

Q. Geologic Types: alluvium, rhyolite conglomerate, limestone

R. Miles of Stream Channels by Order or Class: 5.79 miles first order; 0.72 miles second order

S. Transportation System

Trails: 2.11 miles      Roads: 5.76 miles

**PART III - WATERSHED CONDITION**

A. Burn Severity (acres): 1621 (low) 125 (moderate) 28 (high)

B. Water-Repellent Soil (acres): 28

C. Soil Erosion Hazard Rating (acres):  
1050 (low) 571 (moderate) 153 (high)

D. Erosion Potential: 9.7 tons/acre

E. Sediment Potential: 4159 cubic yards / square mile

**PART IV - HYDROLOGIC DESIGN FACTORS**

A. Estimated Vegetative Recovery Period, (years): 3 to 5

B. Design Chance of Success, (percent): 80

C. Equivalent Design Recurrence Interval, (years): 25

D. Design Storm Duration, (hours): 1

E. Design Storm Magnitude, (inches): 2.5

F. Design Flow, (cubic feet / second/ square mile): 783

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

H. Adjusted Design Flow, (cfs per square mile): 1259

**PART V - SUMMARY OF ANALYSIS**

A. Describe Critical Values/Resources and Threats:

Transportation: Forest Road 61 is an important route for people in the San Rafael Valley and provides the quickest access to basic services and health care in Sierra Vista. The road also provides access to a portion of the Coronado National Forest and is the only access to Coronado National Memorial. In addition, the road is a critical tool for the Border Patrol in its national security tasks connected with patrol of the Mexico border. A 1999 fire (Lone Fire) of similar size and severity in this same area washed out FR 61 and caused over \$300,000 worth of road damage. Based on that experience, the ditches and culverts draining Road 61 are not expected to be able to handle increased flow laden with eroded material, putting about 2 miles of the road at risk.

Recreation: This area is popular with the public for hiking and general sightseeing. Venturing off the main road may be dangerous following this fire.

B. Emergency Treatment Objectives:

Reduce the risk to downstream roads.

Reduce the risk to life and property.

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

Land n/a % Channel n/a % Roads/Trails 80 % Protection/Safety 80 %

D. Probability of Treatment Success

|                   | Years after Treatment |    |    |
|-------------------|-----------------------|----|----|
|                   | 1                     | 3  | 5  |
| Land              | N/a                   |    |    |
|                   |                       |    |    |
| Channel           | N/a                   |    |    |
|                   |                       |    |    |
| Roads/Trails      | 90                    | 90 | 80 |
|                   |                       |    |    |
| Protection/Safety |                       |    |    |
|                   |                       |    |    |

E. Cost of No-Action (Including Loss):\_ **\$1,300,000**

F. Cost of Selected Alternative (Including Loss):\_ **\$145,000**

G. Skills Represented on Burned-Area Survey Team:

|   |  |   |   |                          |
|---|--|---|---|--------------------------|
| <input checked="" type="checkbox"/> Hydrology | <input checked="" type="checkbox"/> Soils    | <input checked="" type="checkbox"/> Geology | <input checked="" type="checkbox"/> Range       | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Forestry  | <input checked="" type="checkbox"/> Wildlife | <input 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 checked="" type="checkbox"/> Archaeology | <input type="checkbox"/> |
| <input type="checkbox"/> Fisheries            | <input type="checkbox"/> Research            | <input type="checkbox"/> Landscape Arch     | <input type="checkbox"/> GIS                    |                          |

Team Leader: Robert E Lefevre

Email: rlfevre@fsd.fed.us

Phone: 520-388-8373\_

FAX: 520-388-8305

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:

None planned

Channel Treatments:

None planned

Roads and Trail Treatments:

- A total of 7-10 undersized culverts need to be replaced with 24-inch CMPs.
- The entire 1.5 miles of ditch needs to be graded.
- A total of 15 culverts require inlet basin cleaning.
- One culvert requires construction of a concrete headwall to prevent clogging.
- One culvert requires a reflecting sign.
- The remainder of the crossings and culverts would not be treated, however a storm survey and clearing patrol will be required this storm season (20 days) in lieu of implementing additional treatments.

Protection/Safety Treatments:

Fifty warning signs (25 in English, 25 in Spanish) will be purchased and placed as needed at entry points near the fire. It is anticipated that many undocumented trails and entry points will need signing.

**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.)

**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          |
| <b>Subtotal Land Treatments</b>          |       |           |            | \$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          |
| <b>Subtotal Channel Treat.</b>           |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <b>C. Road and Trails</b>                |       |           |            |                 |          |             |        |                       |              |
| Culvert work                             | each  | 1600      | 25         | \$40,000        | \$0      |             | \$0    | \$0                   | \$40,000     |
| Storm Patrol                             | days  | 400       | 20         | \$8,000         | \$0      |             | \$0    | \$0                   | \$8,000      |
|  |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <i>Insert new items above this line!</i> |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <b>Subtotal Road &amp; Trails</b>        |       |           |            | \$48,000        | \$0      |             | \$0    | \$0                   | \$48,000     |
| <b>D. Protection/Safety</b>              |       |           |            |                 |          |             |        |                       |              |
| warning signs                            | each  | 100       | 50         | \$5,000         | \$0      |             | \$0    | \$0                   | \$5,000      |
|  |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
|  |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <i>Insert new items above this line!</i> |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <b>Subtotal Structures</b>               |       |           |            | \$5,000         | \$0      |             | \$0    | \$0                   | \$5,000      |
| <b>E. BAER Evaluation</b>                |       |           |            |                 |          |             |        |                       |              |
| <b>BAER Team</b>                         | days  | 1800      | 5          | ---             | \$9,000  |             | \$0    | \$0                   | \$9,000      |
| <i>Insert new items above this line!</i> |       |           |            | ---             | \$0      |             | \$0    | \$0                   | \$0          |
| <b>Subtotal Evaluation</b>               |       |           |            | ---             | \$9,000  |             | \$0    | \$0                   | \$9,000      |
| <b>F. Monitoring</b>                     |       |           |            |                 |          |             |        |                       |              |
|  |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <i>Insert new items above this line!</i> |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <b>Subtotal Monitoring</b>               |       |           |            | \$0             | \$0      |             | \$0    | \$0                   | \$0          |
| <b>G. Totals</b>                         |       |           |            | \$53,000        | \$9,000  |             | \$0    | \$0                   | \$62,000     |
| Previously approved                      |       |           |            |                 |          |             |        |                       |              |
| <b>Total for this request</b>            |       |           |            | <b>\$53,000</b> |          |             |        |                       |              |

**PART VII - APPROVALS**

1. /s/ Jeanine A. Derby June 5, 2006  
 Forest Supervisor (signature) Date

2. /s/ Abel M. Camarena June 7, 2006  
 (for) Regional Forester (signature) Date