

Date of Report:

**BURNED-AREA REPORT**

(Reference FSH 2509.13)

**PART I - TYPE OF REQUEST**

## A. Type of Report

- ☒ 1. Funding request for estimated emergency stabilization funds  
☐ 2. Accomplishment Report  
☐ 3. No Treatment Recommendation

## B. Type of Action

- ☒ 1. Initial Request (Best estimate of funds needed to complete eligible stabilization measures)  
☐ 2. Interim Report # \_\_\_\_\_  
    ☐ Updating the initial funding request based on more accurate site data or design analysis  
    ☐ Status of accomplishments to date  
☐ 3. Final Report (Following completion of work)

**PART II - BURNED-AREA DESCRIPTION**A. Fire Name: ChittyB. Fire Number: AZ-ASF-070249C. State: AZD. County: GreenleeE. Region: 03F. Forest: Apache-SitgreavesG. District: CliftonH. Fire Incident Job Code: P3DLW2I. Date Fire Started: 6/29/07J. Date Fire Contained: 7/18/2007K. Suppression Cost: \$2M

## L. Fire Suppression Damages Repaired with Suppression Funds

1. Fireline waterbarred (2 miles):
2. Fireline seeded (1 miles):
3. Other:
  - a. Snag felling for health and safety purposes along lines, trails, Strayhorse campground, Roads 54 and 587, Blue Vista overlook.
  - b. Removal of stumps and renovation of west entrance way for Blue Vista overlook – health and safety issue.

M. Watershed Number: 1504000502 (Upper Eagle Creek) with a minor amount of burn in  
15006010103 (Middle Black River) and 1504000405 (Upper Blue River)

N. Total Acres Burned: approx 14,200 Actual burned \_\_\_\_\_  
NFS Acres(14,200) Other Federal ( ) State (**0**) Private ( 0 )

O. Vegetation Types: Mixed Conifer, Ponderosa Pine, Pinyon Juniper, Mountain Brush, Grassland

P. Dominant Soils:

Q. Geologic Types: Quaternary – Tertiary Basalts at upper end at upper end of burn; Quaternary – Tertiary Sediments (Old Valley Fill Alluvial Deposits at lower end of burn)

R. Miles of Stream Channels by Order or Class: 10 miles perennial, 45 miles intermittent, 27 miles ephemeral  
(some stream miles form perimeter of burn)

S. Transportation System

Trails: 42 miles      Roads: 16.5 miles (most roads are along perimeter of burn)

### **PART III - WATERSHED CONDITION**

A. Burn Severity (acres): 12,100 (low/unburned) 1600 (moderate) 500 (high) est. based on aerial survey

B. Water-Repellent Soil (acres): low to moderate repellancy on 500 acres

C. Soil Erosion Hazard Rating (acres): n/a  
         (low)         (moderate)         (high)

D. Erosion Potential: n/a tons/acre

E. Sediment Potential: 0.6 tons per acre (note units of measure) (from Chitty Prescribed Burn analysis)

### **PART IV - HYDROLOGIC DESIGN FACTORS**

A. Estimated Vegetative Recovery Period, (years): n/a

B. Design Chance of Success, (percent): n/a

C. Equivalent Design Recurrence Interval, (years): n/a

D. Design Storm Duration, (hours): n/a

E. Design Storm Magnitude, (inches):

F. Design Flow, (cubic feet / second/ square mile): n/a

G. Estimated Reduction in Infiltration, (percent): n/a

H. Adjusted Design Flow, (cfs per square mile): n/a

### **PART V - SUMMARY OF ANALYSIS**

A. Describe Critical Values/Resources and Threats:

The Blue Vista overlook area was burned over in the fire, leaving 2 asphalt walkways damaged and dangerous to visitors. Also, a concrete viewing platform is now potentially unstable due to the loss of trees surrounding the platform and fill which could result in slope failure. The overlook now has the potential to attract even more

people since the fire opened up the vista and improved the views. Human safety is at risk for visitors to the Overlook in its current state.

90% of fire occurred within the proposed perimeter of the Chitty Prescribed Fire project which was to be implemented in the Fall of 2007. This project had been analysed for impacts on several resources including watershed, water quality and fisheries. Principal watershed and fisheries concerns centered on Chitty Creek-proposed as a recovery stream for Gila trout (currently occupied by hybrid rainbow trout), and on critical habitat for Loach minnow and spinedace in Eagle Creek located more than 8 miles below the burned area. Burn prescriptions and BMPs incorporated into the proposed prescribed burn project were designed to protect against harm to the fish habitat in Chitty Creek and water quality impacts to area streams. The lightning ignited Chitty Fire burned within prescription within the Chitty Creek watershed and within most of the burned area of the remainder of the fire. However, an area of approximately 160 acres of high burn intensity with estimated moderate to high burn severity occurred in a basin including headwater reaches of Crabtree Creek. (presriCrabtree Creek is ephemeral to intermittent In flow regime and is not a fishery. It is tributary to the East Eagle Creek approximately 2 miles above the mouth of the Chitty /Salthouse Creek drainage.) The area of high burn severity crossed the creek leaving no sediment buffer. This burn was beyond the prescription of the project and mitigation measures will be employed using funds originally earmarked for the Chitty Prescribed Burn Project to prevent unacceptable levels of sediment input to Crabtree Creek. BAER funds will not be required. A Mexican Spotted Owl PAC is located within the Crabtree Creek drainage. This PAC sustained a level of burning which was not injurious to the MSO habitat and will not require emergency treatment.

Other than the creation of hazard trees along 7 miles of Arizona State Highway 191, the Blue Vista Overlook and and 4 miles of Forest Road 54, this fire posed no threat to human life or property. Hazard tree removal was partially accomplished with fire resources and will be likely be completed with a salvage operation.

Long Term Rehabilitation: Although not emergency needs, long-term rehab needs likely do exist to repair damaged fences and recreation trails which crossed the burned area.

Long term rehabilitation is likely to include:

1. Reconstruction or heavy maintenance and snag removal of 20 miles of boundary and allotment division fencing. Cost is expected to be high on 75% due to access and terrain.
2. Heavy maintenance of trails within Chitty burn, including hazard tree removal, down log removal, tread re-establishment within Salt House, Crabtree, along Highline trail, and in portions of East Eagle.
3. Earth tank cleaning due to debris from recent hail storms/ash slides (6 tanks)
4. Noxious Weed assessments and eradication as needed. Should occur over next 1-3 years.
5. Renovation of parking lot and other attributes at Blue Vista due to damage from Chipper and heat from fire activity. Restroom was not damaged. One viewing platform has been undermined by ground fire.
6. Post-fire effects monitoring as described in the Prescribed burn Decision Notice and BO for Mexican spotted owl, Gila chub habitat, and aquatic habitats in Chitty Creek, along with post fire herbaceous monitoring for restocking of livestock.

B. Emergency Treatment Objectives: Protect human life/safety at fire damaged and de-stabilized facility @ Blue Vista. Additional emergency treatments were determined to be minor in extent and no funding is requested for land treatments.

C. Probability of Completing Treatment Prior to Damaging Storm or Event:

Land \_\_\_ % Channel \_\_\_ % Roads/Trails \_\_\_ % Protection/Safety 100 %

D. Probability of Treatment Success 100%

E. Cost of No-Action (Including Loss): Potential loss of human life if platform or asphalt trail fail.

F. Cost of Selected Alternative (Including Loss): **\$10,000**

G. Skills Represented on Burned-Area Survey Team:

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input type="checkbox"/> Geology	<input type="checkbox"/> Range	<input type="checkbox"/>
<input type="checkbox"/> Forestry	<input type="checkbox"/> Wildlife	<input checked="" type="checkbox"/> Fire Mgmt.	<input checked="" type="checkbox"/> Engineering	<input type="checkbox"/>
<input type="checkbox"/> Contracting	<input type="checkbox"/> Ecology	<input type="checkbox"/> Botany	<input type="checkbox"/> Archaeology	<input type="checkbox"/>
<input type="checkbox"/> Fisheries	<input type="checkbox"/> Research	<input type="checkbox"/> Landscape Arch	<input type="checkbox"/> GIS	

( In addition to the skills represented on the Burned Area Survey Team, the Chitty Prescribed Burn Project also included professional staff with Fisheries, Wildlife, Range, and Archaeology skills.)

Team Leader: Chris Nelson

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**H. Treatment Narrative:**

(Describe the emergency treatments, where and how they will be applied, and what they are intended to do. This information helps to determine qualifying treatments for the appropriate funding authorities. For seeding treatments, include species, application rates and species selection rationale.)

Land Treatments:

Channel Treatments:

Roads and Trail Treatments:

Protection/Safety Treatments: Construction of two swinging gates at the entry and egress points of Blue Vista Overlook Loop. These gates will be locked and signed to prevent public access to the area until funding is appropriated to replace trails/platforms and railings. Using gates instead of permanent barriers will allow administrative access for hazard removal and repair while the area is closed to the public.

**I. Monitoring Narrative:**

(Describe the monitoring needs, what treatments will be monitored, how they will be monitored, and when monitoring will occur. A detailed monitoring plan must be submitted as a separate document to the Regional BAER coordinator.)

Check gates occasionally to see if gate, signs and locks are intact. No additional cost.

**Part VI – Emergency Stabilization Treatments and Source of Funds**

Interim #

Line Items	Units	Unit Cost	NFS Lands		Other \$	Other Lands			All Total \$
			# of Units	BAER \$		# of units	Fed \$	# of Units Non Fed \$	
<b>A. Land Treatments</b>									
				\$0	\$0		\$0	\$0	\$0
				\$0	\$0		\$0	\$0	\$0
				\$0	\$0		\$0	\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0	\$0
<i>Subtotal Land Treatments</i>				\$0	\$0		\$0	\$0	\$0
<b>B. Channel Treatments</b>									
				\$0	\$0		\$0	\$0	\$0
				\$0	\$0		\$0	\$0	\$0
				\$0	\$0		\$0	\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0	\$0
<i>Subtotal Channel Treat.</i>				\$0	\$0		\$0	\$0	\$0
<b>C. Road and Trails</b>									
				\$0	\$0		\$0	\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0	\$0
<i>Subtotal Road &amp; Trails</i>				\$0	\$0		\$0	\$0	\$0
<b>D. Protection/Safety</b>									
Gates for Blue Vista	2	5000	2	\$10,000	\$0		\$0	\$0	\$10,000
				\$0	\$0		\$0	\$0	\$0
				\$0	\$0		\$0	\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0	\$0
<i>Subtotal Structures</i>				\$10,000	\$0		\$0	\$0	\$10,000
<b>E. BAER Evaluation</b>									
	1	2000	1	---	\$2,000		\$0	\$0	\$2,000
<i>Insert new items above this line!</i>				---	\$0		\$0	\$0	\$0
<i>Subtotal Evaluation</i>				---	\$2,000		\$0	\$0	\$2,000
<b>F. Monitoring</b>									
				\$0	\$0		\$0	\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0	\$0	\$0
<i>Subtotal Monitoring</i>				\$0	\$0		\$0	\$0	\$0
<b>G. Totals</b>				\$10,000	\$2,000		\$0	\$0	\$12,000
Previously approved				\$0					
Total for this request				\$10,000					

**PART VII - APPROVALS**

 1. /s/ Elaine J. Zieroth  
 Forest Supervisor (signature)

7/27/2007  
 Date

 2. /s/ Abel Camerena  
 Regional Forester (signature)

7/27/2007  
 Date