



**LAKE COUNTY AIR QUALITY  
MANAGEMENT DISTRICT**  
885 Lakeport Boulevard  
Lakeport, CA 95453  
Phone: (707) 263-7000 / Fax: (707) 263-0421

Douglas G. Gearhart  
Air Pollution Control Officer

**SERPENTINE DUST CONTROL PLAN**

Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_

Address: \_\_\_\_\_ City/State: \_\_\_\_\_ / \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_ Pager/Cell #: \_\_\_\_\_

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

Owner Address: \_\_\_\_\_ City/State: \_\_\_\_\_

Owner Phone: \_\_\_\_\_

**Job Location:** \_\_\_\_\_

Contractor Name: \_\_\_\_\_

Mail Address: \_\_\_\_\_ City/State: \_\_\_\_\_ / \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_ Pager/Cell #: \_\_\_\_\_

Project Description: \_\_\_\_\_

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

(Attach map and grading plan)

Amount of off site disposal: \_\_\_\_\_ yd<sup>3</sup>

Disposal Location: \_\_\_\_\_

Name of property owner at location: \_\_\_\_\_

Mailing address of property owner: \_\_\_\_\_

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

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Serpentine Material Supply Notice Required? Yes  No  (Attach Copy)

## Serpentine Dust Control Plan

All work performed in serpentine containing greater than 1% asbestos shall utilize adequate control measures to prevent visible dust at all times.

The following items will be implemented to control dust during work in regulated serpentine. Check all boxes that are planned to be implemented. Items marked with (\*) are mandatory minimum requirements.

- 1. Pre-wet work area and immediately follow with fine spray application preferably on the immediate area being worked to eliminate visible dust to the extent possible.
- 2.\* Perform work during wet season, when possible, during light rainfall
- 3.\* Limit vehicle access to exposed serpentine surfaces with effective barrier(s). Describe type of barrier: \_\_\_\_\_
- 4.\* Asbestos Hazard Notice Posting. Conspicuously post and maintain notice at entry to regulated area. Size not less than 12" x 18". Danger - Asbestos Dust Hazard, Cancer and Lung Disease Hazard, Authorized Personnel Only.
- 5.\* Vehicle speed limit on exposed serpentine to reduce fiber releases.  
Posted Speed Limit:  5 mph  10 mph  Other: \_\_\_\_\_
- 6.\* Cover serpentine surfaces exposed to vehicle travel with non-asbestos cover material. Describe cover material and depth of coverage: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 7. Exposed Surface Stabilization: Maintain a high moisture condition of the disturbed surface or apply a "binder" material to seal loose fibers together and to the parent rock particle. Dust palliatives such as lignin sulfonate, magnesium chloride, pitch, rosin and polymer emulsions can be effectively utilized in a variety of applications. Describe Stabilization Method(s): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 8.\* Material transfers or stockpiles of loose material should be kept adequately wet, sealed by a palliative or covered where conditions warrant.
- 9.\* Material transfer requirements: Material must be wet. Transfers more than 1 mile must be tarped.
- 10.\* Provide employee notification of potential health risk of airborne asbestos and the requirements of the asbestos dust mitigation plan. A copy of the notification, signed by the on site workers is to be provided to the District upon request.
- 11. Worker safety precautions and exposure monitoring should be considered but is not specifically required by District regulation. Other agency regulations (OSHA) are applicable. Results of worker monitoring tests are to be provided the District upon request.
- 12.\* Site Access: Establish and maintain a minimum of 75 feet of track-out prevention surfacing at the entrance to the location. Materials tracked onto the public road shall be removed, as necessary, to prevent visible emissions.
- 13.\* Avoid working when sustained wind speeds are greater than 10 mph unless adequate dust control can be maintained.

Plan Fee: \$79.71

Make check payable to the Lake County AQMD, and submitted along with the notification.

I hereby acknowledge that I understand the requirements of the Lake County Air Quality Management District Serpentine Dust Control Regulation and will comply with the rule by implementing this control plan.

\_\_\_\_\_ Date: \_\_\_\_\_  
Responsible Individual Name

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District Use Only

Plan submittal fee: \$79.71 Received: \_\_\_\_\_ Date: \_\_\_\_\_

By: \_\_\_\_\_ Receipt No. \_\_\_\_\_

Review By: \_\_\_\_\_ Review Date: \_\_\_\_\_

Approved By: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Approved With Revisions: yes / no (Attach Revised Approval Letter)

**DANGER  
ASBESTOS DUST  
HAZARD**

**CANCER AND  
LUNG DISEASE HAZARD**

**AUTHORIZED  
PERSONNEL  
ONLY**

**Contact Name: \_\_\_\_\_**  
**Phone #: \_\_\_\_\_**

**Minimum Sign Size 12" x 18"**

### **Worker / Visitor - Asbestos Hazard Notification**

This project is located on or near serpentine rock or soils. Regulated amounts of Asbestos are common in the serpentine areas of Lake County. This project is being constructed in compliance with the attached Serpentine Dust Control Plan. Dust control for this project is regulated by the Lake County Air Quality Management District. All workers will read and follow the requirements of the attached plan and certify their receipt of asbestos hazard training and understanding of the dust control measures to be utilized by signature.

The material on this site is known or presumed to contain asbestos in a concentration of greater than 1%. The release and breathing of asbestos fibers can be a health hazard to both the site workers and neighboring residents. It is important that asbestos fibers not be released to the air or carried off-site on clothing or vehicles and cause off site exposures.

### **The Primary Asbestos Diseases**

**Asbestosis** - This disease occurs when asbestos fibers irritate and scar the air sacs in the lungs. This restricts the ability to transfer oxygen to the blood and results in breathing and heart problems. There is no treatment for asbestosis.

**Mesothelioma** - This disease is a cancer of the lining of the chest (pleural cavity) or abdominal cavity and is always fatal. Asbestos exposure is the only known cause of mesothelioma.

**Cancers** of the lung, stomach or colon - Those types of cancers may result from asbestos exposure. They have varying prognoses.

Most asbestos related disease have long latency periods. Symptoms may not appear for five to forty years.

Asbestos exposure and smoking are particularly dangerous. The risk of developing lung cancer is more than ninety times as great for people that smoke and are exposed to asbestos.

**I have read and understand the asbestos hazard notice and the requirements of the serpentine dust control plan.**

Name \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

### **Safety Tips:**

- 1) Asbestos causes problems primarily through the breathing of small fibers in the dust.
- 2) Asbestos fibers can be released by disturbing serpentine surfaces during digging, grading and traffic use.
- 3) Adequate watering, dust control treatments or the covering exposed serpentine surfaces can limit the release of asbestos fibers to the air.

Maintaining a clean work-site and following the serpentine dust control plan should minimize your exposure to asbestos fibers. **Report any observed problems to you supervisor immediately.** We can't change the fact that asbestos is present at this location, but we can effectively manage the hazards. **If you are not sure what to do, ASK!**

# Receipt Notice of Serpentine Material Supply

District Permit # \_\_\_\_\_

Any person who sells, supplies, or offers for sale serpentine material within the District, shall obtain a valid District Permit.

Name of Person Supplying Serpentine: \_\_\_\_\_

Mail Address of Supplier: \_\_\_\_\_

Notice/Supply Date: \_\_\_\_\_ / \_\_\_\_\_

Location Address of Serpentine Origin: \_\_\_\_\_

Amount of Serpentine Supplied: \_\_\_\_\_ (cubic yards or weight)

Serpentine Material Use: ( ) Non-Surfacing ( ) Surfacing

If used for surfacing, the supplier certifies that the material has been tested in accordance with Section 93106 California Code of Regulations and has been found to contain less than 0.25% asbestos.

Notice/Supplier: Name/Signature \_\_\_\_\_ / \_\_\_\_\_

## **\*WARNING\***

**Serpentine material may contain Asbestos. Asbestos is known to cause cancer. Extreme care should be taken when handling this material to minimize the generation of dust.**

**It is unlawful to use serpentine material for surfacing or any application in which it would remain exposed and subject to possible disturbance unless the material has been tested and found to contain less than or equal to one quarter percent (0.25%) asbestos. All test for asbestos content must use California Air Resources Board Test Method 435, and a written record documenting the test result(s) must be retained for at least seven years if the material is used for surfacing.**

*I acknowledge receipt of this notice for the amount and use of the serpentine material shown above. I certify that I have a LCAQMD Approved Serpentine Dust Mitigation Plan on file with the District and will comply with local and state requirements.*

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Recipient Phone # \_\_\_\_\_

Recipient Mail Address \_\_\_\_\_

Location/Address of Serpentine Use: \_\_\_\_\_

\*Received By: \_\_\_\_\_

***\*Each person receiving the serpentine material must acknowledge that they have received the above statement.***

## **Asbestos Inspectors, Consultants, and Laboratories**

*This listing of persons, firms or service providers should not be considered an endorsement of acknowledgement of the acceptability of the work or services provided. The above list is information only and the user is cautioned to examine the credentials of any contractor, person, firm or service provided prior to entering into a contractual agreement.*

*\* Geologists/Consultants    \*\* CARB Method 435 bulk soils asbestos analysis*

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Arturo Casas  
Hygeia Laboratories Inc.  
82 W. Sierra Madre Blvd.  
Sierra Madre, CA 91024-2434  
626-355-4711

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Environmental Hazards Services  
7469 White Pine Rd  
Richmond, VA 23237  
804-275-4788

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J.A. Townsley Co.  
400 Tamal Plaza, Suite 404  
Corte Madera, CA 94925  
415-924-3566

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BACE Geotechnical \*  
761 S. State St.  
Ukiah, CA 95482  
462-5280

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Frank Raviola, Technical Sup. \*\*  
Micro Analytical Laboratories, Inc.  
5900 Hollis St., Suite M  
Emeryville, CA 94608-2008  
510-653-0824

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James A. Richards \*\*  
MACS Lab, Inc.  
2070 A Walsh Ave.  
Santa Clara, CA. 95050  
408-727-9727

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Benchmark Property Inspections  
206 Walsh Ave., Suite C-2  
Santa Clara, CA 95050  
408-982-9607

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George Rau \*  
Geotechnical Consultant  
Rau & Associates  
100 N. Pine  
Ukiah, CA 95482  
462-6536

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Jerrie Waltz  
E.R. Adams, Inc.  
2370 Rickenbacker Way  
Auburn, CA 95603  
916 885-8504

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Bernadine M. Kolk \*\*  
EMS Laboratories, Inc.  
117 West Bellevue Dr.  
Pasadena, CA 91105-2503  
626-568-4065

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Greg Arnold \*  
GeoPacific  
4373 Hessel Ct.  
Sebastopol, CA 95472  
829-8009

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Jim Winters  
Winzler & Kelly, Engineers  
495 Tesconi Circle  
P.O. Box 6598  
Santa Rosa, CA 95406  
523-1010

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Chris Kirschenheuter  
Bluewater Env. Services Inc.  
727 77th Avenue  
Oakland, CA 94621  
510-638-8384

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Gregory J. Reller, R.G.  
Geologist  
Tetra Tech EM Inc.  
10670 White Rock Rd. Suite 100  
Rancho Cordova, CA 95670  
916-853-4531

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Joe Nixt  
Systems Abatement  
P.O. Box 1207  
Anderson, CA 96007  
530-945-4215

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Clifton J. Kiser  
AmeriSci Los Angeles  
24416 South Main St., Suite 308  
Carson, CA 90745  
310-834-4868

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Greta Galoustian  
Los Angeles Unified School Dist.  
BSC Annex  
1449 So. San Pedro Street  
Los Angeles, CA 90015  
213-745-1138

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John Walker  
E&W Construction  
1291 Talmage Rd.  
Ukiah, CA 95482  
468-1228

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David Sandusky \*\*  
Forensic Analytical Specialties,  
Inc.  
3777 Depot Road, Suite 409  
Hayward, CA 94545-2761  
510-887-8828

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H. Bergland  
W & E Asbestos Abatement Inc.  
1291 Talmage Rd.  
Ukiah, CA  
463-4812

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Ken Anton \*  
Anton Geological  
877-3278

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Dick Davis  
CalTech Environmental Inc.  
727 Azalea St.  
Napa, CA 94558  
800-273-9992

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HazMat Solutions, Inc.  
1113 First Street  
Novato, CA 94945  
415-897-1234

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Kevin Smith  
KSL  
505-1 S. Hwy 49, #101  
Jackson, CA 95642  
209-286-1822

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*\* Geologists/Consultants    \*\* CARB Method 435 bulk soils asbestos analysis*

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Mark Bailey \*\*  
Asbestos TEM Laboratories, Inc.  
630 Bancroft Way  
Berkeley, CA 94710  
510-704-8930

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Paul Brophy \*  
EGS Inc.  
725 Farmers Lane, Suite 8  
Santa Rosa, CA 95405  
707-544-0955

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Terrence Bennett, Business  
Manager  
Precision Micro-Analysis  
5685-A Power Inn Rd.  
Sacramento, CA 95824  
916-381-0695

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Marvin Snap \*  
SI Consulting  
#11 Clotilda Ct.  
Mill Valley, CA 94941  
415-389-5943

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Peter Almondinger \*  
Gemini Petrographic  
1516 Grant Ave  
Novato, CA 94947  
800-655-9016

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Terry Sackett  
PW Stephens Contractors Inc.  
500 Giuseppe Ct., Suite #6  
Roseville, CA 95678  
916-782-2204

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Michael Edwards  
Senior Industrial Hygienist  
Sensible Solutions  
1125-B Arnold Dr., Suite 278  
Martinez, CA 94553  
925-370-9737

---

Ralph Curran  
2137 Stonfield Lane  
Santa Rosa, CA 95403  
525-0337

---

Tommy Conlon  
ASBESTECH  
6825 Fair Oaks Blvd., Suite 103  
Carmichael, CA 95608  
916-481-8902

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Mike Maladzhikyan  
Western Analytical Laboratory,  
Inc.  
12734 Branford St., Unit #19  
Arleta, CA 91331  
818-899-0949

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Ralph Hagdorn  
D. Young Construction  
P.O. Box 195  
Lucerne, CA 95458  
274-2400

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Will Davis  
Env. Health & Safety Services  
422 South Main Street  
Lakeport, CA 95453  
262-0554

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Montgomery Laboratories  
555 East Walnut St.  
Pasadena, CA 911011  
818-796-9141

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Richard Bazzano Construction  
395 Perkins St.  
Ukiah, CA 95482  
468-4626

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Mr. Juan Hidalgo  
RGH Geotechnical &  
Environmental Consultants  
468 Yolanda Ave., Suite 204  
Santa Rosa, CA 95404  
544-1072

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Sean Fitzgerald \*\*  
RJ Lee Group, Inc.  
530 McCormick St.  
San Leandro, CA 94577  
510-567-0480

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Neil A. Thomsen \*  
Engineering Geologist  
Thomsen Consulting Engineers  
1760 Merritt Rd.  
Lakeport, CA 95453  
263-8303

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Sidhu Harkamaljit \*\*  
EMSL Analytical, Inc.  
2235 Polvorosa Ave. Suite 230  
San Leandro, CA 94577  
888-455-3675

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Nick Rottunda  
SAIL  
4224 Campus Pt. Ct., Suite 100  
San Diego, CA. 92121  
619-535-7418

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Steve Wilbur, Lab Supervisor  
AccuLab/Environmental Services  
3700 Lakeville Hwy  
Petaluma, CA 94952  
763-8245