

**Date of Report: October 05, 2021****BURNED-AREA REPORT****PART I - TYPE OF REQUEST****A. Type of Report**

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

**B. Type of Action**

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

**PART II - BURNED-AREA DESCRIPTION****A. Fire Name: Nason****B. Fire Number: WA-OWF-000456****C. State: Washington****D. County: Chelan****E. Region: R6 Pacific Northwest****F. Forest: Okanogan-Wenatchee****G. District: Wenatchee River****H. Fire Incident Job Code: P6N7ZG (0617)****I. Date Fire Started: August 8, 2021****J. Date Fire Contained: 90% as of 9/28/2021****K. Suppression Cost: \$300,000****L. Fire Suppression Damages Repaired with Suppression Funds (estimates):**

1. Fireline repaired (miles): N/A
2. Other (identify): N/A

**M. Watershed Numbers:***Table 1: Acres Burned by Watershed*

HUC #	Watershed Name	Total Acres	Acres Burned	% of Watershed Burned
170200110110	Lower Little Wenatchee River	12,386	629	5
170200110109	Rainy Creek	10,864	692	6

**N. Total Acres Burned:***Table 2: Total Acres Burned by Ownership*

OWNERSHIP	ACRES
NFS	1321
OTHER FEDERAL (LIST AGENCY AND ACRES)	0
STATE	0
PRIVATE	0
TOTAL	1321

- O. **Vegetation Types:** Ranges from subalpine fir, Englemann spruce, and lodgepole pine forest at higher elevations to moist hemlock and western red cedar on lower slopes.
- P. **Dominant Soils:** Soils forming on gently sloping to moderately steep slopes (<60%) are moderately well-developed Andisols or Spodosols with an ashy mantle over rocky colluvium, residuum, or glacial till. Common soil types include Xeric Vitricryands, Spodic Vitricryands, and Andic Haplocryods. Common soil types on steep backslopes are weakly developed Inceptisols and Spodosols, including, Andic Cryumbrepts and Andic Haplocryods.
- Q. **Geologic Types:** Chiwaukum Schist and banded gneiss derived from the schist by igneous and metamorphic processes. The Chiwaukum Schist is predominantly an alumino-silicate-bearing graphitic garnet-biotite-quartz schist, but in its lower part rich in abundant hornblende-biotite schist, hornblende gneiss, amphibolite, calc-silicate schist, and marble. (USGS OFR 85-434). Glacial processes have sculpted the fire area into steepened trough walls mantled with a cover of till with lateral valley deposits up to about 4500 feet. Thicker deposits occur in valley bottoms where erosion and post glacial mass wasting events have transported till downslope.

**R. Miles of Stream Channels by Order or Class:***Table 3: Miles of Stream Channels by Order or Class*

STREAM TYPE	MILES OF STREAM
PERENNIAL	0.9
INTERMITTENT	0.33
EPHEMERAL	
OTHER (DEFINE)	

**S. Transportation System:**

**Trails:** National Forest (miles): 5

Other (miles):

**Roads:** National Forest (miles):

Other (miles):

**PART III - WATERSHED CONDITION****A. Burn Severity (acres):***Table 4: Burn Severity Acres by Ownership*

Soil Burn Severity	NFS	Other Federal (List Agency)	State	Private	Total	% within the Fire Perimeter
Unburned	381				381	29
Low	666				666	50
Moderate	237				237	18
High	37				37	3
Total	1321				1321	100

**B. Water-Repellent Soil (acres): Not surveyed**

**C. Soil Erosion Hazard Rating: Slight 141 acres (11%), Moderate 1,132 acres (86%), Severe 21 acres (1%), Not Rated 28 acres (2%)**

**D. Erosion Potential: 4.6 tons/acre**

**E. Sediment Potential: 317 cubic yards/square mile**

**F. Estimated Vegetative Recovery Period (years): 3 – 5 for moderate and high severity areas**

**G. Estimated Hydrologic Response (brief description): Not quantified. Possible localized increase in unit runoff in areas of moderate or high burn severity.**

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

### **Introduction/Background**

#### **A. Describe Critical Values/Resources and Threats (narrative):**

*Table 5: Critical Value Matrix*

Probability of Damage or Loss	Magnitude of Consequences		
	Major	Moderate	Minor
	<b>RISK</b>		
Very Likely	Very High	Very High	Low
Likely	Very High	High	Low
Possible	High	Intermediate	Low
Unlikely	Intermediate	Low	Very Low

1. **Human Life and Safety (HLS):** Road and trail users adjacent to or within the burned are perimeter (Likely, High)
2. **Property (P):** N/A
3. **Natural Resources (NR):** N/A
4. **Cultural and Heritage Resources:** N/A

**B. Emergency Treatment Objectives:** Human Life and Safety, Warning users that may unknowingly enter burned areas with a high risk of post-fire blowdown of large burned or fire weakened trees. This is now an unacceptable risk compounded by high winds and usually very moist soil conditions.

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

Land: N/A

Channel: N/A

Roads/Trails: N/A

Protection/Safety: 90%

#### **D. Probability of Treatment Success**

*Table 6: Probability of Treatment Success*

	<b>1 year after treatment</b>	<b>3 years after treatment</b>	<b>5 years after treatment</b>
<b>Land</b>	N/A	N/A	N/A
<b>Channel</b>	N/A	N/A	N/A
<b>Roads/Trails</b>	N/A	N/A	N/A
<b>Protection/Safety</b>	80	70	70

**E. Cost of No-Action (Including Loss):****F. Cost of Selected Alternative (Including Loss):****G. Skills Represented on Burned-Area Survey Team:**

- ☒ Soils      ☐ Hydrology      ☒ Engineering      ☒ GIS      ☐ Archaeology  
☐ Weeds      ☐ Recreation      ☐ Fisheries      ☐ Wildlife  
☐ Other:

**Team Leader:** Gregory A. Kuyumjian**Email:** gregory.kuyumjian@usda.gov**Phone(s)** 509.293.3066**Forest BAER Coordinator:** Molly Hanson**Email:** molly.hanson@usda.gov**Phone(s):** 509.306.5418**Team Members:** *Table 7: BAER Team Members by Skill*

Skill	Team Member Name
<i>Team Lead(s)</i>	Gregory A. Kuyumjian
<i>Soils</i>	Kristen Meier, Tracy Christopherson (t)
<i>Hydrology</i>	
<i>Engineering</i>	Ken Bigelow, Lori McAlister
<i>GIS</i>	Robert Arlowe
<i>Archaeology</i>	
<i>Weeds</i>	
<i>Recreation</i>	
<i>Other</i>	

**H. Treatment Narrative:****Land Treatments:** none**Channel Treatments:** none**Roads and Trail Treatments:** none

**Protection/Safety Treatments:** Warning Signage; Road (3), Recreation (7). Strategically located road and trail warning signs given high potential for blowdowns resulting from gusty winds coming off the Cascade Crest through burned areas with limited sight distances. Trail signs are actually on ML-1 roads with high public use.

**I. Monitoring Narrative:**

**PART VI – EMERGENCY STABILIZATION TREATMENTS AND SOURCE OF FUNDS**

Line Items	Units	Unit Cost	# of Units	BAER \$	Other \$	# of units	Fed \$	# of Units	Non Fed \$	Total \$
<b>A. Land Treatments</b>										
				\$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
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Channel Treatments</i>				\$0	\$0		\$0		\$0	\$0
<b>C. Road and Trails</b>										
				\$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 Road and Trails</i>				\$0	\$0		\$0		\$0	\$0
<b>D. Protection/Safety</b>										
S1a. Road Hazrd Signs	each	700	3	\$2,100	\$0		\$0		\$0	\$2,100
S1b. Trail/RevreationHazard	each	400	7	\$2,800	\$0		\$0		\$0	\$2,800
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Protection/Safety</i>				\$4,900	\$0		\$0		\$0	\$4,900
<b>E. BAER Evaluation</b>										
Initial Assessment	Report			---	\$3,000		\$0		\$0	\$3,000
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$0	\$3,000		\$0		\$0	\$3,000
<b>F. Monitoring</b>										
				\$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 Monitoring</i>				\$0	\$0		\$0		\$0	\$0
<b>G. Totals</b>				\$4,900	\$3,000		\$0		\$0	\$7,900
Previously approved										
Total for this request				\$4,900						

**PART VII - APPROVALS**

Forest Supervisor

Date