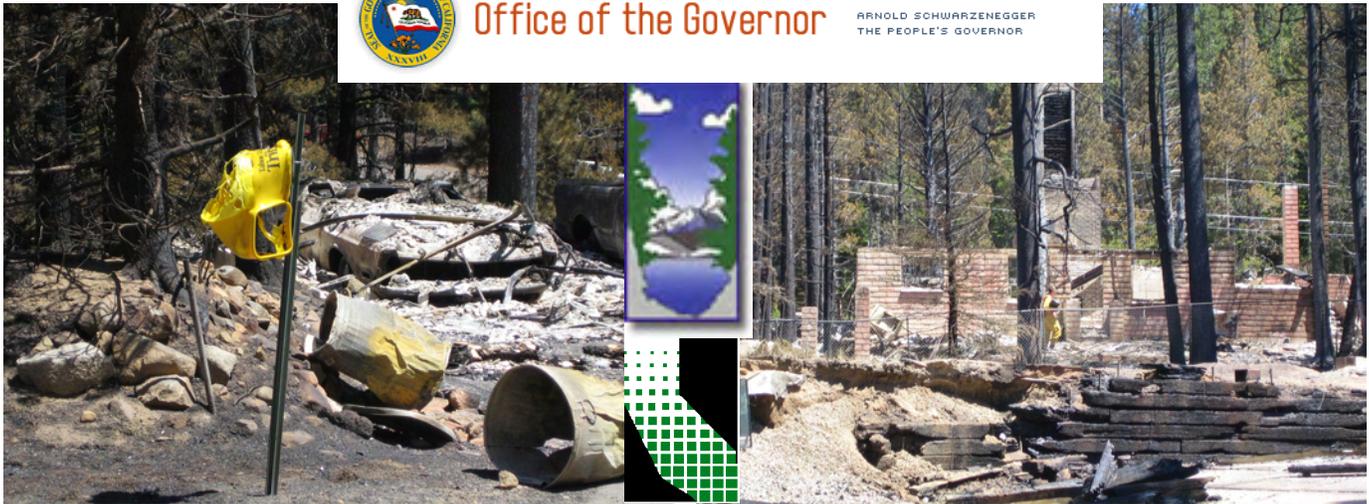




Office of the Governor

ARNOLD SCHWARZENEGGER
THE PEOPLE'S GOVERNOR



INTERIM FINAL SCOPE OF WORK AND PROJECT SPECIFICATIONS

FOR THE

ANGORA FIRE STRUCTURAL DEBRIS REMOVAL LAKE TAHOE, CALIFORNIA

September 15, 2007

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Version 2.9 – State Sponsored Contractor Scope of Work

SUMMARY

Per the Executive Order S-09-07, Office of the Governor of the State of California, the California Integrated Waste Management Board (CIWMB) staff has prepared this structural debris removal report for the County of El Dorado, Environmental Management, and CIWMB's removal contractor. This document is the first of two documents that treat the removal of the structural debris as a single organized project. A separate but similar document will be prepared for home owners who decide to opt out of the state sponsored cleanup process and perform the structure debris removal on their own. Additionally this document will be considered an interim report until all the supporting documents, which include, but are not limited to, the site specific health and safety plan, community safety plan, confirmation sampling plan are prepared by CIWMB consultant. A final scope of work will be prepared after the completion of the project to encompass the lessons learned at the Angora Structural Debris Removal.

The following document was compiled after a field assessment of the destroyed structures at the Angora Fire, personal experience and knowledge of previous debris removal projects, structure fires, and waste management practices in the United States and abroad. Prior fire experience for Mr. Todd Thalhamer includes daily observations and inspections, direct management of emergency resources and personnel, evaluation of suppression tactics, assessment of environmental impacts, design of environmental remediations, and evaluation of potential impacts from waste fires.

The findings, information, and professional opinions are presented in accordance with generally accepted professional engineering methods and waste management strategies and are limited to the Angora Fire Area. Any questions or comments concerning this report should be referred to Mr. Todd Thalhamer at 916.798.5464 (cell) or by e-mail at tthalhamer@ciwmb.ca.gov. Mr. Thalhamer is a registered Professional Engineer in the State of California and his license number is C055197.

Mr. Thalhamer has prepared this report and his seal as a Registered Civil Engineer in the State of California is affixed below.



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- Appendix A. Office of the Governor, Executive Order S-09-07
- Appendix B. Right-Of-Entry Permit for Debris Removal on Private Property
- Appendix C. Work Zones for the Angora Debris Removal
- Appendix D. Angora Structural Debris Removal Forms
- Appendix E. Property Assessment Form

1 Introduction

On July 2, 2007, the Governor of the State of California, Arnold Schwarzenegger, issued executive order S-09-07, which declared a state of emergency in El Dorado County as a result of a wildfire (See Attachment A). This order stated that all State agencies with responsibility, regulatory authority or expertise related to recovery efforts in connection with the Angora fire shall cooperate fully and act expeditiously in coordination with the California Resources and Environmental Protection Agencies (Cal/EPA), to facilitate the mitigation of the effects of the fire and the environmental restoration of the Tahoe Basin

The order also states the following:

statutes, rules and regulations, as they apply to the removal, storage, transportation and disposal of hazardous and non-hazardous debris resulting from the fire and other requirements related to necessary restoration and related activities (including, but not limited to, solid waste facility permit requirements and conditions, waste discharge requirements for the storage and disposal of fire-related debris, waste discharge requirements for discharges of waste associated with emergency timber harvesting, prohibitions against discharges or threatened discharges of waste in stream environment zones, waste discharge requirements for emergency construction activities, waste discharge requirements and/or Water Quality Certification for discharges of fill material or pollutants) are hereby suspended to the extent necessary for expediting the removal and cleanup of debris from the fire, and for implementing the Angora Fire Resource Damage Assessment and Restoration Plan. The Secretaries for Environmental Protection and Resources shall use sound discretion in applying this suspension to ensure that the suspension of statutes, rules and regulations serves the purpose of accelerating the cleanup and mitigation of environmental harm, and the restoration of infrastructure damaged in the Angora fire while protecting public health and the environment, and shall maintain a public list of all such waivers and suspensions prominently on their websites. To the extent that it is within their administrative authority and discretion, the boards, departments and offices within the California Environmental Protection Agency shall expedite the granting of other authorizations, waivers or permits necessary for the removal, storage, transportation and disposal of hazardous and non-hazardous debris resulting from the fire, and for other actions necessary for the protection of public health and the environment.

Additionally the order stated that State agencies shall work with local officials to design and implement a comprehensive structural debris removal plan that will treat the removal of structural debris as a single organized project.

The objective of this document is to meet the above requirements and design a comprehensive structural debris removal plan. This document will be for the state

sponsored debris removal and a second document will be prepared for the private land owner who elects not to participate in the state sponsored debris removal. Both documents will require removal contractors to follow a set of specifications to mitigate known hazards and conditions to limit the impacts to the surrounding public, environment, and the national treasure known as Lake Tahoe.

As part of the executive order, the Cal/EPA assigned a number of tasks to agencies and boards under the Cal/EPA umbrella. The California Integrated Waste Management Board (CIWMB) was tasked to design and implement a structural debris removal plan for the Angora Fire in Lake Tahoe, California. The CIWMB will use the Solid Waste Cleanup Program to implement and oversee the structural debris removal. The CIWMB has mobilized its environmental contractor and consultant to begin the removal process from homes sites once the Right-of-Entry Permits for debris removal on private property are signed by the individual property owners.

The CIWMB has compiled this Scope of Work (SOW) and Project Specifications for the Angora Structural Debris Removal Project (ASDRP). Information related to this project was obtained from the Office of the Governor, Angora Incident, El Dorado County, Environmental Management, a review of the San Diego 2003 fires, and past CIWMB debris removals.

The CIWMB has authorized A.J. Diani Companies (i.e., environmental cleanup CONTRACTOR) to perform the structural debris removal for the County of El Dorado. A.J Diani is a licensed general California Contractor (Lic # 178450) with the following classifications, A-General Engineering, B-General Building, C21-Building Moving, Demolition, C12-Earthwork and Paving, HAZ-Hazardous Substances Removal, ASB-Asbestos (bid only). This SOW will be provided to the County of El Dorado and other agencies for comment and review. Once comments are provided the CONTRACTOR will use this SOW for the project. The SOW presents the overall removal plan for the state sponsored cleanup. Table 1 outlines agencies and project participants and their responsibilities relative to ASDRP.

Table 1. SOW Project Responsibility

Agency/Company	Contact	Responsibility/Assistance
El Dorado County, Environmental Management	Gerri Silva Ginger Huber <i>Project Managers</i>	On-site compliance, identifying household hazardous waste, community relationships, review of confirmation sampling, and county oversight
El Dorado County, Office of Emergency Service	Officer Todd Crawford	On-site law official to coordinate with ammunitions disposal, traffic, and public safety issues. Also responsible for providing communications for the incident and logistical support
El Dorado County, Building Department	Bob Green	Identifying hazards concrete structure Issues, foundation verification
El Dorado County, Department of Transportation	Donaldo Palaroan	Establishment of erosion control devices on county roads and right-a-ways and address establishment
El Dorado County, County Counsel	Mike Ciccozzi	Legal counsel for the incident and Right-of-Entry Permit issues

Table 1 SOW Continued		
Cal/EPA - Lahontan Water Board	Robert Dodds Mike Plaziak	Local oversight and support Muilt Agency Committee lead for the structural debris removal
Cal/EPA - CIWMB	Bernie Vlach	CIWMB coordination with Cal/EPA and plan development
Cal/EPA - CIWMB, Solid Waste Cleanup Program	Wes Mindermann <i>SWCP Supervisor</i>	Implementation of a Board Item authorizing the debris removal, work orders for removal contractors, and invoicing.
Cal/EPA - CIWMB, Solid Waste Cleanup Program	Todd Thalhamer On-site Project Engineer	Oversight of project, cost control, waste removal, identifying hazards, structural hazards, and project mgmt.
Cal/EPA - Department of Toxic and Substances Control	Adam Palmer Nancy MgGee	On-site review and support of issues related to hazardous substances
Cal/EPA – Lahontan Water Board	Bob Dodds	Local oversight and support
CAL Fire	Mary Huggins <i>Project Manager</i>	Assist and encourage landowner to meet their responsibility for removing dead and dying trees.
Office of Emergency Services	Paul Jacks	Technical assistant and support with the overall plan and funding expertise the California Disaster Assistance Act
Office of Emergency Services	Melinda Stehr	Technical support for debris removal
Office of Emergency Services	JeriLyn Peterson	Technical support for the disaster
Tahoe Regional Planning Agency	Lil Foster <i>Project Manager</i>	Temporary Best Management Practices
South Lake Refuse	Jeanne Lear John Marchini	Local Waste Hauler and Disposal Consults
A. J. Diani Primary Contractor	<i>Greg Frick</i> Project Manager	Prime contractor responsible for removing structural debris and waste.
Sukut Construction	<i>Jim Hasal</i> Project Manager	Subcontractor responsible for waste removal
LFR, Inc.	<i>James Eisert</i> Project Manager	Environmental consultant responsible for field documentation, foundation verification, ash footprint, confirmation sampling, final reports
Network Environmental Systems, Inc.	<i>David Durst</i> Industrial Hygienist	Development of the Site Specific Safety Plan and Community Safety Plan
Doug Veerkamp General Engineering	<i>Heath Leshner</i> Project Manger	Providing Water Tenders and waste hauling

1.1 Site Description

Over 247 homes and 8 other structures were destroyed during the 3,100 acre Angora Fire. A potential of 75,000 cubic yards of waste and debris have been identified for removal. The sites vary in composition: some contain just foundations, ash and metal debris, while others are partially burned. This debris removal plan will cover all structural debris from the Angora Fire. The CIWMB project engineer will make the final decision on what structures and material will be removed.

1.1.1 Site Ownership

The ownership of each structural debris site varies. Legal authority to enter each site will be handled by the County of El Dorado. No work by the CONTRACTOR will begin on private property unless the property owner signs the Right-of-Entry Permit (See Appendix B). Once the forms are signed debris removal may begin.

1.2 Vicinity and Site Maps

The Angora structural removal sites are located throughout the North Upper Truckee Road, Lake Tahoe Blvd, Boulder Mountain Road, and Tahoe Mt. Road in South Lake Tahoe, California. Figure 1 and Figure 2 provide site details.

Figure 1. Site Location Map (Source Sacramento Bee, July 1, 2007)

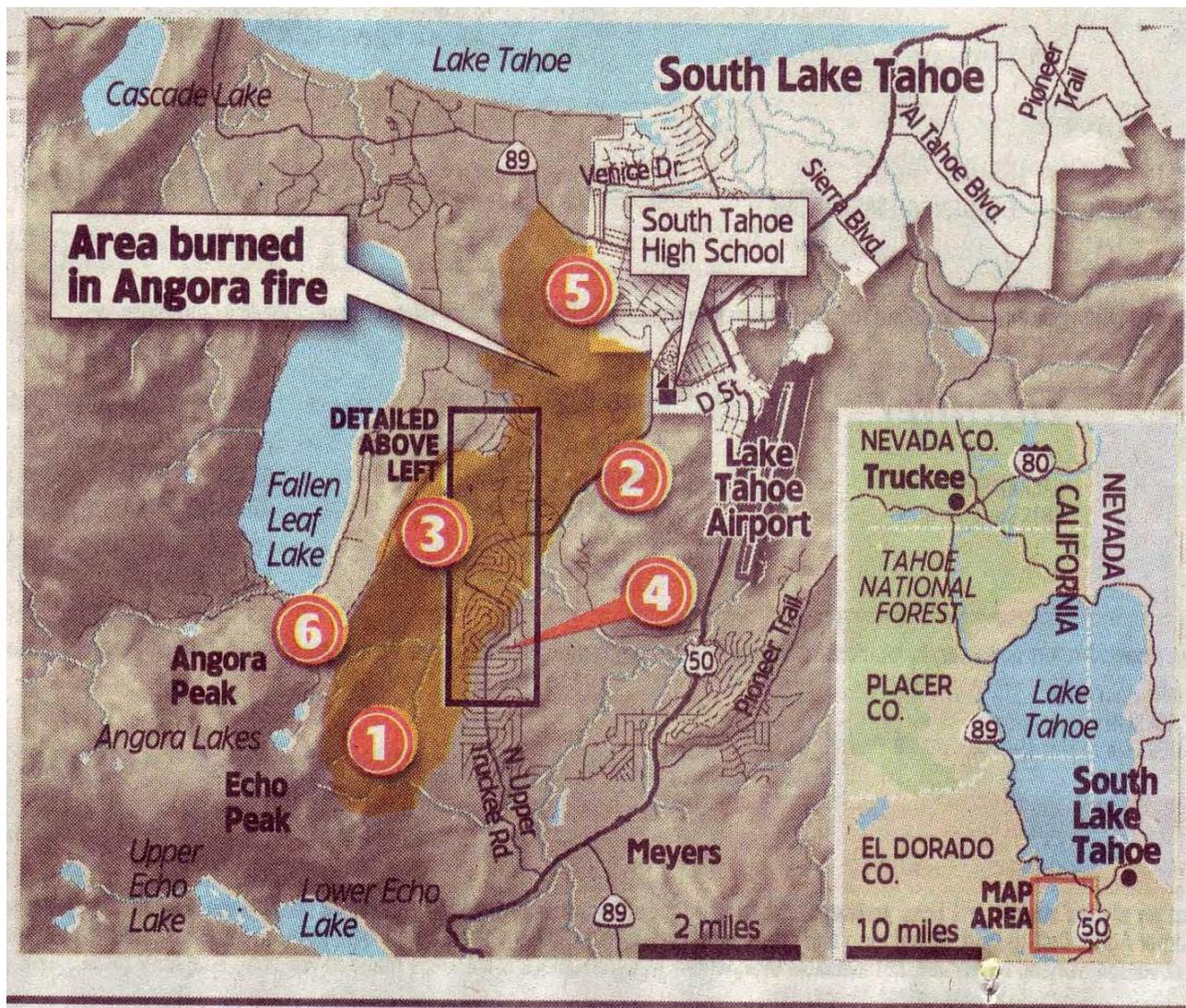
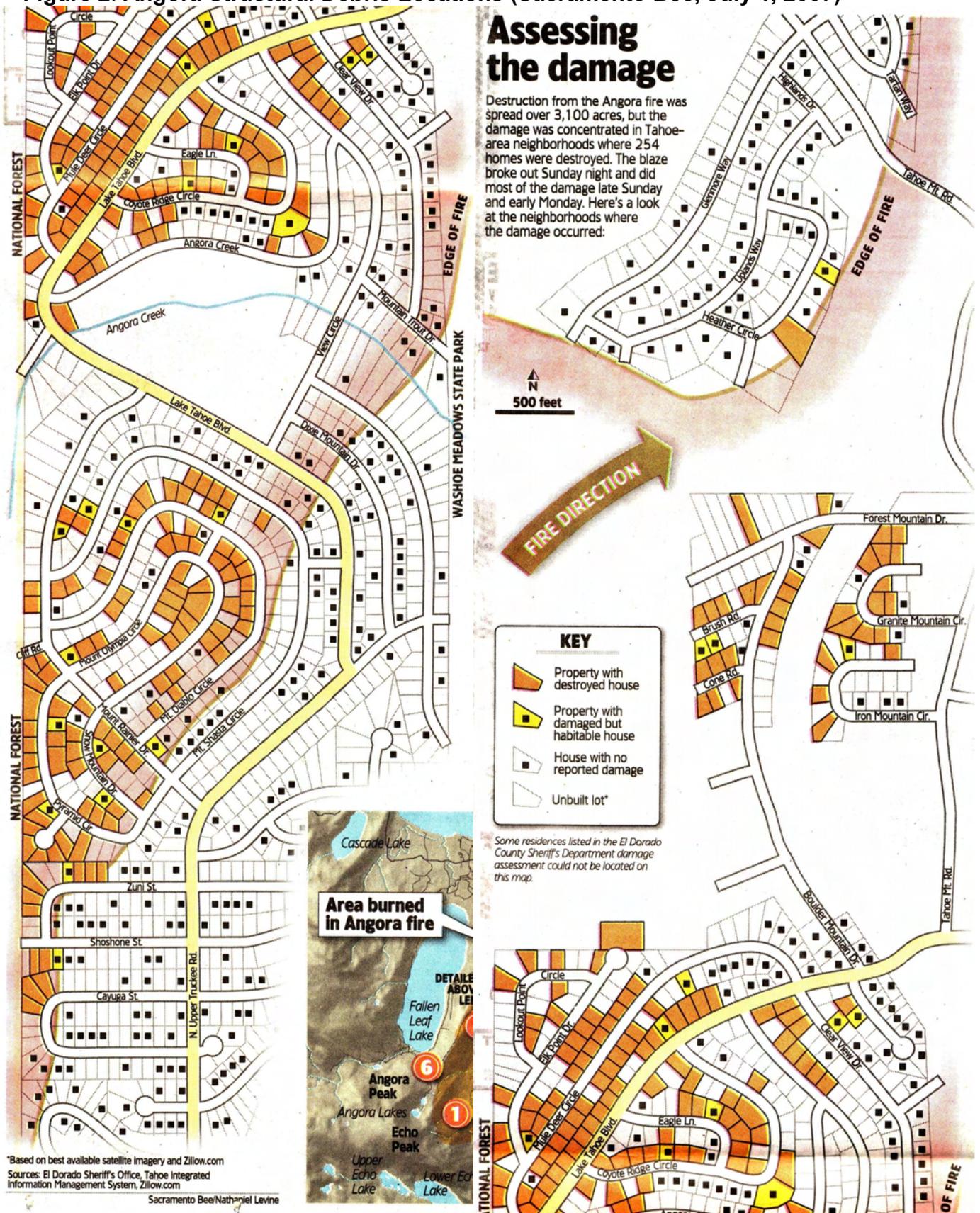


Figure 2. Angora Structural Debris Locations (Sacramento Bee, July 1, 2007)



1.3 Site Characterization

We know that ash and debris from residential structures that are consumed by wildfires contain concentrated amounts of heavy metals, such as arsenic, barium, beryllium, copper, chromium, cadmium, lead and zinc. This concentration of metals has been demonstrated in the Assessment of Burned Debris Report for the Cedar and Paradise Fires, San Diego County, California, December 2003.

Per executive order S-09-07 all the ash and debris may be transported to a local facility as long as the facility accepts the material. Also it is intended that the metal debris and concrete will be recycled to the extent as feasibly possible. Table 2 provides an estimated range of cubic yards of material per house.

Table 2. Estimated Debris per Home Site to be Transported to an Appropriate Facility

MATERIAL	Cubic Yards
Ash	10 to 50
Concrete Debris (Recycle)	20 to 50
Fire Place and Brick	5 to 50
Metal Debris (Recycle)	5 to 25
Other Debris	0 to 100

Based on a count of 258 structures destroyed and/or damaged, the volume of debris may reach as high as 75,000 cubic yards.

1.4 Removal Costs

An initial cost estimate of \$25,000 per home for removal was used. The overall structural removal project costs may reach \$7 millions dollars. Removal costs may range from \$7,500 for the smaller homes to as much as \$55,000 for large homes with substantial concrete features and foundations. Daily project costs will be tracked and at the end of the project, the removal cost will be shared by each home site. The cost per home will be based on the square footage of the foundation and associated structures and the ash footprint.

1.5 Known Hazards

Depending on how much of the structure is present, the known hazards will vary. If just ash, the removal site may contain elevated levels of heavy metals. All home sites located where there are burned trees will pose a fall hazard. All chimneys will be considered a fall hazard. There is also a physical hazard (i.e., slips, trips, falls) from exposed glass and metals and unstable chimneys. Additionally, the weather will pose potential hazards from flash floods to lightning and high winds. Other hazardous material or medical wastes may be discovered during the removal. Utilities, such as electrical, gas, cable, telephone, and sewer, are present and need to be accounted for while removing the debris.

2 Proposed Cleanup

2.1 Incident Command System (ICS)

This debris removal will use the ICS. ICS is the model management tool for command, control and coordination of all agencies and/or private companies as they work toward the common goal of removing the debris and protecting the environment. The incident will use a unified command system between El Dorado County Office of Emergency Service, El Dorado County Environmental Management, and the CIWMB.

The CIWMB will act as operations and provide the necessary contractors, resources and management to operate the debris removal operations center. The CIWMB will provide an operation chief responsible for the CIWMB's contractor. The operations chief will have a phone/radio available at all times while on-site. If the operations chief leaves DROC for a specified amount of time, a designated person will be placed in charge. The operation chief will have the following responsibilities, which include but not limited to:

- Establish debris removal protocols;
- Overall management of operational issues and concerns;
- Overall management of removal contractor resources;
- Overall management of environmental consultant and health and safety consultant;
- Review and approve debris removal sites;
- Review and approve of disposal locations
- Review and approve of all expenditures;
- Review and approve of all sampling and assessment protocols;
- Review of all safety requirements on-site ;
- Acts as a liaison with the public, media, and public officials;
- Field monitor the project
- Oversee the decontamination of all equipment, personal protective equipment, and samples from contaminated areas, when appropriate;
- Review and approve all purchases and ensures that all assigned equipment described in the safety plan is available and used as appropriate;
- Provide emergency response treatment procedures [i.e., CPR and First Aid];
- Monitor and document on-site health hazards;
- Is aware of and uses, if necessary, emergency procedures, evacuation routes, and the telephone numbers of the local hospital and police departments;
- Conduct inspections to determine if the safety plan is being implemented satisfactorily;
- Document final site conditions and note exceptions to the protocols

2.2 Scope of Work

Major items of work anticipated in this project may include but are not limited to:

- Establishing a Debris Removal Operation Center (DROC) and providing site sanitation;
- Coordinating contractor resources;
- Installing of project signs indicating removal progress;
- Removing and disposal of solid waste and demolition debris, including waste tires;
- Segregating and sorting of recyclable metal debris and delivery to recycling facilities;
- Hauling of ash debris to an appropriate facility;
- Recycling concrete debris;
- Providing traffic control signs;
- Site contouring, posting of signs, and erosion protection;
- Cost tracking;
- Installing erosion control devices; and
- Removing trees that pose a safety hazard.

Additionally the CONTRACTOR will employ independent third party consultants to provide the following services, but not limited to:

- Prepare a site specific health and safety plan;
- Prepare a of a community safety plan;
- Prepare a native soils background report;
- Perform field documentation for each home site;
- Perform site specific air monitoring;
- Perform confirmation sampling for each home site; and
- Prepare final report for the project and for each home site.

2.3 Work Plan

The following summarizes the tasks the CONTRACTOR will under take during structural debris removal.

1. The CIWMB's CONTRACTOR will first inspect all structures at each site and evaluate hazards. Next CONTRACTOR will coordinate with local agencies and resources to determine what materials and tasks are required. **(Note: No work by the CIWMB's Contractors or subcontractor, including inspection of structures and/or evaluation of hazards, will occur on private property until the property owner signs the Right-of Entry, no exceptions).**
2. The CONTRACTOR then shall provide the posts and address signs to the county to install. The CONTRACTOR will install site project signs and potentially address signs if required. The CONTRACTOR will prepare for emergency erosion control to prevent the immediate issues with rainfall associated with thunderstorms.

-
3. The CONTRACTOR will load and haul the damaged homes and solid waste (e.g., household garbage, wood debris, etc.) to the appropriate landfill and separate and haul white goods and metal debris to acceptable facilities for recycling. Dust emissions during all phases of the demolition will be controlled via a water spray from a fire fighting grade nozzle.
 4. The CONTRACTOR will begin work on the destroyed home sites. The CONTRACTOR will remove all recyclable metal debris and ash debris with appropriate dust control measures. The CONTRACTOR will remove all chimneys. The CIWMB engineer has determined that all chimneys pose a health and safety risk to the removal team. All chimneys will be taken down with proper dust control. If feasible, once the metal debris and ash are removed, the concrete foundation or slab will be recycled. The slab or foundation may have to be pressure washed to ensure the concrete is not contaminated. After all the appropriate debris, including foundations, is removed from the site, the CONTRACTOR will remove 6 to 12 inches of soil from the structural impacted area. Additional excavation may be necessary around the foundation/slab to remove ash and debris. This area may be a combination of the foundation or slab footprint plus areas of structural ash debris from sheds. Once completed, the area will be tested to ensure residual contamination is removed.
 5. After all debris is removed the CONTRACTOR will complete the erosion control measures. The erosion control devices shall be installed using the erosion control guidelines established by the El Dorado County, Building Department, Natural Resources Conservation Service and Tahoe Regional Planning Agency. These specifications will be one of four levels of erosion control as determined by the erosion control work group.
 6. The CONTRACTOR will also be responsible for removing any other hazardous wastes except for household hazardous wastes discovered during the removal. Household hazardous waste will be segregated and stored on-site by the CIWMB for pickup by the County of El Dorado.

Table 3 supplies the disposal information to CONTRACTOR to assist in the removal of the debris from the Angora Fire. CONTRACTOR is responsible for contacting the individual companies below and determining if they are available and properly licensed.

Table 3. Disposal Matrix for Materials

Material	Disposal Contact or Facility
Ash and Debris	CONTRACTOR will be responsible for identifying the appropriate facility.
Demolition Debris (Damage Homes) Vegetation	CONTRACTOR will be responsible for identifying the appropriate facility.
Metal Debris	CONTRACTOR will be responsible for identifying the appropriate metal recycler.
Metal Discards (Appliances)	Freon Extraction is REQUIRED for refrigerators. Check with above metal recyclers to determine if they are in compliance with the Metallic Discard Act. Note: Furnaces shall be checked for asbestos before disposal.
Vehicles and Trailers	Vehicles and/or trailers that <u>did not sustain</u> damage or vehicles and/or trailers that sustained <u>minor damage</u> will be left on the property. These vehicles and/or trailer may be moved by the CONTRACTOR to complete the debris removal.
Burned Vehicles and Trailers	If a vehicle or trailer has been burned, the vehicle or trailer will be treated as metal debris for rapid disposal. The CONTRACTOR shall ensure all the fluid has been removed from the vehicle and/or trailers before transport. All fluids from the vehicle and/or trailer shall be properly collected and disposed.
Tires	CONTRACTOR will be responsible for identifying the appropriate tire hauler.
Hazardous Waste	CONTRACTOR will be responsible for identifying the appropriate facility.
Household Hazardous Waste (HHW)	Unlikely. The County of El Dorado has performed a HHW sweep of the impacted area. If HHW is discovered the HHW will be segregated by the CIWMB and/or the CONTRACTOR to a temporary on-site storage. As necessary the County of El Dorado will collect and transport HHW to the County facility @ no charge to the CIWMB and or CONTRACTOR.
Dead Animals	If dead animals are discovered, they will be disposed of with the ash and debris.
UXO (Unexploded Ordinance)	Unlikely. With the high temperatures from a forested wildland fire the likelihood of discovering any UXO is remote. If UXO is discovered the CONTRACTOR shall notify the CIWMB so proper disposal can occur by the County of El Dorado Sheriff Department. Small arms ammunition may be found in the damaged homes.
Radioactive Debris	Unlikely. All impacted lots will be screened for radiation before removal. If radioactive debris is encountered, the material will be removed and properly disposed of by the CIWMB and its CONTRACTOR .
Medical Waste	Unlikely. If medical wastes are discovered, they will be properly bagged and transported to the appropriate facility by the CIWMB and its CONTRACTOR. Small quantities of sharps (e.g., needles and illegal drug items) will be removed and disposed of through the CIWMB and its CONTRACTOR. CIWMB Site engineer will use sharp “mail-back” containers provided by CONTRACTOR.

2.3.1 Schedule

Prior to beginning work, CONTRACTOR shall submit a proposed schedule of operation. The schedule may be in a bar chart or CPM format at the option of CONTRACTOR.

2.3.2 Sequence of Operation

Scheduling and coordination of construction activity shall be the sole responsibility of CONTRACTOR within the following limitations:

- The CIWMB and the County of El Dorado will determine which zone the CONTRACTOR will begin work. Tentatively three zones (Zone A, Zone B, Zone C) have been identified. (See Appendix C)
- All work shall be performed between the hours of 8:00 A.M. to 6:00 P.M., Monday through Saturday, unless authorized by the CIWMB engineer and the County of El Dorado. A daily briefing will commence at the operations center at 7:30 AM every day of operation.
- All construction equipment working within the residential zones shall maintain a speed of **15 mph or less**.

2.4 General Conditions

2.4.1 Notices

The following notices, at a minimum, will apply to the project:

- The CONTRACTOR shall notify Underground Services Alert (USA) at least 48 hours prior to any excavation;
- The CONTRACTOR shall notify the local fire department prior to commencement of work;
- The CONTRACTOR shall notify the local power provider prior to removal of any damaged structure to ensure the electrical power has been shut off;
- The CONTRACTOR shall contact all local utilities and acquire their shut off plans for utilities at the destroyed structures;
- The CONTRACTOR shall notify the CIWMB at least 48 hours prior to commencement of the cleanup project. CONTRACTOR will use caution around all trees. Only trees marked by the CIWMB may be removed; and
- If CONTRACTOR discovers household hazardous materials, the site superintendent will segregate the material in a safe area and contact the CIWMB operations manager. The material will be removed by the County of El Dorado, Environmental Management.

2.4.2 Dust Controls

The CONTRACTOR shall provide water or dust palliative, or both, to prevent dust nuisance at each site. **Dust resulting from Contractor's performance of the work shall be controlled at all times during this project.** The Contractor will provide fire grade firefighting nozzles with shut off valves for dust control. Each removal crew will be provided at least one fire nozzle. These types of fire nozzles in past projects have proven successful in applying the appropriate amount of water to control dust.

2.4.3 Pre-Watering

The CONTRACTOR shall pre-water each impacted lot 48 to 72 hours in advance of the removal. The water shall be applied in a manner so not to generate significant runoff. Water may be applied using side spray from a water tender, hose line, or other method approved by the CIWMB engineer.

2.4.4 Waste Load Controls

All loads shall have a tracking system to indicate material leaving the site.

All loads shall be wetted down before leaving the site. All loads shall be covered with a tarp; this includes metal debris. 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 tarped.

2.4.5 Cost Controls

CONTRACTOR and the CIWMB Engineer shall update cost of the removal on a daily basis. The CONTRACTOR will be responsible for establishing a daily cost tracking spread sheet. The CONTRACTOR will track all disposal and transportation costs for each property.

2.4.6 Traffic Control

At a minimum the CONTRACTOR shall post "Construction Ahead" signs 300 feet in both directions of work zone to warn vehicle traffic of the removal work. Safety cones shall be placed along the work area to control site vehicle traffic.

2.4.7 Equipment Controls

All removal equipment supplied by the CONTRACTOR should have glass enclosures and weigh less than 65,000 lb. The goal is to use equipment that minimizes the impact to the local roadway while completing the removal. For example, excavators should be smaller than or equal to a 325 Caterpillar or equivalent and front end loaders should be small than or equal to a 950 Caterpillar or equivalent.

2.4.8 Pavement and Drainage Projections

The CONTRACTOR at all times will protect the edge of pavement and county drainage features to the extent as feasibly possible.

2.3.8 Trackout Management

El Dorado County Air Pollution Control District Rule 223 -1.6 requires the CONTRACTOR to prevent or cleanup carryout and trackout as specified below. The use of blower devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner/operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

- The CONTRACTOR shall prevent carryout and trackout, or immediately remove carryout and trackout when it extends 50 feet or more from the nearest unpaved surface exit point of a site and at the minimum remove all other visible carryout and trackout at the end of each workday.
- Cleanup of carryout and trackout shall be accomplished by:
 - Manually sweeping and picking-up; or
 - Operating a rotary brush or broom accompanied or preceded by sufficient wetting; or
 - Operating a PM10-efficient street sweeper

2.4.9 Environmental Consultant Tasks

The CONTRACTOR shall employ a third party environmental consultant to perform an environmental assessment of the impacted area. The assessment will include but is not limited to:

2.4.9.1 Determining Background Soil Concentrations

The Consultant will prepare a background soil analysis in the fire area to examine the naturally occurring metal concentrations for comparison with the confirmation sampling. All the background samples will be submitted to a California-certified laboratory and analyzed Title 22 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc) by EPA Method 6010 and mercury by EPA Method 7471A.

2.4.9.2 Site Assessment

To prepare each property for cleanup, the Consultant will perform a site reconnaissance on all the impacted lots. Lots with just sheds or just vehicle will be decided on a case by case basis.

2.4.9.3 Site Photo Logs

The Consultant will take a minimum of four photographs from all sides of the impacted structure. Additional photos should also be collected of other structures and vehicle if not shown in the original photos. The Consultant will collect a minimum of two other photos showing the location of the confirmation samples.

2.4.9.4 Foundation Verification

The Consultant will contact El Dorado County Building Department and coordinate a foundation investigation. The purpose of the investigation is to determine the previous square footage of the home. Without the foundation measurements the owner may be subject to permit fees other wise waived. The Consultant will be responsible for providing the measurements of the foundation, piers, sheds, or other structures to the County. The Consultant will measure and record the dimensions of the burned structure footprint at each property, measure and record the dimensions of the ash area footprint at each property, and monitor the ash at each property for radioactivity with field monitoring equipment provided by the CIWMB.

2.4.9.5 Confirmation Sampling

The consultant will collect at least two confirmation soil samples from each property unless the structure is a shed or other impacted area. Should the impacted area be greater than 2,000 sq. ft. then one additional sample per 1000 sq. ft. of contamination (e.g., 3 per 3,000 sq. ft., 4 per 4,000 sq. ft., etc.) will be collected. The samples will be submitted to a California-certified laboratory and analyzed Title 22 metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc) by EPA Method 6010 and mercury by EPA Method 7471A.

2.4.9.6 Site Approval

The Consultant will assist in establishing cleanup goals for the project. The Consultant will evaluate the analytical results by comparing the soil sampling results to the pre-determined background concentrations and cleanup goals, assist in determining whether additional excavation is necessary at each property based on the confirmation soil sampling results, and coordinate with the CIWMB and Contractor, if appropriate, to conduct additional removal activities. The Consultant may need to collect additional confirmation soil samples, as needed.

2.4.9.7 Final Reports

The Consultant will prepare and submit a report for each property to the CIWMB summarizing the data evaluation, a final project report and develop a cost analysis formula to assist with the cost recovery of insurance funds.

2.5 Safety

The CONTRACTOR shall, at all times, operate equipment and perform labor in a safe manner to ensure the safety of its employees and the public. CONTRACTOR must pay particular attention to operations around local roads and take the necessary precautions. CONTRACTOR must note the number of power lines crossing the site, dead trees, chimneys, and all underground utilities.

The CONTRACTOR shall employ a third party certified industrial hygienist to develop a site specific health and safety plan for the entire operation for the State Sponsored Removal and a Community Safety Plan. The industrial hygienist consultant will also provide field oversight to ensure compliance with the health and safety plan, prepare an air monitoring plan, and prepare final report summarizing the air data.

In addition to site specific plan, CONTRACTOR will designate eating areas and supply a hand and eye washer and mobile sanitary facilities for each project site.

2.5.1 Worker Safety

Given that ash may contain elevated levels of heavy metals an exclusion zone will be setup around the contaminated area during removal. All personnel entering this area will be initially required to wear level "C" protective attire. This level may be downgraded based on industrial hygiene air sampling.

2.5.2 Industrial Air Monitoring

The CONTRACTOR shall use certified industrial hygienist to perform air monitoring for the duration of the project or until the industrial hygienist determines the site air monitoring may cease. The methods for the air monitoring are as follows:

- Fugitive Dust - El Dorado County Air Quality Management District, Rule 223 or other U.S. EPA approved equivalent methods for PM10 monitoring;
- Heavy Metals - National Institute for Occupational Safety and Health (NIOSH) Method 7300, Metal Scan; and
- Asbestos - National Institute for Occupational Safety and Health (NIOSH) Method 7402, High Volume.

2.5.3 Radiation Monitoring

While unlikely to be an issue, the CONTRACTOR's consultant shall perform a radiological survey around the impacted structures. The survey equipment should be design for general radiological surveying such as a Ludlum 2241 or equivalent. The CIWMB will provide the calibrated radiological equipment to the consultant for the duration of the project.

The action level for this project is set at two times background. Should a level of 2x background be detected, the surveyor will isolate off the area and notify the CIWMB engineer and/or El Dorado County, Environmental Management.

2.6 Special Provisions

2.6.1 Appliance and Vehicle Recycling

CONTRACTOR or its subcontractor shall provide for removal and disposal of material that may require special handling, such as various automobile or appliance components.

Materials that must be removed from appliances and vehicles prior to crushing, baling or shredding for recycling include, but are not limited to:

- Chlorofluorocarbons (CFCs) and hydrofluorocarbons (HCFCs) used as refrigerants.
- Polychlorinated biphenyls (PCBs) known to be contained within motor capacitors and fluorescent light ballasts.
- Used oils as defined in Article 13 of Chapter 6.5 of the Health and Safety Code (includes lubricating fluids, compressor oils, and transmission oils).
- Sodium azide canisters in unspent automobile air bags.
- Antifreeze in coolant systems.
- Mercury that may be found in thermometers, thermostats, barometers, electrical switches, and batteries.

The CONTRACTOR shall maintain accurate records detailing the removal and disposal operations involving all such materials, and shall provide the Engineer with all manifests and/or documentation pertaining to the work. Vehicles and appliances that were completely consumed by the fire will probably not contain any of the above items. The vehicles and appliances will be treated as metal debris and removed accordingly.

2.6.2 Household Hazardous Waste (HHW) Handling

The County of El Dorado has performed a HHW sweep of the impacted area. If HHW is discovered, the HHW will be segregated by the CIWMB project lead, its Health and Safety Consultant /or the CONTRACTOR to a temporary on-site storage.

As necessary the County of El Dorado will collect and transport HHW to the County facility @ no charge to the CIWMB and or CONTRACTOR.

To identify HHW or other hazards in the field the following color code and action has been established. If a questionable item is discovered and not immediately removed from the waste stream then the hazard item will be marked with bright orange spray paint to indicate a possible hazard. Once the item has been checked by a qualified individual and deemed not a hazard (e.g., propane tank without a valve, then the item will be marked with bright green spray paint with the words "O.K." or two stripes.

Potential Hazard

Bright Orange Spray Paint

Material Safe for Normal Disposal

Bright Green Spray Paint

2.6.3 Potential Earthwork

No more than 50 cubic yards of clean soil will be placed on any one site with out written authorization from the County of El Dorado and the CIWMB engineer. If more than 50 cubic yards of material are necessary the CIWMB engineer will apply for a grading permit. If fill material is necessary the soil shall be placed in thin lifts. Lifts shall not exceed 8 inches uncompacted and shall be applied within 3 percent of optimum moisture content or as directed by the CIWMB engineer. The lift shall be compacted with a target compaction of 90 percent of the maximum dry density as determined by ASTM D 1557.

2.6.4 Project Signs

Notification Sign (TBA- minimum of 3)

The sign shall consist of 2-foot by 4-foot sheet of 3/4-inch-thick plywood or smooth fiberboard painted with at least two coats of water-based white paint. All surfaces and edges shall be sanded and painted to produce a homogenous surface free of blemishes and color variations.

Posts supporting the sign shall consist of one 4-inch by 4-inch wood post or equal with length sufficient to place in a 5-gallon pail with concrete.

Lettering shall conform to the following:

<p style="text-align: center;">Angora Structural Debris Removal Project</p> <p style="text-align: center;">FUNDED BY</p> <p style="text-align: center;">Governor's Office of Emergency Services California Disaster Assistance Act</p> <p style="text-align: center;">County of El Dorado,</p> <p style="text-align: center;">California Integrated Waste Management Board (CIWMB)</p> <p style="text-align: center;">MANAGED BY</p> <p style="text-align: center;">County of El Dorado, Environmental Management CIWMB</p> <p style="text-align: center;">WORK BEING PERFORMED BY</p> <p style="text-align: center;">A. J. DIANI COMPANIES</p> <p style="text-align: center;">For More Information Please Call 530.573.3450</p>

Address Sign (County of El Dorado)

A total of (TBA – max 264) reflective aluminum signs will also be required. The sign dimension should be 6 inches in width and 24 inches in height. The edges shall be round and free of sharp edges. The background shall be a reflective green and all the text shall be a reflective white. The County of El Dorado will reestablish all address. Each sign shall be mounted on a 6 foot pre-drill, u-channel steel post. The numbering for the address shall be at minimum of 4 inches in height. An example is provided below.

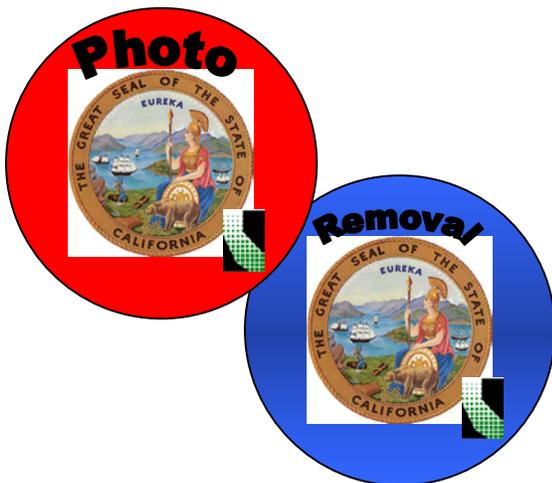


Project Sign and Labels

A total of (TBA – max 264) white signs will also be required. These signs will be used for the coordination of the project with the various agencies. During the project, each phase will be signed off on the sign to indicate progress. Each sign will be 12 inches in width and 18 inches in height. The sign shall be made of aluminum and edges shall be round and free of sharp edges. The background shall be white and all the text shall be black. A sample sign is provided below. The CONTRACT shall also supply the necessary project labels. The CIWMB engineer will provide the design for each label.

Project Sign

Example Sign Labels



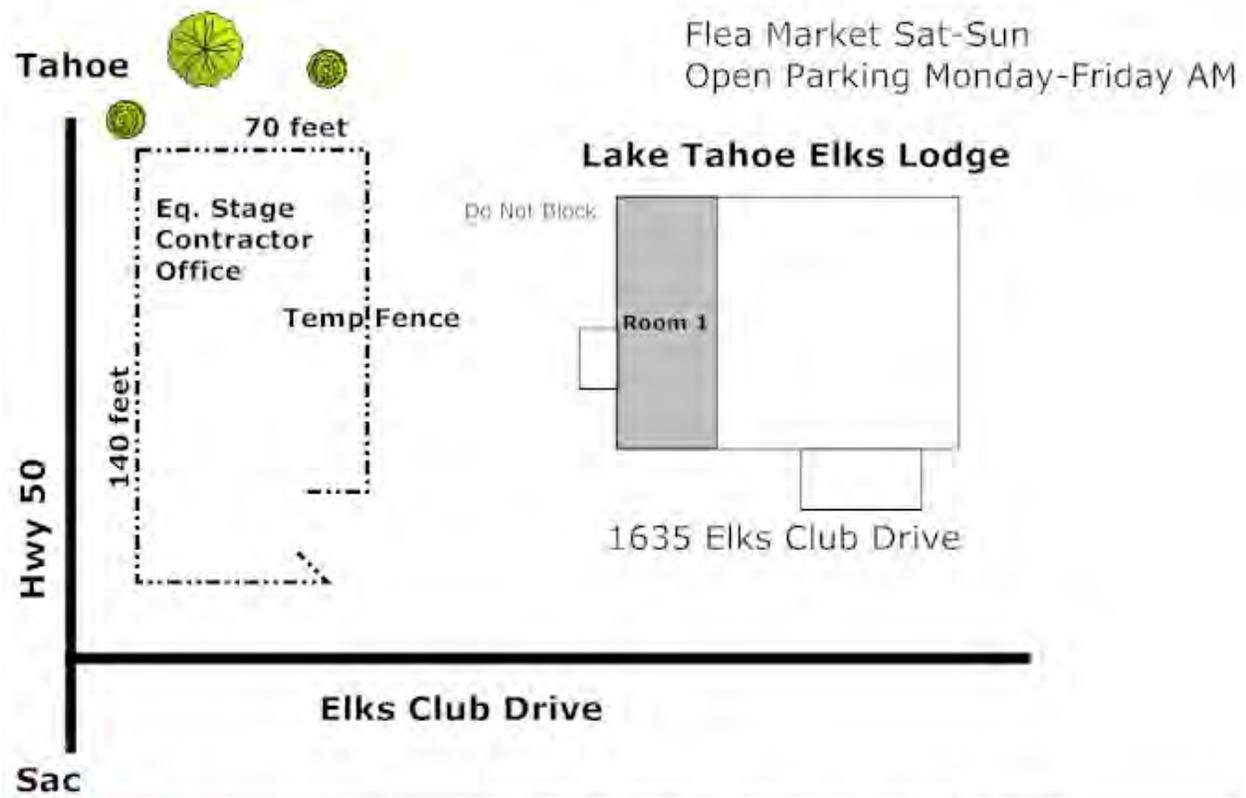
Angora Debris Project Sign	
County of El Dorado and Cal/EPA	
Parcel #	_____
Address	_____
Photo Documentation	<input type="checkbox"/>
Impacted Area	<input type="checkbox"/>
Foundation Verification	<input type="checkbox"/>
Removal Complete	<input type="checkbox"/>
Confirmation Sampling	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>
County Approval	<input type="checkbox"/>

California Integrated Waste Management Board

2.6.5 Debris Removal Operations Center (DROC)

The CONTRACT shall operate and maintain a debris removal operations center for the incident until the CIWMB engineer has directed the CONTRACTOR to demobilize the operations center. The operations center will be located at the Lake Tahoe Elks Lodge, 1635 Elks Club Drive, South Lake Tahoe, CA 96156. The CONTRACTOR will provide approximately 420 feet of temporary fencing with a lockable gate, office trailer, site generator, sanitation facilities, 10 cubic yard waste bin and the other field items identified by the CIWMB engineer in writing. The CONTRACTOR will also supply the operation center with the necessary office supplies, fax machines, copiers, drinking water, electrolyte fluids, electricity, and other services to maintain the center. Figure 3 provides an overview of the operations center.

Figure 3. Debris Removal Operation Center Layout and Location



Site Layout Op Center	Location 1635 Elks Club Drive, South Lake Tahoe, CA 96156 Offices in Room 1 of the Lake Tahoe Elks Lodge Angora Debris Management Operations Center

2.7 Erosion Control

Erosion control for this project is critical for the success of this project. Lake Tahoe's rain season begins on July 1 and at times rainfall can be heavy due to thunderstorms. Prior to the removal of the structure, some erosion control will be necessary to prevent the migration of contaminants off site. Work may consist of installing silt fences, fiber rolls, erosion control blankets and other erosion control Best Management Practices (BMPs) necessary for improving site stability. Erosion control work shall be performed in accordance with the specifications and as directed by the CIWMB engineer.

2.7.1 Erosion Control Specifications

Erosion control specifications for this project were developed after establishing an erosion control work group consisting of El Dorado County, Building Department, Natural Resources Conservation Service and Tahoe Regional Planning Agency. The specifications for erosion control were based on the slope of each lot and proximity of stream environment zone (SEZ). Each residential parcel will receive one of the following BMP treatments:

Level 1

Mulch

Mulch shall be between 4 to 6 inches in depth and cover over 90% of the lot impacted by the structural debris.

Level 2

Mulch and Fiber Log and/or Silt Fence

Fiber Logs shall be a minimum of 12" in diameter and shall be double-staked and keyed in.

Silt Fences shall be wire-backed and used in areas on slopes greater than 7%.

Level 3

Mulch, Fiber Log and/or Silt Fence and Erosion Control Blanket

Level 4

Site Specific Treatment – consult with the erosion control work group
This level usually entails SEZ protection

2.7.2 Erosion Control Materials

2.7.2.1 Fiber Roll Barriers – Fiber roll barriers (also called sediment logs or straw wattles) are commercially manufactured and usually consist of milled wood or

other natural fibers sewn into a circular weave fabric. Fiber rolls are good perimeter protection, designed to slow stormwater runoff and trap small amounts of sediment.

Fiber rolls shall be a minimum 12" diameter.

2.7.2.2 Erosion Control Blanket – Erosion control blanket is a manufactured blanket or mat that is designed to hold soil and seed in place on slopes. It consists of organic, biodegradable materials such as wood fiber, coconut fiber, or a combination of these materials. It is commercially manufactured and delivered to the site in rolls.

Erosion control blankets shall be 100% organic biodegradable (including parent material, stitching, and netting). The minimum thickness shall be 3/8" (9mm). The netting shall be stitched to prevent separation of the net from the parent material. The netting shall be capable of withstanding moderate foot traffic without tearing or puncturing. Neither the netting, nor the installation, shall pose a safety risk to people walking on/crossing over it. Neither shall the blanket or netting pose a hazard to wildlife such as birds, reptiles and amphibians.

- Appropriate products include, but may not be limited to:
- Curlex I Fibernet (American Excelsior)
- Curlex II Fibernet (American Excelsior)
- AEC Premier Straw Fibernet (American Excelsior)
- S 75 BD (North American Green)
- S 150 BN (North American Green)
- SC 150 BN (North American Green)
- C125 BN (North American Green)
- Excel S-2 All Natural (Western Excelsior)
- Excel SS-2 All Natural (Western Excelsior)
- Excel CS-3 All Natural (Western Excelsior)
- Excel CC-4 All Natural (Western Excelsior)

2.7.2.3 Silt Fence – Silt fence consists of a permeable filter fabric that is keyed into the ground and staked beyond the toe of a slope. The fabric pools runoff, causing entrained sediment to settle out behind the fence while water slowly filters through the fabric.

2.7.2.4 Anchors – Anchors are devices that secure erosion control materials such as fiber roll barriers, erosion control blankets, and silt fence in place.

For erosion control blankets, anchors shall be completely biodegradable, environmentally safe, and shall have no potential for soil and/or water contamination. Steel wire pins or staples will not be approved. Petroleum based plastics or composites containing petroleum based plastics will not be approved. Materials deemed to present a hazard from splintering or spearing

will not be approved. Wood stakes or stakes manufactured from wood byproducts may be approved.

- Appropriate products include, but may not be limited to:
- E-Staple (American Excelsior)
- CF Bio Staple (CFM Corp)
- Green Stake (Green Stake)
- Bio-Stake (North American Green)
- Enviro-Stake (ODC Inc)

For silt fence, anchor posts shall be at least 36" long. Steel posts should weigh no less than one pound per linear foot.

For fiber roll barriers, stakes shall be wooden and at least 18" long.

2.7.2.5 Netting – Netting is a manufactured product intended to secure wood chips or pine needle mulch to the soil surface.

Netting shall be 100% organic biodegradable and may consist of paper, jute, or cotton netting. Netting material shall be approved by CIWMB staff prior to installation.

2.7.2.6 Gravel Bags – Gravel bags are intended to slow stormwater flows and trap sediment on paved surfaces.

Gravel bags shall be filled with $\frac{3}{4}$ " to $1\frac{1}{2}$ " *washed* rock. Bags filled with sand will not be approved.

2.7.3 Installation Standards

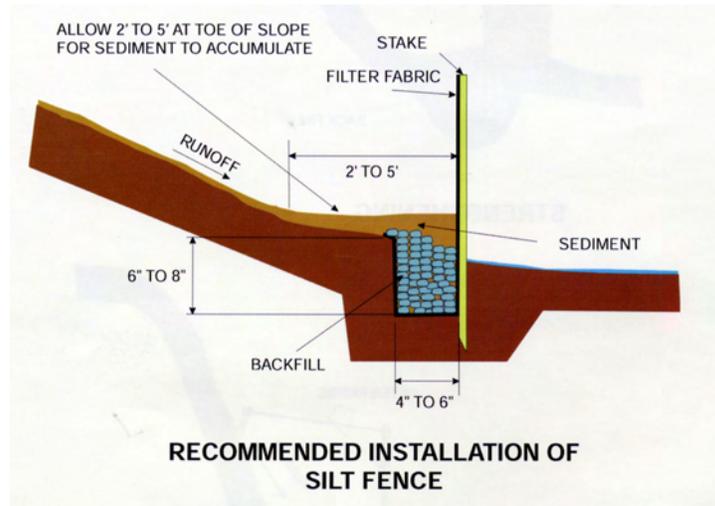
Erosion control BMPs installation shall consist of furnishing and applying erosion control materials. The work includes proper material handling, area preparation, proper application of the erosion control materials and structures, and stand maintenance for the areas shown on the Plans.

2.7.3.1 Area Management – Construction/demolition materials shall be stored to the maximum extent possible on paved surfaces. When this is not possible, construction/demolition materials shall be stored on areas where a future structure or other hard impervious surface will be constructed, such as a future building foundation or driveway.

Construction/demolition vehicles shall remain on paved surfaces to the maximum extent possible. When this is not possible, construction/demolition vehicles shall be used in areas where rebuild of impervious surfaces will occur, such as building foundation or driveway locations.

2.7.3.2 Silt Fence – Install silt fences as directed by the engineer. Six inches of the fence shall be buried in a trench along the base of the fence. The posts shall be spaced a maximum of 10 feet apart and driven 18” into the soil or to refusal. Sediment shall be removed from the up-slope side of the fence when it reaches 1/3 the height of the fence. Refer to standard detail “Silt Fence” below.

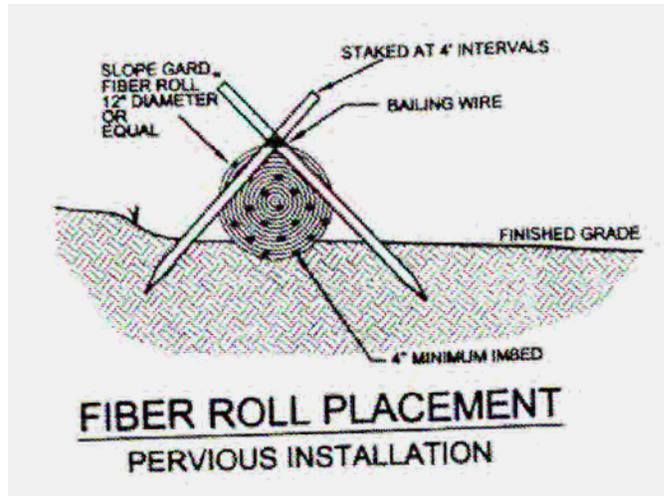
Figure 4. Silt Fence Detail Drawing



2.7.3.3 Erosion Control Blanket – Install erosion control blankets as directed by the engineer. Starting at the top of the slope, anchor the blanket in a 6-inch trench, backfill, and securely tamp the backfilled soil. Unroll blanket downslope overlapping parallel and subsequent blankets a minimum of 4 inches. Secure blankets with anchors along the overlaps and place a minimum of 3 anchors per square yard. The Contractor shall determine if more anchors are required and shall be responsible for installing the erosion control blanket so that it will stay in place.

2.7.3.4 Fiber Roll Barriers – Install 12-inch fiber roll barriers as directed by the CIWMB engineer. Place the fiber roll barrier in a 4-inch trench perpendicular to the flow path of stormwater. Drive stakes on either side of the roll and bind together with bailing wire. Weighted rolls may be used as appropriate, especially on driveways. Refer to standard detail “Fiber Roll” below.

Figure 5. Fiber Roll Detail Drawing



2.7.3.5 Gravel Bags – Gravel bags or weighted fiber rolls shall be placed on the downslope edge of impervious surfaces, such as driveways. Place gravel bags in double row in a “U” shape.

2.8 Materials

Materials shall be placed in accordance with the SOW or as specified by the CIWMB engineer. The following materials have been identified for the removal:

- TBA Silt Fence;
- TBA Fiber bundles;
- TBA Erosion Control Blankets;
- TBA cubic yards of class II road base or equivalent; and
- TBA cubic yards of rock and/or cobble for erosion control

Quantities and location of the materials will be determined in the field by the CIWMB engineer.

2.9 Permits

To provide an understanding of the permits necessary for CONTRACTOR to obtain for the project, Table 4 is presented.

Table 4. Permit Matrix

Permit and Agency	Responsibility	Contact/Comments
Site Authorization Right-of-Entry	County of El Dorado	Prior signatures by property owners will be required before work
California Environmental Quality Act-	Not Applicable	Emergency work as describe in Executive Order S-09-07
1601 Stream Alteration, Dept. of Fish and Game (DFG)	Not Applicable	Scope of Work does not include work in the stream bed. If material need to be removed from the stream, the CIWMB will contact the Department of Fish and Game
Storm Water Pollution Prevention Plan-RWQCB	Not Applicable	Exempt per Executive Order S-09-07, however Best Management Practices will be required
Grading	Not Applicable if import of soil is under 50 cubic yards	Soil import will be kept to a maximum of 50 cy per home
Road Encroachment	CIWMB and /CONTRACTOR	Emergency work. The CONTRACTOR will obtain a general permit for the fire area
Traffic Control	CONTRACTOR shall supply	A minimum of two orange construction warning signs "Construction Ahead" and cones. Additional control device may be necessary based on location
Asbestos Notification	Not Applicable	Exempt per Executive Order S-09-07. Also, residential buildings having four or fewer dwelling units are exempt from the notification process
Demolition Permit	County of El Dorado	CONTRACTOR will obtain from the County of El Dorado
Water Permit	CONTRACTOR	CONTRACTOR shall obtain the necessary water permit to be used for dust suppression
Hazardous Waste	CONTRACTOR	CONTRACTOR shall use the appropriate hauler and disposal facility

3 Project Completion

The project will be consider complete after each lot has been compared to cleanup goals and approved by the unified command of El Dorado County and the CIWMB, erosion control placed on the sites that are not rebuilding this winter, final observations are documented, and the invoicing and final reports are provided to the property owners.

3.1 Cleanup goals

The cleanup goals for Angora Debris Removal Project were developed by first determining the local background for metals and comparing those naturally occurring metals to the Cal/EPA, Department of Toxic and Substances Control, California Human Health Screening Levels (CHHSL; 2005). The CHHSL are used to evaluate the potential for soils to pose human health risk to residents. If a background metal exceeds the CHHSL metal then the cleanup goal for that specific metal will be set at two times the naturally occurring metal. The goal for all naturally occurring metals will be set at two times background. Background concentrations will be determined using public domain U.S. Environmental Protection Agency Pro UCL 4.0 software as twice the 95th percentile threshold.

To assess the effectiveness of the ash and debris removal, all confirmation samples will be compared to the cleanup goals. A parcel will be approved if the analytical results are below the cleanup goals. If a CHHSL metal result exceeds the cleanup goal then three additional samples from the same container will be reanalyzed. If one of the samples exceeds the goal then the property will be again excavated at the direction of the CIWMB engineer. Once the excavation is complete additional confirmation samples will be collected. If a background metal exceeds the cleanup goal, and individual site specific determination will be made by the project engineer. Table 5 provides the cleanup goals for the Angora Debris Removal

Table 5. Cleanup Goals for Angora Debris Removal, South Lake Tahoe, CA

Metals	ProUCL 4.0 Calculated Background Concentration (distribution based 95th percentile)¹	2 x ProUCL 4.0 Calculated Background Concentration	California Human Health Screening Level for Residential Use²	Cleanup Goal
Antimony	1.76	3.52	30	30
Arsenic	8.29	16.58	0.07	16.58
Barium	120	240	5,200	5,200
Beryllium	0.47	0.94	150	150
Cadmium	ND	ND	1.7	1.7
Chromium (total)	11.75	23.5	100,000	100,000
Cobalt	6.45	12.9	660	660
Copper	10.36	20.72	3,000	3,000
Lead	6.8	13.6	150	150
Mercury	0.033	0.066	18	18
Molybdenum	1.31	2.62	380	380
Nickel	6.15	12.3	1,600	1,600
Selenium	ND	ND	380	380
Silver	ND	ND	380	380
Thallium	ND	ND	5	5
Vanadium	55.8	111.6	530	530
Zinc	43.08	86.16	23,000	23,000

1) ProUCL 4.0 = Statistical software package used to calculate background threshold values; (ProUCL 4.0. A Statistical Software. National Exposure Research Lab, US EPA, Las Vegas Nevada, April 2007.

2) California Human Health Screening Level; California Environmental Protection Agency (Cal/EPA), January 2005

ND = Not detected above analytical reporting limits

3.2 Field Documentation

The CIWMB engineer will document the erosion control for each lot not building this winter. Additionally the CIWMB engineer will document the final site conditions at the close of the project.

3.3 Documentation

The environmental consultant will also be responsible for designing a final report to document each property cleaned up in the CIWMB sponsored cleanup. The report will document the removal with photo documentation, foundation square footage, impact from ash foot print (i.e., ash square footage), soil confirmation analysis, and total costs.

APPENDIX A

OFFICE OF THE GOVERNOR

EXECUTIVE ORDER S-09-07

EXECUTIVE ORDER S-09-07 by the Governor of the State of California WHEREAS on June 25, 2007 a state of emergency was proclaimed to exist in El Dorado County as a result of a wildfire and the peril to the area; and

WHEREAS the Angora fire has damaged or destroyed hundreds of structures and utilities requiring the removal of hazardous materials and debris for proper disposal; and

WHEREAS conditions of extreme peril to the people, property and environment exist within the established perimeter of the Angora Fire due to fire damaged dead and dying trees, other vegetation and soil caused by the fire behavior experienced during the Angora Fire, and conditions of danger also exist for the water quality of Lake Tahoe, a national treasure; and

WHEREAS the Angora fire destroyed large amounts of personal property which may not be removed or properly disposed until claims covered by insurance companies are processed, potentially creating a significant delay in property cleanup; and

NOW, THEREFORE, I, Arnold Schwarzenegger, Governor of the State of California, in accordance with the authority vested in me by the statutes of the State of California, and in particular, sections 8567 and 8571 of the California Government Code, do hereby issue the following orders to become effective immediately:

IT IS HEREBY ORDERED:

1. That all State agencies with responsibility, regulatory authority or expertise related to recovery efforts in connection with the Angora fire shall cooperate fully and act expeditiously in coordination with the California Resources and Environmental Protection Agencies, to facilitate the mitigation of the effects of the fire and the environmental restoration of the Tahoe Basin.
2. That State agencies shall enter into contracts and arrange for the procurement of materials, goods, and services necessary to quickly remove dangerous debris, repair damaged resources, and restore and protect the impacted watershed. State agencies shall enter into such contracts as expeditiously as possible. Because strict compliance with the provisions of the Government Code and the Public Contract Code applicable to state contracts would prevent, hinder, or delay these efforts, applicable provisions of those statutes, including, but not limited to, advertising and competitive bidding requirements, are suspended to the extent necessary to address the effects of this emergency.
3. That statutes, rules and regulations, as they apply to the removal, storage, transportation and disposal of hazardous and non-hazardous debris resulting from the fire and other requirements related to necessary restoration and related activities (including, but not limited to, solid waste facility permit requirements and conditions, waste discharge requirements for the storage and disposal of fire-related

debris, waste discharge requirements for discharges of waste associated with emergency timber harvesting, prohibitions against discharges or threatened discharges of waste in stream environment zones, waste discharge requirements for emergency construction activities, waste discharge requirements and/or Water Quality Certification for discharges of fill material or pollutants) are hereby suspended to the extent necessary for expediting the removal and cleanup of debris from the fire, and for implementing the Angora Fire Resource Damage Assessment and Restoration Plan. The Secretaries for Environmental Protection and Resources shall use sound discretion in applying this suspension to ensure that the suspension of statutes, rules and regulations serves the purpose of accelerating the cleanup and mitigation of environmental harm, and the restoration of infrastructure damaged in the Angora fire while protecting public health and the environment, and shall maintain a public list of all such waivers and suspensions prominently on their websites. To the extent that it is within their administrative authority and discretion, the boards, departments and offices within the California Environmental Protection Agency shall expedite the granting of other authorizations, waivers or permits necessary for the removal, storage, transportation and disposal of hazardous and non-hazardous debris resulting from the fire, and for other actions necessary for the protection of public health and the environment.

4. That the Governor's Office of Emergency Services and all affected State agencies will provide assistance to the County of El Dorado. Support provided by the State for implementation of the California Disaster Assistance Act will include but is not limited to the use of state personnel and state contractors to support recovery operations.

5. That State agencies shall work with local officials to put into place and implement a comprehensive structural debris removal plan that will treat the removal of structural debris as a single organized project.

6. That to assist and encourage landowners to meet their responsibilities for removing dead and dying trees on their lands, pursuant to Government Code section 8571, the requirement for submitting notices to CAL FIRE under the provisions of Title 14, California Code of Regulations, section 1038 (f), prior to beginning timber operations for the removal of dead and dying trees, is suspended. All other provisions of these regulations shall remain in effect with the following exceptions:

The Licensed Timber Operator (LTO) shall consult with the appropriate agency prior to operations in lieu of compliance with those regulations requiring approval prior to submission of an exemption notice.

The landowner is not required to comply with the provisions of Title 14, California Code of Regulations, section 1038 (f)(16).

A Registered Professional Forester (RPF) is not required.

7. That CAL FIRE, California Department of Corrections and Rehabilitation, and California Conservation Corps use inmate and ward labor, where appropriate to protect public health, safety, and water quality on public lands or where otherwise requested by private property owners.

8. That the Resources Agency, Cal EPA, Department of Forestry and Fire Protection, State and Regional Water Quality Control Boards, and the Department of Fish and Game shall coordinate with the Tahoe Regional Planning Agency and the USDA Forest Service to ensure that all appropriate actions are taken to simplify and accelerate the compliance process to expedite fuel load reduction on public and private

lands in the Lake Tahoe basin to protect public health and safety and the environment from future fires.

I FURTHER ORDER THAT standby order number one be invoked to allow sufficient state personnel to address the immediate clean-up and restoration effort.

IT IS REQUESTED that the Public Utilities Commission direct utility companies with transmission lines in the established perimeter of the Angora Fire to ensure that all dead and dying trees and vegetation are completely cleared from their utility right-of-ways to mitigate the potential threat to human health and safety and public property.

These Orders are not intended to, and do not, create any right or benefit, substantive or procedural, enforceable in law or equity, against the State of California, its departments, agencies or other entities, its officers or employees, or any other person.

I FURTHER DIRECT that as soon as hereafter possible, this proclamation be filed in the Office of the Secretary of State and that widespread publicity and notice be given to this order.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 2nd Day of July 2007.

<http://gov.ca.gov/index.php?/executive-order/6846/>

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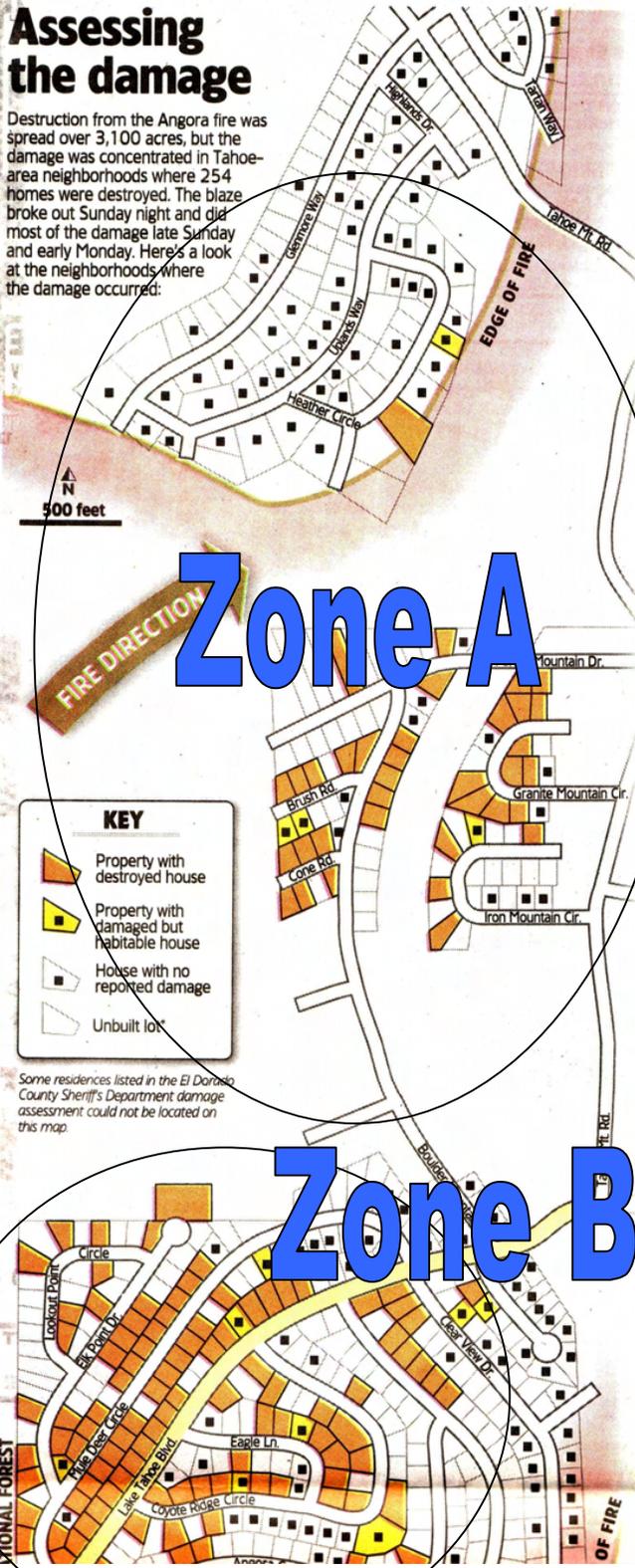
APPENDIX B
RIGHT-OF-ENTRY PERMIT FOR
DEBRIS REMOVAL ON PRIVATE PROPERTY

The Right of Entry Permit for Debris Removal on Private Property is viewable at <http://www.co.el-dorado.ca.us/Angora/pdf/RightofEntryPermit.pdf>. This document is hereby incorporated by reference and made part of this agreement as if attached hereto.

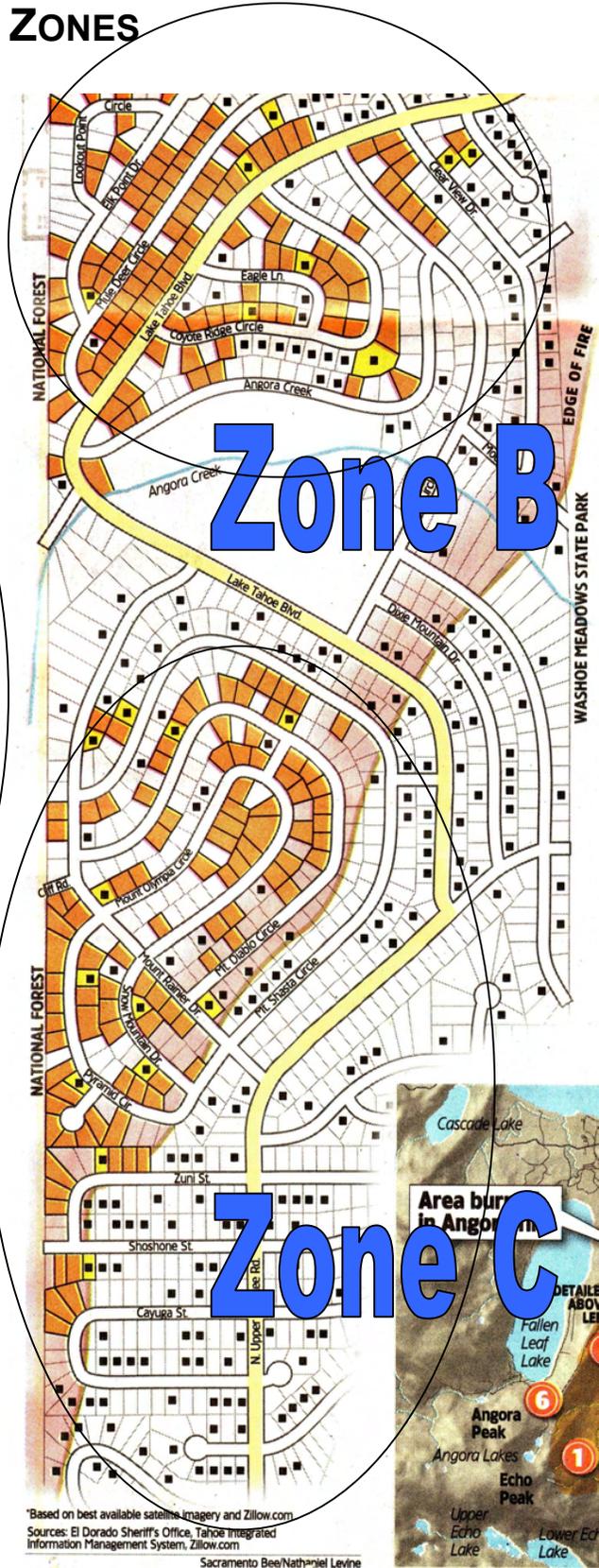
APPENDIX C WORK ZONES

Assessing the damage

Destruction from the Angora fire was spread over 3,100 acres, but the damage was concentrated in Tahoe-area neighborhoods where 254 homes were destroyed. The blaze broke out Sunday night and did most of the damage late Sunday and early Monday. Here's a look at the neighborhoods where the damage occurred:



Zone A



Zone B

Zone B

Zone C



*Based on best available satellite imagery and Zillow.com
Sources: El Dorado Sheriff's Office, Tahoe Integrated Information Management System, Zillow.com
Sacramento Bee/Nathaniel Levine

APPENDIX C
DROC FORMS

**ANGORA STRUCTURAL DEBRIS REMOVAL
CONFIRMATION SAMPLING
UNIFIED COMMAND APPROVAL FORM**

SITE ADDRESS: _____

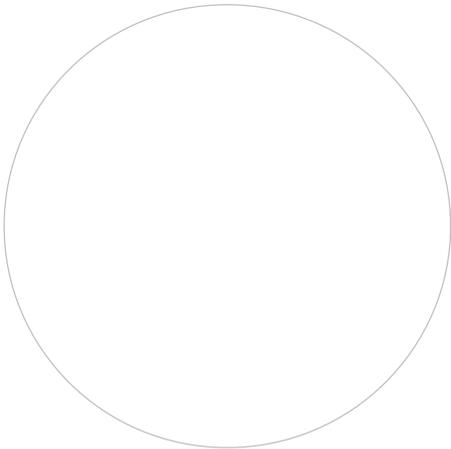
Sample Identification: _____ **Number of Samples:** _____

Date Sample Collected: _____ **Laboratory:** Curtis and Tompkins, Ltd.

Cleanup Goal: California Environmental Protection Agency (Cal/EPA), California Human Health Screening Levels (CHHSLs; 2005) for metals and the calculated naturally occurring background concentration for arsenic

Date Approved: _____

Observations:



**Todd Thalhamer, P.E. Cal/EPA CIWMB
Operations Chief**

**Virginia Huber, REHS, El Dorado County
Unified Command**

**ANGORA STRUCTURAL DEBRIS REMOVAL
UNDERGROUND STORAGE TANK (UST)
CONFIRMATION SAMPLING
UNIFIED COMMAND APPROVAL FORM**

SITE ADDRESS: _____

Sample Identification: _____ **Number of Samples:** _____

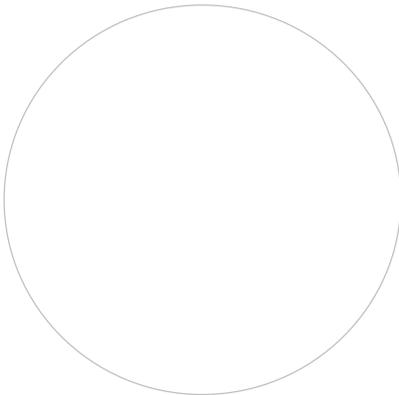
Date Sample Collected: _____ **Laboratory:** Curtis and Tompkins, Ltd.

Cleanup Requirements: The cleanup goal for UST's discovered at the Angora Structural Debris Removal Program will be based on El Dorado County's Ordinance Code for Underground Storage Tanks, Ordinance No. 4332, Section 2, Chapter 8.40. The cleanup requirements for USTs will be less than 100 mg/kg for Diesel C10-C24 and non-detect for BTEX per LUFT guidelines.

Size of the Tank: _____ **Water Present (Y/N):** ____ **Number of Samples** ____

Date Approved: _____

Observations:



**Todd Thalhamer, P.E. Cal/EPA CIWMB
Operations Chief**

**Virginia Huber, REHS, El Dorado County
Unified Command**

ANGORA STRUCTURAL DEBRIS REMOVAL
Erosion Control Work Sheet

SITE ADDRESS: _____

Level of Erosion Control per Erosion Control Work Group: Level ___ (1, 2, 3, 4)

Observations:

NTS

ANGORA STRUCTURAL DEBRIS REMOVAL ENGINEER'S OBSERVATIONS

Road Damage Survey for the Angora Fire Area

Date: August 18, 2007

Observations: The following road survey was performed by the Angora Operations Chief who is also a licensed civil engineer in the State of California. The initial road survey conducted on August 18, 2007, indicated 27 areas that should be repaired and/or replaced due to impacts from the fire directly or indirectly from the +2000 shipments of debris, concrete, and metal. These observations are only recommendations to El Dorado County. Each area of concern was marked with orange spray paint on August 18, 2007

Road Damage Survey as of 8/18/2007

Street/Intersection	Number of Repairs
Coyote Ridge Circle	4
Eagle Lane	1
Mule Deer Circle	1
Lookout/Elk	1
Angora/View	1
LTB/Mule Deer	1
Mt Rainier	1
Mt Rainier/Shasta	1
Snow Mt/Mt Rainier	1
Pyramid Cir	1
Mt. Rainier/Pyramid	1
Shasta Cir	1
Mt Diablo	7
Mt Pass	1
Angora Creek	4
Total	27

**Todd Thalhamer, P.E. Cal/EPA CIWMB
Operations Chief**

ANGORA STRUCTURAL DEBRIS REMOVAL ENGINEER'S OBSERVATIONS

SITE ADDRESS: _____

Date: _____

Confirmation Sampling Approved No **Yes** (See Confirmation Sampling Form)

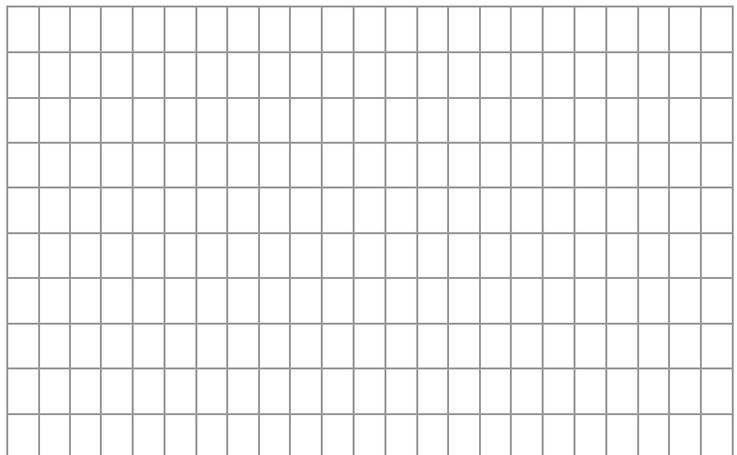
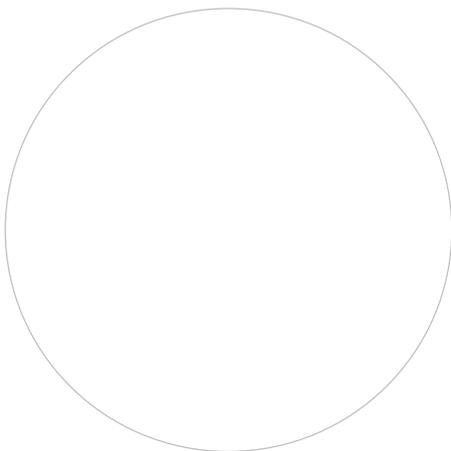
Building No Yes Status _____

Erosion Control Level/BMP (1, 2, 3, 4) _____ (See Erosion Control Form)

Building over erosion control No Yes

Project Approved No **Yes**

Noted Observations:



**Todd Thalhamer, P.E. Cal/EPA CIWMB
Operations Chief**

APPENDIX E
PROPERTY ASSESSMENT FORM

