC** - Emergency Fire Contract (short-term)
- FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services    E = Equipment    M = Materials/Supplies    T = Travel    C = Contract    F = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Construct irrigation ditch	<b>AGENCY:</b>	Contractor
<b>PART E LINE ITEM:</b>	Water conveyance system for revegetation	<b>FISCAL YEAR(S) (list each year):</b>	FY1

**I. WORK TO BE DONE** (describe or attach exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> Construct irrigation ditch from water source to revegetation site</p> <p><b>B. Location/Suitable Sites:</b> 400 acre area burned by Hippy Fire</p> <p><b>C. Design/Construction Specifications:</b> Ditch dimensions, 2' at bottom with 1:1 slope and 8' top width with turnouts</p> <p><b>D. Purpose of Treatment Specifications:</b> To irrigate/flood revegetated area</p>
--

**II. LABOR, MATERIALS AND OTHER COSTS:**

<b>PERSONNEL SERVICES:</b>	<b>COST/ITEM</b>
TOTAL PERSONNEL SERVICE COST	
<b>EQUIPMENT PURCHASE, LEASE AND/OR RENT</b>	<b>COST/ITEM</b>
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
<b>MATERIALS AND SUPPLIES</b>	<b>COST/ITEM</b>
TOTAL MATERIALS AND SUPPLY COST	
<b>TRAVEL COST</b>	<b>COST/ITEM</b>
TOTAL TRAVEL COST	
<b>CONTRACT COST</b>	<b>COST/ITEM</b>
Construct earthen ditch	\$10,000
TOTAL CONTRACT COST	\$10,000

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1	job	\$10,000	1	\$10,000	ESR	C
FY 2						
FY 3						

**FUNDING SOURCE**

**F** - Suppression Operations  
**EFR** - Emergency Fire Rehabilitation  
**EWP** - Emergency Watershed Protection  
**OP/O** - Agency Operations/Other

**METHODS**

**P** - Agency Personnel Services  
**C** - Contract (long-term)  
**EFC** - Emergency Fire Contract (short-term)  
**FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

**P** = Personnel Services      **E** = Equipment      **M** = Materials/Supplies      **T** = Travel      **C** = Contract      **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:

## PART F - INDIVIDUAL TREATMENT SPECIFICATIONS

<b>SPECIFICATION TITLE:</b>	Plant native trees	<b>AGENCY:</b>	Contractor
<b>PART E LINE ITEM:</b>	Tree planting	<b>FISCAL YEAR(S) (list each year):</b>	FY2

### I. WORK TO BE DONE (describe or attach exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> Plant native tree propagules</p> <p><b>B. Location/Suitable Sites:</b> 400 acres of area burned in Hippy Fire</p> <p><b>C. Design/Construction Specifications:</b> Plant native trees, 110/acre in 400 acres of burned area</p> <p><b>D. Purpose of Treatment Specifications:</b> To provide native wildlife habitat</p>
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### II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
Plant 110 trees/ac @ \$100/ac for 400 ac	\$40,000
TOTAL CONTRACT COST	\$40,000

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1						
FY 2	acre	\$100	400	\$40,000	ESR	C
FY 3						

**FUNDING SOURCE**

**F** - Suppression Operations  
**EFR** - Emergency Fire Rehabilitation  
**EWP** - Emergency Watershed Protection  
**OP/O** - Agency Operations/Other

**METHODS**

**P** - Agency Personnel Services  
**C** - Contract (long-term)  
**EFC** - Emergency Fire Contract (short-term)  
**FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

<b>1. Estimate obtained from 2-3 independent contractual sources.</b>	
<b>2. Documented cost figures from similar project work obtained from local agency sources.</b>	
<b>3. Estimate supported by cost guides from independent sources or other federal agencies.</b>	M/C
<b>4. Estimates based upon government wage rates and material cost.</b>	
<b>5. No cost estimate required -- cost charged to Fire Suppression Account.</b>	

**P** = Personnel Services      **E** = Equipment      **M** = Materials/Supplies      **T** = Travel      **C** = Contract      **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Repair concrete irrigation ditch	<b>AGENCY:</b>	Contractor
<b>PART E LINE ITEM:</b>	Repair concrete ditch	<b>FISCAL YEAR(S) (list each year):</b>	FY1

**I. WORK TO BE DONE** (describe or attache exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> Repair/replace approximately 70 feet of damaged concrete irrigation ditch</p> <p><b>B. Location/Suitable Sites:</b> Located adjacent to fire on southeast side</p> <p><b>C. Design/Construction Specifications:</b> Repair/replace approximately 70 feet of concrete irrigation ditch, 1:1 slope</p> <p><b>D. Purpose of Treatment Specifications:</b> For irrigation of refuge resources</p>
--

**II. LABOR, MATERIALS AND OTHER COSTS:**

<b>PERSONNEL SERVICES:</b>	<b>COST/ITEM</b>
TOTAL PERSONNEL SERVICE COST	
<b>EQUIPMENT PURCHASE, LEASE AND/OR RENT</b>	<b>COST/ITEM</b>
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
<b>MATERIALS AND SUPPLIES</b>	<b>COST/ITEM</b>
TOTAL MATERIALS AND SUPPLY COST	
<b>TRAVEL COST</b>	<b>COST/ITEM</b>
TOTAL TRAVEL COST	
<b>CONTRACT COST</b>	<b>COST/ITEM</b>
Labor, supplies, and equipment, \$3000	<b>\$3000</b>
TOTAL CONTRACT COST	<b>\$3000</b>

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1	job	\$3000	1	\$3000	ESR	C
FY 2						
FY 3						

**FUNDING SOURCE**

- F** - Suppression Operations
- EFR** - Emergency Fire Rehabilitation
- EWP** - Emergency Watershed Protection
- OP/O** - Agency Operations/Other

**METHODS**

- P** - Agency Personnel Services
- C** - Contract (long-term)
- EFC** - Emergency Fire Contract (short-term)
- FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	M/C
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

**P** = Personnel Services      **E** = Equipment      **M** = Materials/Supplies      **T** = Travel      **C** = Contract      **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Replace fence	<b>AGENCY:</b>	Contractor
<b>PART E LINE ITEM:</b>	Replace fence	<b>FISCAL YEAR(S) (list each year):</b>	FY1

**I. WORK TO BE DONE** (describe or attache exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> Replace .7 miles of 5-strand barbed wire fence damaged by the Hippy Fire</p> <p><b>B. Location/Suitable Sites:</b> Fence denotes Refuge north boundary (parallels Baseline Rd.)</p> <p><b>C. Design/Construction Specifications:</b> Replace T-posts, wood support structures including H-braces and corner braces. Replace 5 strands of 12.5 gauge barbed wire. Remove damaged fence.</p> <p><b>D. Purpose of Treatment Specifications:</b> Fence denotes Refuge north boundary and closed area.</p>
--

**II. LABOR, MATERIALS AND OTHER COSTS:**

<b>PERSONNEL SERVICES:</b>	<b>COST/ITEM</b>
TOTAL PERSONNEL SERVICE COST	
<b>EQUIPMENT PURCHASE, LEASE AND/OR RENT</b>	<b>COST/ITEM</b>
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
<b>MATERIALS AND SUPPLIES</b>	<b>COST/ITEM</b>
TOTAL MATERIALS AND SUPPLY COST	
<b>TRAVEL COST</b>	<b>COST/ITEM</b>
TOTAL TRAVEL COST	
<b>CONTRACT COST</b>	<b>COST/ITEM</b>
Install new fence @ \$10,000/mile x .7 miles	\$7000
TOTAL CONTRACT COST	\$7000

**SPECIFICATION COST SUMMARY**

<b>FISCAL YEAR</b>	<b>UNIT</b>	<b>UNIT COST</b>	<b># OF UNIT</b>	<b>COST</b>	<b>FUNDING SOURCE</b>	<b>METHOD</b>
FY 1	mile	\$10,000	.7	\$7000	ESR	C
FY 2						
FY 3						

**FUNDING SOURCE**

**F** - Suppression Operations  
**EFR** - Emergency Fire Rehabilitation  
**EWP** - Emergency Watershed Protection  
**OP/O** - Agency Operations/Other

**METHODS**

**P** - Agency Personnel Services  
**C** - Contract (long-term)  
**EFC** - Emergency Fire Contract (short-term)  
**FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

**P** = Personnel Services      **E** = Equipment      **M** = Materials/Supplies      **T** = Travel      **C** = Contract      **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Native trees in 1-gal pots	<b>AGENCY:</b>	Contractor
<b>PART E LINE ITEM:</b>	Seedlings	<b>FISCAL YEAR(S) (list each year):</b>	FY2

**I. WORK TO BE DONE** (describe or attach exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> 1-gal pots of native tree seedlings for revegetation of 400 acres burned in Hippy Fire</p> <p><b>B. Location/Suitable Sites:</b> 400 acres burned in Hippy Fire</p> <p><b>C. Design/Construction Specifications:</b> Rear and deliver 44,000 1-gal potted seedlings for revegetation</p> <p><b>D. Purpose of Treatment Specifications:</b> For revegetation and restoration of native wildlife habitat</p>
---

**II. LABOR, MATERIALS AND OTHER COSTS:**

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
44,000 seed lings @ \$2.50/ea	\$110,000
TOTAL CONTRACT COST	\$110,000

**SPECIFICATION COST SUMMARY**

<b>FISCAL YEAR</b>	<b>UNIT</b>	<b>UNIT COST</b>	<b># OF UNIT</b>	<b>COST</b>	<b>FUNDING SOURCE</b>	<b>METHOD</b>
FY 1						
FY 2	seedling	\$2.50	44,000	\$110,000	ESR	C
FY 3						

**FUNDING SOURCE**

**F** - Suppression Operations  
**EFR** - Emergency Fire Rehabilitation  
**EWP** - Emergency Watershed Protection  
**OP/O** - Agency Operations/Other

**METHODS**

**P** - Agency Personnel Services  
**C** - Contract (long-term)  
**EFC** - Emergency Fire Contract (short-term)  
**FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

<b>1. Estimate obtained from 2-3 independent contractual sources.</b>	
<b>2. Documented cost figures from similar project work obtained from local agency sources.</b>	M/C
<b>3. Estimate supported by cost guides from independent sources or other federal agencies.</b>	
<b>4. Estimates based upon government wage rates and material cost.</b>	
<b>5. No cost estimate required -- cost charged to Fire Suppression Account.</b>	

**P** = Personnel Services      **E** = Equipment      **M** = Materials/Supplies      **T** = Travel      **C** = Contract      **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Replace Resource Protection and Boundary Signs	<b>AGENCY:</b>	FWS
<b>PART E LINE ITEM:</b>	Sign Replacement	<b>FISCAL YEAR(S) (list each year):</b>	FY1

**I. WORK TO BE DONE** (describe or attache exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> Replace resource protection signs and boundary signs burned in Hippy Fire</p> <p><b>B. Location/Suitable Sites:</b> Refuge Boundary and Area Closed signs located on north boundary fence</p> <p><b>C. Design/Construction Specifications:</b> Replace burned signs with standard FWS signs</p> <p><b>D. Purpose of Treatment Specifications:</b> To inform refuge visitors of area closures and refuge boundary</p>
---

**II. LABOR, MATERIALS AND OTHER COSTS:**

<b>PERSONNEL SERVICES:</b>	<b>COST/ITEM</b>
TOTAL PERSONNEL SERVICE COST	
<b>EQUIPMENT PURCHASE, LEASE AND/OR RENT</b>	<b>COST/ITEM</b>
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
<b>MATERIALS AND SUPPLIES</b>	<b>COST/ITEM</b>
Refuge Boundary signs (FWS-A-2) @ \$6.85 ea x 8	\$55
Area Closed signs (FWS-A-6) @ \$6.85 ea x 5	\$34
TOTAL MATERIALS AND SUPPLY COST	\$89
<b>TRAVEL COST</b>	<b>COST/ITEM</b>
TOTAL TRAVEL COST	
<b>CONTRACT COST</b>	<b>COST/ITEM</b>
TOTAL CONTRACT COST	

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1	sign	\$6.85	13	\$89	ESR	P
FY 2						
FY 3						

**FUNDING SOURCE**

**F** - Suppression Operations  
**EFR** - Emergency Fire Rehabilitation  
**EWP** - Emergency Watershed Protection  
**OP/O** - Agency Operations/Other

**METHODS**

**P** - Agency Personnel Services  
**C** - Contract (long-term)  
**EFC** - Emergency Fire Contract (short-term)  
**FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	M
5. No cost estimate required -- cost charged to Fire Suppression Account.	

**P** = Personnel Services      **E** = Equipment      **M** = Materials/Supplies      **T** = Travel      **C** = Contract      **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:

**PART F - INDIVIDUAL TREATMENT SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	Monitor revegetation	<b>AGENCY:</b>	FWS
<b>PART E LINE ITEM:</b>	Monitor revegetation site	<b>FISCAL YEAR(S) (list each year):</b>	FY1-3

**I. WORK TO BE DONE** (describe or attache exact specifications of work to be done)

<p><b>Number and Describe Each Task:</b></p> <p><b>A. General Description:</b> Monitor growth and survival/mortality of revegetation</p> <p><b>B. Location/Suitable Sites:</b> 400 acres</p> <p><b>C. Design/Construction Specifications:</b> Conduct monitoring using general revegetation monitoring protocol, conduct wildlife/bird surveys</p> <p><b>D. Purpose of Treatment Specifications:</b> Assess survival/mortality of seedlings, assess wildlife use of area</p>
--

**II. LABOR, MATERIALS AND OTHER COSTS:**

<b>PERSONNEL SERVICES:</b>	<b>COST/ITEM</b>
GS-11 wildlife biologist	\$5000
<b>TOTAL PERSONNEL SERVICE COST</b>	<b>\$5000</b>
<b>EQUIPMENT PURCHASE, LEASE AND/OR RENT</b>	<b>COST/ITEM</b>
<b>TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST</b>	
<b>MATERIALS AND SUPPLIES</b>	<b>COST/ITEM</b>
<b>TOTAL MATERIALS AND SUPPLY COST</b>	
<b>TRAVEL COST</b>	<b>COST/ITEM</b>
<b>TOTAL TRAVEL COST</b>	
<b>CONTRACT COST</b>	<b>COST/ITEM</b>
<b>TOTAL CONTRACT COST</b>	

**SPECIFICATION COST SUMMARY**

<b>FISCAL YEAR</b>	<b>UNIT</b>	<b>UNIT COST</b>	<b># OF UNIT</b>	<b>COST</b>	<b>FUNDING SOURCE</b>	<b>METHOD</b>
FY 1	job	\$5000	1	\$5000	ESR	P
FY 2	con t					
FY 3	con t					

**FUNDING SOURCE**

**F** - Suppression Operations  
**EFR** - Emergency Fire Rehabilitation  
**EWP** - Emergency Watershed Protection  
**OP/O** - Agency Operations/Other

**METHODS**

**P** - Agency Personnel Services  
**C** - Contract (long-term)  
**EFC** - Emergency Fire Contract (short-term)  
**FC** - Incident Management Crew Assignment

**SOURCE OF COST ESTIMATE**

<b>1. Estimate obtained from 2-3 independent contractual sources.</b>	
<b>2. Documented cost figures from similar project work obtained from local agency sources.</b>	
<b>3. Estimate supported by cost guides from independent sources or other federal agencies.</b>	
<b>4. Estimates based upon government wage rates and material cost.</b>	P/E/M
<b>5. No cost estimate required -- cost charged to Fire Suppression Account.</b>	

**P** = Personnel Services      **E** = Equipment      **M** = Materials/Supplies      **T** = Travel      **C** = Contract      **F** = Suppression

**III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

**List Relevant Documentation and Cross-Reference Location with ESR Plan Accomplishment Report (for Rehabilitation treatments quote, include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans**

**SPECIFICATION COST SUMMARY**

<b>FISCAL YEAR</b>	<b>UNIT</b>	<b>UNITS COST</b>	<b># OF UNITS</b>	<b>COST</b>	<b>FUNDING SOURCE</b>	<b>METHOD</b>
FY 1	Cibola			\$270,089	EFR	OP/O/P/C
FY 2	Cibola			\$150,000	EFR	C
FY 3	Cibola			\$5,000	EFR	P
<b>TOTAL</b>						

**FUNDING SOURCE**

**F** - Suppression Operations  
**EFR** - Emergency Fire Rehabilitation  
**EWP** - Emergency Watershed Protection  
**OP/O** - Agency Operations/Other

**METHODS**

**P** - Agency Personnel Services  
**C** - Contract (long-term)  
**EFC** - Emergency Fire Contract (short-term)  
**FC** - Incident Management Crew Assignment

**PART G - POST-REHABILITATION REQUIREMENT**

The following are post-rehabilitation, implementation, operation, maintenance, monitoring, and evaluation actions up to three years to ensure the effectiveness of initial investments. Cost for monitoring beyond three years will be incurred by refuge. Estimated annual cost and funding source is indicated.

Rehabilitation

1. Continue invasive species monitoring and control (\$5,000 - P)
3. Monitor and maintain water conveyance system (\$5,000 - OP/O)
4. Long-term monitoring:  
 Monitor riparian vegetation recovery (\$5,000 - P).



**PART H - REVIEW AND APPROVAL**

**USFWS, Hippy Fire**

**I. Emergency Fire Rehabilitation (9262) Funding Approval (check one box below):**

- \*  Approved
- \*  Approved with Revision (see attached)
- \*  Disapproved

---

Dale Hall, Region 2 Director, U.S. Fish and Wildlife Service

Date

**II. Regional Fire Management Coordinator concurrence** that the plan fits the technical definition for use of Emergency Fire Rehabilitation finding. *(U.S. Fish and Wildlife Service Only)*

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Jeff Whitney, Regional Fire Management Coordinator, Region 2

Date

**III. Agency Operational Base Funding Approval (check one box below):**

- \*  Approved
- \*  Approved with Revision (see attached)
- \*  Disapproved

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Gary Montoya, AZ/NM Refuge Supervisor

Date

**IV. Emergency Fire Rehabilitation Funding Approval (check one box below):**

- \*  Approved
- \*  Approved with Revision (see attached)
- \*  Disapproved

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Date

**APPENDIX I - ENVIRONMENTAL COMPLIANCE**

## **Federal, State, and Private Lands Environmental Compliance Responsibilities**

All projects proposed in the Hippy Fire Burned Area Emergency Stabilization and Rehabilitation (ESR) Plan that are prescribed, funded, or implemented by Federal agencies on Federal, State, or private lands are subject to compliance with the National Environmental Policy Act (NEPA) in accordance with the guidelines provided by the Council on Environmental Quality (CEQ) Regulations (40 CFR 1500-1508); Fish and Wildlife Service Fire Management Handbook (Release 7/17/00) and 095 FW3,3.9B,C. This Appendix documents the ESR Team considerations of NEPA compliance requirements for prescribed rehabilitation and monitoring actions described in this plan for all jurisdictions affected by the Hippy burned area emergency.

## **Related Plans and Cumulative Impact Analysis**

The Lower Colorado River National Wildlife Refuges Comprehensive Management Plan, approved 9/19/94, was reviewed and it was determined that actions proposed in the Hippy Fire ESR Plan within the boundary of the Hippy Fire are consistent with the management objectives established in the Comprehensive Management Plan. The Comprehensive Management Plan NEPA compliance process specifically addresses:

" Part X: Synthesis, Goals and Objectives, Issue 8: Revegetation

In cooperation with the Bureau of Reclamation (BR), revegetate substantial amounts of habitat with native mixes of vegetation leading to biological diversity.

## **Cumulative Impact Analysis**

Cumulative effects are the environmental impacts resulting from the incremental impacts of a proposed action when added to other past, present, and reasonably foreseeable future actions, both Federal and non-Federal. Cumulative impacts can result from individually minor, but collectively significant actions taking place over a period of time. The emergency protection and rehabilitation treatments for areas affected by the Hippy Fire, as proposed in the Hippy Fire ESR Plan, do not result in an intensity of impact (i.e. major ground disturbance, etc.) that would cumulatively constitute a significant impact on the quality of the environment. The treatments are consistent with the above jurisdictional management plans and associated environmental compliance documents and categorical exclusions listed below.

## **Applicable and Relevant Categorical Exclusions**

The individual actions proposed in this plan for rehabilitation of the Hippy Fire are Categorically Excluded from further environmental analysis as provided for in the DM 516, DM 6, Appendix 1, 1.4 (3), (4), (5), (6), (9), and (11).

## **Statement of Compliance for the Hippy Fire Burned Area Emergency Stabilization and Rehabilitation Plan.**

This section documents consideration given to the requirements of specific environmental laws in the development of the Hippy Fire ESR Plan. Specific consultations initiated or completed during development and implementation of this plan are also documented. The following executive orders and legislative acts have been reviewed as they apply to the Hippy Fire ESR Plan:

- " National Historic Preservation Act (NHPA).
- " Executive Order 11988. Floodplain Management.
- " Executive Order 11990. Protection of Wetlands.
- " Executive Order 12372. Intergovernmental Review.
- " Executive Order 12892. Federal Actions to Address Environmental Justice in Minority and Low-income Populations.
- " Endangered Species Act.
- " Secretarial Order 3127. Federal Contaminated
- " Clean Water Act.
- " Clean Air Act.

## CONSULTATIONS

- " BLM and BOR

**NEPA Checklist:** If any of the following exception applies, the ESR Plan cannot be Categorical Excluded and an Environmental Assessment (EA) is required.

(Yes) (No)

- (X) Adversely affect Public Health and Safety
- (X) Adversely affect historic or cultural resources, wildemess, wild and scenic rivers aquifers, prime farmlands, wetlands, floodplains, ecologically critical areas, or Natural Landmarks.
- (X) Have highly controversial environmental effects.
- (X) Have highly uncertain environmental effects or involve unique or unknown environmental risks.
- (X) Establish a precedent resulting in significant environmental effects.
- (X) Relates to other actions with individually insignificant but cumulatively significant environmental effects.
- (X) Adversely effects properties listed or eligible for listing in the National Register of Historic Places
- (X) Adversely affect a species listed or proposed to be listed as Threatened or Endangered.
- (X) Threaten to violate any laws or requirements imposed for the "protection of the environment" such as Executive Order 11988 (Floodplain Management) or Executive Order 11990 (Protection of Wetlands).

## National Historic Preservation Act

Ground Disturbance:

- (X) Ground disturbance will occur on previously disturbed sites and an archaeological survey is therefore not required under 106 of NHPA.

A NHPA Clearance Form:

- ( ) Is required because the project may have affected a site that is eligible or on the national register. The clearance form is attached. SHPO has been consulted under Section 106 (see Cultural Resource Assessment, Appendix I).
- (X) Is not required because the ESR Plan has no potential to affect cultural resources (initial of cultural resource specialist).

**Other Requirements**

(Yes) (No)

- ( ) (X) Does the ESR Plan have potential to affect any Native American uses? If so, consultation with affiliated tribes is needed.
- ( ) (X) Are any toxic chemicals, including pesticides or treated wood, proposed for use? If so, local agency integrated pest management specialists must be consulted.

I have reviewed the proposals in the Hippy Fire Burned Area Emergency Stabilization and Rehabilitation Plan in accordance with the criteria above and have determined that the proposed actions would not involve any significant environmental effect. Therefore it is categorically excluded from further environmental (NEPA) review and documentation. ESR Team technical specialists have completed necessary coordination and consultation to insure compliance with the National Historic Preservation Act, Endangered Species Act, Clean Water Act and other Federal, State and local environment review requirements.

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ESR Team Environmental Protection Specialist Date

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Project Leader, Cibola National Wildlife Refuge Date

## APPENDIX II - PHOTOS