

**Date of Report:****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: Willow Fire****B. Fire Number: P3P8MS23-0301****C. State: Arizona****D. County: Coconino****E. Region: R3****F. Forest: Apache Sitgreaves****G. District: Black Mesa****H. Fire Incident Job Code: AZASF-170****I. Date Fire Started: 5/21/23****J. Date Fire Contained: 6/7/2023****K. Suppression Cost: \$150,000****L. Fire Suppression Damages Repaired with Suppression Funds (estimates): \$5,000**

1. Fireline repaired (miles):  $\frac{3}{4}$  mile  
2. Other (identify): N/A

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

| HUC #        | Watershed Name     | Total Acres | Acres Burned | % of Watershed Burned |
|--------------|--------------------|-------------|--------------|-----------------------|
| 150200080310 | Lower Willow Creek | 12,377      | 1,355        | 11                    |
|              |                    |             |              |                       |
|              |                    |             |              |                       |

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

| OWNERSHIP | ACRES |
|-----------|-------|
| NFS       | 1179  |

| OWNERSHIP                             | ACRES |
|---------------------------------------|-------|
| OTHER FEDERAL (LIST AGENCY AND ACRES) | 0     |
| STATE                                 | 0     |
| PRIVATE                               | 176   |
| TOTAL                                 | 1355  |

**O. Vegetation Types: Ponderosa Pine Forest with PIPOS/QUGA or PIPOS/JUDE2/QUGA**

**P. Dominant Soils:** there are two map units in the fire perimeter, 179 and 192. MU 179, Udic Haplustalfs, fi, mx, sup, fr. is more extensive and occurs on the lower sloping elevated plain, MU 192, Lithic Haplustalf, cl-sk, mx, sup, fr is on the steeper slopes surrounding the drainages.

**Q. Geologic Types: sandstone and limestone**

**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               |
| INTERMITTENT   | 0.4             |
| EPHEMERAL      | 2.7             |
| OTHER (DEFINE) | n/a             |

**S. Transportation System:**

**Trails:** National Forest (miles): 0      Other (miles): 0  
**Roads:** National Forest (miles): 10.5      Other (miles): 0

### **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           | 420  |                             |       | 85      | 505   | 37                          |
| Low                | 751  |                             |       | 91      | 842   | 62                          |
| Moderate           | 8    |                             |       | 0       | 8     | 1                           |
| High               | 0    |                             |       | 0       | 0     | 0                           |
| Total              | 1179 |                             |       | 176     | 1355  | 100                         |

**B. Water-Repellent Soil (acres): 0 ac, negligible**

**C. Soil Erosion Hazard Rating: 1,123 ac. Slight, 232 ac. Severe**

**D. Erosion Potential: 0.03 t/ac Sediment Potential: 0.706 yd<sup>3</sup>/mi<sup>2</sup>**

**F. Estimated Vegetative Recovery Period (years): 1 year**

**G. Estimated Hydrologic Response (brief description):** Hydrologic response was not modeled, but is estimated to be very minor due to the dominant low to very low soil burn severity condition. No points of concern were identified for estimating risk from post-fire flows.

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

**Introduction/Background**

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**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):**

a. Low

**2. Property (P):**No structures or other property were identified as at risk, hence a rating of very low.**3. Natural Resources (NR):**When evaluating the Soil Productivity, the model does not suggest erosion will exceed tolerable soil loss thresholds for any of the soil types present in the fire perimeter, making the Magnitude of consequence Minor. The Probability of erosion occurring in the first year post fire was modeled at 30% so the Probability of Damage or Loss is Possible. The overall rating for soil productivity is Low**4. Cultural and Heritage Resources:**No resources were identified as at risk, therefor a rating of very low.**B. Emergency Treatment Objectives: No post-fire treatments are recommended.****C. Probability of Completing Treatment Prior to Damaging Storm or Event:**

Land N/A

Channel N/A

Roads/Trails N/A

Protection/Safety N/A

**D. Probability of Treatment Success: N/A**

Table 6: Probability of Treatment Success

|                   | 1 year after treatment | 3 years after treatment | 5 years after treatment |
|-------------------|------------------------|-------------------------|-------------------------|
| Land              |                        |                         |                         |
| Channel           |                        |                         |                         |
| Roads/Trails      |                        |                         |                         |
| Protection/Safety |                        |                         |                         |

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

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

**Team Leader:** John Rihs**Email:**john.rihs@usda.gov**Phone(s):**928-333-6304**Forest BAER Coordinator:** John Rihs**Email:**john.rihs@usda.gov**Phone(s):**928-333-6304**Team Members:**Table 7: BAER Team Members by Skill

| Skill        | Team Member Name |
|--------------|------------------|
| Team Lead(s) | John Rihs        |

| <b>Skill</b>       | <b>Team Member Name</b>         |
|--------------------|---------------------------------|
| <i>Soils</i>       | Kristi Meier                    |
| <i>Hydrology</i>   | Edwin Bone                      |
| <i>Engineering</i> | Simon Cox                       |
| <i>GIS</i>         | N/A                             |
| <i>Archaeology</i> | Heather Maurer                  |
| <i>Weeds</i>       | N/A                             |
| <i>Recreation</i>  | Deborah Roznvak                 |
| <i>Other</i>       | Amanda Scott, Stephanie Coleman |

**H. Treatment Narrative:Land Treatments: N/A**

**Channel Treatments: N/A**Roads and Trail Treatments: N/AProtection/Safety Treatments: N/AI.

**Monitoring Narrative:**

N/A

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

| 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       |
| <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>              |        |           |            |         |       |             |        |            |            |           |
|  |        |           |            | \$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 Protection/Safety</i>        |        |           |            | \$0     | \$0   |             | \$0    |            | \$0        | \$0       |
| <b>E. BAER Evaluation</b>                |        |           |            |         |       |             |        |            |            |           |
| Initial Assessment                       | Report |           |            | ---     | \$0   |             | \$0    |            | \$0        | \$0       |
|  | 1      | \$1,550   | 1          | \$1,550 | \$0   |             | \$0    |            | \$0        | \$0       |
| <i>Insert new items above this line!</i> |        |           |            | ---     | \$0   |             | \$0    |            | \$0        | \$0       |
| <i>Subtotal Evaluation</i>               |        |           |            | \$1,550 | \$0   |             | \$0    |            | \$0        | \$0       |
| <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>                         |        |           |            | \$1,550 | \$0   |             | \$0    |            | \$0        | \$0       |
| Previously approved                      |        |           |            |         |       |             |        |            |            |           |
| Total for this request                   |        |           |            | \$1,550 |       |             |        |            |            |           |

**PART VII - APPROVALS**

1. \_\_\_\_\_  
 Forest Supervisor Date \_\_\_\_\_