USDA-FOREST SERVICE FS-2500-8 (7/00)

Date of Report: 9/11/02

BURNED-AREA REPORT
(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

A. Type of Report

[X] 1. Funding request for estimated WFSU-SULT funds
[ ] 2. Accomplishment Report
[ ] 3. No Treatment Recommendation

B. Type of Action

[X] 1. Initial Request (Best estimate of funds needed to complete eligible rehabilitation 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:Office Bridge

B. Fire Number:OR-WIF-203

C. State:OR

D. County:Lane

E. Region:06

F. Forest18

G. District:05

H. Date Fire Started:9/1/02

I. Date Fire Contained:9/10/02

J. Suppression Cost:$2,000,000

K. Fire Suppression Damages Repaired with Suppression Funds
1. Fireline waterbarred (miles): 2
2. Fireline seeded (miles) 2
3. Other (identify) restore drainage and surface on 1/2 mile of roadway

L. Watershed Number: 1709000117

M. Total Acres Burned:160
NFS Acres(**145**) Other Federal ( ) State ( ) Private (15)

N. Vegetation Types:Douglas fir and hardwood shrubs

O. Dominant Soils: Shallow, coarse textured, rock dominated soils with occassional rock outcrops.

P. Geologic Types: Undifferentiated tuffaceous rock, tuff, and basalt on slope below ridge capping basalts, narrow riverine terrace at bottom of fire with silt and sand materials overlying cobble material.

Q. Miles of Stream Channels by Order or Class: Class 1 - 0.2 miles, Class 4 - 0.2 miles

R. Transportation System

Trails 0.8 miles Roads: 0.5 miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 48 (low) 80 (moderate) 32 (high)

B. Water-Repellent Soil (acres): 80

C. Soil Erosion Hazard Rating (acres):
___ (low) ___ (moderate) 160 (high)

D. Erosion Potential: 75 tons/acre

E. Sediment Potential: 43,072 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years): 5

B. Design Chance of Success, (percent): 70

C. Equivalent Design Recurrence Interval, (years): 24

D. Design Storm Duration, (hours): 24

E. Design Storm Magnitude, (inches): 3.8

F. Design Flow, (cubic feet / second/ square mile): 75

G. Estimated Reduction in Infiltration, (percent): 50

H. Adjusted Design Flow, (cfs per square mile): 112

PART V - SUMMARY OF ANALYSIS

A. Describe Watershed Emergency:

The fire burned on side slopes and riverine terrace to waters edge on the North Fork of the Middle Fork of the Willamette River, approximately 100 feet above the intake for the City of Westfir's municipal water supply system. In addition, the river reaches adjacent to, and below the fire provide habitat for a variety of fish and other aquatic species including spring chinook salmon and potentially, bull trout.

The hillslope immediately above the river experienced severe fire conditions at soil level as the slope was covered by a blackberry brushfield. Underneath the blackberries was an assortment of mill debris that was suspected to contain petro-chemicals and was considered a hazardous work area during suppression activities. A small intermittent stream with occassional surface seepage flows through this area. Soil water

repellency in this area consisted of a layer approximately 2 - 4 centimeters thick, just below the surface ash layer.

B. Emergency Treatment Objectives:

The objective of the proposed treatment is to stabilize erosive soils on the severely burned site above the water supply intake, and minimize the risk of potentially contaminated sediments being transported to the river. Effective ground cover will be re-established on the site and erosion barriers placed at the base of the slope if it appears that seeding will not be established prior to the design storm event.

There is no objective to engage in cleanup activities of pre-existing contamination.

C. Probability of Completing Treatment Prior to First Major Damage-Producing Storm:

Land **95** % Channel ___ % Roads ___ % Other ___ %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	70	95	100
Channel			
Roads			
Other			

E. Cost of No-Action (Including Loss): **$58700**

F. Cost of Selected Alternative (Including Loss): **$33700**

G. Skills Represented on Burned-Area Survey Team:

[X] Hydrology [**X**] Soils [ ] Geology [ ] Range [ ]
[X] Forestry [ ] Wildlife [ ] Fire Mgmt. [ ] Engineering [ ]
[ ] Contracting [ ] Ecology [**X**] Botany [ ] Archaeology [ ]
[X] Fisheries [ ] Research [ ] Landscape Arch [ ] GIS

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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:

Approximately 2 acres of severely burned area immediately upslope from the North Fork of the Middle Fork of the Willamette River will be hand seeded to restore effective ground cover on erosive and possibly contaminated soils. Seed to be applied includes: winter wheat at 40 lbs pure live seed per acre, and a local, native species, either california brome or blue wild rye depending on availability, at 20 lbs pure live seed per acre. All seed is to be certified weed free.

In addition, approximately 400 feet of straw bale erosion barrier will be placed between the base of the slope and the river to control potential sediment transport if it appears that the design storm is likely to occur prior to establishment of ground cover. Straw to be used should be certified weed free.

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.)

The City of Westfir will be actively monitoring the condition of the treatment area. We will co-ordinate with them for acquisition of their data.

Part VI – Emergency Rehabilitation Treatments and Source of Funds by Land Ownership

Line Items	Units	Unit Cost	# of Units	WFSU SULT $	Other $	# of units	Fed $	# of Units	Non Fed $	Total $
A. Land Treatments										
Hand seeding	Ac	500	2	$1,000	$0		$0		$0	$1,000
Straw erosion fence	Feet	400	6	$2,400	$0		$0		$0	$2,400
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Land Treatments				$3,400	$0		$0		$0	$3,400
B. Channel Treatments										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Channel Treat.				$0	$0		$0		$0	$0
C. Road and Trails										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Road & Trails				$0	$0		$0		$0	$0
D. Structures										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Structures				$0	$0		$0		$0	$0
E. BAER Evaluation										
Administrative costs	Days	200	2	$400	$0		$0		$0	$400
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Evaluation				$400	$0		$0		$0	$400
F. Monitoring										
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Monitoring				$0	$0		$0		$0	$0
G. Totals				**$3,800**	**$0**		**$0**		**$0**	**$3,800**

PART VII - APPROVALS

1. /s/ Y. Robert Iwamoto — 09/16/2002
   (for) Forest Supervisor (signature) — Date

2. _____ — _____
   Regional Forester (signature) — Date