Hennessey – Glass Fires Watershed Emergency Response Teams (WERT)

Fire Summary

Hennessey Fire

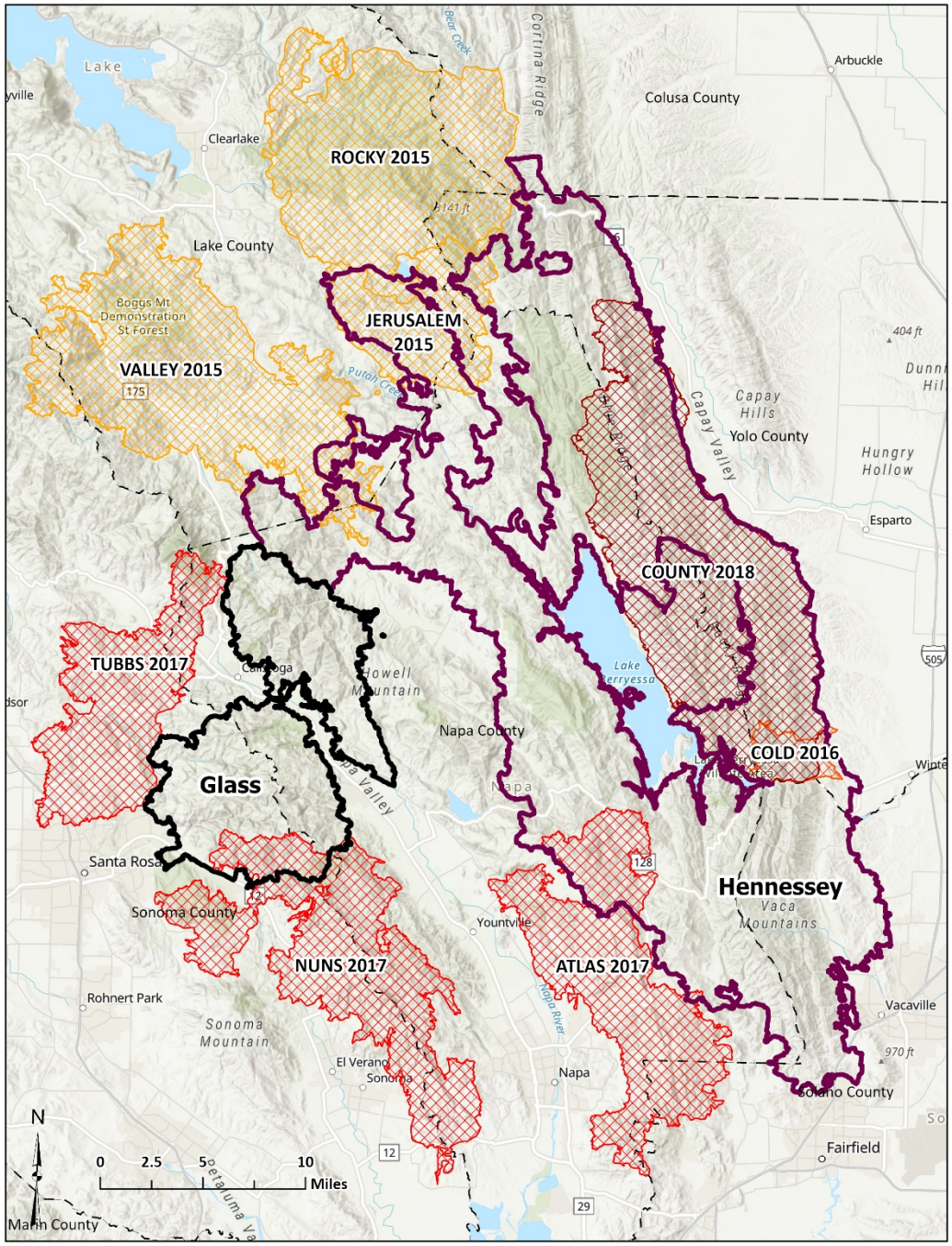
Started August 17, 2020
305,920 acres
Five Counties – Colusa, Lake, Napa, Solano and Yolo
6 Fatalities
Structures Destroyed – 1193
Structures Damaged - 207

Glass Fire

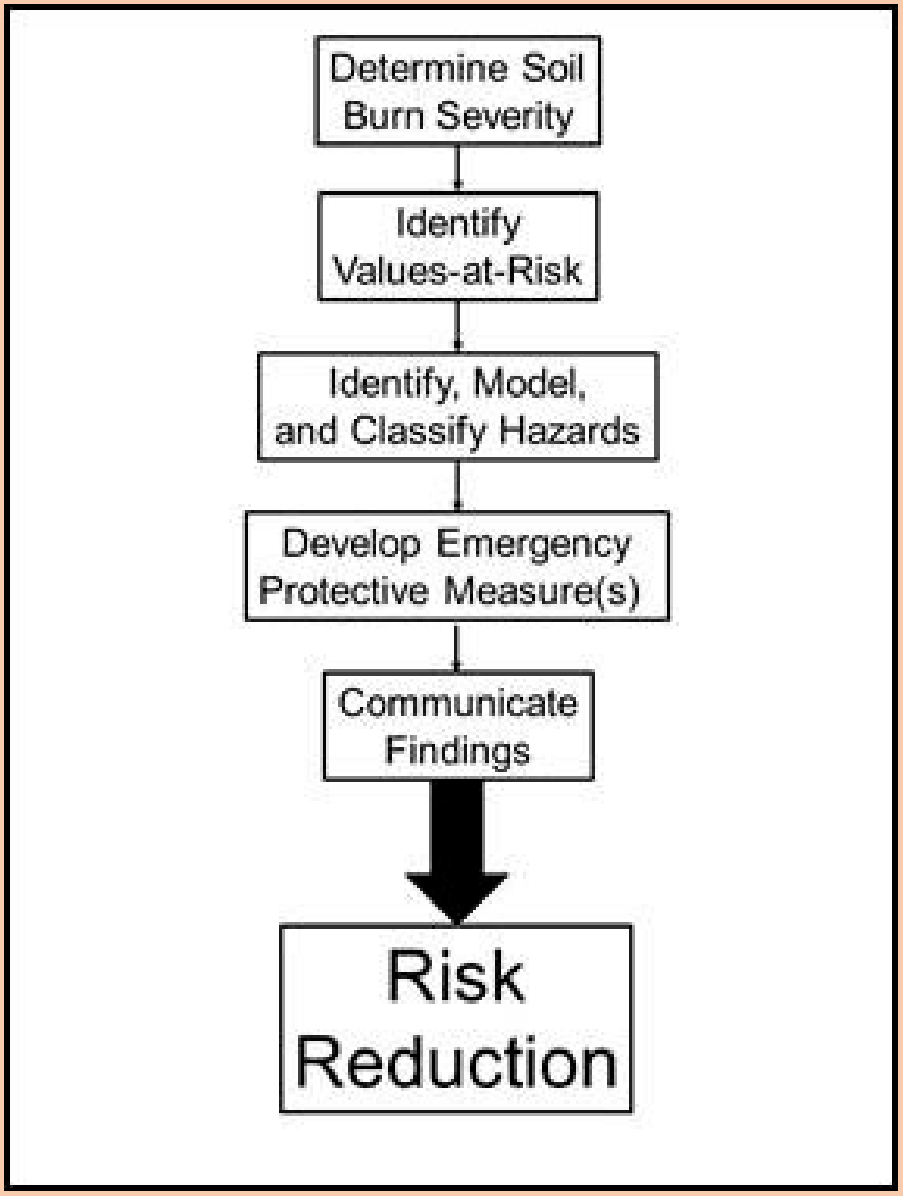
Started September 27, 2020
67,484 acres
Two Counties – Sonoma and Napa
Structures Destroyed – 1555
Structures Damaged - 282

Task

Watershed Emergency Response Teams (WERTs) are assembled and deployed to better coordinate local assistance to ensure a rapid response in identification of significant life-safety and property hazards resulting from wildfires (i.e., collectively known as “Values-at-Risk” or VARs) for State responsibility/private lands affected by the 2020 Hennessey and Glass Fires.



Fire Activity Near, Within or Adjacent to the Glass and Hennessey Fires Since 2015



WERT Process:

Work Products – WERT Report

- Hazardous Minerals
- Soil Burn Severity
- Debris Flow Model Results and Map
  - Potential for drainages to produce debris flows as a result of the fire
  - Watch Streams
- Flood Flow Model Results
  - Potential for increase in floods as a result of the fire
- Post Fire Erosion
- Hazardous Minerals
- Observations – Values at Risk
- General Recommendations
- Key Infrastructure

Soil Burn Severity

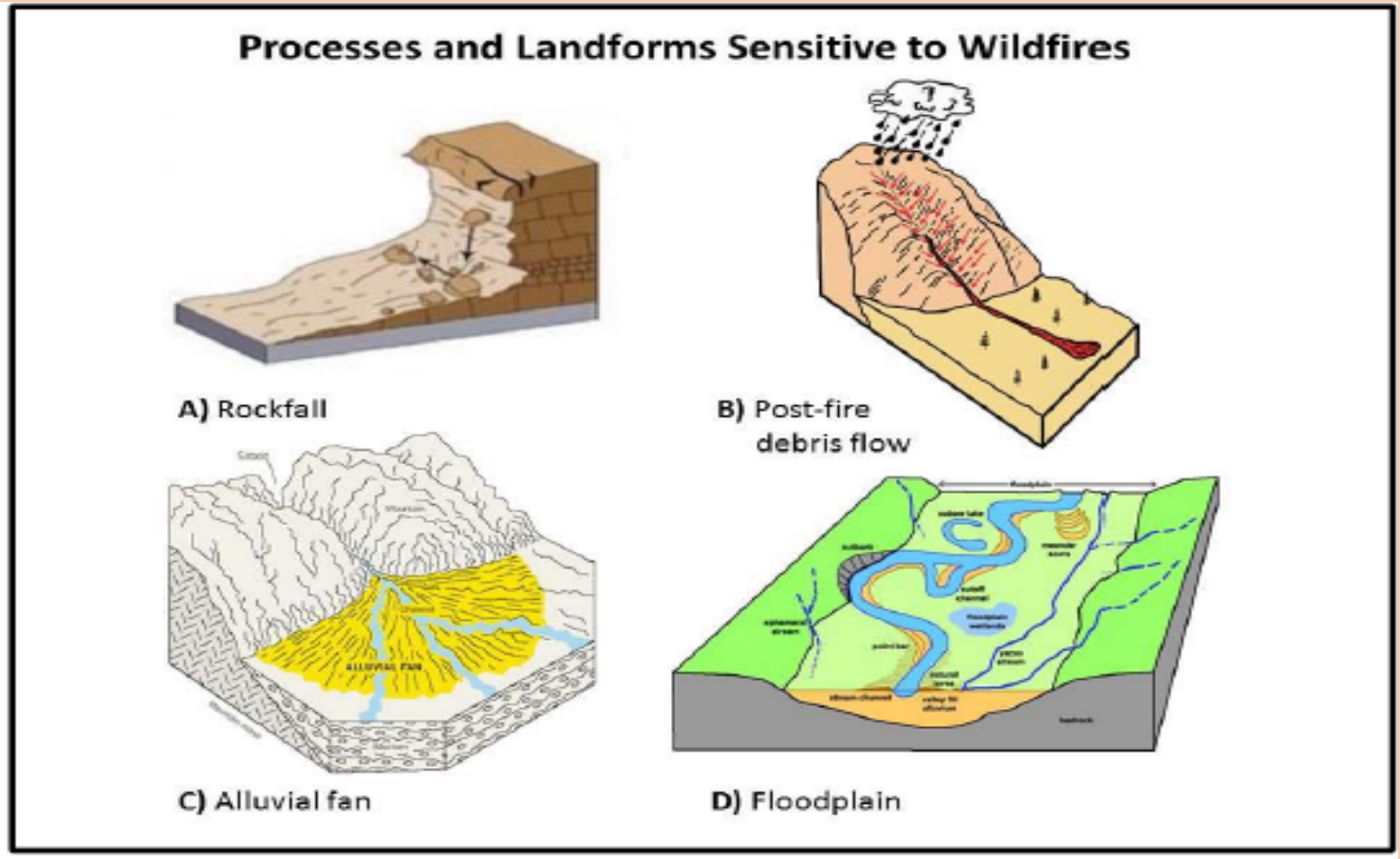
Hennessey

35% Very Low/Unburned
43% Low
21% Moderate
<1 % High

Glass

16% Very Low/Unburned
54% Low
18% Moderate
2% High

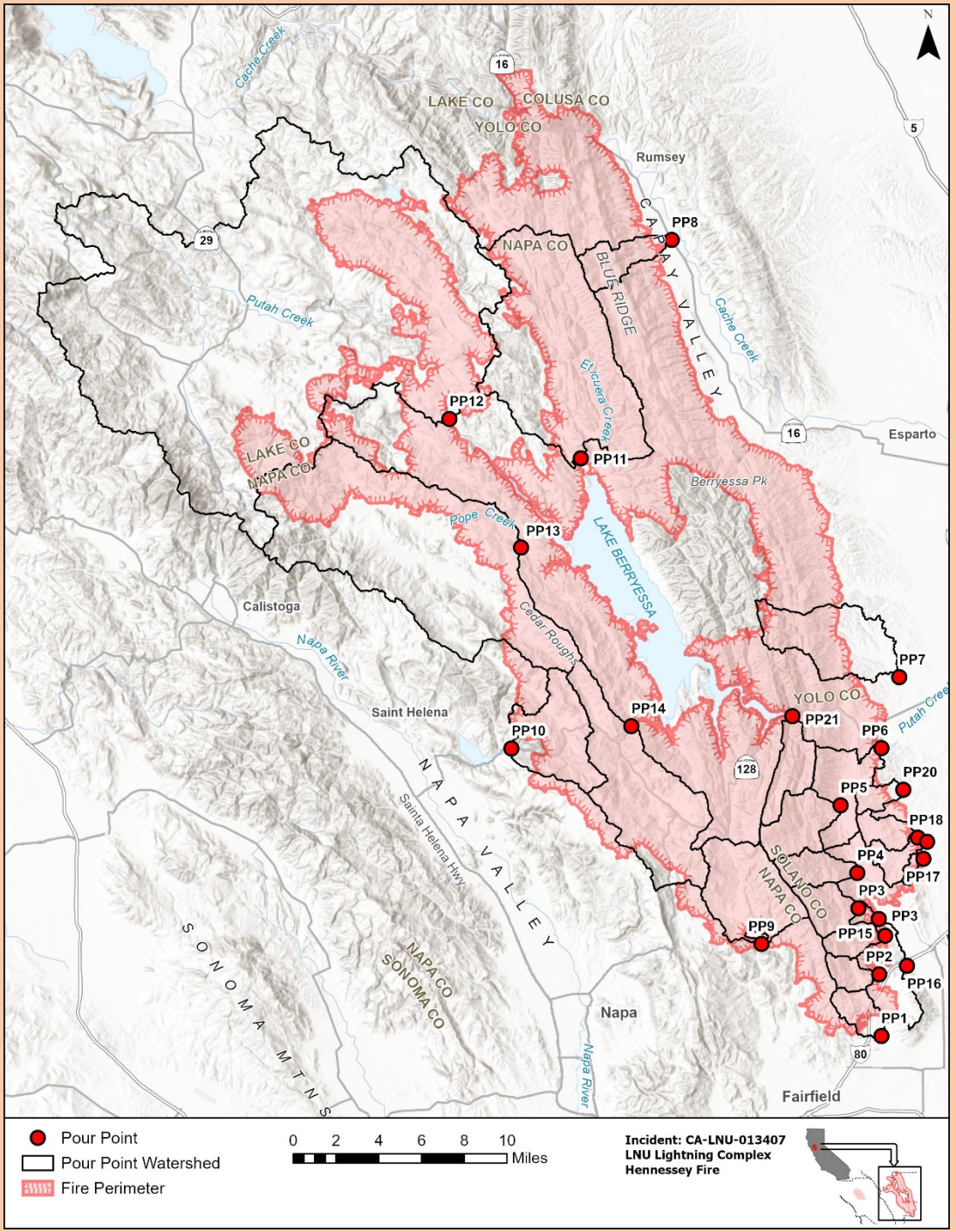
Post-Fire Watershed Response



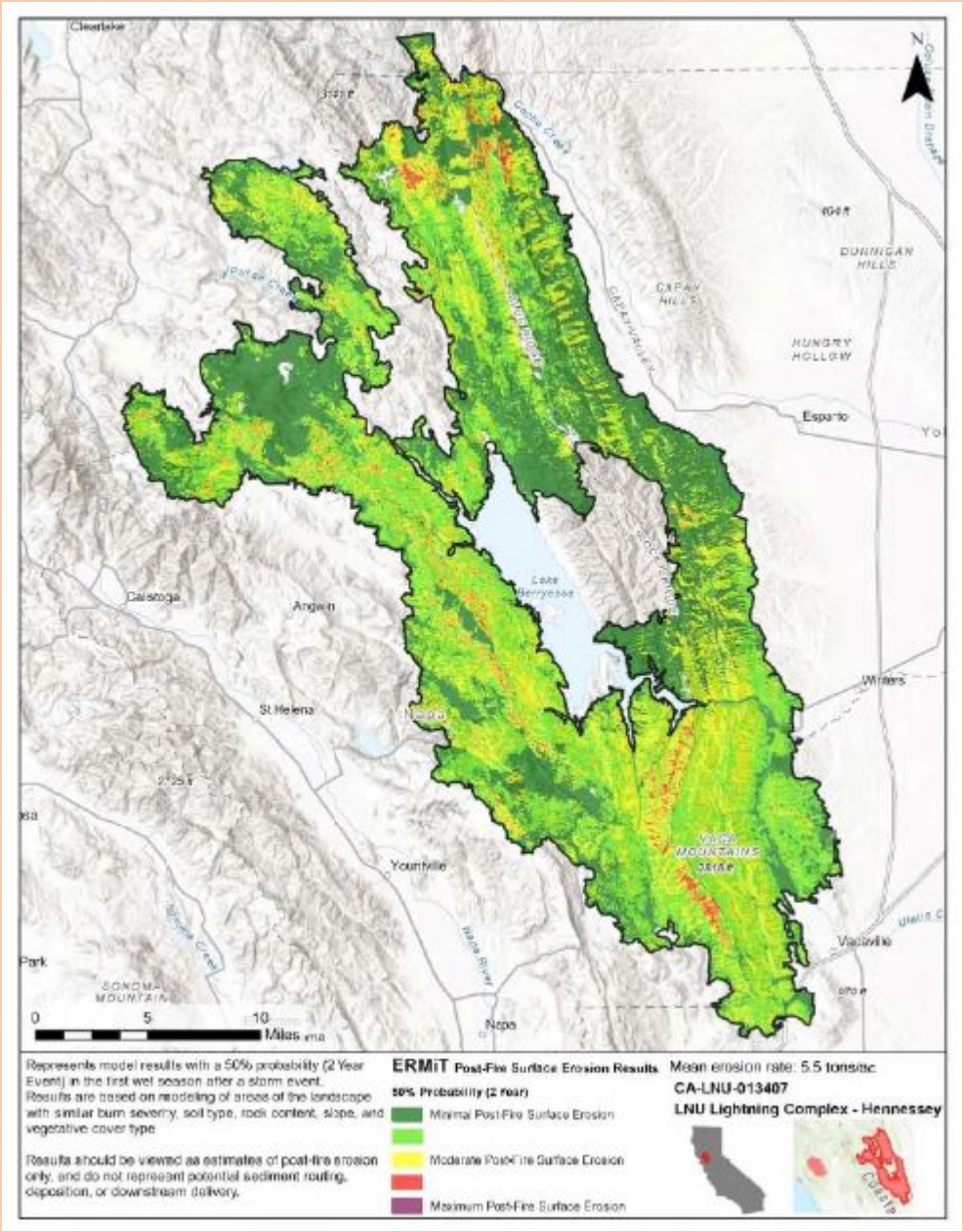
Hennessey Fire Pour Point Locations and Predicted Post-Fire Response*

Pour Point No.	Pour Point Watershed Name	Low, Very Low/Unburned SBS (%)	Moderate SBS (%)	High SBS (%)	Post-Fire Bulked Multiplier
1	Soda Springs Creek	61.7	3.8	0.0	1.2
2	Laguna Creek	81.3	8.6	0.0	1.3
3	Alamo Creek	25.3	56.4	9.6	2.3
4	Ulatis Creek	17.8	69.4	11.6	2.6
5	Miller Canyon Creek	27.8	58.7	12.6	2.5
6	Pleasants Creek	37.0	47.4	5.9	2.1
7	Dry Creek	27.4	0.0	0.0	1.1
8	Hamilton Creek	41.0	19.9	0.2	1.4
9	Lake Curry	57.8	30.8	1.1	1.7
10	Lake Hennessey	36.4	28.4	0.0	1.6
11	Eticuera Creek	36.9	14.1	0.0	1.3
12	Putah Creek	9.5	1.0	0.0	1.0
13	Pope Creek	23.5	9.1	0.0	1.2
14	Capell Creek	38.1	19.9	0.1	1.4
15	Encinosa Creek	50.1	38.8	0.2	1.8
16	Alamo Creek	38.2	25.6	2.9	1.6
17	Gibson Canyon Creek	60.1	0.0	0.0	1.1
18	Sweany Creek	72.4	7.4	0.0	1.3
19	English Creek	68.4	4.3	0.0	1.2
20	Pleasnt Creek	54.3	27.5	0.0	1.6
21	Cold Canyon	15.1	82.6	1.8	2.7

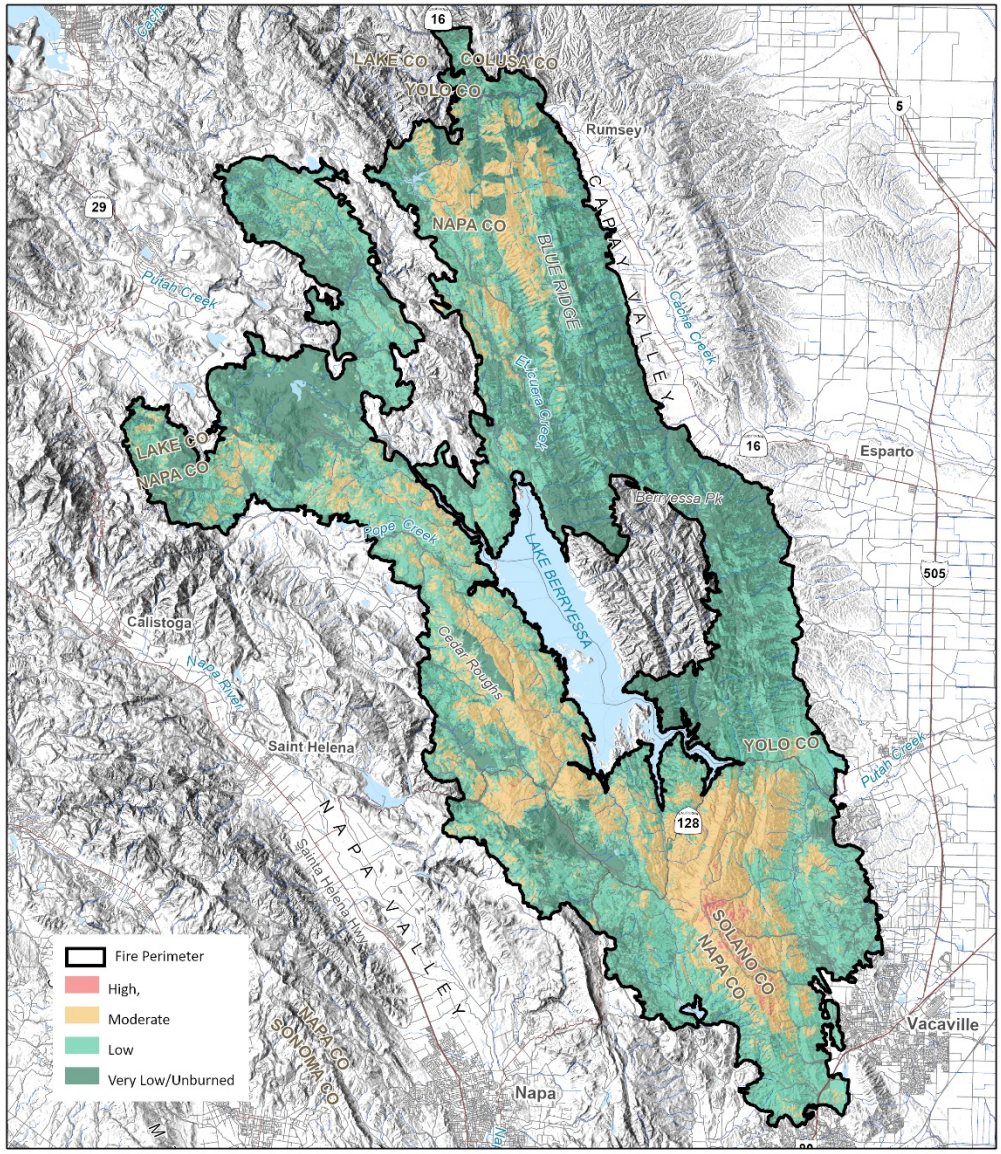
* Glass Fire in Progress



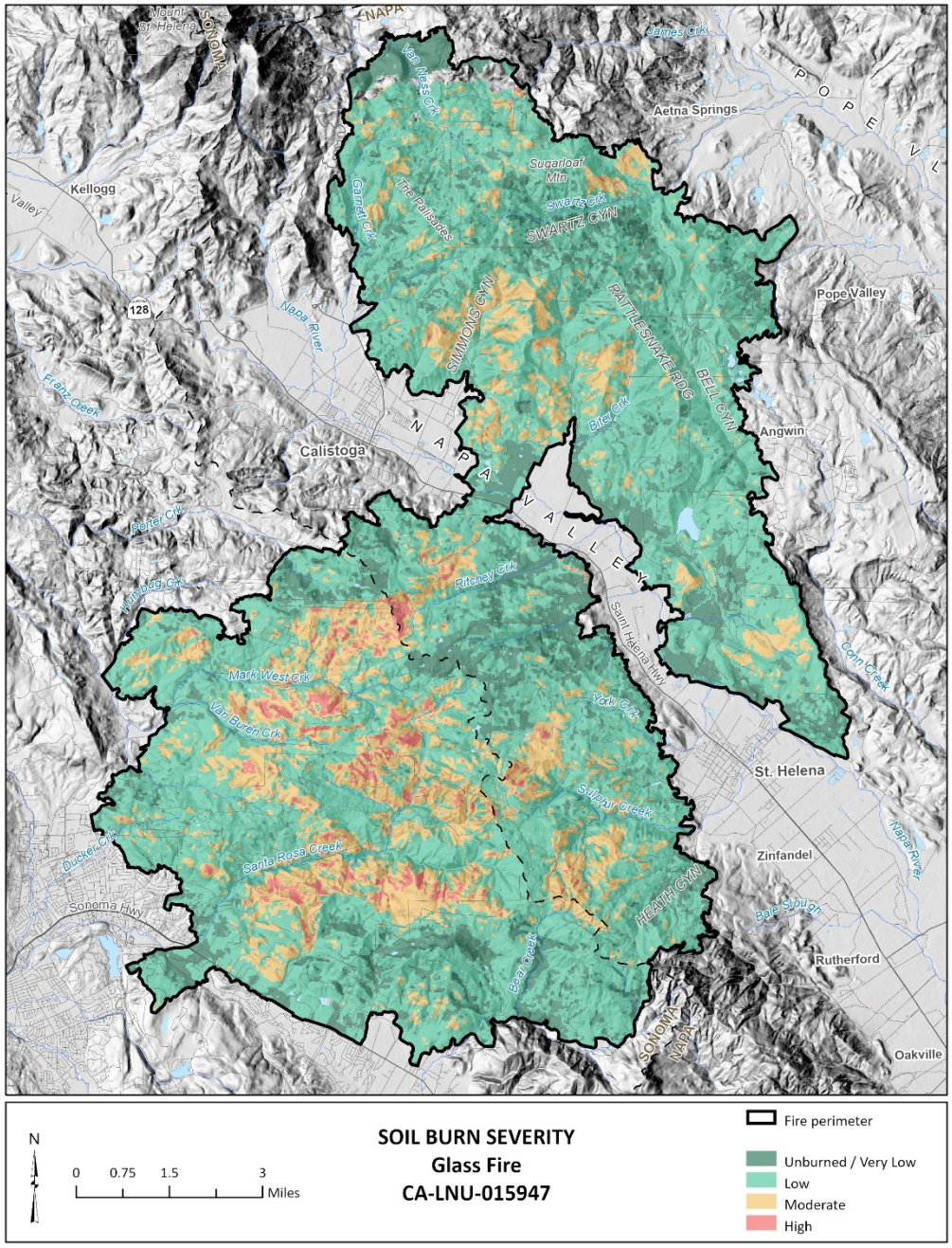
ERMiT Post-Fire Surface Erosion



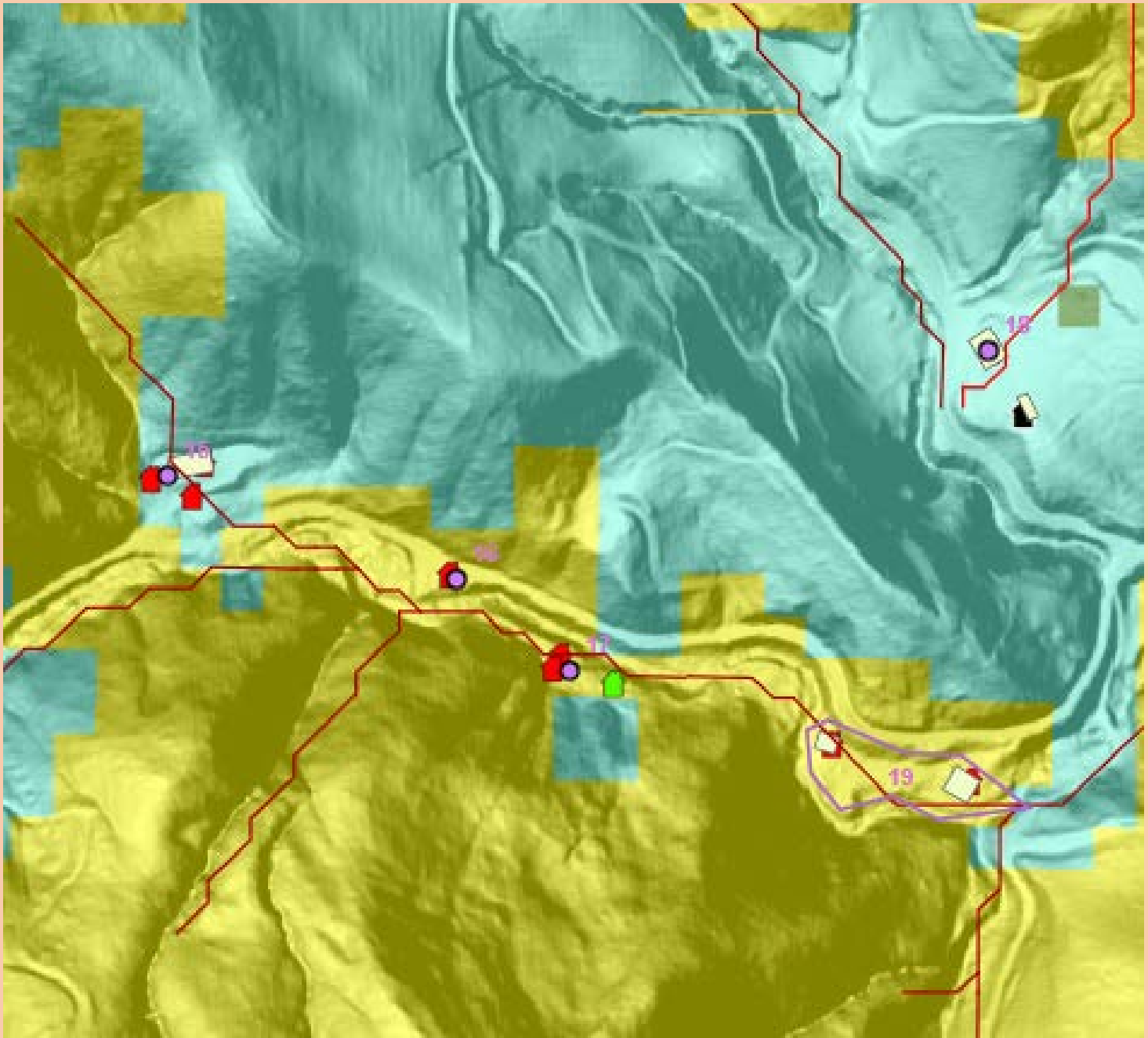
Soil Burn Severity - Hennessey



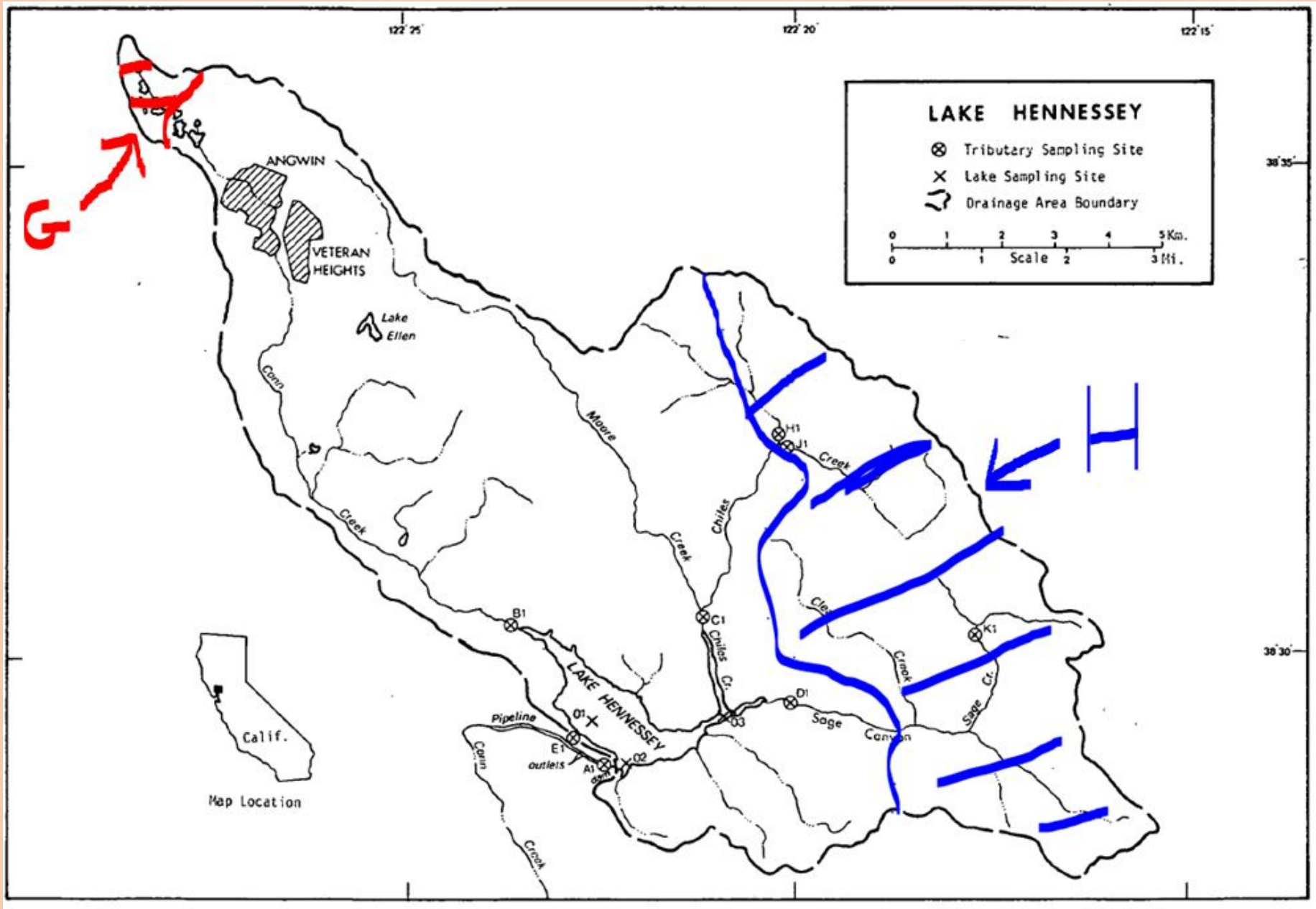
Soil Burn Severity – Glass Fire



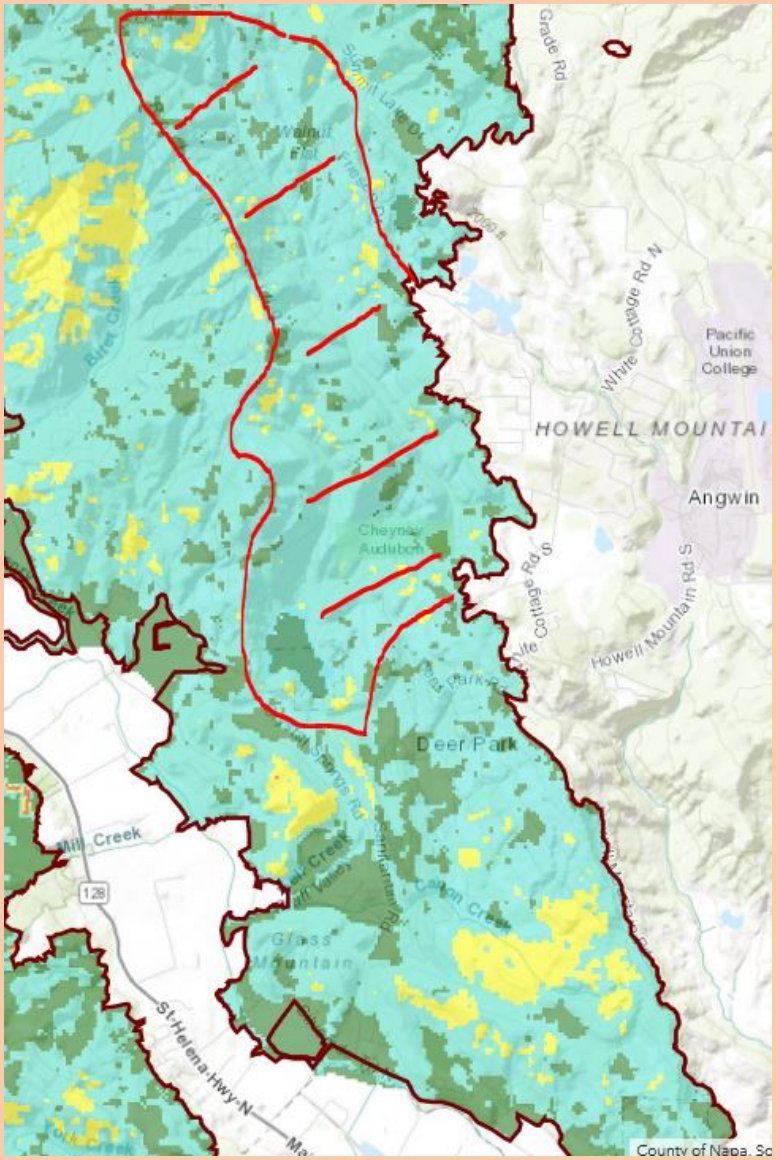
Example of VAR location, soil burn severity and predicted flood / debris flow segment



Lake Hennessey Impacts. G = Glass Fire, H = Hennessey Fire



Bell Canyon Reservoir Impacts. Red Hatch = Bell Watershed



Preliminary General Recommendations

- employ Early Warning System
- Consider specific recommendation for VARs and Communicate findings
- Review of temporary house – trailer locations by Licensed Professionals
- Increase maintenance of public road systems

Hennessey Fire

- WERT Complete
- Report available

Glass Fire

- WERT is in Progress
- Expected Date of Close Out?