

**Note to Reader:** This is a preliminary list of potential restoration actions needed within the Caldor Fire footprint, it was developed in November 2021 by the Forest Service IDT. Lined out items have been addressed in the Caldor Hazard Tree and Fuels Reduction Decision Memo or are being addressed thru other authorities and/or projects and will not be considered in the Caldor Restoration EA. This is not a list of proposed actions for the Caldor Restoration, rather it is a starting point for a conversation to determine what actions are included in the proposed action.

## List of Caldor-related Work - DRAFT

Note: the Nov. 5, 2021 field visit stopped at Saxon Creek Bridge on Fountain Place Road, the lower (northern) edge of the burn perimeter on Fountain Place Road, the Trout Creek crossing on Fountain Place Road in high burn severity, the Echo Chalet parking lot at Lower Echo Lake, a recreation residence cabin site (rock walls on boulders) near the crest of the 1104 road, a cliff-side cabin site overlooking Highway 50 and the ridge across Highway 89, and then Angora Meadow.

**Alpine pincushion habitat restoration:** near little Round Top (elsewhere?)

**Aspen restoration:** need to look at GIS layer and field recon priority stands (get photos); there may be some conifer thinning/fuel reduction to do in damaged stands (e.g., near lower end of Ottawa and Apache or near Hawksworth Pack Station)

**Black-backed woodpecker habitat retention:** need to retain some habitat; likely to retain habitat in steep or remote (from WUI) areas

**Creek restoration** (within or downstream of the Caldor): concern for sedimentation or sediment transport in creeks such as Saxon and Trout: however, some of the same creeks may be sediment starved so some accretion may be beneficial; interest in placing woody debris or structures (e.g., beaver-analogues) to improve stream condition (identify specific locations, linear footage); not anticipating channel reconstruction; dozer crossings were well-repaired; need to thin overstory canopy in downstream riparian corridors such as Trout Creek to reduce fuels (identify locations and linear footage); need to ensure contracts and sale administration address trees within 25' and 5' feet of stream channel (been an issue in the past); riparian vegetation expected to recover well; identify any specific locations riparian veg restoration (e.g., willow staking) needed and get linear footage; get pre- and post-fire photos or at least pre-restoration photos of areas where channel and riparian plant conditions are a focus; watch for new springs; why does Fountain Place have its name?

- **Pearl shell mussel habitat restoration:** population(s) at Trout Creek bridge on Powerline Road; need to identify other locations, if any; concern that sediment accretion may reduce habitat suitability or amount of suitable habitat; sediment transport and accretion in Saxon Creek at Fountain Place Road did not appear to be an issue in early November but winter just starting; need to field check known populations and recommend if and what actions needed

## Hazard tree removal

- Adjacent to private property: need to mitigate future risk of snags near private property; need to field recon conditions (hand or mech areas, how to access)
- Developed site (Berkeley Camp): PG&E needs to remove felled trees; hazard tree(s) at climbing site reported to be mitigated; may need to mitigate future risk of snags within and adjacent to site
- Administrative site (Hawksworth Pack Station): mitigate snags; thin for aspen restoration?
- Recreation residence cabins (Lower Echo Lake, Echo Summit, Upper Truckee, Hawley Grade, and Bridge tracts): mitigate snags; responsibility within special use permit areas needs to be resolved
- Roads and trails: focus hazard tree mitigation in areas with high exposure (e.g., high traffic, parking, pull-outs, slow passage, trailheads, etc.); need to identify all system and non-system roads and trails to be addressed in planning effort; consider non-system trails in areas with high exposure such as the bouldering areas off South Upper Truckee

**Invasive species management** (work not addressed by BAER): noxious weeds, particularly in bare soil and meadow dozer lines, may be needed; information anticipated from BAER early detection and rapid response effort; address known and new sites

**Meadow restoration** (within or downstream of Caldor): need to identify and estimate acres of meadows to be addressed; Angora Meadow is a wet meadow that had a dozer line put through it and will **need prompt measures to prevent vehicle incursion such as boulder-emplacment** and longer-term monitoring for noxious weeds and meadow vegetation recovery; Fred's Meadow is a dry meadow that had a dozer line across it and **should be reviewed for potential incursion issues**, will need noxious weed monitoring, and for us to consider an appropriate approach to the grazing special-use permit (get correct name) for horses;

**Public water systems:** ~~pressurized water systems were observed on Echo Summit with infrastructure at or on the surface with high potential for further damage by equipment, especially mechanical equipment along road edges or off-road (e.g., thinning or salvage); gravity fed systems are known to supply recreation residences along South Upper Truckee;~~ **need to identify and map these systems to help avoid or minimize potential damage**

#### Recreation Residence Tracts:

- Echo Summit tract: **need to determine how fire-affected sites will be cleaned up** (e.g., hazard trees, hazmat, and removal of other debris) and **what these sites will be managed for in the future** (to inform this planning effort of appropriate actions) in coordination with special-use permit administration, partner agencies, and permit holders; this tract was eligible (as a tract but not individual cabins) for Historic Register status prior to the fire and that **status needs to be revisited**; consider hazard tree mitigation, salvage in high severity, reforestation, protection and/or repair of water systems, address/avoid/protect leach fields, repair roads and trails (including Pacific Crest Trail which will likely need to be rerouted until some snag mitigation and restoration is completed); are there other issues to address such as telephone lines/poles?
- Other tracts: consider same actions as Echo Tract (aside from issues related to structure loss); Lower Echo Lake may need individual snag mitigation (hand fell and leave); **does tract on 1103 road need anything like road repair or other actions? Do Bridge and Hawley Grade tracts need anything such as Caldor related thinning? Upper Truckee tract needs snag mitigation and possibly soil stabilization**

**Reforestation:** consider reforesting salvaged areas and spot locations such as on Echo Summit; **need to identify areas to be reforested (after salvage areas identified) and estimate acreage**

#### Road restoration:

- Repair road surfaces; address off-route use (e.g., place barriers near open areas such as meadows); consider closures (if any, such as closure to vehicles on Fountain Place Road); **need to identify roads with actions required and estimate mileage**; mitigate future hazardous from snags
- Repave Fountain Place Road after hazard tree mitigation project implementation
- ~~focus hazard tree mitigation in areas with high exposure (e.g., high traffic, parking, pull outs, slow passage, trailheads, etc.)~~

**Salvage logging:** consider how snags will contribute to future surface fuel loading and fire danger, particularly in the WUI defense zone or similar area; **conduct fire modeling to identify appropriate areas to salvage log** and for safety of life and property; need to **identify acreage** to determine category of planning effort; salvage log reforestation sites for safety during planting and future tree-release (brushing) work; retain black-backed woodpecker habitat

**Spotted owl/goshawk habitat and PACs/HRCAs:** need to **identify specific Caldor-affected areas** (e.g., PACs) and remapping requirements; are we proposing on the ground actions such as road or trail work, thinning, or reforestation (identify what, where, and how many miles or acres)?

**Thinning and WUI fuels reduction:** anticipated to be limited in extent where excessive fuels in the WUI defense zone exist and where other Caldor-related work such as snag mitigation or salvage work may occur; need **areas and estimate of acreage** to determine category of planning effort

**Trail restoration:** trails expected to stay in current alignments for the next few years as they are more stable than adjacent fire-affected soils; focus hazard tree mitigation on system and non-system routes in areas with high exposure (e.g., high traffic, parking, pull-outs, slow passage, trailheads, the bouldering areas off South Upper Truckee Road, etc.); need to **identify trails** to be addressed; address potential off route use

**White-bark pine habitat restoration:** anticipated only near Little Round Top dozer lines; need acreage estimate