



Shasta County Environmental Health Division
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Phone: 530/225-5787 • Fax: 530/225-5413
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ALTERNATIVE FIRE DEBRIS REMOVAL PROGRAM APPLICATION UNINCORPORATED AREA OF SHASTA COUNTY

Who needs to complete this form? Property owners who elect *not* to participate in the State-sponsored debris removal program and choose to clean up their property on their own, or with a qualified contractor OR properties that do not qualify for the state debris removal program. The work must be done to standards established in ordinances and regulations so that health and safety risks are adequately addressed for the community and the environment. Documentation on adequate cleanup and proper disposal will be required to final demolition permit. State disaster assistance funding will not reimburse for work completed by the property owner or hired contractor.

Where do I submit this form? Submit this form to the Shasta County Building Division as applicable, with Demolition Permit Application.

Property Owner Name: _____ Phone(s): _____

Property Address: _____ City: _____

Assessor's Parcel Number (APN): _____ Email: _____

Mailing Address: _____ City: _____ State: _____ ZIP: _____

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

A. Program Participation

Who will perform the debris removal? Owner Licensed Contractor

If hiring a contractor, please provide the following:

Name of Contractor: _____

License Number: _____

Proposed Start Date: _____

Required: A work plan approval by Environmental Health is required prior to starting debris cleanup.

B. Property Owner Acceptance

I have read and will fully comply, as will any contractor working on my property, with the conditions described in the document "**Management of Carr Fire Debris**" and approved work plan. I understand the ash and debris contain hazardous substances and can be a health hazard. I understand the ash and debris shall be wetted down prior to removal and dust shall be controlled. The ash and debris shall also be completely encapsulated with a tarp ("burrito wrap" method) prior to transportation for proper disposal. I understand that soil samples shall be collected and submitted along with the Debris Removal Clean-up Certification in order to self-certify the project was completed.

Property Owner Signature (Required) _____ Date: _____

Contractor Signature _____ Date: _____

Shasta County Receipt _____ Date: _____

DEMO PERMIT # _____ Issue Date: _____ Final Date: _____



MANAGEMENT OF CARR FIRE DEBRIS

To ensure safety to workers, the public, and the environment, certain protocols must be followed during a wildfire disaster when removing structural ash and debris from a fire. There are **two ways** to manage the debris and ash resulting from the wildfire disaster. A residential property owner may elect to participate in the Cal OES Consolidated Debris Removal Program or may elect to complete the property remediation and debris removal themselves.

Owners Who Choose Not to Participate in the State Sponsored Consolidated Debris Removal Program

If property owners elect not to participate in the Consolidated Debris Removal Program, the property owners are still required to remediate the property and remove the burn debris at their own expense, comply with all applicable requirements, and do so in a timely manner. The property owners will not be reimbursed with public funds for the remediation and debris removal. The property owners may complete the remediation and debris removal themselves or through a qualified contractor. Due to the Proclamation of a Local Health Emergency by the County Health Officer, the work must be completed in a manner that ensures the protection of public health and safety. Even if you choose to not participate in the Consolidated Debris Removal Program the California Department of Toxic Substances Control (DTSC) and its contractors are still authorized and required to access your property to remove hazardous wastes as part of Phase 1 of the Cal OES Program (for more information go to shastareddingrecovers.org and the Debris Removal tab).

Property owners opting out of the Consolidated Debris Removal Program must submit the Alternative Fire Debris Removal Program Application and work plan to the County or City for approval at least two weeks prior to commencing debris removal, though debris removal may begin as soon as the application and work plan have been approved and a demolition permit has been issued. The governing boards of the County and City will issue a deadline for submittal of the Alternative Fire Debris Removal Program Application and work plan. After implementation of the approved work plan, the owner must submit a certification showing that all work has been completed as specified. The work must be completed pursuant to standards set forth by the County, City and State. These standards are established to ensure protection of public health and are the same standards applicable to the Consolidated Debris Removal Program. Documentation of adequate clean-up and proper disposal will be required. Property owners shall review all requirements thoroughly before planning or pursuing their own debris removal. Property owners will not be allowed to build on their property until there is a certification of completion of the property cleanup and removal of all hazardous waste has been completed in accordance with applicable standards.

A summary of the protocols and requirements is below:

Clean-Up Operations	Clean-Up Protocols
Work Plan	<ul style="list-style-type: none">• Create a work plan that provides for site protocols listed below including (but not limited to) testing and analysis, hazardous waste and asbestos removal, debris removal, erosion control, soil grading, and confirmation sampling.
Site preparation/documentation	<ul style="list-style-type: none">• Measure and record foundation and clean-up area (square footage of ash footprint)• Notify appropriate entities of clean-up, such as local utilities and USA Underground.
Application Process	<ul style="list-style-type: none">• Owner or contractor must submit a demolition permit application and the Alternative Fire Debris Removal Program Application and work plan to the County or City.• The demolition permit cannot be issued until DTSC and its contractors have completed the hazardous waste and asbestos assessment and removal and the Alternative Fire Debris Removal Program Application and work plan have been approved.
Asbestos Assessment and Removal	<ul style="list-style-type: none">• The property owner shall hire a Certified Asbestos Consultant to do additional testing at the property and properly remove and dispose of any remaining asbestos. The DTSC and its contractor may not remove all asbestos from the property. They will remove asbestos-containing materials which are easily identifiable and removable. Materials that are believed to be asbestos-containing which are not removed will be

	marked by DTSC and its contractor. Asbestos-containing materials shall be properly assessed and removed by a Certified Asbestos Contractor.
Hazardous Waste Removal	<ul style="list-style-type: none"> • All Hazardous Waste and Household Hazardous Waste shall be identified and either taken to the City of Redding Household Hazardous Waste Collection Facility or removed by a Certified Hazardous Materials Contractor. DTSC and its contractor will remove any hazardous materials and hazardous wastes that they find during their assessment but may not find all hazardous materials that may be present.
Debris Removal	<ul style="list-style-type: none"> • Remove ash and debris, metals and concrete from site and dispose of properly. • Recycle metals and concrete if possible. • Waste shall be disposed of at an approved location.
Air Monitoring	<ul style="list-style-type: none"> • Fugitive Dust – Dust is a significant concern and adequate dust control measures shall be taken at all times, such as water applied to burn ash materials, most importantly during owner or contractor disturbance and loading. Fire debris and ash shall be properly contained during transport to prevent escape. Shasta County Air Quality Management District is requiring a “zero-dust” policy for all contractors performing fire debris removal. • Site must be visually monitored for fugitive dust. • If recommended by a Certified Asbestos Consultant (CAC), a site shall be air monitored for asbestos during debris removal activities. • Provide air monitoring results at final certification, if it was required.
Foundations	<ul style="list-style-type: none"> • Completely remove and dispose of foundation; or • Submit a letter from a Licensed Civil or Structural Engineer certifying the foundation is acceptable for rebuild. The letter shall certify structural reasons for their decision and include process and procedure used to reach the conclusion.
Soil Grading	<ul style="list-style-type: none"> • Because of the potential for contamination of the soil from the fire debris and ash it is recommended that 3 to 6 inches of soil be removed from the impacted area after the burn ash and debris is removed to a level of visually clean. This soil can be taken to the landfill. Care shall be taken during transport of the material, as with the fire debris and ash, to prevent this material from blowing out of transport vessel during transport.
Confirmation Sampling	<ul style="list-style-type: none"> • Soil sampling is to be completed by a qualified individual and samples shall be collected from 0-3 inches for confirmation sampling. Results must be at or below clean-up goals as established. See additional information below regarding soil sampling.
Appliance and Vehicle Recycling	<ul style="list-style-type: none"> • Appliances and vehicles shall be handled properly to meet the requirements of metals recycling facilities. Any remaining hazardous materials shall be managed properly, such as car batteries. Vehicle Identification numbers shall be documented.
Erosion Control	<ul style="list-style-type: none"> • Adequate erosion control measures shall be put in place at the end of the debris removal process. The City of County may inspect the site to ensure that this has been completed properly.

Owners Who Fail to Adequately Remove Debris from Their Property

Due to the public health dangers to the community, owners who choose not to participate in the Consolidated Debris Removal Program and who do not accomplish an adequate clean-up through the Alternative Fire Debris Removal Program will have the wildfire debris inspected by the County or City, and be subject to the County or City taking remedial action that may include, but not be limited to, hazard removal and/or relocation, clean-up, site evaluation, soil testing, and/or chemical analysis. All County and City expenses incurred for such inspection and mitigation, including but not limited to, contract work, staff time, and administration, are subject to full cost recovery from the owner with a lien recorded on the property. A deadline for completing an adequate clean-up through the Alternative Fire Debris Removal Program has yet to be determined.

Confirmation Sampling

Confirmation sampling shall be conducted by a qualified environmental consultant, professional engineer, or registered geologist with experience in soil sampling, and is to be conducted after fire-related debris has been removed from a property.

Representative soil samples shall be collected and analyzed to determine compliance with established clean-up goals. Sampling shall be per CalRecycle’s typical operations plan sampling frequencies included below. The total number of samples to be collected is based on estimated square footage of ash footprint as follows:

Estimated Square Footage of Ash Footprint (Decision Unit)	Number of 5-Point Composite samples (ft² of each area sampled is total ft² 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

All confirmation samples should be collected from a depth of 0-3 inches using a dedicated 4-ounce plastic scoop and be mixed (homogenized) in a one gallon plastic bag before being placed in 8-ounce jars. Samples should be shipped using chain of custody to an approved laboratory for analysis by Title 22 Metals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc by EPA Method 6020. The consultant shall also collect three background samples at a depth of 3-9 inches outside the ash footprint (min 20 ft) 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 explained by your soil consultant in the final testing report. Should the confirmation results exceed the cleanup goals and are also above the site specific background a rescrape and retesting will be required.



Guidelines, Templates and Resource List for Property Owners, Contractors and Consultants

The following guidelines, templates, and resource list have been created to assist property owners, contractors and consultants through the clean-up process. While the templates presented here are optional, it is highly encouraged that the organizational processes outlined are followed to facilitate an expedient review and approval of work plans and reports such that a Property Clean-Up Completion Certification can be issued to start the rebuilding process.

Guidelines/Templates/Resource Summary

Appendix A	Work Plan Outline/Contents
Appendix B	Final Report Checklist/Contents
Appendix C	Solid Waste Disposal Site List/Recycling Resource List
Appendix D	Certified Asbestos Contractor List
Appendix E	Template Work Plan
Appendix F	Clean-up Completion Certification

Work Plans and Reports Outline/Contents

Please be advised it is the intent of Work Plans and Reports to provide working guidance such that no steps are missed in the clean-up process that might unduly burden property owners in having to perform additional or unnecessary work that may have been identified at the early stages of the project clean-up.

Included as **Appendix A and B** to this document please find general work plan and report format outlines that will assist in the timely review of submitted documents. **Appendix E** includes a standard work plan template that can be used to ensure that a comprehensive work plan is submitted, although site-specific details are required.

Debris Removal Requirements to Solid Waste Disposal Facilities

As a general note, sites that the California Department of Toxic Substances Control (DTSC) has flagged as potentially not cleared of household hazardous waste (HHW) shall be appropriately addressed within the work plan for debris characterization, removal and disposal. Fire debris/ash at a minimum shall be disposed of at a Class III disposal facility with a liner approved by the Regional Water Control Board to accept the waste. Any debris characterization requirements of the disposal site shall be met before transportation to such site. An approved hauler appropriately licensed for the material transported will need to perform such work, and the material must be wetted and "burrito wrapped" (CalRecycle protocol) and tarped for transport and ultimate disposal. Contractors/haulers failing to adhere to this standard may have their material rejected at the disposal facility and/or a fine imposed.

Asbestos transport and disposal shall be disposed of at a facility permitted to accept such waste. Best management practices shall be established in such handling and disposal (work plan should have provisions outlined where asbestos is encountered), and a hauler appropriately licensed for the material transported will need to perform such work.

Transport and Disposal documentation for generated debris removal shall be retained and included with your Alternative Fire Debris Removal Program Clean-up Completion Certification submittal. Included as **Appendix C**, is a preliminary list of disposal and recycling facilities.

Dust Control

- Property owners or their contractors must provide 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. **Shasta County Air Quality Management District is requiring a “zero-dust” policy for all contractors performing fire debris removal.**
- Each area of ash and debris to be removed must be pre-watered 48 to 72 hours in advance of the removal. Hoses with a fine spray nozzle are recommended. 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.
- All loads shall be covered with a tarp; this includes metal debris. Ash and debris loads shall be fully encapsulated with 10-millimeter 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.
- All waste material that is not unloaded at the end of each workday should be consolidated, sufficiently wetted, and/or covered to prevent the offsite migration of contaminants.
- All visibly dry disturbed soil surface areas of operation should be watered to minimize dust emissions during performance of work.
- Speeds must be reduced when driving on unpaved roadways.
- Procedures must 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.

Vehicle and Road Safety

If removal activities on property owners’ parcels will create a roadway blockage or hinder traffic patterns, property owners or their contractors are responsible for obtaining any required local permits and shall post all warning signs, as required by local ordinances. As there may be many contractors actively working on remediation efforts in the burn area, it is in property owners’ best interests to identify removal and remediation efforts in adjacent areas that could impact the ability to locate, park, or transport equipment and materials.

Soil Testing and Screening Criteria for Work Plans and subsequent Report of Findings

Initial Screening Criteria have been established in consultation with CalRecycle for soil confirmation sampling after completion of visible clean-up of properties. Please note, that these are initial health screening criteria in the absence of background data. If cleanup is completed before CalRecycle completes its background sampling then background samples on your property, outside the ash footprint (min 20 ft), must be taken 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 shall be explained by your soil consultant in the final testing report.

Testing of metals must be performed by EPA Lab Method 6020.

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

General Recycling and Testing Guidelines

Included as **Appendix C** is a resource list for general recycling of concrete and metals. Please note, this list is provided as a courtesy and information contained herein should be verified by the property owner/ contractor / consultant before taking material to the vendors listed. This list is not complete. Additionally, for concrete transport and disposal, disposal may be limited due to the potential presence of asbestos. As such testing is recommended before transport and disposal and acceptance criteria should be verified with potential processors.

Well and Septic Guidelines

Well Safety

- Contact Shasta County Environmental Health Division at 530-225-5787 for water safety questions, well location, and to obtain information on well repair permits. Contact your water service provider if you are not on a well. If you will be rewiring electrical lines to your well a permit from Building Division may be required.
- Identify wells and water tanks on the property and take steps to protect them during debris removal

Septic Systems

- Contact the Shasta County Environmental Health Division at 530-225-5787 for questions regarding your system location.
- Identify septic tank and leach field locations and take steps to protect them during debris removal.

Any immediate hazard involving the septic tank or septic system shall be mitigated prior to debris removal.

Grading and Erosion Control

Once grading has been completed, best management practices (BMPs) shall be implemented to establish erosion control at the disturbed site.

- Follow best management erosion and sediment control practices (BMPs) to prevent ash, soil, and other pollutants from washing into the street, drainage courses and culverts, or onto neighboring properties.
- 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, or sandbag barriers. A soil stabilization measure may be used in lieu of cover.
- Implement appropriate erosion control measures during debris removal and provide final site stabilization after debris removal is completed.

Foundations, Slabs, and Foundation systems

Foundations and slabs are required to be included as part of the fire debris removed from a site. In general, the structural integrity of concrete and masonry (CMU) 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 rendering it unsatisfactory for reuse in supporting a rebuilt structure. There are a number of test and standards for evaluating the compressive strength of the concrete or masonry, including ASTM C39 and ASTM C140, which involve taking core samples from foundations and doing a compressive test in a certified lab. Homeowners interested in pursuing an exception and retaining their foundation shall submit a letter from a Licensed Civil or Structural Engineer certifying the foundation is acceptable for rebuild. The letter shall state reasons for their decision. Approval for reuse of the foundation is required by the Shasta County or City of Redding Building Division. Homeowners and contractors shall follow the CalRecycle Operational Guidance: Damaged Concrete at Wildland Urban Interface Fires. Visit www.ehd.co.shasta.ca.us for a copy.

Appendix A

Work Plan Outline/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 Scope 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**

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. swimming pools, large vehicles)

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 and/or 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 City/County Building Division – Demolition Permit

1.4.3 Shasta County Environmental Health Division or City of Redding Building– Alternative Fire Debris Removal Program Application and Work Plan approval

1.4.4 Acceptable hours of operation: 7:00 am to 7:00 pm Monday-Friday, 8:00 am to 6:00 pm Saturday, No Operations on Sunday and Holidays

2.0 Background Site Assessment

2.1 Site Testing and Analysis Plan (Asbestos and Soil)

- Conduct surveys to identify, sample, and analyze results for suspected gross asbestos containing**

materials (ACM) including concrete foundations and mortar

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

3.0 Hazardous Waste and Asbestos Removal

3.1 Hazardous Waste and Household Hazardous Waste Removal

3.2 Asbestos Removal

Initiate air monitoring protocol and fugitive dust controls

3.3 Air Monitoring Protocols for Fugitive Dust Control

4.0 Debris Removal and Disposal / Recycling

4.1 Ash, Fire Debris and Soil

Collect, consolidate, and remove ash, debris and soil for disposal

Name of Disposal Facility

4.2 Metals Including Vehicles and Appliances

Remove vehicles for recycling or disposal

Name of Recycling Facility

Provide VIN

Collect, and remove metals for recycling

Name of Recycling Facility

Disposal Site

4.3 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 documents and receipts shall be retained for final report

5.0 Soil Grading and Erosion Control

5.1 Description of Grading Activities

Finish grading/smoothing ground surface

5.2 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

6.0 Confirmation Sampling

Prepare a site diagram or sketch that includes the anticipated soil sample locations

Sample and analyze soil

Compare soil analytical results to State clean-up goals

If results exceed State clean-up goals, another layer of soil must be removed, and confirmation samples must be collected.

Acknowledge preparation of a site-specific final report per Appendix B for delivery to the City/County with the Alternative Fire Debris Removal Program Clean-Up Completion Certification Form

7.0 Attachments (If applicable):

- Vicinity Map
- Plan Maps including former structure and burn debris footprint
- Photographs
- Laboratory Test Results
- Auto VIN Identification Verification.

Appendix B

Final Report Outline/Contents

Index of Final Report Contents:

- Section 1: Property Information (Assessor's Parcel Number, Contacts for Owner/Contractor(s)/Consultants)
- Section 2: Description of work performed:
 - 2A Site Testing and Analyses, description and summary of results (Asbestos and Soil)
 - 2B Air Monitoring Protocols for Fugitive Dust Implementation
 - 2C Hazardous Waste and Asbestos Removal Documentation, including disposal receipts
 - 2D Debris Removal Documentation, including disposal receipts
 - 2E Soil Grading / Removal to level of visually clean
 - 2F Foundations (Removal or Engineer's Certification for Potential Reuse)
 - 2G Confirmation Sampling Results Discussion
 - 2H Documentation of Appliance and Vehicle Recycling or Disposal
 - 2I Documentation of work related to Well and Septic
- Section 3: Vicinity Map, Plot Plan and Drawings
- Section 4: Analytical Table with results compared with State Health Screening Criteria
- Section 5: Certified Laboratory Reports

Appendix C

Solid Waste Disposal & Recycling Facilities

DISPOSAL SITES WITHIN 50 MILE RADIUS FROM CITY OF REDDING				
Facility Site Name	Address	City	Phone	Accepts Asbestos*
Anderson Landfill	18703 Cambridge Rd	Anderson	(530) 347-5236	Non-Friable
West Central Landfill	14095 Clear Creek Rd	Igo	(530) 396-2555	Non-Friable

MATERIAL RECOVERY FACILITY / TRANSFER STATIONS				
Facility Site Name	Address	City	Phone	Types
Northstate Recycling	2041 Girvan Rd	Redding	(530) 243-4780	Scrap metal/Appliances
City of Redding Materials Recovery/Household Hazardous Waste (HHW) Facility	2255 Abernathy Ln.	Redding	(530) 224-6209	Scrap Metal/ Appliances/HHW from homeowners

*Note: Hay Road Landfill at 6426 Hay Rd, in Vacaville accepts friable asbestos. (707) 678-4718

Concrete/Asphalt

This list is not complete and other companies in the area may take concrete/asphalt waste

Facility Name	Facility Address/Phone	Materials Accepted
Northstate Asphalt	16939 Clear Creek Rd, Redding/ 530-241-5983	Concrete/Asphalt
West Central Landfill	14095 Clear Creek Rd, Igo/ (530) 396-2555	Concrete/Asphalt
Eddie Axner Construction	17091 Clear Creek Rd, Redding/ (530) 221-2103	Concrete/Asphalt
Anderson Landfill	18703 Cambridge Rd, Anderson/ (530) 347-5236	Concrete/Asphalt
J.F. Shea dba Aggregate Products	17400 Clear Creek Rd, Redding/ (530) 246-4292	Concrete/Asphalt

Appendix D

Asbestos and Hazardous Waste Service Providers

The following information regarding companies that provide asbestos and hazardous waste services is provided to assist victims of recent wildfires to clean up their properties. Shasta County Environmental Health Division does not recommend or endorse individual service providers, and cannot guarantee their services.

Burn sites should 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 listed consultants 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.

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 Info@BensTruck.org	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) 632-6800	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
Clay Guzi, Guzi-West Inspection and Consulting (A) 19749 Sweetwater Trail Redding, CA 96003 (530) 515-0922 www.guziwest.com	

This list 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 (see Search function at the bottom of the web page). Additional hazardous waste removal companies are listed in the Yellow Pages telephone directory under "Hazardous Material Control & Removal". Please check the California Contractor's License Board's website at www.cslb.ca.gov 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 E
Template Work Plan



Alternative Fire Debris Removal Program **Standard Work Plan Template**

To ensure safety to workers, the public, and the environment, certain protocols must be followed during a wildfire disaster when removing structural ash and debris left from the Carr Fire. The City and County are offering two ways for property owners to manage the fire debris and ash from the wildfire disaster, 1) participate in the State-sponsored Consolidated Debris Removal Program or 2) submit the Alternative Fire Debris Removal Program Application and Work Plan to the Shasta County Environmental Health Division or the City of Redding Building Division.

Property owners who choose not to participate in the State-sponsored Consolidated Debris Removal Program (or are not eligible) will need to submit the Alternative Fire Debris Removal Program Application, Work Plan and demolition permit application to the City or County for approval at least two weeks prior to commencing debris removal. Debris removal may begin when application and work plan are approved and demolition permit has been issued.

Debris removal must be completed as required by Shasta County Ordinance 743 or City of Redding Ordinance 2592 and adhere to the ash and fire debris removal protocols and standards set forth by the City, County and State. These standards are established to ensure protection of public health and are the same standards applicable to the State-sponsored Consolidated Debris Removal Program. This document is a standard work plan template for the Alternative Fire Debris Removal Program work plan.

Complete and submit both this standard work plan and the Alternative Fire Debris Removal Program Application to the Shasta County Environmental Health Division located at 1855 Placer St, Ste. 201, Redding, CA 96001 for properties in the county, and to the City of Redding Building Division at 777 Cypress Ave, Redding, CA 96002 for properties located in the City of Redding.

Contact Shasta County Environmental Health Division at (530) 225-5787 or City of Redding Building Division at (530) 225-4013 with any questions regarding the Alternative Fire Debris Removal Program.

1.0 Project Overview

1.1 Property Information and Property Owner Contacts		
Property Owner Name:		
Property Address:	City:	Zip:
Assessor's Parcel Number (APN):		
Phone(s):	Email:	
Mailing Address:	City:	Zip:

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

1.3 Scope of Work:
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:

1.4 REQUIRED Notifications / Permits / Hours of Operation

The following notifications will be made, permits obtained and hours of operation adhered to:

Underground Service Alert (USA) – Call 811 Dig Alert prior to digging.

Shasta County Building Division
1855 Placer St, Redding CA 96001
(530) 225-5761

Demolition Permit Required

City of Redding Building Division
777 Cypress Ave, Redding, CA 96001
(530) 225-4013

Demolition Permit Required

Applicant Hours of Operation

7:00 AM to 7:00 PM Monday thru Friday
8:00 AM to 6:00 PM Saturday
No Operations on Sunday and Holidays

2.0 Background Site Assessment

2.1 Site Testing and Analysis Plan (Asbestos and Soil)

A certified asbestos consultant and soil consultant will be hired to test the site. Site testing and analysis for asbestos and soil will be addressed in the following manner:

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 City or County Building Division is required.

Structural foundations on the property will be addressed in the following manner:

3.0 Hazardous Waste and Asbestos Removal

During Phase One of Consolidated Fire Debris Removal, teams of County staff and experts from the California Department of Toxic Substances Control (DTSC) inspected the property and removed any identifiable and accessible household hazardous waste that may pose a threat to human health, animals, and the environment such as batteries, oil, propane tanks, visible bulk asbestos, and paints. However, some hazardous materials and/or asbestos or asbestos containing materials (ACM) may still be present on the property and pose a threat to public health and the environment. Proper protection should be worn when handling, sorting, and transporting these materials (sturdy footwear, gloves, respiratory protection).

3.1 Hazardous Waste and Household Hazardous Waste Removal

All remaining hazardous waste and household hazardous waste (HHW) shall be identified and disposed by a certified hazardous waste contractor. Homeowners may be allowed to transport HHW themselves to the local HHW collection facility if the waste will be accepted by that facility and transportation requirements are met. Contact the local HHW collection facility at (530) 224-6209 for more information. Household hazardous wastes (batteries, propane tanks, paint, gasoline cans, cleaning products, pesticides, fluorescent light bulbs, etc.) must be identified, segregated, and disposed of properly.

Hazardous Waste Handling and Removal Procedures
Certified Hazardous Materials/Waste Contractor
Name: License No.:
Disposal and/or Recycling Facility(s)

3.2 Asbestos Removal

Asbestos or ACM requires assessment by a Certified Asbestos Consultant. **This must be completed for all properties opting out of the State Debris Removal 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 10-mil poly in such a way that once loaded both layers can be sealed up independently (“burrito-wrap method”).

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

3.3 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. **Shasta County Air Quality Management District is requiring a “zero-dust” policy for all contractors performing fire debris removal.** 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 10-millimeter 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:

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4.0 Ash, Debris and Soil 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. Vehicle Identification Numbers shall be documented. All waste shall be disposed of at an approved location from the list provided, or at other locations authorized to accept such waste. (See Appendices C in Guidelines, Templates and Resource List for Property Owners, Contractors and Consultants). Debris shall be handled in the following manner:

4.1 Ash, Fire Debris and Soil
4.2 Metals Including Vehicles and Appliances
4.3 Concrete, Brick & Masonry

5.0 Soil Grading and Erosion Control

5.1 Description of Grading

Remove 3 to 6 inches of soil from the impacted area after burn ash and debris is removed to a level of visually clean. Soil shall be properly disposed of as described in 4.1 above.

5.2 Description of Erosion Controls

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. Erosion and sediment stabilization practices will be implemented to keep sediment and debris from impacting homes. Erosion and sediment stabilization techniques to be used are listed below and are consistent with recognized Best Management Practices and outlined in the *Guidelines, Templates, and Resource List* provided.

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6.0 Confirmation Sampling

Initial Screening Criteria and protocols have been established in consultation with CalRecycle for soil confirmation sampling after completion of visible cleanup of properties. These are initial health screening criteria in the absence of background data. Testing of metals must be performed by EPA Lab Method 6020. A qualified soil consultant shall collect soil samples from a depth of 0-3 inches for confirmation sampling and compare results to clean-up goals. Three samples shall be taken at a depth of 3-9 inches outside the ash footprint (20 ft min) 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 explained by your soil consultant in the final testing report. **Attach a sketch showing the ash footprint and anticipated soil sample locations.**

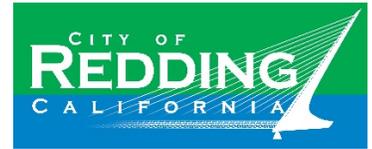
Soil Consultant Collecting Samples
Name: License No.
State-certified Laboratory
Name: Phone:

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

Final Report

After implementation of the approved work plan, the Alternative Fire Debris Removal Program Clean-up Completion Certification, along with a Final Report shall be submitted to either the Shasta County Environmental Health Division or City of Redding Building Division. Information and documentation included in the Final Report will follow the outline provided in Appendix B of the Guidelines, Templates and Resource List for Property Owners, Contractors and Consultants.

7.0 Attachments (Vicinity Map, Plan Maps, Photographs, Drawings, Laboratory Test Results, Etc.)



APPENDIX F

ALTERNATIVE FIRE DEBRIS REMOVAL PROGRAM CLEAN-UP COMPLETION CERTIFICATION

What is the purpose of this form? The purpose of this form is to certify that your parcel has been properly cleaned up and the removal of hazardous wastes, ash, and debris has been completed. This form will be used to certify property owner or contractor cleanup completion so that the demolition permit can be finalized.

Who needs to complete this form? Property owners who elect *not* to participate in the State-sponsored debris removal program and choose to clean-up their property on their own or with a qualified contractor.

Property Owner Name: _____ Year Structure Built: _____

Property Address: _____ City: _____

Assessor's Parcel Number (APN): _____ Email: _____

Mailing Address: _____

Mailing City: _____ State: _____ ZIP: _____

A. Program Participation

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

B. Household Hazardous Waste and Asbestos Screening and Disposal

1. Household Hazardous Waste Removal

Description of found wastes onsite: _____

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

2. 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 asbestos waste disposal receipts.**

C. Ash, Debris and Soil Disposal

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

Contractor/Hauler Name: _____ Phone(s): _____

Address: _____ City: _____

License Number: _____ License Type: _____

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

Facility Name: _____

Date(s) of Delivery: _____

Date of Completion: _____ (attach disposal facility documentation)

Facility Name: _____

Date(s) of Delivery: _____

Date of Completion: _____ (attach disposal receipt documentation)

D. Metal Recycling

1. The metal was removed and disposed of by: Licensed contractor Hauler

Contractor/Hauler Name: _____ License Number: _____

Address: _____ Telephone: _____

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

E. Inert Waste (Concrete and Masonry) Disposal

1. The inert waste was removed and disposed of by: Licensed contractor Hauler/Myself

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

Contractor Name: _____ License Number: _____

Address: _____ Telephone: _____

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)

F. 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.

G. 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 2018 Carr Fire on my property and identified in this document have been identified, removed and properly disposed of or recycled. I understand that since clean-up of the property was performed under my direction, the County of Shasta (County) and City of Redding (City) cannot certify that clean-up was adequate until I submit proof of clean-up and soil testing.

I agree to accept all responsibility for loss or damage to any person or entity, including County of Shasta and the City of Redding, and to defend and indemnify, hold harmless, and release County and City, 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: _____

City/County Receipt: _____ Date: _____