



# **Lassen County Fire Debris Removal**

## **ALTERNATIVE (PRIVATE) DEBRIS REMOVAL PROGRAM BECKWOURTH COMPLEX AND DIXIE FIRES**

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# **ALTERNATIVE (PRIVATE) DEBRIS REMOVAL PROGRAM BECKWOURTH COMPLEX AND DIXIE FIRES**

## **Introduction**

On September 28, 2021, the Lassen County Board of Supervisors adopted Ordinance 2021-002 (An Urgency Ordinance of the County of Lassen, Concerning Debris Removal from the Dixie Fire and Beckwourth Complex Fire). Said ordinance authorized a “Government Program” which established a debris clean-up protocol at no out-of-pocket cost to landowners. The Government Program is the preferred and most effective method for debris removal. Information regarding the Government Program is available upon request at the Lassen County Planning and Building Services Department’s public assistance counter (707 Nevada Street Suite 5, Susanville, CA 96130).

Through the above ordinance, the Board of Supervisors also directed the Director of the Lassen County Environmental Health Department to develop an “Alternative Program,” allowing landowners to hire appropriate professionals to complete the debris removal. This document is intended to satisfy the Board’s directive in the above ordinance. It is important to note that the urgency ordinance requires that the Alternative Program “...meets or exceeds the standards set by the State of California for debris removal” (Section 8 number (4)). However, the Alternative Program transfers responsibility (and all financial obligations) to the landowner. As a result, the Government Program is the preferred method for debris removal.

Fire debris cleanup is a complicated process involving several steps. Whether you are using the Right of Entry (government) program or the Alternative Program, or Alt Program, the cleanup steps are the same. The primary differences are how the programs are funded, and those using the Alt Program will be responsible to manage their own cleanup. This added responsibility is not right for everyone. Be certain that you want to use the Alternative Program because once you begin an Alt Program cleanup, you will be ineligible for the Right of Entry (government) program.

This guide is meant to help homeowners, contractors, environmental consultants and others understand the Alt Program steps and requirements. If you have any questions, please contact the Lassen County Environmental Health at 530-251-8269, or email us at [EHE@co.lassen.ca.us](mailto:EHE@co.lassen.ca.us)

## **Health and Safety Considerations**

To ensure safety of workers, the public and the environment, property owners must follow certain protocols after a wildfire disaster when removing structural ash and debris. The Lassen County Health Officer has declared a Local Health Emergency (Resolution 2021-02) and issued a Hazard Advisory Warning that describes the public health and environmental dangers associated with the ash and debris from the Beckwourth Complex and Dixie Fires. As a result, the cleanup work must be done safely and in a way that protects the public health and environment. Environmental Health has been charged with ensuring all cleanups meet

established standards, are done safely, and adhere to certain worker and community safety protocols.

### **Financial Considerations**

Alt Program participants are required to remediate their property and remove burn debris **at their own expense**, comply with all applicable requirements, and do so in a timely manner. These property owners will not be reimbursed with public funds for any portion of the cleanup or remediation process including ash or debris removal, debris disposal, soil testing, erosion control or tree removal. The property owners must complete the cleanup using a licensed contractor with proper certifications according to the requirements of the California Contractors State License Board.

Incomplete or inadequate work performed by contractors or consultants will not be acceptable. Property owners will not be given a Cleanup Completion Certification until all work is completed to the state standard. Without a Cleanup Completion Certification, property owners will not be able to obtain permits to rebuild.

### **Hazard Tree Removal**

Hazard trees are defined as any tree that has been so severely damaged by the Dixie or Beckwourth fires that it poses a risk of falling onto an improved public property, or public road or right-of-way within 5 years of the fire. Property owners using the Alternative Program for structural debris removal will be required to hire a licensed arborist or registered forester to assess for hazard trees and submit the licensed arborist's or registered forester's signed report to the Lassen County Planning and Building Services Department. Any tree classified as a hazard tree must then be removed **at the owner's expense**.

### **Owners Who Fail to Adequately Remove Debris from Their Property**

Due to the dangers to the public health, welfare and environment, if property owners choose not to participate in the Right of Entry (government) Program and/or do not complete an adequate or timely cleanup through the Alternative Program, they may be subject to enforcement actions. Such actions may include, but not be limited to, hazard removal and/or relocation, cleanup, site evaluation, soil testing, and/or chemical analysis. **All expenses incurred for such inspection and mitigation, including but not limited to, abatement costs, expenses, and attorney's fees, are subject to full cost recovery from the owner with a lien recorded on the property.** Deadlines for completing an adequate cleanup through the Alternative Program will be set by the Lassen County Board of Supervisors.

**NOTE: Parcels that do not have trees (brush only) or the hazard trees have been removed by the owner, are exempt from the requirements of this section.**

The Director of Lassen County of Planning and Building Services is in charge of the Hazard Tree Program. Planning and Building will coordinate with Lassen County Environmental Health to incorporate the Hazard Tree Program results into final Alt Program information. **Please contact**

Lassen County Planning and Building Services at (530) 251-8269 for the requirements of this program.

## Debris Removal Process

### Step 1: Submit Application for Alternative Program

Before submitting a work plan or before any work can begin, the property owner must submit an Alternative Fire Debris Removal Program Application (Alternative Program Application). This application asks for basic job information like a brief description of the debris being removed (number and type of structures, types of waste, etc.). More importantly, on the application you must identify the contractor you will be working with to complete this cleanup, and you must provide the contractor's license information. **The application must be signed by both the owner and the contractor** performing the work. Submit completed applications to the Lassen County Department of Planning and Building Services, 707 Nevada Street, Suite 5, CA 96130. Phone: (530) 251-8269 Email: [EHE@co.lassen.ca.us](mailto:EHE@co.lassen.ca.us)

After submitting the application, the contractor will need to submit a detailed work plan for the project. The requirements of the work plan are covered in more detail below.

To ensure all wildfire debris is cleaned up in a timely manner, the Lassen County Board of Supervisors will issue deadlines for property owners to submit the Alternative Program Application. More information about this deadline will be advertised once it is available.

### Step 2A: Asbestos Evaluation (For Properties with No Standing Chimneys Only)

Before major site disturbing activities can begin, a Certified Asbestos Consultant (CAC) evaluation of the property is required. If the property did not have a chimney, or the chimney was toppled during the fire, a safe and thorough asbestos survey can be completed. If the chimney is still standing, see information in Step 2B.

Obtaining an asbestos evaluation early in the process will help ensure the Work Plan is accurate and can fully address conditions found on the property. Although bulk asbestos may have been identified and removed during Phase 1 (Household Hazardous Waste removal), this was only a screening-level assessment. Detailed asbestos sampling and testing was not completed in Phase 1. Depending on the age and construction of the building, various building materials, the foundation, brick and/or chimney mortar may have asbestos-containing materials. Any of these may require asbestos testing as determined by the CAC.

Asbestos can be either friable or non-friable, and each type has special handling and disposal requirements. All asbestos abatement work must be completed by a licensed asbestos contractor under the direction of a CAC. Furthermore, appropriate air monitoring, fugitive dust

controls, and other best management practices must be followed for asbestos handling and disposal. It is possible that some properties will require extensive asbestos abatement, and knowing this early in the process will help property owners make important decisions about their cleanup.

## **Step 2B: Options for Properties with A Standing Chimney**

Chimneys pose special challenges for asbestos assessment and structural integrity after a wildfire. A full asbestos survey for free-standing chimneys is required. However, according to California Building Codes, all chimney structures are vertical gravity load carrying structures that in most cases are an integral component to the overall structure of the building they serve. Standing chimneys, though they may appear to be of sound condition, very rarely are capable of being reused for new construction after a wildfire. In many cases, they are in danger of collapse under their own weight. In brief, here are the primary structural concerns:

**Concrete or clay masonry:** Structure fire exposure reduces wall compressive strength due to the rapid dehydration of the cement. Depending on the aggregate type, due to the expansion, and changes in the dissimilar densities of the aggregate used in the concrete masonry or clay masonry units, the structural integrity of the chimney is compromised.

**Stone masonry:** At high temperatures 1100 -1500 degrees Fahrenheit, the strength of most stones is seriously affected and if thermal shock occurs the stone can disintegrate. The dissimilar densities of the stone and mortar will cause separation of the bond between these elements, and the structural integrity of the chimney is compromised.

As required by the California Building Standards Code (Title 24 of the California Code of Regulations), chimneys can only be reused or incorporated into new construction if they have been specifically evaluated by a Licensed Civil or Structural Engineer paid for by the applicant. The applicant's Engineer must certify, in writing, that the structural integrity of the existing chimney is appropriate for reuse or incorporation into new construction. The Engineer's report must be approved by the Planning and Building Services Department prior to issuance of an "Alternative Fire Debris Removal Program Cleanup Certificate Completion" by the Director of Environmental Health. It will also be necessary to provide the above report to the Planning and Building Services Department again when building plans and an application is submitted for new construction. Said report must be appropriately referenced on any plans submitted for new construction.

**Because of these complexities, property owners will need to determine how they want to address a standing chimney and include the details in the Work Plan.** They have at least 2 options:

- Topple the chimney. Use special care to prevent dust and possible airborne asbestos emissions when toppling a chimney. Use one to two water streams to abate potential dust and exposures. The chimney needs to be pre-wetted along with the fall zone. Once

the chimney is safely on the ground, the Certified Asbestos Consultant (CAC) can perform the needed assessment. **Chimneys cannot be toppled without an approved Work Plan.**

- If the Licensed Civil or Structural Engineer determines it is safe, have the CAC visually observe the interior of standing chimney flue for suspect asbestos-containing materials. This may require shoring, bracing or other measures to protect the inspector performing the inspection. If the CAC cannot adequately assess the standing chimney in place, it may still need to be toppled.

Whatever option the property owner chooses, the details of how a standing chimney will be handled need to be included in the Work Plan (discussed below). Once completed, the CAC must submit the results of the asbestos survey along with any required laboratory results to the Environmental Health Division of the Lassen County Department of Planning and Building Services.

### **Step 3: Perform Hazardous Materials Assessment**

Similar to asbestos certification, hazardous waste assessment is needed before site disturbing activities begin. This is required to ensure hazardous wastes were not missed during Phase 1 Household Hazardous Waste removal.

This assessment typically involves records verification and field screening performed by your environmental consultant. The consultant is required to:

- Confirm Phase 1 assessment has been completed by California Department of Toxic Substances Control or US Environmental Protection Agency (EPA) for the subject property.
- Provide the results of the hazardous waste site assessment/field survey as part of the Work Plan submittal (Work Plan discussed below), and list any hazardous materials found.
- Develop a plan for proper handling and disposal of known hazardous materials, and identify a contingency plan for proper handling and disposal should any hazardous materials be discovered during ash and structural debris removal activities.

### **Step 4: Submit Work Plan**

Work Plans are intended to provide a step-by-step guide to complete ash and structural debris removal. Sufficient detail is required so all parties know what will be done, when, how and by whom. They also help ensure no steps are missed in the cleanup process. Once work starts, work plans help eliminate delays, duplication or uncertainty that cost extra time and money.

Submit completed work plans to the Environmental Health Division of the Lassen County Department of Planning and Building Services, 707 Nevada Street, Suite 5, Susanville, CA 96130 or email them to [EHE@co.lassen.ca.us](mailto:EHE@co.lassen.ca.us). The Alternative Program Work Plan must be submitted within 60 days of the submission of the Alternative Program Application to comply with Phase II Debris Removal requirements. The Work Plan shall be provided to the contractor performing

debris removal and consultant performing soil testing so they can perform the work in a safe, complete and accurate manner. **The approved Work Plan must be on-site and followed by all contractors, sub-contractors and soil consultants.**

To help you submit a complete and thorough work plan, two appendices are included in this document. **Appendix B** is an outline showing all of the required elements of the work plan in outline format. **Appendix C** is a work plan template that can help with the format of the plan, although site-specific details are required. Use of either Appendix is optional. However, all of the required elements must be included for a Work Plan to be approved.

### **Step 5: Wait for Work Plan Review and Approval**

The work plan will be reviewed for completeness and compliance with applicable standards. It may be returned to the contractor or environmental consultant for more information or clarification. Once it is approved, the owner, contractor and environmental consultant will be notified in writing that the work plan is approved. The contractor will also be issued a Certificate of Disposal which will allow ash and structural burn debris to be disposed at the approved landfill identified in the Work Plan. Without a Certificate of Disposal, ash and structural burn debris will not be accepted at participating landfills. Once the written approval and Certificates of Disposal are received, work may begin.

**With the exception of asbestos removal under the direction of a Certified Asbestos Consultant, the work plan must be approved in writing by Lassen County before ash and structural debris removal can begin.**

## **Work Plan Requirements**

This section describes the information that must be included in your Alternative Program debris removal work plan. If a Work Plan is missing information, is incomplete, or does not meet the state cleanup standards, it will be returned to the applicant for revision. Please provide the information in the same order as presented in the Work Plan Outline (Appendix A) or Work Plan Template (Appendix B). This will help reviewers complete a thorough, accurate and timely review of your submittal and avoid unnecessary delays in approving your project.

### **Section 1: Project Overview**

Background information on the project is required including property owner(s) names, contact information, site address and Assessor's Parcel Number (APN). Also, list the contractor's name, license and contact information, and any environmental consultants working on the project.

Provide a complete description of the property and the work to be performed. Site-specific information should include a sketch of all ash or structural debris locations. Include the location of all destroyed buildings, foundations, walk ways, driveways or other hardscapes.



Photograph these areas from all sides to document all important aspects of the proposed cleanup. For properties with a standing chimney, be sure to identify the proposed fall zone of the chimney. Also identify and photograph other ash or debris hazards which will be remediated including any burned vehicles.

Identify any equipment and material staging areas, whether on or off site. Be sure to discuss traffic control measures to prevent blocking roadways, alerting motorists and other debris removal operations (signs or other safety devices), and whether any state or local permits are required for the work to be performed. If you are unsure about encroachment permit requirements, please contact Lassen County Road Department at (530) 251-8288 or Caltrans District 2 at (530) 257-0543.

This section also needs to identify underground utility locations, including electrical, water or sewer lines, wells or septic systems. Specify Underground Service Alert (USA) notification prior to digging. Below are some special infrastructure considerations:

- **Water Supply**
  - Contact Lassen County Environmental Health at (530) 251-8269 for well water safety questions, well location, and to obtain information on well repairs.
  - Repairs to electrical lines to your well require a permit from the Lassen County Department of Planning and Building Services.
  - Mark or flag the locations of wells, water lines and water tanks on the property and take steps to protect them during debris removal.
- **Sewage Disposal Systems**
  - Contact Lassen County Environmental Health at (530) 251-8269 for questions regarding septic system safety questions and system location.
  - Repairs to your sewage disposal system may require a permit from the Lassen County Department of Planning and Building Services.
  - Mark or flag septic tank, sewer lines, and leach field locations and take steps to protect them during debris removal.
  - Any immediate hazards such as missing or caved-in septic tank lids must be mitigated prior to debris removal.

Finally, be sure to address personnel safety for all site workers and how to reduce risks. This should include the level of training, certification, personal protective equipment and any other requirements for site workers. **A site-specific health and safety plan is required for each project in the Alternative Program.**

## **Section 2 – Background Site Assessment**

Provide a copy of the Certified Asbestos Consultant (CAC) report described in Step 2A above (properties without a standing chimney). For properties with a standing chimney (Step 2B),

discuss whether it will be toppled and the appropriate safety precautions that will be taken, or discuss the process to verify it can be safely inspected and certified for future use.

In this section also discuss plans for the removal or reuse of the foundation. In general, the structural integrity of concrete and masonry will be adversely affected in a wildfire, especially when the structure is completely destroyed. These materials may be irreversibly altered deeming it unsatisfactory for reuse in supporting a rebuilt structure.

**It is highly recommended that foundations be completely removed (or at a minimum, evaluated for structural integrity and suitability for reuse).** It is at the discretion of the property owner to retain a foundation, but the property owner is financially responsible to remove the foundation regardless of whether it is removed now or a future date if not approved for use by an engineer at the time of a building permit to replace said structure. Before even considering reuse of an existing foundation (now or in the future), property owners should be aware of the requirements detailed in this section.

The structural integrity of the foundation may be compromised to a degree that it is not safe for reuse as a result of the fire. The Lassen County Planning and Building Services Department must approve reuse of a foundation before building plans can be issued that include said foundation. A landowner may postpone said analysis and approval to a future time but should be cautious because the State building code requirements for the reuse of a foundation could change in future years. If the intent is to reuse the foundation, it is recommended that analysis be done immediately and that building plans be submitted.

Currently, approval for reuse of a foundation requires that a Licensed Civil or Structural Engineer, paid for by the applicant, certify that it is acceptable to reuse the existing foundation for new construction. There are a number of tests and standards for evaluating the compressive strength of concrete or masonry. Examples include ASTM C39 and ASTM C140, which involve taking core samples from foundations and doing a compressive test in a certified lab. Homeowners interested in retaining their foundation will need to submit a letter from a Civil or Structural Engineer certifying that the foundation is appropriate for reuse pursuant to the California Residential Code (Part 2.5 of Title 24 of the California Code of Regulations). The report shall adequately explain the basis for the determination, date, and shall include testing results. Again, approval from the Lassen County Planning and Building Services Department is required to reuse a foundation. Please also note that the above report must be appropriately referenced and incorporated into any plans and building permit application that may be submitted for new construction. Foundations with engineered approval may be subject to reapproval if the foundation has not been utilized within 36 months or if building codes should change.

### **Section 3 – Hazardous Waste Contingency Plan**

During Phase I of Consolidated Fire Debris Removal, teams of County staff and experts from the Department of Toxic Substances Control and US EPA inspected the property and removed any

identifiable and accessible household hazardous waste and bulk asbestos that may pose a threat to human health, animals, and the environment. However, some properties may have been missed during this assessment, or some hazardous materials may still be present on the property and could pose a threat to public health and the environment.

The environmental consultant will need to confirm the Phase 1 assessment has been completed. They will also need to perform a site assessment/field survey to identify any remaining hazardous materials and develop a contingency plan for proper handling and disposal should any other hazardous materials be discovered during ash and structural debris removal. The plan must specify only properly trained workers wearing proper personal protective equipment or PPE (sturdy footwear, gloves, respiratory protection, etc.) should handle, sort, process and/or transport these materials. The plan must identify the certified waste hauler and the approved receiving facility for this waste. Please note that Lassen County does not have a household hazardous waste collection center, and these wastes are not accepted at local transfer stations, or county landfills.

#### **Section 4 – Erosion Control**

Throughout the project, best management practices (BMPs) shall be implemented to establish erosion control at the disturbed site. This is necessary to prevent ash, soil, and other pollutants from washing into the street, drainage courses and culverts, or onto neighboring properties.

BMPs include but are not limited to:

- Stockpiled materials that are not immediately loaded for transport shall be handled and stored on site in such a manner as to avoid offsite migration. This may include wetting and covering the waste until it is loaded and transported. Locate stockpiles away from drainage courses, drain inlets or concentrated flows of storm water.
- Stockpiled material may not be stored or placed in a public roadway.
- During the project and in the rainy season, cover non-active soil stockpiles and contain them within temporary perimeter sediment barriers, such as berms, dikes, silt fences, hay bales or sandbag barriers.
- Implement appropriate erosion control measures during debris removal and provide final site stabilization after debris removal is completed.

In addition to the above, please discuss any additional erosion control methods that will be used.

#### **Section 5 – Debris Removal, Disposal, and Recycling**

Fire debris, structural ash, and contaminated soil must be disposed of at a lined Class II, or Class III landfill approved by the Regional Water Quality Control Board. Lassen County does not have any such landfills. Bass Hill and Westwood landfills are not lined and the Lockwood, NV landfill cannot accept fire debris, structural ash or contaminated soil from California. **Consequently, fire debris, structural ash and contaminated soil cannot be disposed of at any county landfill or transfer site.** Instead, the fire ash and debris must be transported to a landfill in California approved to receive such waste. Bass Hill landfill **can** accept metals for recycling. Concrete slabs and foundations crushed to 3” or less are the **only** inert waste that Bass Hill will allow. A

list of landfills approved to receive fire debris and facilities that take inert waste in the north state are included in Appendix C. Each of the landfills will need to see your **Certificate of Disposal** of Beckwourth and Dixie Fire debris (issued after your work plan is reviewed and approved by Environmental Health.) **Remember, if you do not have a Certificate of Disposal, your load will not be accepted at the approved landfills.** If you wish to use a facility that is not on this list, please contact Environmental Health for more information.

Special handling and transportation requirements apply to ash, structural debris and contaminated soil. All waste must be wetted and fully encapsulated (“burrito wrapped”) using 6-10 mil plastic sheeting using CalRecycle waste handling protocol. All loads must then be tarped for transport and ultimate disposal. Contractors/haulers failing to adhere to this standard may have their loads rejected at the disposal facility and/or may be subject to monetary fines.

- **Recycling Metal and Concrete**

Property owners and contractors are encouraged to recycle metals and concrete whenever possible. Concrete and metal should be separated. Concrete and metal must be generally free of ash and debris.

- Metal and concrete may be rinsed down on site. If so, rinsing must be done over the debris pile prior to loading or transport. Engineering controls for storm water discharges must be in place.
- Concrete and metal must be covered with a tarp prior to transport.
- Vehicles are acceptable for metal recycling but not until the Vehicle Identification Number has been verified by the Highway Patrol team collecting this information. Contact the Lassen County Emergency Services Chief at (530) 257-8504 for more information.

**Transportation and disposal documentation for all debris removal from the property must be retained and included with your Alternative Fire Debris Removal Program Cleanup Completion Certification submittal.**

Dust Control is a critical consideration for all debris removal work. The Work Plan must specify dust control measures such as providing water or an approved dust palliative, or both, to prevent dust nuisance at each site. **Dust resulting from performance of the work shall be controlled at all times.** Dust control measures include:

- **Control 1-** Water or an approved dust palliative, or both, must be used to prevent dust nuisance at each site. Each area where ash and debris are to be removed will be pre-watered with a fine spray nozzle in advance of initiating debris removal and as needed during the removal. The water must be applied in a manner that does not generate runoff. Engineering controls for storm water discharges must be in place prior to dust control operations.

- **Control 2-** All loads shall be covered with a tarp; this includes metal debris. Ash and debris loads shall also be fully encapsulated with 6 to 10 Mil polyethylene plastic (“burrito wrap” method).
- **Control 3-** All waste material that is not unloaded at the end of each workday will be consolidated, sufficiently wetted, and/or covered to prevent the offsite migration of contaminants.
- **Control 4-** All visibly dry soil surfaces within the operating zone should be watered to minimize dust emissions during performance of work.
- **Control 5-** Speeds must be reduced when driving on unpaved roadways.
- **Control 6-** Procedures will be implemented to prevent or minimize dirt, soil or ash contaminating roadways, neighboring parcels or creating an airborne health hazard. The use of blower devices, dry rotary brushes, or brooms for removal of carryout and track out on public roads is strictly prohibited.

In addition to the above, please identify any other dust control measures that will be used.

#### **Section 6 –Soil Scraping and Erosion Control**

There is a risk of potential soil contamination from the fire debris and ash. As a result, after the ash and debris are removed from the property to a level of visually clean soil, the contractor is required to remove an additional 3 to 6 inches of soil from the impacted area. This soil must be disposed of at a properly permitted landfill using the same handling, transportation and disposal protocols discussed above for ash and structural debris. Soil samples will then be taken to assess the effectiveness of the cleanup as discussed below.

Please note that after an initial soil scraping, if soil sample results have not returned to background levels, further soil scraping and resampling will be required.

#### **Section 7 – Soil Confirmation Sampling**

To ensure the site is free of contaminants, soil sampling and laboratory analysis is required after the site has been visually cleaned of ash and debris, and an additional 3 to 6 inches of soil were removed from the impacted area.

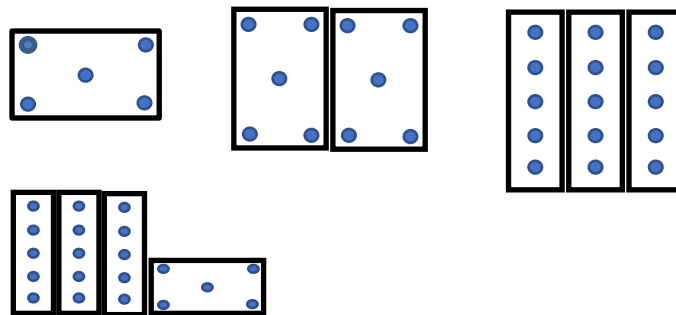
Environmental consultants shall collect and analyze representative soil samples to determine compliance with established cleanup criteria. Sampling shall be per CalRecycle’s Debris Removal Operations Plan sampling frequencies which is summarized below. The total number of samples to be collected is based on estimated square footage of the **ash footprint** as follows:

<b>Estimated Square Footage of Ash Footprint</b> (Decision Unit)	<b>Number of 5-Point Composite Samples</b> (square feet of each area sampled is total square feet of ash footprint / the number of required samples)
0-100 square feet	1

101-1,000 square feet	2
1,001-1,500 square feet	3
1,501-2,000 square feet	4
2,001-5,000 square feet	5
>5,000 square feet	Must consult with local environmental health officials

Proposed soil sample locations shall have the required 5-point composite samples evenly distributed throughout the structural ash footprint. Collecting composite samples in linear rows may make it easier to localize over-excavation if certain areas do not pass established cleanup criteria. Include dimensions of the ash foot print used to calculate the area of each structure's ash foot print.

#### Examples of typical 5-Point confirmation sampling patterns



Soil sampling is required beneath all burned structures on properties that have **any qualifying structure of 120 square feet or greater**, not just the residence and garage. Therefore, **a small 10 foot by 10 foot shed would require one composite sample if there are additional qualified structures.**

The consultant must collect all confirmation samples from a depth of 0-3 inches into fresh soil using a dedicated 4-ounce plastic scoop. The samples must be mixed (homogenized) in a one-gallon plastic bag before placing them in 8-ounce laboratory sample jars. Samples must be shipped under chain of custody documentation to a California Department of Public Health Certified Laboratory.

**Testing of metals must be performed by EPA Lab Method 6020 for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, zinc and by EPA Lab Method 7471 for mercury.**

In addition to confirmation soil samples, the consultant shall collect three background samples at a depth of 3-9 inches **outside the ash footprint** (minimum of 20 feet clearance) to determine if naturally occurring levels of any metals tested are above the cleanup criteria. If samples from the ash footprint are below the cleanup criteria, then the lab will not need to test the background samples. If sample results for any metals are above the cleanup criteria, the background samples must be analyzed. If results show the confirmation samples are at or below the background sample concentrations, the consultant must explain this result and make recommendations as appropriate in the final testing report.

Should the confirmation results exceed the cleanup criteria and the site-specific background concentrations, the contractor must re-scrape the soil 3 to 6 inches below the depth of the soil test. Then the consultant will need to resample and retest the soil at this depth. **Multiple rounds of soil scraping and resampling may be required to achieve cleanup criteria.**

Initial Screening Criteria, or cleanup criteria, have been established by CalRecycle and are shown in the table below. Please note these are initial health screening criteria in the absence of background data. Concentrations of some metals likely will be adjusted by CalRecycle to account for background concentrations. A thorough discussion of sample results in comparison to Initial Health Screening Criteria must be completed by the environmental consultant in the final report.

Initial Health Screening Criteria for Soil		
Analyte	Health Screening Level (mg/Kg)	Cleanup Level
Antimony	30	Health Screen
Arsenic	0.07	Health Screen
Barium	5,200	Health Screen
Beryllium	15	Health Screen
Cadmium	1.7	Health Screen
Chromium	36,000	Health Screen
Cobalt	23	Health Screen
Copper	3,000	Health Screen
Lead	80	Health Screen
Mercury	5.1	Health Screen
Molybdenum	380	Health Screen
Nickel	490	Health Screen
Selenium	380	Health Screen
Silver	380	Health Screen
Thallium	5	Health Screen
Vanadium	390	Health Screen
Zinc	23,000	Health Screen

If proposing to keep a slab, the perimeter of the slab must be scraped and composite samples collected one to two feet from the edge of the slab. A minimum of four composite samples shall be collected around the slab (one on each side) however, additional composite samples will be required based on the calculated for the square footage of the structure (i.e. a 4,500 square foot structure would require five composite samples). The only exception for perimeter sampling is in area of a non-porous surface (driveway, etc.) adjacent to the slab.

## Section 8 – Hazard Tree Removal

Hazard trees are defined as any tree that has been so severely damaged by fire that it poses a risk of falling onto an improved public property, or public road or right-of-way within 5 years of the fire. Property owners must hire a licensed arborist or registered forester to assess for hazard trees.

The Lassen County Department of Planning and Building Services will administer the Hazard Tree Program. In the Work Plan, the property owner must acknowledge that hazard trees must be removed at the property owner's expense and that the Cleanup Completion Certification will not be issued until all hazard trees are removed to the satisfaction of Planning and Building Services.

## Section 9 – Signatures

**The contractor and owner must sign the Work Plan.**

In summary, here are the Work Plan requirements at a glance:

Cleanup Operations	Cleanup Protocols
Whenever necessary to make an inspection to ensure compliance with the approved work plan, any authorized official of the County may, upon presentation of proper credentials, enter such property at all reasonable times to inspect any provision of the approved work plan.	
Project Overview	<ul style="list-style-type: none"><li>Contractor must measure, record and photograph foundation and cleanup area (square footage of ash footprint).</li><li>Contractor must locate, protect and notify appropriate entities of cleanup, such as local utilities and USA Underground.</li></ul>
Background Assessment	<ul style="list-style-type: none"><li>Contractor or Property owner must hire a Certified Asbestos Consultant (CAC) to evaluate each property for suspect asbestos containing material.</li><li>Standing chimneys require a Licensed Civil or Structural Engineer safety determination for inspection or reuse.</li><li>A safety and dust control plan is required before toppling a chimney.</li><li>The contractor or property owner must hire a licensed contractor with a certificate for asbestos abatement (Certified Asbestos Contractor) to properly remove and dispose of any asbestos found.</li></ul>
Hazardous Waste Removal and Contingency Planning	<ul style="list-style-type: none"><li>Verify Phase 1 has been completed by DTSC or US EPA.</li><li>Contractor or Property owner must have a contingency plan for any hazardous materials encountered or remaining on property.</li><li>Contractor or Property owner must take all reasonable precautions to remove and properly dispose of any hazardous waste.</li></ul>



Cleanup Operations	Cleanup Protocols
Erosion Control	Contractor is required to implement and maintain adequate erosion control measures throughout the project.
Debris and Ash Removal	<ul style="list-style-type: none"> <li>Contractor is required to remove ash and structural debris, metals, and concrete from site and dispose of it properly.</li> <li>Contractor should recycle metals and concrete when possible. Concrete and metal must be generally free of ash and debris.</li> <li>Contractor must present a debris Certificate of Disposal from Lassen County Environmental Health at the receiving landfill before dumping.</li> <li><b>Be sure to keep all disposal receipts and documentation and submit them with the final report.</b></li> </ul>
Debris and Ash Removal (Dust Control and Air Monitoring)	<p>Dust is a significant concern and contractor is required to take adequate dust control measures at all times. Use of multiple control measures is required including water applied to ash, debris and soil. Special loading and transportation requirements must be followed. Additionally,</p> <ul style="list-style-type: none"> <li>Contractor is required to visually monitor all site work for fugitive dust.</li> <li>If recommended by a Certified Asbestos Consultant (CAC), the contractor shall monitor the air at the site for asbestos during debris removal activities.</li> <li>If required, contractor must provide air monitoring results at final certification</li> </ul>
Debris and Ash Removal (Foundations)	Contractor is required to completely remove and dispose of foundation; <u>or</u> submit a letter from a Licensed Civil or Structural Engineer certifying the foundation is acceptable for rebuild under the current code. Approval to reuse the foundation is at the sole discretion of the Lassen County Building Official.
Soil Scraping	<ul style="list-style-type: none"> <li>After the ash and debris are removed from the property to a level of visually clean, the contractor is required to remove an additional 3 to 6 inches of soil from the impacted area.</li> <li>Scraped soil must be handled, transported and disposed in the same manner as ash and structural debris.</li> </ul>
Confirmation Sampling and Analysis	<ul style="list-style-type: none"> <li>After removing 3 to 6 inches of soil during soil scraping, soil samples shall be collected from a depth of 0 to 3 inches for confirmation sampling. Results must be at or below cleanup criteria as established.</li> <li>Confirmation sampling shall be conducted by a qualified environmental consultant, professional engineer, or professional geologist with experience in soil investigations.</li> </ul>
Hazard Trees	Property owner must acknowledge that hazard trees must be

Cleanup Operations	Cleanup Protocols
	removed at the property owner's expense. A licensed arborist or registered professional forester assessment is required.

## Final Report Requirements

After all work has been completed, the contractor and/or consultant must submit a Final Report. **A completed Alternative Fire Debris Removal Program Cleanup Completion Certification Form (Certification Form) must be a part of that report.** A copy of this form is found in Appendix F. **Ensure the Certification Form is signed and dated by both the property owner and the contractor.** All sections of the Certification Form must be completed or shown as N/A if not applicable. "Provided in Work Plan" is not an acceptable form of documentation. **The contractor may not sign the Certification Form on behalf of the owner.**

The final report must also include documentation for ash/soil, concrete and metal debris disposal or recycling. If a property does not have one of these (i.e., some mobile homes do not have any concrete waste) then put N/A in the appropriate place on the Certification Form. **Debris disposal receipts or tags should clearly note the APN or address of the subject property on each receipt.**

Include a statement indicating that all foundations/slab have been removed or include photos documenting this. The final report cannot be approved prior to obtaining an approval from Lassen County Planning and Building Services for any slabs or foundations remaining in place. Contact Planning and Building Services at (530) 251-8269 for more information.

The number of soil samples collected should be the same as proposed in the approved work plan. Any discrepancies should be noted and explained in the text of the report. Specify the geologic unit underlying the property. **Submitting a map showing the property location in relation to the geologic unit will speed up the review.**

Include a brief narrative or statement confirming that soil samples meet the cleanup criteria. Laboratory reports must include copies of the **chain of custody** documentation. **All analytical results (including Mercury) must be in a table with the corresponding cleanup goal for the geologic unit.** If soil sample results exceed the cleanup criteria, then background soil samples will need to be analyzed. It is recommended that background samples be collected during the initial sampling. Most labs will allow samples to be "held" and analyzed at a later date. These samples may then be analyzed if there is an exceedance of the cleanup criteria. If there is an exceedance of the cleanup criteria, that specific area must be re-scraped and re-sampled. If so, this needs to be discussed in the final report.

A soil sample map must be included in the final report. The map must reflect where samples were actually collected, which may differ from what was proposed in the work plan. If different than proposed, please explain the reason in the text of the report.

Clearly show where each sample was collected and show the sample identification number. The five sample locations for each individual composite sample must be included. Sample identifiers must be the consistent throughout the report, including on the location map, table, and lab reports. Soil samples shall be distributed evenly throughout the footprint, with no significant gaps in coverage.

## **Certificate of Completion**

After Environmental Health has reviewed and approved your Final Report, you will be issued a Cleanup Completion Certification. You will be ready to rebuild!

## **Appendices**

<a href="#"><u>Appendix A</u></a>	Alternate Debris Removal Program Application
<a href="#"><u>Appendix B</u></a>	Work Plan Outline
<a href="#"><u>Appendix C</u></a>	Work Plan Template
<a href="#"><u>Appendix D</u></a>	Solid Waste Disposal Site/Recycling Resource
<a href="#"><u>Appendix E</u></a>	Asbestos and Hazardous Waste Service Providers
<a href="#"><u>Appendix F</u></a>	Cleanup Completion Certification



## Appendix A

# Lassen County Fire Debris Removal

707 Nevada Street, Suite 5, Susanville, CA 96130  
Phone: (530) 251-8269 ~ email: EHE@co.lassen.ca.us

### ALTERNATIVE FIRE DEBRIS REMOVAL PROGRAM APPLICATION

**Who needs to complete this form? Private** property owners who:

- (1) decide ***not*** to participate in the Government Sponsored Debris Removal Program (Government Cal OES Program) and choose to clean up their property by hiring a qualified contractor and following the Alternative Fire Debris Removal Program (Alternative Program); OR
- (2) own properties with qualifying structures that are not eligible for the Government (Cal OES) Program. The owner is required to clean up the property to the standards established in ordinances, regulations and this document, so that health and safety risks are adequately addressed for the community and the environment. The Alternative Program requires owners to provide documentation demonstrating adequate cleanup and proper disposal of debris.

*If your property did not include a qualifying structure of 120 square feet or more as outlined in the Government (Cal OES) Plan, you are not required to complete the Alternative Fire Debris Removal Program Application. If this describes your property, contact the Lassen County Environmental Health Department to obtain a certificate to dispose of your ash and debris at a properly permitted landfill.*

**Please note that State disaster assistance funding will not reimburse property owners for any work completed by a contractor hired under the Alternative Program.**

**Where do I submit this form?** Submit this form to the Environmental Health Division of the Lassen County Department of Planning and Building Services at 707 Nevada Street, Suite 5, Susanville, CA 96130 or email to EHE@co.lassen.ca.us

Property Owner Name: \_\_\_\_\_

Phone(s): \_\_\_\_\_

Property Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Assessor's Parcel Number (APN): \_\_\_\_\_

Email: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Description of Debris Being Removed (number and types of structures, types of waste, etc.)

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**Program Participation**

A Licensed Contractor with proper certifications shall perform the ash and debris removal, hazardous materials and asbestos removal and other cleanup work. Contractors must comply with the California Contractors State License Board (CSLB) requirements to perform cleanup work under the Alternative Program.

Name of Contractor:

License Number:

Proposed Start Date:

**Required:** Owners are required to obtain approval from the Environmental Health Division of the Lassen County Department of Planning and Building Services for the work plan prior to starting debris cleanup. Any employee performing debris removal shall have (at a minimum) OSHA 40-hr HAZWOPER Training in accordance with 29 C.F.R. §1910.120.

**A. Property Owner Acceptance of Requirements and Indemnification**

I have read and will fully comply, as will any contractor working on my property, with the conditions described in the document titled “**Alternative (Private) Debris Removal Program Beckwourth Complex and Dixie Fires**” and approved Work Plan. I understand ash and structural debris contain hazardous substances and exposure to hazardous substances may lead to acute and chronic health effects, and may cause long-term public health and environmental impacts and proper disposal of the debris is necessary to limit these impacts. I agree to ensure my contractor will wet down ash and debris before removal and will control dust on the property. I agree to ensure my contractor will completely encapsulate the ash and debris ("burrito wrap" method) and cover with a tarp prior to transportation for proper disposal. I agree to ensure my contractor will collect soil samples and submit analytical results with the Debris Removal Cleanup Certification to certify the project has been completed.

I understand that human remains may be encountered during the cleanup and that due to the extreme heat of the fire, any human remains are likely to consist of bones or bone fragments. I agree that if possible human remains are encountered (including any type of bones) during debris removal efforts, all personnel will be careful not to disturb the possible remains, exit the property, immediately report the possible remains to the Lassen County Sheriff's Office at (530) 257-6121, and will wait for a search team to arrive and determine whether they are in fact human remains before resuming debris cleanup.

I agree that the decision as to whether the Alternative Program requirements have been met is in the sole discretion of the Environmental Health Division of the Lassen County Department of Planning and Building Services and that such decision is final. I certify that I am the owner or authorized agent of the real property located at the above address. I hereby certify that I have full power and authority to execute this application without the need for any further action, including but not limited to notice or approval from any other party.

I acknowledge that the decisions made by the County of Lassen (Local Government) are discretionary functions and Local Government is not liable for any claim based on the exercise or failure to exercise a discretionary function and promise not to make such a claim. I further release and agree to hold and save harmless Local Government from all liability for any damage or loss whatsoever that may occur during or after performance of the Alternative Program activities. I therefore waive any claim or legal action against Local Government.

Property Owner Signature (Required):

Date:

Contractor Signature:

Date:

**B. Environmental Health Department Approval**

The Environmental Health Division of the Lassen County Department of Planning and Building Services has reviewed the Work Plan for debris removal for the above-referenced property. The Work Plan is complete and is therefore approved. The debris removal project shall not deviate from the approved work plan without written approval from Environmental Health. Whenever necessary to inspect a property to ensure compliance with the approved work plan, any authorized official of the County may, upon presentation of proper credentials, enter such property at all reasonable times to inspect any provision of the approved Work Plan.

Environmental Health Representative Signature:

Print Name and Title:

Date:



## ***Appendix B***

# **Lassen County Fire Debris Removal**

707 Nevada Street, Suite 5, Susanville, CA 96130  
Phone: (530) 251-8269 ~ email: EHE@co.lassen.ca.us

## **Beckwourth and Dixie Fire Alternate Debris Removal Program Work Plan Outline and Contents**

### **1.0 Project Overview**

- 1.1 Property and Property Owner(s) information
  - Name and contact information
  - Site address/APN
- 1.2 List of Contractors (name, license, contact information)
- 1.3 Description of Work
  - 1.3.1 Description of property and proposed activities
    - 1.3.1.1 Identify equipment and material staging area
    - 1.3.1.2 Site Health and Safety
    - 1.3.1.3 Traffic Control
  - 1.3.2 Footprint Measurements
    - 1.3.2.1 **Sketch footprint and describe type of foundation(s) and other hardscape**
    - 1.3.2.2 **Photograph each site from all sides to document all aspects of the property**
    - 1.3.2.3 **Sketch and record ash footprints**
    - 1.3.2.4 Identify and photograph other property-specific hazards (i.e., large vehicles, ponds)
  - 1.3.3 Water Lines / Wells (if applicable)
    - 1.3.3.1 Identify water wells on properties
    - 1.3.3.2 Identify water and electrical sources
  - 1.3.4 Septic Systems / Sewer Lines (If applicable)
    - 1.3.4.1 Identify septic tank and leach field locations on each property
- 1.4 Statement of intent to notify, obtain required permits, and to work within acceptable hours of operation
  - 1.4.1 Underground Service Alert (USA)
    - 1.4.1.1 Check for underground utilities by alerting Underground Service Alert (USA) for public right of way
    - 1.4.1.2 Check for underground utilities by using an independent private utility locator service for private right-of-way, if necessary
  - 1.4.2 Acceptable hours of operation:  
The County shall seek to limit the potential noise impacts of construction activities on surrounding land uses. The standards outlined below shall apply to those activities associated with actual construction of a project as long as such construction occurs between the hours of 7 a.m. and 7



p.m., Monday through Friday and 8 a.m. and 5 p.m. on weekends or on federally recognized holidays. Exceptions are allowed if it can be shown that construction beyond these times is necessary to alleviate traffic congestion and safety hazards. Contact the Lassen County Planning and Building Services Department for more information, (530) 251-8269.

Land Use Designation	Time Period	Noise Level (dB)	
		L <sub>eq</sub>	L <sub>max</sub>
Residential	7 am to 7 pm	55	75
	7 pm to 10 pm	50	65
	10 pm to 7 am	45	60
Commercial and Public	7 am to 7 pm		90
Facilities	7 pm to 7 am		75
Industrial	Any Time		90

## 2.0 Background Site Assessment

### 2.1 Certified Asbestos Consultant (CAC) Report

- 2.1.1 Conduct surveys to identify, sample, and analyze results for suspected asbestos containing materials (ACM) including concrete foundations and mortar.
- 2.1.2 **For properties with a standing chimney, determine whether asbestos assessment can be completed safely.** Provide a Licensed Civil or Structural Engineer's report on structural safety of the chimney. A subsequent survey for asbestos containing materials will be required.
- 2.1.3 **For properties with a standing chimney that will be toppled** provide a plan to prevent dust and possible airborne asbestos emissions. A subsequent survey for asbestos containing materials will be required.

- 2.2 Foundation Analysis and Plan (if foundation is to remain in place, testing, certification, and Building Department approval is required)

## 3.0 Hazardous Waste Assessment and Contingency

- 3.1 Provide the name of the Hazardous Waste and Household Hazardous Waste consultant
  - 3.1.1 Confirm the Phase 1 Household Hazardous Waste Removal has been completed.
  - 3.1.2 List the name and credentials of the consultant performing the hazardous waste assessment.
- 3.2 Develop a contingency plan for proper handling and disposal of any remaining or encountered hazardous materials. Submit reports for hazardous waste and asbestos survey, analytical reports and hazardous materials disposal documentation to the Lassen County Environmental Health, Alternative Program.

- 3.3 Asbestos Removal if required. Provide details on the asbestos removal contractor, asbestos handling and removal procedures, and disposal information.

#### **4.0 Erosion Control**

List all erosion control Best Management Practices (BMPs) employed throughout the project.

#### **5.0 Debris Removal and Disposal / Recycling**

##### **5.1 Ash, Fire Debris and Soil**

- **Collect, consolidate, and remove ash, debris and soil for disposal**
  - Disposal facilities will need certification from Lassen County Environmental Health that the ash and debris has been assessed for hazardous waste and asbestos and any discovered hazardous waste or asbestos has been properly removed and disposed.
  - All disposal-related document and receipts shall be retained for final report.

##### **5.2 Metals Including Vehicles and Appliances**

- **Remove vehicles for recycling or disposal once VIN verification is completed**
  - Name of Recycling Facility
- Collect, and remove metals for recycling
  - Name of Recycling Facility or disposal Site

##### **5.3 Concrete, Brick & Masonry**

- Collect and remove concrete for recycling or disposal
- Track and log quantities and types of materials transported to landfill or recycling facility
  - All disposal-related document and receipts shall be retained for final report

##### **5.4 Air Monitoring and Fugitive Dust Control**

Confirm use of required dust control measure and identify any additional site-specific measures used.

#### **6.0 Soil Grading and Erosion Control**

##### **6.1 Soil Scraping**

##### **6.2 Description of Grading Activities**

- Finish grading/smoothing ground surface

##### **6.3 Description of Erosion Controls**

- Once cleanup goals have been met, the site will be prepared for final erosion control and certification
- Implement storm water best management practices to control sediment runoff from each remediated property

#### **7.0 Confirmation Sampling**

- Prepare a site diagram that includes the anticipated soil sample locations

- Sample and analyze soil
- Compare soil analytical results to ROE Program cleanup criteria and background sample results, if necessary.
- If results exceed cleanup criteria and cannot be explained by the soil consultant in connection with the background samples, another layer of soil must be removed, and another round of confirmation samples must be collected.

## **8.0 Hazard Trees**

The Lassen County Department of Planning and Building Services will administer the Hazard Tree Program. Contact their office at (530) 251-8269 for questions about this program.

- 8.1 The property owner must acknowledge that hazard trees must be removed at the property owner's expense and that final certificate of completion will not be issued until all hazard trees are removed to the satisfaction of Planning and Building Services.

## **9.0 Signatures of Owner and Contractor**

## **10.0 Attachments (If applicable):**

- Vicinity Map
- Plan Maps including former structure and burn debris footprint
- Photographs
- Laboratory Test Results
- Any other supporting documentation as appropriate



# **Appendix C**

## **Lassen County Fire Debris Removal**

707 Nevada Street, Suite 5, Susanville, CA 96130  
Phone: (530) 251-8269 ~ email: [landuse@co.lassen.ca.us](mailto:landuse@co.lassen.ca.us)

### **Beckwourth and Dixie Fire Alternate Debris Removal Program**

#### **Work Plan Template**

This document is an optional work plan template for the Alternative Fire Debris Removal Program. It will help you submit a complete application which will be more easily reviewed and more quickly approved. However, you are not required to use this template.

#### **1.0 Project Overview**

<b>1.1 Property Information and Property Owners</b>		
Property Owner Name:		
Property Address:	City:	Zip:
Assessor's Parcel Number (APN):		
Phone(s):	Email:	
Mailing Address:	City:	Zip:

<b>1.2 List of Contractor(s) and Consultants</b>	
Name:	License No.:
Phone:	Email:
Name:	License No.:
Phone:	Email:
Name:	License No.:
Phone:	Email:

<b>1.3 Description of Work:</b> Provide a brief description of property and proposed activities (Footprint, description of structures and/or debris). Attach Photos/Sketches of ash footprint.
Identify/discuss proposed equipment material staging areas:
Identify/discuss Site Health and Safety Protocols and Traffic Control:
If applicable, damaged water wells and/or water lines on property will be addressed in the following manner:
If applicable, damaged septic systems and/or sewer lines on property will be addressed in the following manner:

Attach Photos and Diagrams of ash footprint, other property specific hazards (large vehicles, ponds, etc.), water and electrical lines, if available.

## **2.0 Background Site Assessment**

### **2.1 Certified Asbestos Consultant (CAC) Report**

**A Certified Asbestos Consultant was hired to test the site. Attach a copy of the report to this Work Plan. If you have a special case where asbestos clearance is not feasible prior to Work Plan issuance, please contact the Lassen County Environmental Health at (530) 251-8269 or email at [EHE@co.lassen.ca.us](mailto:EHE@co.lassen.ca.us)**

Submit a report of the asbestos survey with analytical reports to the Environmental Health Division of the Lassen County Department of Planning and Building Services for disposal authorization.

### **2.2 Foundation Analysis and Plan**

In general, the structural integrity of concrete and masonry can adversely be affected in fire situations, especially when the structure is completely consumed by the fire. The properties of the material may be irreversibly altered deeming it unsatisfactory for reuse in supporting a rebuilt structure.

Property owners have two options:

1. Completely remove and dispose of foundation,
2. If foundation is to remain in place, testing, engineer's certification and approval from the Lassen County Department of Planning and Building Services is required.

<p><b>Structural foundations on the property will be addressed in the following manner:</b></p>
---

## **3.0 Hazardous Waste and Asbestos Removal**

### **3.1 Hazardous Waste and Removal**

During Phase I of Consolidated Fire Debris Removal, teams of County staff and experts from the Department of Toxic Substances Control and US EPA inspected the property and removed any identifiable and accessible household hazardous waste and bulk asbestos that may pose a threat to human health, animals, and the environment. However, some hazardous materials and/or asbestos or asbestos containing materials (ACM) may still be present on the property and could pose a threat to public health and the environment. Only properly trained workers wearing proper personal protective equipment (sturdy footwear, gloves, respiratory protection, etc.) should handle, sort, process and/or transport these materials.

### 3.1 Hazardous Materials Assessment:

Performed by (name of consultant):
List the hazardous materials identified during the site assessment (if any):

### 3.2 Hazardous Waste and Household Hazardous Waste Removal

Any hazardous waste and household hazardous waste (HHW) found during ash and structural debris removal operations shall be disposed by a certified hazardous waste contractor. Explain how household hazardous wastes (batteries, propane tanks, paint, gasoline cans, cleaning products, pesticides, fluorescent light bulbs, etc.) will be identified, segregated, and disposed of properly.

List of HW and HHW removed (if any):
Certified Hazardous Materials/Waste Contractor
Name:
License No.:
Disposal and/or Recycling Facility(s)

Submit a report of the hazardous waste disposal documentation, if applicable, to Lassen County Environmental Health.

### 3.3 Asbestos Removal

Asbestos or ACM requires assessment by a Certified Asbestos Consultant. **This must be completed for all properties participating in the Alternative Program.** Asbestos and asbestos containing material must be removed by a licensed Asbestos Abatement Contractor. If bulk loading ACM, the bin or container used for transport shall be **double-lined with 6 to 10-mil poly** in such a way that once loaded both layers can be sealed up independently (“burrito-wrap method”).

<b>Asbestos Handling and Removal Procedures</b>
<b>Certified Asbestos Consultant hired to test the site</b>
Name:
License No.:
<b>Asbestos Removal Contractor</b>
Name:
License No.:
<b>Disposal Facility(s)</b>

#### **4.0 Debris Removal and Disposal / Recycling**

Remove ash, debris, contaminated soil, metals and concrete from the site and dispose of properly. Metals and concrete shall be recycled if possible. Appliances and vehicles shall be handled properly to meet the requirements of metals recycling facilities. All waste shall be disposed of at an approved location authorized to accept such waste. A Certificate of Disposal issued by Environmental Health will be required.

Debris shall be handled in the following manner and disposed at the following locations:

<b>4.1 Ash, Fire Debris and Soil</b>



#### 4.2 Metals Including Vehicles and Appliances

#### 4.3 Concrete, Brick & Masonry

#### 4.4 Air Monitoring Protocols for Fugitive Dust Control

Property owners or their contractors must provide water or an approved dust palliative, or both, to prevent a dust nuisance at the site. Dust resulting from performance of the work will be controlled at all times in a manner that does not generate runoff. Dust Control Methods include:

- **Control 1-** Water or an approved dust palliative, or both, will be used to prevent dust nuisance at each site. Each area where ash and debris are to be removed will be pre-watered with a fine spray nozzle in advance of initiating debris removal and as needed during the removal.
- **Control 2-** All loads shall be covered with a tarp; this includes metal debris. Ash and debris loads shall be fully encapsulated with 6 to 10 Mil polyethylene plastic ("burrito wrap" method). Concrete loads are exempt from a tarp provided the loads are wetted prior to leaving. If concrete loads generate dust, then the loads must be wetted and covered.
- **Control 3-** All waste material that is not unloaded at the end of each workday will be consolidated, sufficiently wetted, and/or covered to prevent the offsite migration of contaminants.
- **Control 4-** All visibly dry disturbed soil surface areas of operation should be watered to minimize dust emissions during performance of work.
- **Control 5-** Speeds must be reduced when driving on unpaved roadways.
- **Control 6-** Procedures will be implemented to prevent or minimize dirt, soil or ash contaminating roadways, neighboring parcels or creating an airborne health hazard.

**In addition to the above listed methods, dust from debris removal activities on the property will be addressed in the following manner:**

## **5.0 Erosion Control**

When active fire ends it leaves behind bare dirt or decreased vegetative cover. Because of the loss of vegetation, the top layer of soil becomes loosened, making it vulnerable to increased runoff, erosion and sedimentation. Debris removal activities further increase the risk of soil erosion.

### **5.1 Description of Erosion Controls**

Erosion and sediment stabilization practices will be implemented to keep sediment and debris from running offsite or impacting the watershed. Erosion and sediment stabilization techniques that must be used are listed below and are consistent with recognized Best Management Practices:

- Stockpiled materials that are not immediately loaded for transport shall be handled and stored on site in such a manner as to avoid offsite migration. This may include wetting and/or covering the waste until it is loaded and transported.
- Locate stockpiles away from drainage courses, drain inlets or concentrated flows of storm water.
- Stockpiled material may not be stored or placed in a public roadway.
- During the project and in the rainy season, cover non-active soil stockpiles and contain them within temporary perimeter sediment barriers, such as berms, dikes, silt fences, hay bales or sandbag barriers.
- Implement appropriate erosion control measures during debris removal and provide final site stabilization after debris removal is completed.

**In addition to the above listed methods, additional erosion control methods for use at this site include the following:**

## 6.0 Soil Scraping and Erosion Control

### 6.1. Soil Scraping

After burn ash and debris are cleaned from the property to a level of visually clean, **remove 3 to 6 inches more soil from the impacted area**. Soil shall be properly disposed of as described in 4.1 above.

## 7.0 Soil Confirmation Sampling

Initial Screening Criteria and protocols have been established in consultation with CalRecycle for soil confirmation sampling **after completion of visible cleanup and 3 to 6 inches of soil scraping as discussed above**. These are initial health screening criteria in the absence of background data. **Samples shall be shipped using chain of custody documentation** to a California ELAP Certified laboratory and analyzed for Title 22 Metals by EPA Method 6020 for the following metals: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, molybdenum, nickel, selenium, silver, thallium, vanadium, zinc, and by EPA Method 7471 for Mercury. A qualified environmental consultant, professional engineer, or professional geologist with experience in soil investigations, shall collect soil samples from a depth of 0-3 inches for confirmation sampling and compare results to cleanup goals. Three samples shall be taken at a depth of 3-9 inches outside the ash footprint (20 ft. minimum) to act as background samples to determine if naturally occurring levels of any metals tested are above the cleanup goals. If samples from the ash footprint are below the cleanup goals then the lab will not need to test the background samples. If sample results for any metals are above the cleanup goals but are at or below the background sample results, this must be adequately explained by your soil consultant in the final testing report.

Soil sample proposed locations shall have the required 5-point composite samples evenly distributed throughout the structural footprint. Collecting composite samples in linear rows may make it easier to localize over-excavation if certain areas do not pass established cleanup criteria. Include dimensions of ash foot print used to calculate the area of each structure's ash foot print. Soil sampling is required beneath all burned structures on properties that have any qualified structure 120 square feet or greater, not just the residence and garage. Therefore, a small 10 foot by 10 foot shed would require one composite sample if there are additional qualified structures.

If proposing to keep a slab, the perimeter of the slab must be scraped and composite samples collected one to two feet from the edge of the slab. A minimum of four composite samples shall be collected around the slab (one on each side) however, additional composite samples will be required based on the calculation for the square footage of the structure (i.e. a 4,500 square foot structure would require five composite samples). The only exception for perimeter sampling is in area of a non-porous surface (driveway, etc.) adjacent to the slab (detached garage, etc).

Using CalRecycle's established background goals (when established) as the cleanup criteria, provide the map of the geologic unit for the background goals with the location of the subject property.

**Attach a drawing showing the ash footprint(s) and proposed soil sample locations.**

<b>Soil Consultant Collecting Samples</b>
Name:
License No.
<b>State-certified Laboratory</b>
Name:
Phone:

Initial Health Screening Criteria for Soil		
Analyte	Health Screening Level mg/Kg	Cleanup Level
Antimony	30	Health Screen
Arsenic	0.07	Health Screen
Barium	5,200	Health Screen
Beryllium	15	Health Screen
Cadmium	1.7	Health Screen
Chromium	36,000	Health Screen
Cobalt	23	Health Screen
Copper	3,000	Health Screen
Lead	80	Health Screen
Mercury	5.1	Health Screen
Molybdenum	380	Health Screen
Nickel	490	Health Screen
Selenium	380	Health Screen
Silver	380	Health Screen
Thallium	5	Health Screen
Vanadium	390	Health Screen
Zinc	23,000	Health Screen

## 7.0 Hazard Trees

The Lassen County Department of Planning and Building Services will administer the Hazard Tree Program. Contact their office at (530) 251-8269 for questions about this program.

I _____ (property owner's name) acknowledge that hazard trees must be removed from the subject property at my expense and that final Certification of Completion of the Alternate Debris Removal Program will not be issued until all hazard trees are removed to the satisfaction of Planning and Building Services.	
_____	
_____	
Signature	Date

## 8.0 Signatures

Property Owner Signature (Required):	Date:
_____	
Contractor signature:	Date:
_____	

## 9.0 Attachments

**Include vicinity map, plan maps, photographs, drawings, laboratory test results, and other documentation as appropriate.**



## ***Appendix D***

### **Lassen County Fire Debris Removal**

707 Nevada Street, Suite 5, Susanville, CA 96130

Phone: (530) 251-8269 ~ email: [landuse@co.lassen.ca.us](mailto:landuse@co.lassen.ca.us)

#### **Beckwourth and Dixie Fire Debris Removal**

#### **Solid Waste Disposal & Recycling Facilities**

The lists on this page are incomplete and other facilities in the region may accept waste, recycling, concrete and asphalt. The Alternative Program does not require owners/contractors to bring waste to any specific facility listed on this page. However, these are the closest facilities that are approved by the State to accept fire debris wastes or recyclables. Please call any facility you may wish to use to check their days and hours of operation.

<b>Facility Name</b>	<b>Facility Address/Phone</b>	<b>Materials Accepted</b>
Anderson Landfill	18703 Cambridge Rd, Anderson/ (530) 347-5236	Metal/Concrete/Asphalt, <b><u>Non-Friable Asbestos</u></b> , Ash/Debris & Contaminated Soils Tonnage limits & Disposal fees under review and subject to change.
Recology Ostrom Road Landfill	5900 Ostrom Rd., Wheatland/ (530) 743-6321	Concrete/Asphalt <b><u>Non-Friable Asbestos</u></b> , Ash/Debris (not open to the general public -contracted commercial waste Haulers by prior arrangement only)

Recology Hay Road	6426 Hay Road Vacaville/ (707) 564-8437	Clean concrete <b><u>Friable Asbestos, Non-Friable Asbestos</u></b> Ash/Debris & Contaminated Soils (See Recology website for information on handling of "Special Wastes")
Bass Hill Landfill	469-700 Johnstonville Dump Road, off Hwy 395, Johnstonville (530) 252-1273	Scrap Metal Crushed Concrete (If less than 3" in size)
Franklin Construction	1019 Neal Road Paradise/ (530) 343-9600	Concrete/Asphalt
Chico Scrap Metal	878 E. 20 <sup>th</sup> Street Chico/ (530) 343-7166	Scrap Metal
Chico Scrap Metal-South	766 Oroville Chico Highway Durham/ (530) 345-6241	Scrap Metal
NorCal Recyclers	1855 Kusel Road Oroville/ (530) 532-0262	Scrap Metal
Crown Metals	4801 Feather River Blvd. Oroville/ (530) 533-7718	Scrap Metal
NorCal Recyclers	1855 Kusel Road Oroville/ (530) 532-0262	Scrap Metal

## ***Appendix E***



### **Lassen County Fire Debris Removal**

707 Nevada Street, Suite 5, Susanville, CA 96130

Phone: (530) 251-8269 ~ email: [EHE@co.lassen.ca.us](mailto:EHE@co.lassen.ca.us)

#### **Beckwourth Complex and Dixie Fires**

#### **Asbestos and Hazardous Waste Service Providers**

Burn sites must be evaluated for asbestos and hazardous waste; identified asbestos and hazardous waste shall be properly disposed of prior to commencement of demolition work and debris removal. Some of the consultants listed below can perform all of these services, while others can only perform some of the services. Companies listed with (A) can perform asbestos work, while companies listed (HW) can perform hazardous waste work. Lassen County Environmental Health does not recommend or endorse individual service providers, and cannot guarantee their services.

NRC Environmental Services, Inc. (A) (HW) Chris Neal 1111 Marauder Chico, CA 95973 (530) 343-5488	ACE Environmental Management, Inc. (A)(HW) Major Geiger P.O. Box 3214 Yuba City, CA 95992 (530) 701-3182
Asbestos Science Technology (A) John Warren P.O. Box 505 Bangor, CA 95914 (530) 518-0934	Health Science Associates (A) 10771 Noel Street Los Alamitos, California 90720 (855) 633-1366
Ben's Truck & Equipment, Inc. (HW) 2060 Montgomery Rd Red Bluff, CA 96080 (530) 527-5040 <a href="mailto:Info@BensTruck.org">Info@BensTruck.org</a>	Alliance Environmental Services (A) (HW) William Irwin 34 Glenshire Ln. Chico, CA 95973 (530) 345-8562



Entek, Inc. (A) Rick Beall 4200 Rocklin Rd., Suite 7 Rocklin, CA 95677 (916) 632-2693	Warren Asbestos (A) 209 McCaton Dr. Bangor, CA 95914 (530) 679-1100
Wike Restoration, Inc. (A) 1282 Hassett Avenue, Suite 1 Yuba City, CA 95991 (530) 674-2693	Northstate Earth and Water Inc. (HW) Mike Fitzgerald P O Box 494130 Redding, CA 96049 (530) 351-3604
Guzi-West Inspection and Consulting (A) Clay Guzi 19749 Sweetwater Trail Redding, CA 96003 (530) 515-0922 www.guziwest.com	

This is a partial listing of California Certified Asbestos Consultants that work in the Northern California area. A complete list of California Certified Asbestos Consultants is available at [http://www.dir.ca.gov/databases/doshcaccsst/caccsst\\_query\\_1.html](http://www.dir.ca.gov/databases/doshcaccsst/caccsst_query_1.html) (see Search function at the bottom of the web page – enter a CAC name or click on “View Entire Listing”). Hazardous waste removal companies and environmental consultants can be found through internet search engines. Please check the California Contractors State License Board’s website at <https://www2.cslb.ca.gov/onlineservices/CheckLicenseII/ZipCodeSearch.aspx> to verify that any contractor or company that you hire has the proper certifications to perform the type of work required on your property.

## Appendix F



# Lassen County Fire Debris Removal

707 Nevada Street, Suite 5, Susanville, CA 96130

Phone: (530) 251-8269 ~ email: [EHE@co.lassen.ca.us](mailto:EHE@co.lassen.ca.us)

### ALTERNATIVE FIRE DEBRIS REMOVAL PROGRAM CLEANUP COMPLETION CERTIFICATION

**What is the purpose of this form?** The purpose of this form is to certify that your parcel has been properly cleaned and the removal of hazardous wastes, ash, and debris and hazard trees has been completed. This form will be used to certify property owner or contractor cleanup completion so that building permits can be approved.

**Who needs to complete this form?** Property owners who elect not to participate in the Government (Cal OES) Program and choose to clean up their property with a qualified contractor and consultants using the Alternative Program.

Property Owner Name: \_\_\_\_\_ Year Structure Built: \_\_\_\_\_

Property Address: \_\_\_\_\_ Town/City: \_\_\_\_\_

Assessor's Parcel Number: \_\_\_\_\_ Email: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Mailing City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

#### A. Program Participation

☐ Yes, I completed the "Alternative Fire Debris Removal Program Application"

#### B. Asbestos Waste Screening

Contractor Name: \_\_\_\_\_ License Number: \_\_\_\_\_

Determination based on inspection:

\_\_\_\_\_

Attach sample results, if applicable.

Consultant Name: \_\_\_\_\_ Certification Number: \_\_\_\_\_

Telephone: \_\_\_\_\_

**If Asbestos was present, attach copy of manifest and asbestos waste disposal receipts.**

**C. Household Hazardous Waste and Asbestos Screening and Disposal**

Description of wastes found onsite: \_\_\_\_\_

\_\_\_\_\_

Provide disposal receipt documentation for all household hazardous waste identified and removed for proper disposal.

**D. Ash, Debris and Soil Disposal**

1. The ash, debris and soil was removed and disposed of by:

☐ Licensed Contractor      ☐ Hauler Contractor

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

License Number: \_\_\_\_\_ License Type: \_\_\_\_\_

Date of Completion: \_\_\_\_\_ (**Attach disposal facility documentation**)

2. The ash, debris, and soil from my property was disposed at the following facility(s):

Facility Name: \_\_\_\_\_

Dates of Delivery: \_\_\_\_\_

Date of Completion: \_\_\_\_\_ (**Attach disposal facility documentation**)

Facility Name: \_\_\_\_\_

Dates of Delivery: \_\_\_\_\_

Date of Completion: \_\_\_\_\_ (**Attach disposal facility documentation**)

**E. Waste Metal Recycling**

1. Waste metal was removed and disposed of by:

☐ Licensed Contractor      ☐ Hauler Contractor

Name: \_\_\_\_\_ License Number: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

2. The waste metal from my property was taken for recycling to the following facility(s):

\_\_\_\_\_  
\_\_\_\_\_

**F. Inert Waste (Concrete and Masonry) Disposal/Recycling**

1. The inert waste was removed and disposed of by:

☐ Licensed contractor      ☐ Hauler Contractor

If you checked "Hauler/Myself" go to Part E2 below. If you checked "Licensed Contractor," please provide the following information below:

Name: \_\_\_\_\_ License Number: \_\_\_\_\_

Address: \_\_\_\_\_ Phone: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

2. The inert waste from my property was disposed at the following facility(s):

Facility Name: \_\_\_\_\_

Date(s) of Delivery: \_\_\_\_\_

Date of Completion: \_\_\_\_\_

**(Attach disposal facility documentation)**

**G. Cleanup Confirmation Sampling Results**

1. Consultant Name: \_\_\_\_\_ License Number: \_\_\_\_\_

Please attach a copy of the consultant's report containing the sampling locations, test results, analysis and conclusions. **Include a table with analytical results comparing all results with State Health cleanup criteria.**

**H. Hazard Trees**

1. Hazard trees were evaluated and removed from my property by:

☐ Licensed Arborist      ☐ Registered Professional Forester

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

License Number: \_\_\_\_\_ Date of Completion: \_\_\_\_\_

**(Attach copy of documentation)**

## I. Property Owner Certification and Indemnification

I hereby certify that all identifiable asbestos, household hazardous waste, burn ash and contaminated soil that may have been generated by the 2021 Beckwourth and Dixie Fires on my property and identified in this document have been identified, removed and properly disposed of or recycled. I understand that since cleanup of the property was performed under my direction, the County of Lassen cannot certify that cleanup was adequate until I submit proof of cleanup and soil testing.

I agree to accept all responsibility for loss or damage to any person or entity, including the County of Lassen and to defend and indemnify, hold harmless, and release County of Lassen, its elected representatives, officers, agents, and employees, from and against any actions, claims, damages, demands, losses, liabilities, disabilities or expenses, defense costs (including reasonable attorney fees), of any kind or nature, that may be asserted by any person or entity with respect to the removal of debris and any hazardous material from the above-mentioned real estate property.

Property Owner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**For official use only. Signature below confirms completion of Lassen County Alternative Debris Removal Program.**

County Signature: \_\_\_\_\_ Date: \_\_\_\_\_