



May 21, 2021

Mr. Adam Dutter, Project Manager
Ojai Unified School District
414 East Ojai Avenue
Ojai, CA 93023

Subject: Asbestos Roofing Survey
Nordhoff High School – Buildings A & B
1401 Maricopa Highway
Ojai, CA 93023
FCG Project Code: Ojai USD-61

Dear Mr. Dutter:

FCG Environmental (FCG) conducted an asbestos roofing survey of Buildings A and B, located on the Nordhoff High School campus. The investigation was performed on May 18, 2021 by FCG personnel, under the supervision of Alan Forbess, a CA Certified Asbestos Consultant (CAC No. 94-1549). This report documents the results of our survey, which was conducted to identify proper handling of hazardous materials prior to roofing replacement activities.

1.0 Background Information / Scope of Project

Background: FCG was asked to perform a survey of representative roofing materials to identify asbestos containing materials in accordance with federal, state and local regulations prior to a roofing replacement project on both Buildings A & B.

Scope of Project: The asbestos survey included the following components:

- A visual inspection of representative roofing materials was conducted to identify suspect asbestos containing materials.
- Bulk samples were collected from suspect asbestos containing materials for submittal to a qualified laboratory for analysis. All bulk samples were analyzed by SGS Forensic Analytical, a state-certified laboratory located in Carson, CA. Samples were analyzed by polarized light microscopy (PLM) methods to document the asbestos content in each material. Please see the attached laboratory analytical data for more information.
- All field observations, laboratory analytical data and other findings have been evaluated, with this written report summarizing our findings and providing recommendations as necessary.

2.0 Asbestos Survey Findings

Suspect Materials: After a visual inspection of the site was completed, the following suspect asbestos materials were noted on both Buildings A & B:

- Main Roofing layers (shingles, felts, tars, etc.)
- Roofing mastics (used to seal around penetrations, etc.)
- Transite (asbestos-cement) pipes (observed but not sampled)

Bulk Sampling Results: FCG collected 10 bulk samples from suspect asbestos containing materials from the roofing materials on Buildings A & B. Samples were forwarded to SGS Forensic Analytical, a state-certified asbestos laboratory located in Carson, CA. All samples were analyzed by Polarized Light Microscopy (PLM) using EPA Method 600/R-93-116, Visual Area Estimation. Table 1 below provides a summary of those materials which tested positive for asbestos based on laboratory analytical results. Please refer to the Attachments for a complete copy of the laboratory analytical report.

Table 1: List of Asbestos Containing Materials

Sample Number(s)	Asbestos Containing Material	Location	% Asbestos (Chrysotile)	Category & Friability
10	Roofing Mastic	Building B Large Vent Pipe NW Area (<1 sf)	Black Mastic = 7%	Category I, Non-friable Material
---	Transite Pipes	Building A (1 Pipe) & Building B (2 Pipes)	Presumed ACM	Category II, Non-friable Material
<p><i>All other suspect materials tested negative for asbestos. Please refer to the attached lab report and bulk sample log forms for additional information.</i> <i>PACM = Presumed Asbestos Containing Materials</i></p>				

Materials Testing Negative for Asbestos: The main roofing layers from both Buildings A & B tested negative for asbestos. This includes shingles, tars and felts for both roofs. Mastics on Building A tested negative for asbestos.

Notes on Tables and Assessment Terms:

- **Asbestos containing material (ACM):** Federal and County APCD regulations define ACM as any material or product that contains more than 1% asbestos.
- **Asbestos containing construction material (ACCM):** State regulations define ACCM as any material with greater than 0.1% asbestos by weight.
- **Asbestos renovation:** Defined by NESHAPS as the removal of more than 160 square feet or 260 linear feet of ACM. OSHA requires registration of all contractors removing more than 100 sq. ft. on any project.
- **Friable ACM:** any ACM that when dry can be crumbled, pulverized, or reduced to powder by normal hand pressure.
- **Non-friable ACM:** any ACM that **cannot** be reduced to powder by normal hand pressure.

- Category I non-friable ACM: asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products (typically pliable materials, including sealants and mastics).
- Category II non-friable ACM: any other ACM that when dry **cannot** be reduced to powder by hand pressure (typically non-pliable/cementitious materials).
- Regulated Asbestos Containing Material (RACM): any *friable* ACM that will be removed during a renovation of a regulated structure. ACM that will become friable due to the removal technique is also regulated. Note: while linoleum flooring is considered Category II ACM while managed in place, removal *always* renders it friable.
- Presumed Asbestos Containing Materials (PACM): This designation is for those materials which are normally asbestos containing but were not sampled due to access issues or potential for irreparable damage. This typically includes transite (asbestos cement) piping or sheeting, or HVAC insulation materials in walls, under floors, etc. where destructive testing is not recommended. Regulations allow asbestos inspectors to “presume” that these materials contain asbestos without laboratory data based on the inspector’s experience and knowledge of building materials.

Summary: Our survey has identified Asbestos Containing Materials (ACM) at the site which will require abatement or special handling if they are to be disturbed as part of roofing replacement activities. Please see the Conclusions & Recommendations (Section 3.0) below for further discussion regarding the abatement and handling of asbestos.

3.0 Conclusions & Recommendations

An asbestos survey has been completed per the terms of our agreement to define hazardous materials issues prior to roofing replacement. Based on our visual observations and our evaluation of analytical data, we conclude the following:

- **Identified Asbestos Containing Material (ACM):** The following Asbestos Containing Materials (ACM) contain greater than 1% asbestos and are regulated under current federal, state and local regulations:
 - **Roofing Mastic (5% Chrysotile):** This mastic was found on a large vent in the northwest portion of Building B with less than 1 square foot. This mastic is considered a Category I, non-friable material.
- **Presumed Asbestos Containing Materials (PACM):** The following materials were observed but were not sampled to avoid permanent or irreparable damage. The current asbestos inspection standards and regulations allow a certified inspector to identify PACM to avoid damage to the material. These items must be managed as asbestos containing unless later sampling indicates otherwise:
 - **Transite (asbestos-cement) Pipes (PACM):** One exhaust flue pipe was noted on Building A and 2 pipes were noted on Building B. Transite pipes are considered a Category II, non-friable material.

Asbestos Recommendations

- All identified and presumed asbestos containing materials (ACM) that will be disturbed as part of site work must be handled in accordance with applicable federal, state and local regulations. Disturbance activities should be performed only by properly trained abatement contractors using appropriate controls to prevent fiber emissions during the

removal process. This may include the use of wet methods (water mist), negative pressure containment, HEPA filtration and other engineering controls to keep fibers from being dispersed in accordance with current federal, state and local regulations.

- Workers performing removal should be properly protected to prevent exposure, including the use of respiratory protection with HEPA filtration, protective suits, etc. Engineering controls must be in place. Disturbance of greater than 100 sq. ft. of any ACM or ACCM must be performed by trained and licensed asbestos contractors that are currently registered with the Dept. of Occupational Safety & Health (DOSH or Cal/OSHA).
- Asbestos containing waste materials must be properly contained and transported for off-site disposal at a permitted landfill or disposal facility. Friable asbestos is considered hazardous waste per current federal and state regulations and must be transported and disposed using proper manifesting documentation. Non-friable asbestos is categorized as non-hazardous, asbestos-containing waste and can typically be disposed to the local Class III landfill with prior approval.
- The local enforcement agency for asbestos removal projects in this area is the Ventura County Air Pollution Control District (APCD). They require notification for removal of friable, regulated asbestos containing materials in quantities which exceed 100 square feet. Regardless of the quantities found, the survey report should be submitted for their review along with any required documentation or notifications for their review and approval. They also require notification for all demolition projects, including projects where a load-bearing wall is removed. Additional permit requirements may apply from the local Building Department. We recommend that you contact the local APCD and appropriate agencies directly for further information regarding permitting and regulatory requirements.
- The contractor conducting abatement work is responsible for complying with local, state and federal standards for worker protection and NESHAPS regulations regarding asbestos fiber emissions. Proper removal techniques must be followed to prevent the dissemination of asbestos fibers. Notification and permitting is typically the responsibility of the abatement contractor and/or property owner. If you would like assistance regarding these matters or would like the names of qualified contractors in your area, please feel free to contact FCG at (805) 646-1995.

General: As our survey was limited to readily accessible areas, there is potential that suspect materials previously unidentified could be discovered during roofing replacement activities. If suspect materials are found during replacement work, the area should be isolated and any suspect materials tested to confirm or deny the presence of asbestos, lead or other hazards.

Limitations Statement

The data compiled and evaluated as part of this assessment was limited and may not represent all conditions at the subject site. Asbestos was widely used until the late 1970's in thousands of building materials (i.e. joint compound, wallboard, thermal system insulation (TSI), acoustical ceiling, roofing material, etc.), making it difficult to locate all areas of ACM usage. This assessment reflects the data collected from the specific locations tested to identify Asbestos Containing Materials (ACM) in those locations and may not be all encompassing. There is always potential for asbestos containing materials to be missed due to problems with accessibility, and the broad variety of uses. The presence or absence of lead-based paint or lead-based paint hazards applies only to the tested or assessed surfaces on the date of the field visit. It should be understood that conditions noted within this report were accurate at the time of the inspection and in no way reflect the conditions at the property after the date of the inspection. All data collection, findings, conclusions and recommendations presented by FCG within this report are based upon limited data using current standard practices accepted within the industry. The conclusions and recommendations presented within this report are based on current regulations and the professional experience of the certified professionals involved in this project.

The data collected during this assessment and any resulting recommendations shall be used only by the client for the site described in this report. Any use or reliance of this report by a third party, including any of its information or recommendations, without the explicit authorization of the client shall be strictly at the risk of the third party.

It should not be misconstrued that this assessment has identified any or all environmental conditions at the subject site. FCG makes no representations regarding the accuracy of the enclosed data and will not be held responsible for any incidental or consequential loss or punitive damages including but not limited to, loss of profits or revenues, loss of use of a facility or land, delay in construction or action of regulatory agencies.

If you have any questions or concerns regarding the information provided, please do not hesitate to call us at 805.646.1995.

FCG Environmental



Alan Forbes, Principal Consultant
CA Certified Asbestos Consultant No. 94-1549

Attachments: SGS Forensic Analytical Laboratory Report
FCG Bulk Sample Field Log
Inspector Certifications

Attachments

Laboratory Analytical Results
Bulk Sample Log Sheets
FCG Inspector Certifications

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-1

Forbess Consulting Group (FCG)
Alan Forbess
1009 Mercer Avenue

Ojai, CA 93023

Client ID: 7238
Report Number: B318056
Date Received: 05/19/21
Date Analyzed: 05/19/21
Date Printed: 05/19/21
First Reported: 05/19/21

Job ID/Site: Ojai USD -61; Nordhoff HS - Bldgs A + B, 1401 Maricopa Hwy, Roofing Survey

SGSFL Job ID: 7238
Total Samples Submitted: 10
Total Samples Analyzed: 10

Date(s) Collected: 05/18/2021

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1	51439392						
Layer: Grey Red Roof Shingle			ND				
Layer: Red Roof Shingle			ND				
Layer: Wood			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (30 %)	Fibrous Glass (20 %)						
2	51439393						
Layer: Grey Red Roof Shingle			ND				
Layer: Red Roof Shingles			ND				
Layer: Wood			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (35 %)						
3	51439394						
Layer: Grey Red Roof Shingle			ND				
Layer: Red Roof Shingles			ND				
Layer: Wood			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (35 %)						
4	51439395						
Layer: Black Semi-Fibrous Tar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (7 %)							
5	51439396						
Layer: Black Semi-Fibrous Tar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (7 %)							
6	51439397						
Layer: Red Roof Shingles			ND				
Layer: 2 Black Tars			ND				
Layer: 2 Black Felts			ND				
Layer: Wood			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)	Fibrous Glass (45 %)						

Client Name: Forbess Consulting Group (FCG)

Report Number: B318056

Date Printed: 05/19/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
7	51439398						
Layer: Red Roof Shingles			ND				
Layer: 2 Black Tars			ND				
Layer: 2 Black Felts			ND				
Layer: Wood			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)	Fibrous Glass (45 %)						
8	51439399						
Layer: 3 Red Roof Shingles			ND				
Layer: Black Tar			ND				
Layer: Black Felt			ND				
Layer: Wood			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)	Fibrous Glass (45 %)						
9	51439400						
Layer: Red Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
10	51439401						
Layer: Black Semi-Fibrous Tar		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							



Tiffani Ludd, Laboratory Supervisor, Carson Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



FORENSIC LABORATORIES

Analysis Request Form (COC)

Client Name & Address: FCG Environmental (Forbess Consulting Group, Inc.)
1009 Mercer Avenue
Ojai, CA 93023

Client No.: 7238

PO / Job#: **Ojai USD-61** Date: **5-18-21**

Turn Around Time: Same Day / 1Day / 2Day / 3Day / 4Day / 5Day

PCM: NIOSH 7400A / NIOSH 7400B Rotometer

PLM: Standard / Point Count 400 - 1000 / CARB 435

Contact: Alan Forbess Phone: (805) 646-1995

E-mail: aforbess@fcgenviro.com

Site Name: **Nordhoff HS - Bldgs A + B**

Site Location: **1401 Maricopa Hwy**

Comments: **Roofing Survey**

TEM Air: AHERA / Yamate2 / NIOSH 7402
 TEM Bulk: Quantitative / Qualitative / Chatfield
 TEM Water: Potable / Non-Potable / Weight %
 TEM Microvac: Qual / D5755(str/area) / D5756(str/mass)

IAQ Particle Identification (PLM LAB) PLM Opaques/Soot
 Particle Identification (TEM LAB) Special Project

Metals Analysis Matrix: Method:
Analytes:

Silica in Air w/Gravimetry
 Quartz Only

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
		Samples 1-10	A P C				
		See Attached log	A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled By: **BRF/WAM** Date/Time: **5-18-21 10:00am** Shipped Via: Fed Ex UPS US Mail Courier Drop Off Other:

Relinquished By: **[Signature]** Relinquished By: Relinquished By:
Date / Time: **5-18-21 2:30pm** Date / Time: Date / Time:

Received By: **[Signature]** Received By: Received By:
Date / Time: **5-18-21 10am FIE 8007** Date / Time: Date / Time:
Condition Acceptable? Yes No Condition Acceptable? Yes No Condition Acceptable? Yes No

SGS Forensic Laboratories may subcontract client samples to other SGSEL locations to meet client requests.
 San Francisco Office: 3777 Depot Road, Suite 409, Hayward, CA 94545-2761 • Phone: 510/887-8828 • 800/827-3274
 Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 • Phone: 310/763-2374 • 888/813-9417
 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040

FCG Environmental Inc.

Asbestos Bulk Sampling Field Log

Date:	5/18/21
Client:	OUSD
Site:	NORDHOFF H.S.
Project:	OUSD-61
Inspector(s):	BF/WM
Area/Unit:	BLDG. A & B

Friable: Friability Codes: N=Non-friable; F=Friable
 Cond: Condition Codes: G=Good; F=Fair; P=Poor

NA=Not Analyzed
 ND=Detected
 N=Negative

Sample #	Material Sampled	Sample Location	Quantity	Homogeneous Area	Friability	Condition
1	ROOF LAYERS	BLDG. A NE SMALL PITCHED	T/D		N	F
2	↓ ↓	NE MAIN	↓		}	}
3	↓ ↓	SW MAIN	↓			
4	ROOF MASTIC	2" VENT PEN SW AREA	6 SF	ALL PENETRATIONS		
5	↓ ↓	4" PEN. NW AREA	↓	↓		
6	ROOF LAYERS	BLDG. B NE SMALL PITCHED	T/D			
7	↓ ↓	NE MAIN	↓			
8	↓ ↓	SW MAIN	↓			
9	ROOF MASTIC	1 1/2" VENT PEN. SW AREA	8 SF	WHITE MASTIC ALL SMALL PEN		
10	↓ ↓	LARGE VENT NW AREA	< 1 SF	GREY MASTIC 1 LARGE VENT		
PALM	TRANSITE PIPE	BLDG A	1			
PALM	↓ ↓	BLDG B	2		N	F

Alan W. Forbess, Certifications (2021-2022)

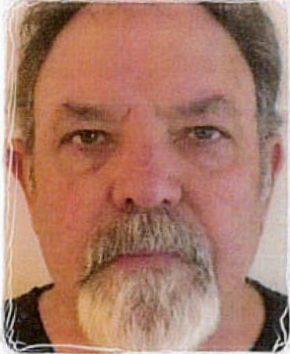
State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Alan Wayne Forbess
Name

Certification No. 94-1549


Expires on 01/12/22

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.




California Department of **PublicHealth**

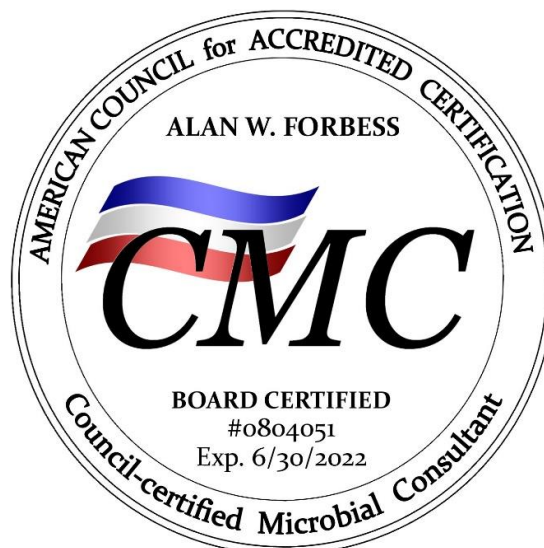
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 Alan Forbess	Lead Inspector/Assessor Lead Project Monitor	LRC-00000505 LRC-00000504	6/18/2021 6/18/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.



FCG Staff Certifications – William A. Miller

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician


William A Miller
Name




Certification No. 07-4160

Expires on 03/22/22


This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.




STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 William Miller	Lead Inspector/Assessor Lead Project Monitor	LRC-00000721 LRC-00000720	6/13/2021 6/13/2021

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.



NIOSH582-022508-001
Certificate Number


ENVIRONMENTAL NETWORK CORPORATION
 16750 Valley View Avenue, La Merida, California 90638
 (714) 523-9811 Fax (714) 523-9810
 main@encorp.net


This is to certify that

William Miller
 000-00-7208

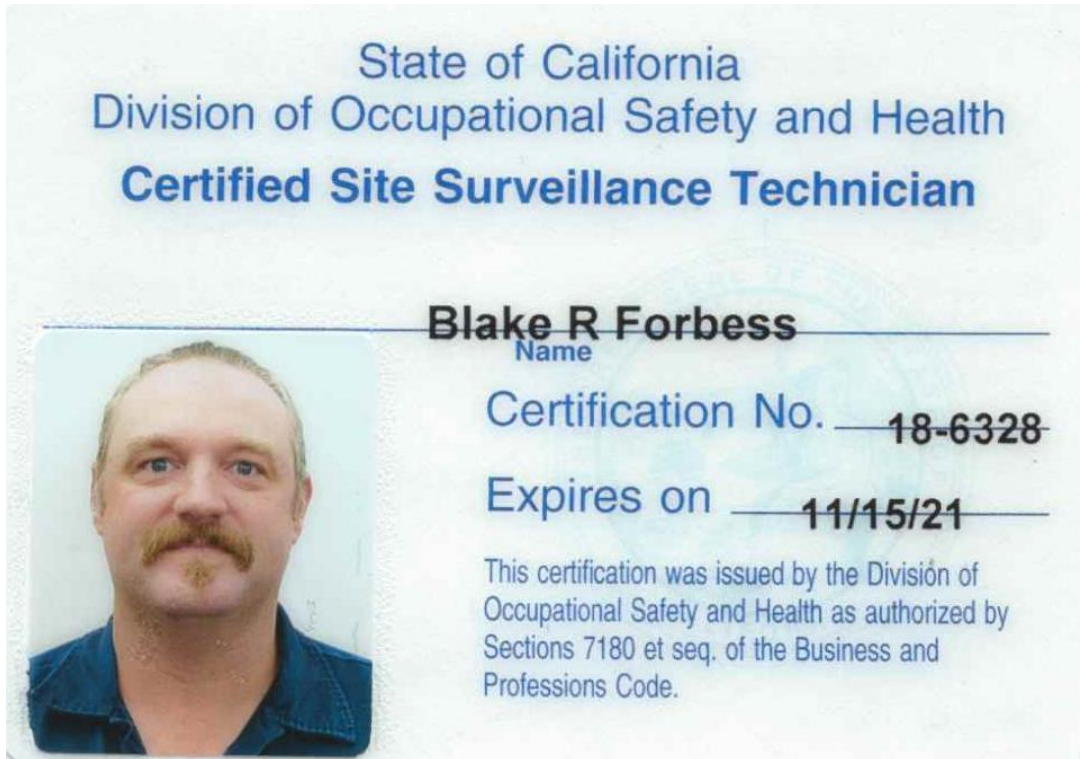
has attended and satisfactorily completed the course in
Sampling and Evaluating Airborne Asbestos Dust
NIOSH 582 Equivalent




on this day
 February 29, 2008


 William Bohning
Course Instructor


 Miguel Orozco
Laboratory Manager

Blake Forbess Certifications 2020-2021



	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH			
LEAD-RELATED CONSTRUCTION CERTIFICATE				
INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:	
	Lead Sampling Technician	LRC-00003725	10/31/2021	
Blake Forbess				
<p>Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.</p>				