



**P. Dominant Soils:** Lithic Ustochrepts, Lithic Haploborolls, Fluventic Ustochrepts, Typic Eutroboralfs

**Q. Geologic Types:** Permian sedimentary rocks of the Kaibab Formation, Toroweap Formation, and Coconino Sandstone.

**R. Miles of Stream Channels by Order or Class:** 12.61 miles of Order 1 ephemeral stream channels, and 4.49 miles of Order 2 ephemeral stream channels

**S. Transportation System**

**Trails:** 0 miles

**Roads:** 10.82 miles

**PART III - WATERSHED CONDITION**

**A. Burn Severity (acres):** 1,210 (**low**)      539 (**moderate**)      58 (**high**)

**B. Water-Repellent Soil (acres):** All high burn severity and 25% of moderate burn severity. Estimate 192 acres.

**C. Soil Erosion Hazard Rating (acres):** 2,608 (**low**)   1,608 (**moderate**)      130 (**high**)

**D. Erosion Potential:** 5.09 tons/acre

**E. Sediment Potential:** 1,149 cubic yards / square mile

**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):**                                              N/A

**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 (narrative):**

Threat of small populations of cheatgrass and Russian thistle expanding throughout a large portion of the fire area resulting in a reduction of native speices and a decline in watershed condition.

**B. Emergency Treatment Objectives (narrative):**

Treat small noxious weed areas before they expand within the larger fire area.

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

Land 95%   Channel XXX%   Roads/Trails XXX%   Protection/Safety XXX%

**D. Probability of Treatment Success**

	Years after Treatment		
	1	3	5
Land	75	95	95
Channel	XXX	XXX	XXX
Roads/Trails	XXX	XXX	XXX
Protection/Safety	XXX	XXX	XXX

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

If the small noxious weed populations are not treated, they will likely spread throughout the fire area. Twenty-four acres of weeds could spread to 3,500 acres in the fire area. Treatment costs is \$100/ac.

**F. Cost of Selected Alternative (Including Loss):** Twenty-four acres of herbicide treatment on cheatgrass and Russian thistle is \$2,400.00. This treatment will prevent the spread of the noxious weeds to the surrounding fire area.

**G. Skills Represented on Burned-Area Survey Team:**

☒ Hydrology   ☒ Soils   ☐ Geology   ☒ Range  
☒ Forestry   ☐ Wildlife   ☒ Fire Mgmt.   ☒ Engineering

☐ Contracting ☒ Ecology ☒ Botany ☒ Archaeology  
☐ Fisheries ☐ Research ☐ Landscape Arch ☒ GIS

**Team Leader:** Mike Hannemann/Kit MacDonald/Paul Hancock

**Email:** [mhannemann@fs.fed.us](mailto:mhannemann@fs.fed.us) **Phone:** 928-635-8299 **FAX:** 928-635-8208

**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:** Treat 24 acres of cheatgrass and Russian thistle with herbicide from a UTV with qualified applicators. This treatment will prevent spread of these noxious weeds to a large portion of the fire area. Without this treatment the weeds would reduce native species populations and a lead to a decline in watershed condition.

**Channel Treatments:** None recommended

**Roads and Trail Treatments:** None recommended

**Protection/Safety Treatments:** None recommended

**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.)**

Monitoring for presence of invasive and noxious weeds during fall of 2011 and spring of 2012. Treatment of infestations would occur in fall of 2011 and spring of 2012 to minimize spread within fire affected areas (\$2,000).

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

Part IV - Emergency Stabilization Treatments and Control of Lands											
			NFS Lands				Other Lands			All	
		Unit	# of		Other		# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	BAER \$	\$		units	\$	Units	\$	\$
A. Land Treatments											
		100	24	\$2,400	\$0			\$0		\$0	\$2,400
				\$0	\$0			\$0		\$0	\$0
				\$0	\$0			\$0		\$0	\$0
Insert new items above this line!				\$0	\$0			\$0		\$0	\$0
Subtotal Land Treatments				\$2,400	\$0			\$0		\$0	\$2,400
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. Protection/Safety											
				\$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											
		450	6	---	\$2,700			\$0		\$0	\$2,700
Insert new items above this line!				---	\$0			\$0		\$0	\$0
Subtotal Evaluation				---	\$2,700			\$0		\$0	\$2,700
F. Monitoring											
		500	4	\$2,000	\$0			\$0		\$0	\$2,000
Insert new items above this line!				\$0	\$0			\$0		\$0	\$0
Subtotal Monitoring				\$2,000	\$0			\$0		\$0	\$2,000
G. Totals				\$4,400	\$2,700			\$0		\$0	\$7,100
Previously approved											
Total for this request				\$4,400							

**PART VII - APPROVALS**

- |    |                                                                   |                           |
|----|-------------------------------------------------------------------|---------------------------|
| 1. | <u>/s/ Michael R. Williams</u><br>Forest Supervisor (signature)   | <u>09/12/2011</u><br>Date |
| 2. | <u>/s/ Roberta Buskirk (for)</u><br>Regional Forester (signature) | <u>09/20/2011</u><br>Date |