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September 15, 2021

ASBESTOS INSPECTION REPORT

Holloman Elementary School
Holloman Air Force Base
Alamogordo, NM

Prepared For:

Alamogordo Public Schools
1211 Hawaii Ave.
Alamogordo, NM 88310

Scott Puma
Environmental Consultant



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Albuquerque, NM 87176

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ASBESTOS INSPECTION REPORT

Date: September 15, 2021

Client: Alamogordo Public Schools
1211 Hawaii Ave.
Alamogordo, NM 88310

Attn: Justin Burks

Site Address: Holloman Elementary School
Holloman Air Force Base
Alamogordo, NM

Site Information: The site consists of an elementary school with four buildings/wings; the main building, west wing, east wing, and cafeteria. The gross school building square footage is approximately 76,000 square feet. The buildings are currently occupied, but scheduled for demolition.

Date of Inspection: June 9th and 23rd, 2021

Inspectors: Scott Puma (Certification # ABIR-N2021-1057)
Junior Fresquez (Certification # ABIR-N2021-1068)

INTRODUCTION

Havona Environmental, Inc. is pleased to present you with the results from the asbestos inspection conducted at Holloman Elementary School located on Holloman Air Force Base in Alamogordo, New Mexico. Havona Environmental was authorized by Justin Burks, Chief of Capital Outlay and Facilities, to conduct the inspection. All work performed at this site was done by accredited AHERA asbestos inspectors and in general accordance to all applicable regulations.

On June 9th and 23rd, 2021 Scott Puma and Junior Fresquez, AHERA accredited asbestos inspectors with Havona Environmental, conducted the inspection. The purpose of the inspection was to identify, map, and quantify the suspect asbestos containing materials from the interior and exterior of each building. Some areas were inaccessible at the time of the inspection.

SITE INFORMATION

The site consists of an elementary school with four buildings/wings; the main building, west wing, east wing, and cafeteria. The gross school building square footage is approximately 76,000 square feet. The buildings are currently occupied, but scheduled for renovation or demolition. Each building/wing was inspected independently of one another.

Main Building

The main building is approximately 18,000 square feet. The interior of the building consists of plaster, ceramic tile, textured drywall, CMU block, and ceramic block for the walls; spray applied ceiling texture, plaster, lay in ceiling tile, and glued on ceiling tile for the ceilings; and carpet, ceramic, concrete, and vinyl floor tile for the floors. The exterior of the building is CMU block and brick with a flat roof.

At this site, a total of one hundred nine samples were collected of thirty-six homogenous materials from fifty-four functional spaces and the exterior. The materials sampled included; cove base mastic, carpet mastic, glued on ceiling tile mastic, cork board mastic, vinyl floor tile/mastic, pipe mud fittings, textured drywall, taping compound, plaster, glued on ceiling tile, lay in ceiling tile, spray applied ceiling tile, duct mastic, roof core, roof tar, CMU block surface compound, sink under coat, window glazing, window/door caulking, stucco, transite panels, transite chalk board, and peg board.

Of the materials sampled, nine were identified to be asbestos containing materials (ACM) and two were assumed to be ACM. The materials identified to be ACM include three types of vinyl floor tile/mastic, residual black flooring mastic, spray applied ceiling texture, window/door caulking, stucco, transite panels, and transite chalk boards/mastic. The materials assumed to be ACM include the vault door insulation and chalk board mastic.

West Wing

The west classroom wing is approximately 10,225 square feet. The interior of the building consists of textured drywall, CMU block, plaster, and ceramic tile for the walls; glued on ceiling tile and plaster for the ceilings; and carpet, concrete, ceramic, and vinyl floor tile for the floors. The exterior of the building is CMU block and brick with a flat roof.

At this site, a total of sixty-seven samples were collected of twenty-three homogenous materials from twenty-nine functional spaces and the exterior. The materials sampled included; cove base mastic, carpet mastic, glued on ceiling tile mastic, vinyl floor tile/mastic, pipe mud fittings, pipe insulation, textured drywall, taping compound, plaster, glued on ceiling tile, duct mastic, CMU block surface compound, stucco, window glazing, door/window caulking, roof penetration tar, and roof core.

Of the materials sampled, nine were identified to be asbestos containing materials (ACM). The materials identified to be ACM include four types of vinyl floor tile/mastic, pipe mud fittings, pipe insulation, stucco, window glazing, and exterior CMU block surface compound.

Cafeteria Building

The cafeteria building is approximately 7,560 square feet. The interior of this building consists of textured drywall, ceramic, plaster, and CMU block for the walls; lay in ceiling tile, metal, glued on ceiling tile, and textured drywall for the ceilings; and concrete, vinyl floor tile, ceramic tile, and epoxy for the floors. The exterior of the building is brick and CMU block with a flat roof.

At this site, a total of fifty-nine samples were collected of twenty homogenous materials from fifteen functional spaces and the exterior. The materials sampled included; cove base mastic, vinyl floor tile/mastic, epoxy floor coating, pipe mud fittings, textured drywall, taping compound, plaster, lay in ceiling tile, stapled on ceiling tile, CMU block surface compound, window glazing, door/window caulking, stucco, pipe penetration fill, roof duct tar/silver paint, roof penetration tar, and roof core.

Of the materials sampled, nine were identified to be asbestos containing materials (ACM). The materials identified to be ACM include the cove base mastic, pipe mud fittings, taping compound, interior/exterior CMU block surface compound, window glazing, door/window caulking, roof duct tar/silver paint, and roof penetration tar.

East Wing

The east wing includes an original classroom wing with an addition that is approximately 26,330 of gross square feet. The interior of the building consists of CMU block, plaster, ceramic, ceramic, and textured drywall for the walls; lay in ceiling tile, plaster, textured drywall, and glued on ceiling tile for the ceilings; and carpet, ceramic, concrete, and vinyl floor tile for the floors. The exterior of the building is CMU block and brick with a flat roof.

At this site, a total of ninety-one samples were collected of thirty-one homogenous materials from thirty-six functional spaces and the exterior. The materials sampled included; cove base mastic, carpet mastic, glued on ceiling tile mastic, vinyl floor tile/mastic, pipe mud fittings, textured drywall, taping compound, plaster, glued on ceiling tile, lay in ceiling tile, roof core, roof penetration tar, roof duct mastic/silver paint, sink under coat, CMU block surface compound, window/door caulking, window glazing, stucco, and transite panels.

Of the materials sampled, seven were identified to be asbestos containing materials (ACM). The materials identified to be ACM include three types of vinyl floor tile/mastic, window/door caulking, exterior CMU block surface compound, transite door panel, and transite soffit panels.

RESULTS

The following materials were sampled and identified by laboratory analysis to be asbestos containing materials or assumed to be asbestos containing materials:

Main Building

Material	Location	Quantity/Amount	Asbestos Content
9x9 (A) Beige and Brown-Streaked Vinyl Floor Tile/ Black Mastic	Auditorium	~2,480 Sq. Ft.	Tile: 5% Chrysotile Mastic: 5% Chrysotile
9x9 (B) Green Streaked Vinyl Floor Tile/ Black Mastic	11C, 12C, 10C, Lounge C, 11, 12, 10, 9, Library, 6, 4, 2, 15, 17, 19, 21, 23, 18, 16, 14, Lit. Library, Principal, Office, Secretary, Office Hall	~13,535 Sq. Ft.	Tile: 5% Chrysotile Mastic: 5% Chrysotile
9x9 (C) Red Streaked Vinyl Floor Tile/ Black Mastic	Office Vault	~64 Sq. Ft.	Tile: 3% Chrysotile Mastic: 5% Chrysotile
12x12 (B) Cream Spackled Vinyl Floor Tile/ Black Mastic	Office Restroom	~42 Sq. Ft.	Tile: None Detected Mastic: 3% Chrysotile
Spray Applied Ceiling Tile	Foyer, Auditorium, 15, 14, 17, 19, 16, 21, 23, 18, Lit. Library, Hall 2, H2 Boy's Restroom, H2 Girls Restroom	~11,600 Sq. Ft.	8% Chrysotile
Window/Door Caulking	Exterior	~7 Doors Windows ~1,560 Linear Ft.	4% Chrysotile
Stucco Soffit	Front Entry, West Entry	~60 Sq. Ft.	3% Chrysotile
Transite Roof Deck and Soffit	Roof Deck and Soffits	~25,060 Sq. Ft.	15% Chrysotile
Transite Chalk Boards/Mastic	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	4'x15' 2 Per Room ~20 Total	Boards: 15% Chrysotile Mastic: Assumed
Vault Door Insulation	Office-Vault	~1 Door	Assumed
Residual Black Flooring Mastic	1, 3, 5, 7 (Under Carpet)	~2,640 Sq. Ft.	Assumed

*Asbestos abatement contractors should verify quantities and amounts before bidding the project.

West Wing

Material	Location	Quantity/Amount	Asbestos Content
9x9 (A) Green Streaked Vinyl Floor Tile/ Black Mastic	PT Closet, Work Room Closet	~25 Sq. Ft.	Tile: 3% Chrysotile Mastic: 5% Chrysotile
9x9 (B) White Spackled Vinyl Floor Tile/ Black Mastic	PT Restroom, Work Room Restroom	~50 Sq. Ft.	Tile: 2% Chrysotile Mastic: 5% Chrysotile
9x9 (C) Beige Spackled Vinyl Floor Tile/ Black Mastic	Storage, 32C, 33C, 35C, 34C, 36C, 37C	~290 Sq. Ft.	Tile: 2% Chrysotile Mastic: 5% Chrysotile
Vinyl Floor Tile Under Carpet	32, 33, 35, 34, 36, 37, Work Room	~4,760 Sq. Ft.	Tile: 2-3% Chrysotile Mastic: 5% Chrysotile

Pipe Mud Fittings	Pipe Chase, 34C West (Assumed to be in other locations)	Unknown	6% Chrysotile
Air Cell Pipe Insulation	Pipe Chase (Assumed to be in other locations)	Unknown	6% Chrysotile
Stucco Soffit	Exterior	~1,275 Sq. Ft.	3% Chrysotile
Window Glazing	Exterior	~7 Windows	2% Chrysotile
CMU Block Surfacers	Exterior	~5,535 Sq. Ft.	2% Chrysotile

*Asbestos abatement contractors should verify quantities and amounts before bidding the project.

Cafeteria Building

Material	Location	Quantity/Amount	Asbestos Content
Cove Base Mastic (Brown)	Hall, Custodial Closet, Cafeteria	~350 Linear Ft.	2% Chrysotile
Pipe Mud Fittings	Cafeteria	Unknown	7% Chrysotile
Taping Compound A	Walls-Janitor's Closet Ceilings-Dry Storage, Kitchen Office, Gym North Storage, Janitors Closet	~525 Sq. Ft.	2% Chrysotile
CMU Block Surfacers	Interior	~9,060 sq. Ft.	3% Chrysotile
CMU Block Surfacers	Exterior	~6,000 Sq. Ft.	2% Chrysotile
Window Glazing	Exterior	Unknown	2% Chrysotile
Door/Window Caulking	Exterior	~8 Doors Windows Unknown	2-3% Chrysotile
Duct Tar/ Silver Paint	Roof Duct	~2 Ducts	5-10% Chrysotile
Roof Penetration Tar	Roof	~40 Penetrations	5% Chrysotile

*Asbestos abatement contractors should verify quantities and amounts before bidding the project.

East Wing

Material	Location	Quantity/Amount	Asbestos Content
9x9 Green Streaked Vinyl Floor Tile/ Black Mastic	Janitors Closet	~50 Sq. Ft.	Tile: 6% Chrysotile Mastic: 3% Chrysotile
9x9 Beige Spackled Vinyl Floor Tile/ Black Mastic	Office Under Carpet-24, 25, 27	~2,055 Sq. Ft.	Tile: 6% Chrysotile Mastic: 5% Chrysotile
12x12 Cream with Brown Streaks Vinyl Floor Tile/ Black Mastic	Hall 3, Hall 4	~475 Sq. Ft.	Tile: 3% Chrysotile Mastic: 5% Chrysotile
Window/Door Caulking	Exterior-Original Building	~6 Doors ~7 Windows	3% Chrysotile
CMU Block	Original Building- Exterior	~6,480 Sq. Ft.	2% Chrysotile
Transite Door Panel	Hall 1	~2 Panels	4% Chrysotile
Transite Soffit	Exterior	~1,925 Sq. Ft.	15% Chrysotile

*Asbestos abatement contractors should verify quantities and amounts before bidding the project.

Cove Base Mastic

The asbestos containing cove base mastic is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category I, Non-Friable.

Vinyl Floor Tile and Associated Mastic

The asbestos containing vinyl floor tile and associated mastic is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category I, Non-Friable.

Residual Black Flooring Mastic

The asbestos containing residual black flooring mastic is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Air Cell Pipe Insulation

The asbestos containing air cell pipe insulation is a friable, thermal insulating material that was in fair to damaged condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Pipe Mud Fittings

The asbestos containing pipe mud fittings are non-friable, thermal systems insulating material that were in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Taping/Joint Compound

The asbestos containing taping/joint compound is a non-friable, miscellaneous material that was in fair to damaged condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Spray Applied Ceiling Texture

The asbestos containing spray applied ceiling texture is a friable, surfacing material that was in fair condition at the time of sampling. Removal of this ACM is classified by OSHA as Class I work and categorized by NESHAP as a Regulated Asbestos Containing Material (RACM).

Roofing Tars

The asbestos containing roofing tars are non-friable, miscellaneous materials that were in fair condition at the time of the sampling. Removal of this ACM is not classified by OSHA and categorized by NESHAP as Category II, Non-Friable.

Window Glazing

The asbestos containing window glazing is a non-friable, miscellaneous material that was in fair to damaged condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Stucco

The asbestos containing stucco is a non-friable, surfacing material that was in fair condition at the time of the sampling. Removal of this asbestos is classified by OSHA as Class I work and categorized by NESHAP as Regulated Asbestos Containing Material (RACM).

Transite

The asbestos containing transite is a non-friable, miscellaneous material that was in fair condition at the time of the inspection. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

CMU Block Surfacing Compound

The asbestos containing CMU block surfacing compound is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of this ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-Friable.

Door/Window Caulking

The asbestos containing door/window caulking is a non-friable, miscellaneous material that was in fair condition at the time of the sampling. Removal of the ACM is classified by OSHA as Class II work and categorized by NESHAP as Category II, Non-friable.

LABORATORY ANALYSIS

Samples of suspect ACM were analyzed by CA Labs of Baton Rouge, Louisiana. CA Labs is an accredited laboratory recognized as a participant in the Department of Commerce, National Institute of Standards and Technology's, National Laboratory Accreditation Program (NVLAP # 200772-0).

Bulk samples were analyzed by Polarized Light Microscopy (PLM) and Point Count methods. Methodology: EPA 600/R-93/116.

ASBESTOS NESHAP TERMINOLOGY

Per the National Standards for Hazardous Air Pollutants (NESHAP), Subpart M-National Emission Standard for Asbestos Regulations, an "asbestos containing material" is defined as any material containing more than 1 % asbestos, as determined using the PLM method.

Materials reported with trace amounts of asbestos, less than 1%, are not regulated by EPA as ACM. OSHA identifies that it is the employer's responsibility in determining the applicability of 29CFR 1926.1101 in regards to employee exposure when materials containing equal to or less than 1% asbestos are disturbed.

Category I non-friable ACM—is asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 % asbestos.

Category II non-friable ACM—is any material, excluding Category I that contains more than 1 % asbestos and is non-friable.

Regulated Asbestos Containing Material (RACM)—is friable asbestos material, Category I ACM that has become friable, Category I that will be disturbed and become friable, and Category II ACM that has a possibility of becoming friable in the course of demolition or renovation operations

NESHAP REGULATIONS

Per NESHAP regulations, prior to the commencement of any demolition or renovation activity in the structure, all RACM must be removed from that structure if the construction activity would break, dislodge, or disturb these materials. NESHAP addresses not only friable ACM, but also those non-friable ACM's that could become friable as a result of demolition or renovation.

During renovation or demolition operations, materials may be uncovered that are different from those accessible for sampling during the survey. If suspect asbestos containing materials are found or uncovered during renovation or demolition, additional sampling should be performed to determine if the materials are asbestos containing materials.

LIMITATIONS

This report has been prepared to assist Alamogordo Public Schools in assessing the building materials at the site specified above. This report only describes the conditions present at the time of the survey, in the areas surveyed. Other conditions may exist in areas that were not surveyed or inaccessible areas, such as, behind walls, above permanent ceilings, or below floors.

Havona Environmental will not be held responsible if additional contaminants are found at the property reference above at a later date, or if contaminants are located at various locations on the property not included in the scope of work. Our professional services have been performed in a manner consistent with the level of care and skill ordinarily exercised by members of the professional community currently practicing under similar conditions in the locality of the project. No warranty, expressed or implied, is made or intended.

Havona Environmental is not responsible for any independent conclusions or recommendations made by others based on the services provided on this project. Havona assumes no liability for any loss, injury, claim or damages arising directly or indirectly from any use or reliance on this report to the opinions expressed herein.


IF YOU CHOOSE TO REMOVE ASBESTOS CONTAINING MATERIALS, IT MUST BE DONE BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR (GS-


29). YOU MUST ALSO SUBMIT THE PROPER NOTIFICATIONS TO NMED-AIR QUALITY DEPARTMENT.

THIS REPORT SHOULD NOT BE REPRODUCED EXCEPT IN FULL!!

If you have any questions or need additional information, please contact Havona Environmental, Inc. at 505-232-9533. Thank you for allowing us to provide you with these services.

Respectfully Yours,

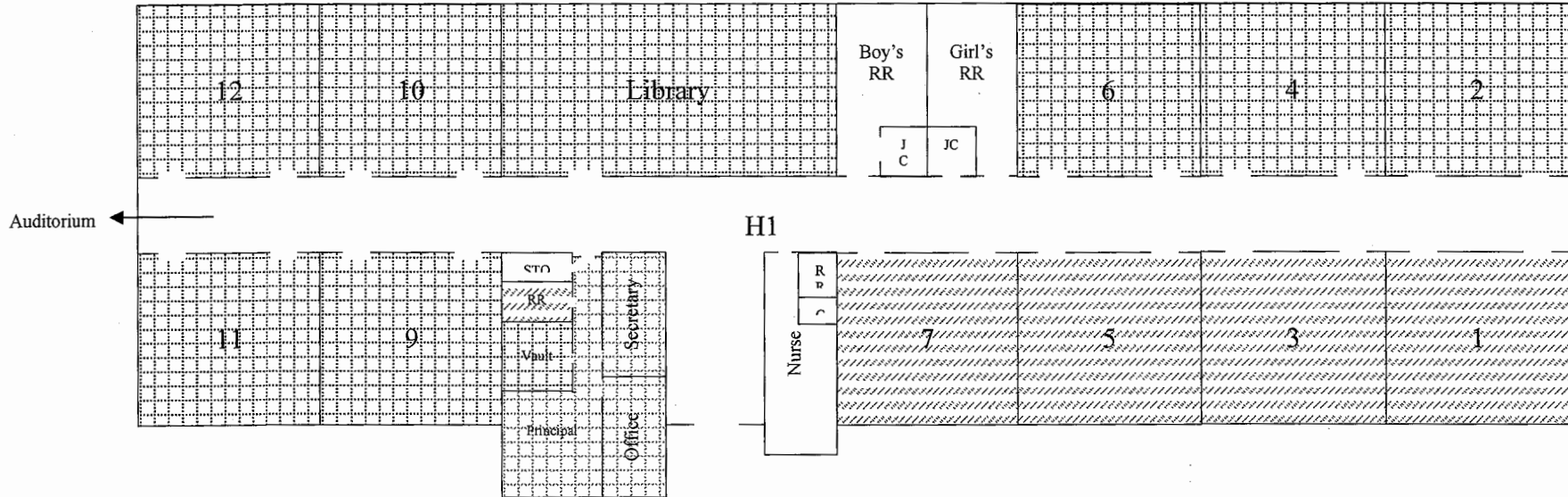

Scott Puma
Environmental Consultant


Junior Fresquez
Field Technician

Attachments: Appendix A: Functional Space and ACM Location Diagram
 Appendix B: Material Sample Logs
 Appendix C: Laboratory Results and Chain of Custody
 Appendix D: Inspector's Certification

APPENDIX A

FUNCTIONAL SPACE AND ACM LOCATION DIAGRAM



LENGEND: ACM

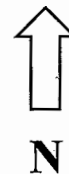


Vinyl Floor Tile/Mastic



Vinyl Floor Tile Mastic/Residual Black Flooring Mastic

- *Window/Door Caulking
- *Stucco Soffit
- *Transite Panels (Roof Decking and Soffits)
- *Transite Chalk Boards/Mastic
- *Vault Door Insulation



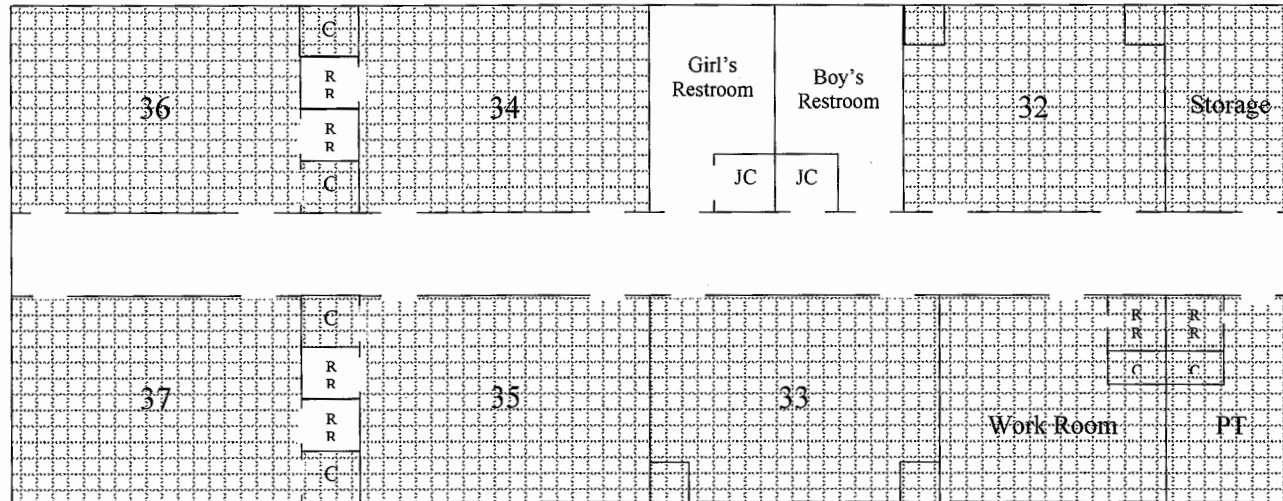
Project: Holloman Elementary School
(Main Building East Section)

Prepared For: Alamogordo Public Schools

Prepared by: Scott Puma

Date: 09-15-2021

FUNCTIONAL SPACE AND ACM LOCATION DIAGRAM

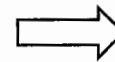


LENGEND: ACM



Vinyl Floor Tile/Mastic

- *Pipe Mud Fittings
- *Air Cell Pipe Insulation
- *Stucco Soffit
- *Window Glazing
- *CMU Block Surface Compound (Exterior)



N

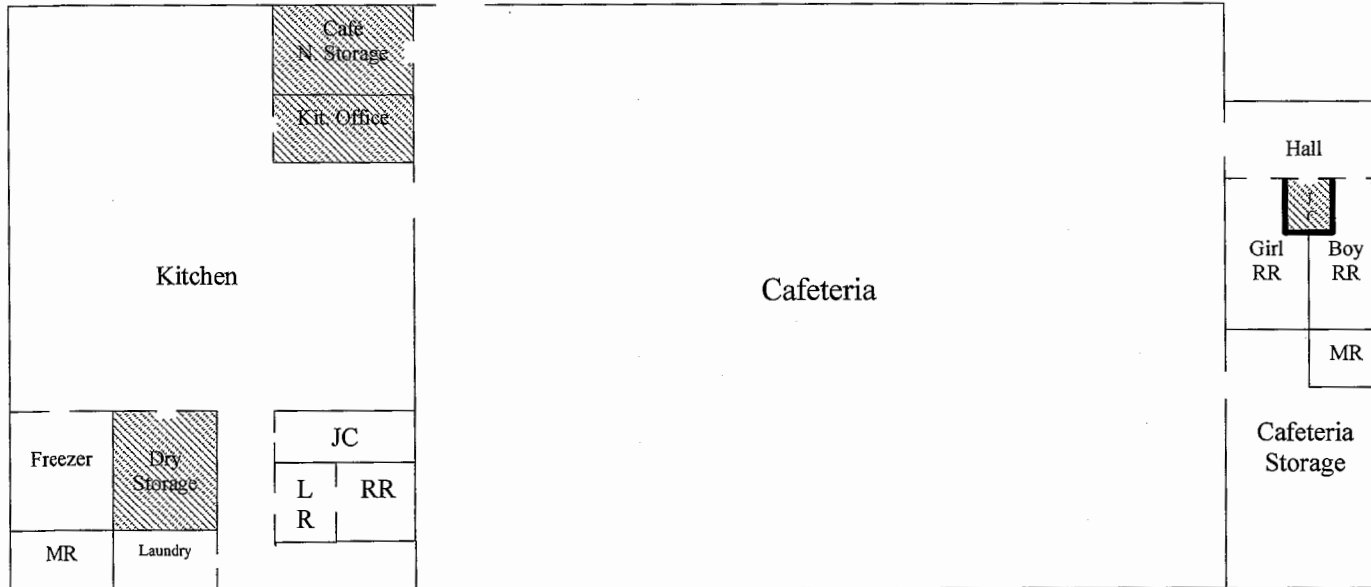
Project: Holloman Elementary School
(West Wing)

Prepared For: Alamogordo Public Schools

Prepared by: Scott Puma

Date: 09-15-2021

FUNCTIONAL SPACE AND ACM LOCATION DIAGRAM



LENGEND: ACM

*Cove Base Mastic (Cafeteria, Hall, Hall Janitor's Closet)

— Taping Compound (Walls)

▨ Taping Compound (Ceiling)

*Pipe Mud Fittings

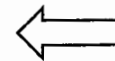
*CMU Block Surface Compound (Interior and Exterior)

*Window Glazing

*Door/Window Caulking

*Roof Duct Tar/Silver Paint (Kitchen Roof)

*Roof Penetration Tar



N

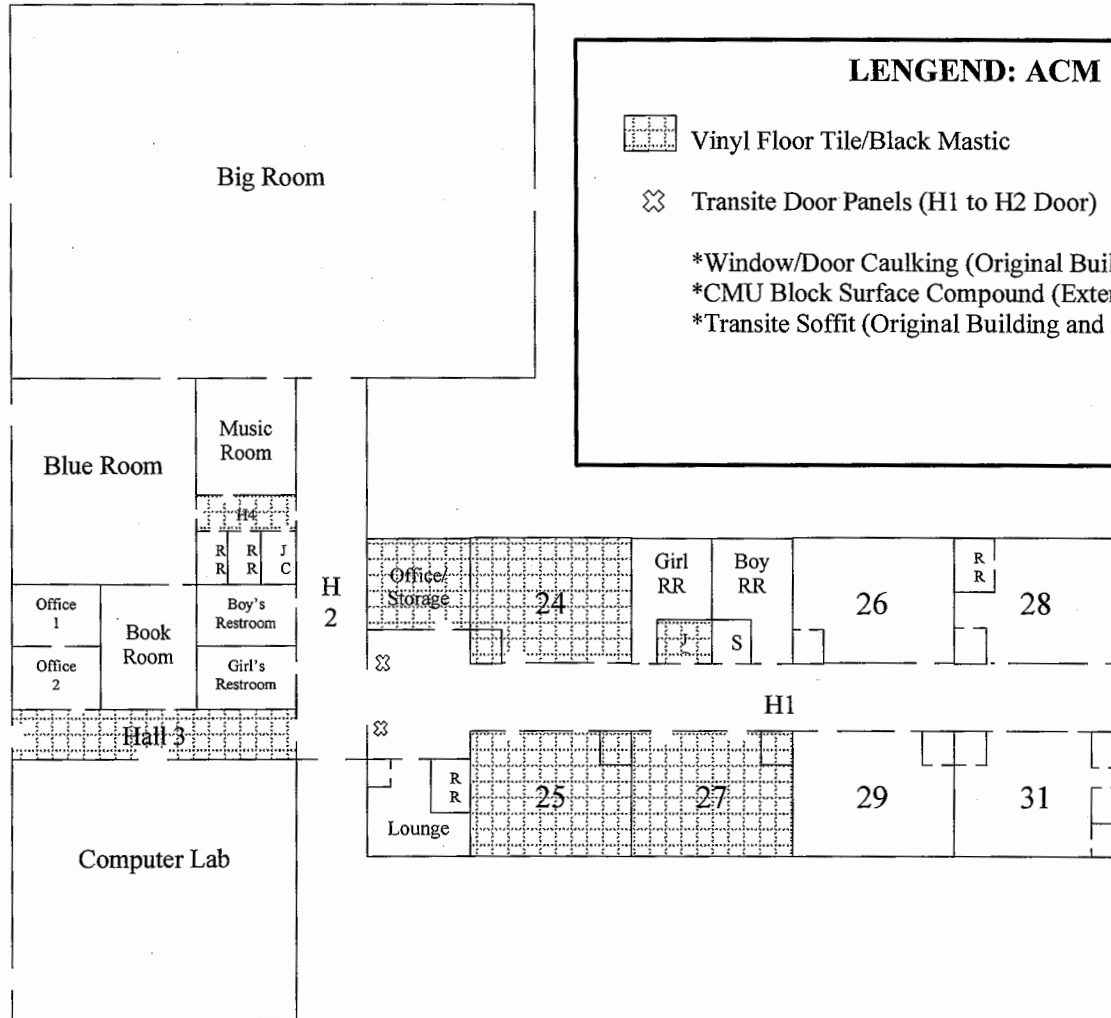
Project: Holloman Elementary School (Cafeteria)

Prepared For: Alamogordo Public Schools

Prepared by: Scott Puma

Date: 9-15-2021

FUNCTIONAL SPACE AND ACM LOCATION DIAGRAM



Project: Holloman Elementary School
(East Wing)

Prepared For: Alamogordo Public Schools

Prepared by: Scott Puma

Date: 09-15-2021

APPENDIX B

ASBESTOS INSPECTION MATERIAL SAMPLE LOG

Project: Holloman Elementary School (Main Building)				Location: Alamogordo, NM (Holloman Air Force Base)			
Prepared For: Alamogordo Public Schools				Inspection Date: June 9 th and 23 rd , 2021			
Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/ Non-Friable	Asbestos Content
HESM-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Brown)	Throughout	N/A	Misc.	Fair	NF	None Detected
HESM-M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic (Yellow)	23, 18, 21, 19, 16, 17, 14, 15, Lounge, 11, 12, 10, Library, 7, 5, 6, 3, 4, 1, 2, Secretary, Principal's Office, Office	N/A	Misc.	Fair	NF	None Detected
HESM-M-1C1-7, 1C2-8, 1C3-9	1x1 Glued on Ceiling Tile Mastic (A) Fiberglass	Auditorium Storage D	N/A	Misc.	Fair	NF	None Detected
HESM-M-1D1-10, 1D2-11, 1D3-12	1x1 Glued on Ceiling tile Mastic (B) Peg Pattern	Library	N/A	Misc.	Fair	NF	None Detected
HESM-M-1E1-13, 1E2-14, 1E3-15	Cork Board Mastic	4	N/A	Misc.	Fair	NF	None Detected
HESM-M-2A1-16, 2A2-17, 2A3-18	9x9 (A) Beige and Brown-Streaked Vinyl Floor Tile/ Black Mastic	Auditorium	~2,480 Sq. Ft.	Misc.	Fair	NF	Tile: 5% Chrysotile Mastic: 5% Chrysotile
HESM-M-2B1-19, 2B2-20, 2B3-21	9x9 (B) Green Streaked Vinyl Floor Tile/ Black Mastic	11C, 12C, 10C, Lounge C, 11, 12, 10, 9, Library, 6, 4, 2, 15, 17, 19, 21, 23, 18, 16, 14, Lit. Library, Principal, Office, Secretary, Office	~13,535 Sq. Ft.	Misc.	Fair	NF	Tile: 5% Chrysotile Mastic: 5% Chrysotile

HESM-M-2C1-22, 2C2-23	9x9 (C) Red Streaked Vinyl Floor Tile/ Black Mastic	Hall Office Vault	~64 Sq. Ft.	Misc.	Fair	NF	Tile: 3% Chrysotile Mastic: 5% Chrysotile
HESM-M-2D1-24, 2D2-25, 2D3-26	12x12 (A) Off-White Spackled Vinyl Floor Tile/ Yellow Matic	Nurse, Nurse Restroom	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
HESM-M-2F1-27, 2F2-28	12x12 Cream Self-Adhesive Vinyl Floor Tile	Lounge Restroom	N/A	Misc.	Fair	NF	None Detected
HESM-M-2E1-29, 2E2-30	12x12 (B) Cream Spackled Vinyl Floor Tile/ Black Mastic	Office Restroom	~42 Sq. Ft.	Misc.	Fair	NF	Tile: None Detected Mastic: 3% Chrysotile
HESM-T-3A1-31, 3A2-32, 3A3-33	Pipe Mud Fittings	Auditorium Storage C	N/A	TSI	Fair	NF	None Detected
HESM-S-4A1-34, 4A2-35, 4A3-36, 4A4-37, 4A5-38	Textured Drywall A (Bumpy)	Soffits-14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	N/A	Surfacing	Fair	NF	None Detected
HESM-M-4B1-39, 4B2-40, 4B3-41	Taping Compound A	Soffits-14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	N/A	Misc.	Fair	NF	None Detected
HESM-S-4C1-42, 4C2-43, 4C3-44	Textured Drywall B (Light Orange Peel)	Office Sec., Office, Principals Office	N/A	Surfacing	Fair	NF	None Detected
HESM-M-4D1-45, 4D2-46, 4D3-47	Taping Compound B	Office Sec., Office, Principals Office	N/A	Misc.	Fair	NF	None Detected
HESM-S-4E1-48, 4E2-47, 4E3-50, 4E4-51, 4E5-52, 4E6-53, 4E7-54	Plaster	Throughout	N/A	Surfacing	Fair	NF	*0.75% Chrysotile
HESM-M-5A1-55, 5A2-56, 5A3-57	1x1 Fiberglass Ceiling Tile	Auditorium Storage D	N/A	Misc.	Fair	NF	None Detected
HESM-M-5B1-58, 5B2-59, 5B3-60	1x1 PEG Ceiling Tile	East Classroom Wing	N/A	Misc.	Fair	NF	None Detected
HESM-M-5C1-61, 5C2-62, 5C3-63	2x4 (A) Squiggly Lay in Ceiling Tile	Auditorium Storage	N/A	Misc.	Fair	NF	None Detected
HESM-M-5D1-64, 5D2-65, 5D3-66	2x4 (B) Divot Lay in Ceiling Tile	Secretary, Nurse, Office Hall	N/A	Misc.	Fair	NF	None Detected
HESM-S-6A1-67, 6A2-68, 6A3-69, 6A4-70, 6A5-71	Spray Applied Ceiling Tile	Foyer, Auditorium, 15,	~11,600 Sq. Ft.	Misc.	Fair	NF	8% Chrysotile

		14, 17, 19, 16, 21, 23, 18, Lit. Library, Hall 2, H2 Boy's Restroom, H2 Girls Restroom					
HESM-M-8A1-72, 8A2-73, 8A3-74	Duct Mastic	Hall 1, Hall 2, Entry, Foyer	N/A	Misc.	Fair	NF	None Detected
HESM- M-9A1-75, 9A2-76	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-9B1-77	Roof Deck with Tar	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-9C1-78, 9C2-79, 9C3-80	Penetration Tar	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-9D1-81, 9D2-82, 9D3-83	Grey Duct Mastic with Silver Pain	Roof	N/A	Misc.	Fair	NF	None Detected
HESM-M-10A1-84, 10A2-85, 10A3-86	CMU Black Surfacer	Library, Auditorium	N/A	Misc.	Fair	NF	None Detected
HESM-M-10B1-87, 10B2-88	Sink Undercoat (White)	East Classroom Wing, 9, 6, 5, 4, 3, 2, 1	N/A	Misc.	Fair	NF	None Detected
HESM-M-10C1-89, 10C2-90, 10C3-91	Exterior CMU	Exterior	N/A	Misc.	Fair	NF	None Detected
HESM-M-10D1-82, 10D2-93, 10D3-94	Window Glazing (Exterior)	Exterior	N/A	Misc.	Fair	NF	None Detected
HESM-M-10E1-95, 10E2-96, 10E3-97	Window/Door Caulking	Exterior	~7 Doors Windows ~1,560 Linear Ft.	Misc.	Fair	NF	4% Chrysotile
HESM-S-10F1-98, 10F2-99, 10F3-100	Stucco Soffit	Front Entry, West Entry	~60 Sq. Ft.	Misc.	Fair	NF	3% Chrysotile
HESM-M-10G1-101, 10G2-102, 10G3-103, 10G4-104	Transite Panels	Roof Deck and Soffits	~25,060 Sq. Ft.	Misc.	Fair	NF	15% Chrysotile
HESM-M-10H1-105, 10H2-106, 10H3-107	Transite Chalk Boards/Mastic	1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 21, 23, Lit. Library	4'x15' 2 Per Room ~20 Total	Misc.	Fair	NF	Boards: 15% Chrysotile Mastic: Assumed
HESM-M-10I1-108, 10I2-109	Auditorium PEG Board	Auditorium West Wall	N/A	Misc.	Fair	NF	None Detected
-	Vault Door	Office-Vault	~1 Door	Misc.	Fair	NF	Assumed

	Insulation						
-	Residual Black Flooring Mastic	1, 3, 5, 7 (Under Carpet)	~2,640 Sq. Ft.	Misc.	Fair	NF	Assumed

*Point Count Analysis

Project: Holloman Elementary School (West Wing)				Location: Alamogordo, NM (Holloman Air Force Base)			
Prepared For: Alamogordo Public Schools				Inspection Date: June 9 th and 23 rd , 2021			
Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/ Non-Friable	Asbestos Content
HEWS-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Brown)	Throughout	N/A	Misc.	Fair	NF	None Detected
HEWS- M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic (Yellow)	32, 33, 35, 34, 36, 37	N/A	Misc.	Fair	NF	None Detected
HEWS-M-1C1-7, 1C2-8, 1C3-9	1x1 PEG Ceiling Tile Mastic (Brown)	37, 36, 34, 35, Girl's Restroom, Boy's Restroom, 33, 32, PT Room	N/A	Misc.	Fair	NF	None Detected
HEWS-M-2A1-10, 2A2-11	9x9 (A) Green Streaked Vinyl Floor Tile/ Black Mastic	PT Closet, Work Room Closet	~25 Sq. Ft.	Misc.	Fair	NF	Tile: 3% Chrysotile Mastic: 5% Chrysotile
HEWS-M-2B1-12, 2B2-13	9x9 (B) White Spackled Vinyl Floor Tile/ Black Mastic	PT Restroom, Work Room Restroom	~50 Sq. Ft.	Misc.	Fair	NF	Tile: 2% Chrysotile Mastic: 5% Chrysotile
HEWS-M-2C1-14, 2C2-15, 2C3-16	9x9 (C) Beige Spackled Vinyl Floor Tile/ Black Mastic	Storage, 32C, 33C, 35C, 34C, 36C, 37C	~290 Sq. Ft.	Misc.	Fair	NF	Tile: 2% Chrysotile Mastic: 5% Chrysotile
HEWS-M-2D1-17, 2D2-18	12x12 Grey Square Pattern Self-Adhesive Vinyl Floor Tile	35 Restroom, 37 Restroom	N/A	Misc.	Fair	NF	None Detected
HEWS-M-2E1-19, 2E2-20	Vinyl Floor Tile Under Carpet	32, 33, 35, 34, 36, 37, Work Room	~4,760 Sq. Ft.	Misc.	Fair	NF	Tile: 2-3% Chrysotile Mastic: 5% Chrysotile
HEWS-T-3A1-21, 3A2-22, 3A3-23	Pipe Mud Fittings	Pipe Chase, 34C West	Unknown	TSI	Fair	NF	6% Chrysotile

HEWS-T-3B1-24, 3B2-25, 3B3-26	Air Cell Pipe Insulation	Pipe Chase	Unknown	TSI	Fair	NF	6% Chrysotile
HEWS-S-4A1-27, 4A2-28, 4A3-29	Textured Drywall (Bumpy)	Soffits	N/A	Surfacing	Fair	NF	None Detected
HEWS-M-4B1-30, 4B2-31, 4B3-32	Taping Compound	Soffits	N/A	Misc.	Fair	NF	None Detected
HEWS-S-4C1-33, 4C2-34, 4C3-35, 4C4-36, 4C5-37, 4C6-38, 4C7-39	Plaster	Throughout	N/A	Surfacing	Fair	NF	None Detected
HEWS-M-5A1-40, 5A2-41, 5A3-42	1x1 PEG Ceiling Tile	Throughout	N/A	Misc.	Fair	NF	None Detected
HEWS-M-8A1-43, 8A2-44, 8A3-45	Grey Duct Mastic		N/A	Misc.	Fair	NF	None Detected
HEWS-M-10A1-46, 10A2-47, 10A3-48	CMU Block Surfacer	Classroom Storage, Janitor Closet	N/A	Misc.	Fair	NF	None Detected
HEWS-S-10B1-49, 10B2-50, 10B3-51	Stucco Soffit	Exterior	~1,275 Sq. Ft.	Surfacing	Fair	NF	3% Chrysotile
HEWS-M-10C1-52, 10C2-53, 10C3-54	Window Glazing	Exterior	~7 Windows 8'x26'	Misc.	Fair	NF	2% Chrysotile
HEWS-M-10D1-55, 10D2-56, 10D3-57	Door/Window Caulking	Exterior	N/A	Misc.	Fair	NF	None Detected
HEWS-M-10E1-58, 10E2-59, 10E3-60	CMU Surfacer	Exterior	~5,535 Sq. Ft.	Misc.	Fair	NF	2% Chrysotile
HEWS-M-9B1-64, 9B2-65, 9B3-66	Penetration Tar	Roof	N/A	Misc.	Fair	NF	None Detected
HEWS-M-9C1-67	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected

Project: Holloman Elementary School (Cafeteria)			Location: Alamogordo, NM (Holloman Air Force Base)				
Prepared For: Alamogordo Public Schools			Inspection Date: June 9 th and 23 rd , 2021				
Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/ Non-Friable	Asbestos Content
HESC-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic (Brown)	Hall, Custodial Closet, Cafeteria	~350 Linear Ft.	Misc.	Fair	NF	2% Chrysotile
HESC-M-2A1-4, 2A2-5, 2A3-6	Painted Vinyl Floor Tile/ Mastic	Bar Entry, Girls Restroom Entry,	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected

HESC-M-2B1-7, 2B2-8, 2B3-9	12x12 Patterned (White, Blue, Red) Vinyl Floor Tile/ Yellow Mastic	Hall Cafeteria	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
HESC-M-2C1-10, 2C2-11, 2C3-12	Green Epoxy Coating	Kitchen, Kitchen Restroom, Kitchen Lockers, Kitchen Laundry Room, Kitchen Restroom, Cafeteria North Storage, Kitchen Office, Kitchen Dry Storage	N/A	Misc.	Fair	NF	None Detected
HESC-T-3A1-13, 3A2-14, 2A3-15	Pipe Mud Fittings	Cafeteria	Unknown	TSI	Fair	NF	7% Chrysotile
HESC-S-4A1-16, 4A2-17, 4A3-18	Textured Drywall A (Drag Down)	Walls-Janitor's Closet Ceilings-Dry Storage, Kitchen Office, Gym North Storage, Janitors Closet	N/A	Surfacing	Fair	NF	None Detected
HESC-M-4B1-19, 4B2-20, 4B3-21	Taping Compound A	Walls-Janitor's Closet Ceilings-Dry Storage, Kitchen Office, Gym North Storage, Janitors Closet	~525 Sq. Ft.	Misc.	Fair	NF	2% Chrysotile
HESC-S-4C1-22, 4C2-23, 4C3-24	Textured Drywall B (Blotchy)	Café Storage (Ceiling)	N/A	Surfacing	Fair	NF	None Detected
HESC-S-4D1-25, 4D2-26, 4D3-27	Plaster	Boy's Restroom, Girl's Restroom, Kitchen Lockers, Kitchen Restroom, Kitchen Laundry, Kitchen Office	N/A	Misc.	Fair	NF	None Detected
HESC-M-5A1-28, 5A2-29, 5A3-30	2x4 Lay in Ceiling Tile A (Gypsum)	Hall, Boy's Restroom, Boy's Restroom Entry,	N/A	Misc.	Fair	NF	None Detected

		Girl's Restroom, Girl's Restroom Entry, Kitchen (Throughout)					
HESC-M-5B1-31, 5B2-32, 5B3-33	1x1 PEG Pattern Ceiling Tile (Stapled)	Above Lay in Ceiling Tile in Kitchen	N/A	Misc.	Fair	NF	None Detected
HESC-M-10A1-34, 10A2-35, 10A3-36	CMU Block Surfacers	Interior	~9,060 sq. Ft.	Misc.	Fair	NF	3% Chrysotile
HESC-M-10B1-37, 10B2-38, 10B3-39	CMU Block Surfacers	Exterior	~6,000 Sq. Ft.	Misc.	Fair	NF	2% Chrysotile
HESC-M-10C1-40, 10C2-41, 10C3-42	Window Glazing	Exterior	Unknown	Misc.	Fair	NF	2% Chrysotile
HESC-M-10D1-43, 10D2-44, 10D3-45	Door/Window Caulking	Exterior	~8 Doors Windows Unknown	Misc.	Fair	NF	2-3% Chrysotile
HESC-S-10E1-46, 10E2-47, 10E3-48	Stucco Soffit	Entrance	N/A	Misc.	Fair	NF	None Detected
HESC-M-10F1-49, 10F2-50, 10F3-51	Pipe Penetration Fill	Mechanical Room	N/A	Misc.	Fair	NF	None Detected
HESC-M-9A1-52, 9A2-53, 9A3-54	Duct Tar/ Silver Paint	Roof Duct	~2 Ducts	Misc.	Fair	NF	5-10% Chrysotile
HESC-M-9B1-55, 9B2-56, 9B3-97	Penetration Tar	Roof	~40 Penetrations	Misc.	Fair	NF	5% Chrysotile
HESC-M-9C1-58, 9C2-59	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected

Project: Holloman Elementary School (East Wing)				Location: Alamogordo, NM (Holloman Air Force Base)			
Prepared For: Alamogordo Public Schools				Inspection Date: June 9 th and 23 rd , 2021			
Sample #	Material	Functional Space Location	Quantity	Material Type	Condition	Friable/ Non-Friable	Asbestos Content
HESE-M-1A1-1, 1A2-2, 1A3-3	Cove Base Mastic	Throughout	N/A	Misc.	Fair	NF	None Detected
HESE-M-1B1-4, 1B2-5, 1B3-6	Carpet Mastic	31, 31C, 28, 28C, 26, 29, 27, 24, 25, Lounge, Lounge	N/A	Misc.	Fair	NF	None Detected

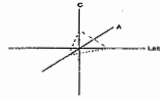
		Closet, Computer Lab, Book Room, Office 1, Office 2, Blue Room, Big Room					
HESE-M-1C1-7, 1C2-8, 1C3-9	1x1 PEG Pattern Ceiling Tile Mastic (Brown)	East Classroom Wing, Lounge	N/A	Misc.	Fair	NF	None Detected
HESE-M-2A1-10, 2A2-11	9x9 Green Streaked Vinyl Floor Tile/ Black Mastic	Janitors Closet	~50 Sq. Ft.	Misc.	Fair	NF	Tile: 6% Chrysotile Mastic: 3% Chrysotile
HESE-M-2B1-12, 2B2-13, 2B3-14	9x9 Beige Spackled Vinyl Floor Tile/ Black Mastic	Office Under Carpet-24, 25, 27	~2,055 Sq. Ft.	Misc.	Fair	NF	Tile: 6% Chrysotile Mastic: 5% Chrysotile
HESE-M-2C1-15, 2C2-16, 2C3-17	12x12 White with Blue Streaks Vinyl Floor Tile	Hall 2	N/A	Misc.	Fair	NF	Tile: None Detected Mastic: None Detected
HESE-M-2D1-18, 2D2-19, 2D3-20	12x12 Cream with Brown Streaks Vinyl Floor Tile/ Black Mastic	Hall 3, Hall 4	~475 Sq. Ft.	Misc.	Fair	NF	Tile: 3% Chrysotile Mastic: 5% Chrysotile
HESE-T-3A1-21, 3A2-22, 3A3-23	Pipe Mud Fittings	Workroom	N/A	TSI	Fair	NF	None Detected
HESE-S-4A1-24, 4A2-25, 4A3-26	Textured Drywall A (Bumpy)	28 Restroom, Lounge, Lounge Restroom	N/A	Surfacing	Fair	NF	None Detected
HESE-M-4B1-27, 4B2-28, 4B3-29	Taping Compound A	28 Restroom, Lounge, Lounge Restroom	N/A	Misc.	Fair	NF	None Detected
HESE-S-4C1-30, 4C2-31, 4C3-32	Textured Drywall B (Orange Peel)	Hall 2	N/A	Surfacing	Fair	NF	None Detected
HESE-M-4D1-33, 4D2-34, 4D3-35	Taping Compound B	Hall 2	N/A	Misc.	Fair	NF	None Detected
HESE-S-4E1-36, 4E2-37, 4E3-38, 4E4-39, 4E5-40	Textured Drywall C (Light)	New Addition	N/A	Surfacing	Fair	NF	None Detected
HESE-S-4G1-41, 4G2-42, 4G3-43, 4G4-44, 4G5-45, 4G6-46, 4G7-47	Plaster	Original Building	N/A	Surfacing	Fair	NF	None Detected
HESE-M-5A1-48, 5A2-49, 5A3-	1x1 PEG Pattern	Above Lay in	N/A	Misc.	Fair	NF	None Detected

50	Ceiling Tile	Ceiling Tile (Original Building)					
HESE-M-5B1-51, 5B2-52, 5B3-53	2x2 Lay in Ceiling Tile (Divot)	31, 28, 26, 29, Boy's Restroom, Girl's Restroom, 27, 24, 25, Hall 1, Lounge, Hall 2	N/A	Misc.	Fair	NF	None Detected
HESE-M-5C1-54, 5C2-55, 5C3-56	2x4 Lay in Ceiling Tile (Squiggly)	New Addition	N/A	Misc.	Fair	NF	None Detected
HESE-M-9A1-57	Roof Core	Roof	N/A	Misc.	Fair	NF	None Detected
HESE-M-9B1-58	Roof Core	New Addition Roof	N/A	Misc.	Fair	NF	None Detected
HESE-M-9C1-59, 9C2-60, 9C3-61	Penetration Tar	Roof	N/A	Misc.	Fair	NF	None detected
HESE-M-9D1-62, 9D2-63, 9D3-64	Duct Mastic/ Silver Roof Paint	Roof	N/A	Misc.	Fair	NF	None Detected
HESE-M10A1-65, 10A2-66, 10A3-67	Sink Undercoat (Black)	24, 25, 26, 27, 28, 29, 31	N/A	Misc.	Fair	NF	None Detected
HESE-M-10B1-68, 10B2-69, 10B3-70	CMU Block (Interior)	Addition	N/A	Misc.	Fair	NF	None Detected
HESE-M-10C1-71, 10C2-72, 10C3-73	CMU Block (Exterior)	Addition	N/A	Misc.	Fair	NF	None Detected
HESE-M-10D1-74, 10D2-75, 10D3-76	Window/Door Caulking	Exterior-Original Building	~6 Doors ~7 Windows 8'x26'	Misc.	Fair	NF	3% Chrysotile
HESE-M-10E1-77, 10E2-78, 10E3-79	Window Glazing	Original Building Exterior	N/A	Misc.	Fair	NF	None Detected
HESE-M-10F1-80, 10F2-81, 10F3-81	CMU Block	Original Building-Exterior	~6,480 Sq. Ft.	Misc.	Fair	NF	2% Chrysotile
HESE-S-10G1-83, 10G2-84, 10G3-85	Stucco Soffit	East Entrance	N/A	Surfacing	Fair	NF	None Detected
HESE-M-10H1-86, 10H2-87, 10H3-88	CMU Block	Original Building-Janitor's Closet, Workroom	N/A	Misc.	Fair	NF	None Detected
HESE-M-10I1-89, 10I2-90	Transite Door Panel	Hall 1	~2 Panels 2'x2'	Misc.	Fair	NF	4% Chrysotile
HESE-M-10J1-91	Transite Soffit	Exterior	~1,925 Sq. Ft.	Misc.	Fair	NF	15% Chrysotile

APPENDIX C

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Holloman Elementary School (Main Building)

Reference #: CBR21063359

Date: 6/17/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

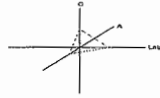
Quantification of <1% will actually be reported as ≤1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (Main Building)		CA Labs Project #: CBR21063359	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
HESM-M-2A1-16	16-1	Tan Floor Tile	5% Chrysotile	Tan Floor Tile Black Mastic Green Floor Tile Brown Floor Tile Black and Yellow Mastic White Plaster White Surfaced Tan Insulation Tan Sealant	
	16-2	Black Mastic	5% Chrysotile		
HESM-M-2A2-17	17-1	Tan Floor Tile	5% Chrysotile		
	17-2	Black Mastic	5% Chrysotile		
HESM-M-2A3-18	18-1	Tan Floor Tile	5% Chrysotile		
	18-2	Black Mastic	5% Chrysotile		
HESM-M-2B1-19	19-2	Green Floor Tile	5% Chrysotile		
	19-3	Black Mastic	5% Chrysotile		

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (Main Building)		CA Labs Project #: CBR21063359	
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESM-M-2B2-20	20-2		Green Floor Tile	5% Chrysotile	
HESM-M-2B3-21	21-2		Green Floor Tile	5% Chrysotile	
	21-3		Black Mastic	5% Chrysotile	
HESM-M-2C1-22	22-1		Brown Floor Tile	3% Chrysotile	
	22-2		Black Mastic	5% Chrysotile	
HESM-M-2C2-23	23-1		Brown Floor Tile	3% Chrysotile	
	23-2		Black Mastic	5% Chrysotile	
HESM-M-2E1-29	29-2		Black and Yellow Mastic	3% Chrysotile	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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CA Labs, L.L.C.
 12232 Industriplex, Suite 32
 Baton Rouge, LA 70809
 Phone 225-751-5632
 Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:	Holloman Elementary School (Main Building)		CA Labs Project #:	CBR21063359
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

HESM-M-2E2-30 30-2 *Black and Yellow Mastic* **3% Chrysotile**

HESM-S-4E4-51 51-1 *White Plaster* **2% Chrysotile**

HESM-S-6A1-67 67-1 *White Surfaced Tan Insulation* **8% Chrysotile**

HESM-S-6A2-68 68-1 *White Surfaced Tan Insulation* **8% Chrysotile**

HESM-S-6A3-69 69-1 *White Surfaced Tan Insulation* **8% Chrysotile**

HESM-S-6A4-70 70-1 *White Surfaced Tan Insulation* **8% Chrysotile**

HESM-S-6A5-71 71-1 *White Surfaced Tan Insulation* **8% Chrysotile**

HESM-M-10E2-96 96-2 *Tan Sealant* **4% Chrysotile**

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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HESM-M-10E3-97	97-1	Tan Sealant	4% Chrysotile	
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HESM-S-10F1-98	98-1	Tan and Blue Surfaced Gray Plaster	3% Chrysotile	
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HESM-S-10F2-99	99-1	Tan and Blue Surfaced Gray Plaster	3% Chrysotile	
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HESM-S-10F3-100	100-1	Tan and Blue Surfaced Gray Plaster	3% Chrysotile	
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HESM-M-10G1-101	101-1	Tan Surfaced Gray Transite	15% Chrysotile	
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HESM-M-10G2-102	102-1	Tan Surfaced Gray Transite	15% Chrysotile	
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HESM-M-10G3-103	103-1	Tan Surfaced Gray Transite	15% Chrysotile	
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HESM-M-10G4-104	104-1	Brown Surfaced Gray Transite	15% Chrysotile	
-----------------	-------	------------------------------	----------------	--

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| mi - mica | | ce - cellulose | |
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HESM-M-10H1-105	105-1	Green Surfaced Gray Transite	15% Chrysotile
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HESM-M-10H2-106	106-1	Gray Transite	15% Chrysotile
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HESM-M-10H3-107	107-1	Green Surfaced Gray Transite	15% Chrysotile
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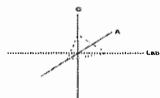
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Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project: Holloman Elementary School
(Main Building) **CA Labs Project #:** CBR21063359

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/9/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M-1A1-1		1-1		Yellow Mastic	Y	None Detected		100% qu, bi
HESM-M-1A2-2		2-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1A3-3		3-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1B1-4		4-1		Tan Carpeting	Y	None Detected	80% sy	20% qu, ma
		4-2		Yellow Mastic	Y	None Detected		100% qu, bi
HESM-M-1B2-5		5-1		Yellow Mastic	Y	None Detected		100% qu, bi
HESM-M-1B3-6		6-1		Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bl - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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HESM-M-1C1-7		7-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1C2-8		8-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1C3-9		9-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1D1-10		10-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1D2-11		11-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1D3-12		12-1		Brown Mastic	Y	None Detected		100% qu, bi
HESM-M-1E1-13		13-1		White Surfacing	Y	None Detected		100% qu, bi

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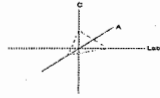
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Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		13-2	Brown Ceiling Tile	Y	None Detected	100% ce	
		13-3	Brown Mastic	Y	None Detected		100% qu, bi
HESM-M- 1E2-14		14-1	White Surfacing	Y	None Detected		100% qu, bi
		14-2	Brown Ceiling Tile	Y	None Detected	100% ce	
		14-3	Brown Mastic	Y	None Detected		100% qu, bi
HESM-M- 1E3-15		15-1	Brown Mastic	Y	None Detected		100% qu, bi
HESM-M- 2A1-16		16-1	Tan Floor Tile	Y	5% Chrysotile		95% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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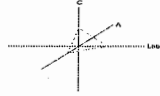
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Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

Chris Williams
Laboratory Director
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Sample #	Com ment	Layer #	Analysts Physical Subsample	Homog- eneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		16-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2A2-17		17-1	Tan Floor Tile	Y	5% Chrysotile		95% qu, ma, ca
		17-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2A3-18		18-1	Tan Floor Tile	Y	5% Chrysotile		95% qu, ma, ca
		18-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2B1-19		19-1	Yellow Mastic	Y	None Detected		100% qu, bi
		19-2	Green Floor Tile	Y	5% Chrysotile		95% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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		19-3	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2B2-20		20-1	Yellow Mastic	Y	None Detected		100% qu, bi
		20-2	Green Floor Tile	Y	5% Chrysotile		95% qu, ma, ca
	5	20-3	Black Mastic	Y			
HESM-M- 2B3-21		21-1	Yellow Mastic	Y	None Detected		100% qu, bi
		21-2	Green Floor Tile	Y	5% Chrysotile		95% qu, ma, ca
		21-3	Black Mastic	Y	5% Chrysotile		95% qu, bi

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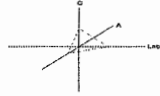
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HESM-M- 2C1-22		22-1		Brown Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		22-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2C2-23		23-1		Brown Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		23-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESM-M- 2D1-24		24-1		Tan Floor Tile	Y	None Detected		100% qu, ca
HESM-M- 2D2-25		25-1		Tan Floor Tile	Y	None Detected		100% qu, ca
		25-2		Yellow Mastic	Y	None Detected		100% qu, bi

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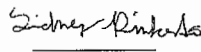
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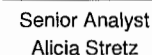
Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 2D3-26		26-1		Tan Floor Tile	Y	None Detected		100% qu, ca
		26-2		Yellow Mastic	Y	None Detected		100% qu, bi
HESM-M- 2F1-27		27-1		White Self-Adhesive Floor Tile	Y	None Detected		100% qu, ma, bi
HESM-M- 2F2-28		28-1		White Self-Adhesive Floor Tile	Y	None Detected		100% qu, ma, bi
HESM-M- 2E1-29		29-1		White Floor Tile	Y	None Detected		100% qu, ca
		29-2		Black and Yellow Mastic	N	3% Chrysotile		97% qu, bi
HESM-M- 2E2-30		30-1		White Floor Tile	Y	None Detected		100% qu, ca

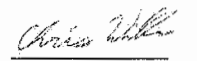
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Sidney Pinkerton
Analyst


Senior Analyst
Alicia Stretz


Laboratory Director
Chris Williams

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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12232 Industriplex, Suite 32
Baton Rouge, LA 70809
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Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project: Holloman Elementary School
(Main Building) **CA Labs Project #:** CBR21063359

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/9/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homog- eneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		30-2	Black and Yellow Mastic	N	3% Chrysotile		97% qu, bi
HESM-T- 3A1-31		31-1	Tan Insulation	Y	None Detected	5% fg	95% qu, ma, ca
HESM-T- 3A2-32		32-1	Tan Woven Wrap	Y	None Detected	100% ce	
		32-2	Tan Insulation	Y	None Detected	5% fg	95% qu, ma, ca
HESM-T- 3A3-33		33-1	Tan Insulation	Y	None Detected	5% fg	95% qu, ma, ca
HESM-S- 4A1-34		34-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		34-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-800 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Purchase Order #:

Phone # 505-232-9533
Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-S- 4A2-35		35-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		35-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4A3-36		36-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		36-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4A4-37		37-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		37-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4A5-38		38-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

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		38-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-M- 4B1-39		39-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4B2-40		40-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4B3-41		41-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-S- 4C1-42		42-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		42-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4C2-43		43-1		Blue Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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Sidney Pinkerton
Analyst

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Senior Analyst
Alicia Stretz

Chris Williams
Laboratory Director
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CA Labs Project #:
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Fax # 505-256-8237

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Date Of Sampling: 6/9/2021

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		43-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-S- 4C3-44		44-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		44-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESM-M- 4D1-45		45-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4D2-46		46-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-M- 4D3-47		47-1		White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESM-S- 4E1-48		48-1		Pink Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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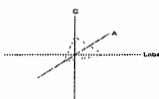
Sidney Pinkerton
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Analyst

Chris Williams
Senior Analyst
Alicia Stretz

Chris Williams
Laboratory Director
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Turnaround Time: 3 day

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Date Of Sampling: 6/9/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-S-4E2-49		49-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S-4E3-50		50-1	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S-4E4-51		51-1	White Plaster	Y	2% Chrysotile		98% qu, ma, ca
HESM-S-4E5-52		52-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S-4E6-53		53-1	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-S-4E7-54		54-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
HESM-M-5A1-55		55-1	White Surfacing	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

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Customer Project:
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(Main Building)

CA Labs Project #:
CBR21063359

Date: 6/17/2021

Turnaround Time: 3 day

Samples Received: 6/14/2021

Phone # 505-232-9533

Date Of Sampling: 6/9/2021

Fax # 505-256-8237

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Subsample	Homog- eneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		55-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
HESM-M- 5A2-56		56-1	White Surfacing	Y	None Detected		100% qu, bi
		56-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
HESM-M- 5A3-57		57-1	White Surfacing	Y	None Detected		100% qu, bi
		57-2	Yellow Ceiling Tile	Y	None Detected	100% fg	
HESM-M- 5B1-58		58-1	White Surfacing	Y	None Detected		100% qu, bi
		58-2	Brown Ceiling Tile	Y	None Detected	100% ce	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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HESM-M- 5B2-59		59-1	White Surfacing	Y	None Detected		100% qu, bi
		59-2	Brown Ceiling Tile	Y	None Detected	100% ce	
HESM-M- 5B3-60		60-1	White Surfacing	Y	None Detected		100% qu, bi
		60-2	Brown Ceiling Tile	Y	None Detected	100% ce	
HESM-M- 5C1-61		61-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		61-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESM-M- 5C2-62		62-1	White Surfacing	Y	None Detected		100% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Subsample Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		62-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESM-M- 5C3-63		63-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		63-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESM-M- 5D1-64		64-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		64-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESM-M- 5D2-65		65-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		65-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma

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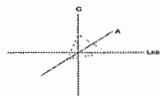
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9. < 1% Result point counted positive
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CA Labs
Dedicated to
Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(Main Building)

CA Labs Project #:
CBR21063359

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/9/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Subsample	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 5D3-66		66-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		66-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESM-S- 6A1-67		67-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A2-68		68-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A3-69		69-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A4-70		70-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca
HESM-S- 6A5-71		71-1	White Surfaced Tan Insulation	N	8% Chrysotile		92% qu, ve, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Sidney Pinkerton
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

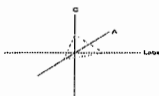
Chris Williams
Laboratory Director
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Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 8A1-72		72-1	Gray and White Sealant	N	None Detected		100% qu, ma, ca
HESM-M- 8A2-73		73-1	Gray and White Sealant	N	None Detected		100% qu, ma, ca
HESM-M- 8A3-74		74-1	Gray and White Sealant	N	None Detected		100% qu, ma, ca
HESM-M- 9A1-75		75-1	Black Shingle with White Gravel	N	None Detected	20% ce	80% qu, bi
		75-2	Black Tar and Felt	N	None Detected	30% ce	70% qu, bi
		75-3	Brown Fibrous Insulation	Y	None Detected	100% ce	
HESM-M- 9A2-76		76-1	Black Shingle with White Gravel	N	None Detected	20% ce	80% qu, bi

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

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Analyst

Senior Analyst
Alicia Stretz

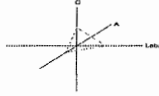
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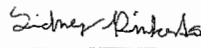
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	76-2		Black Tar and Felt	N	None Detected	30% ce	70% qu, bi
	76-3		Brown Fibrous Insulation	Y	None Detected	100% ce	
	76-4		White Plaster	Y	None Detected		100% qu, pe, ma, ca
HESM-M- 9B1-77		77-1	Black Tar	Y	None Detected	5% ce	95% qu, bi
HESM-M- 9C1-78		78-1	Black Tar	Y	None Detected	5% ce	95% qu, bi
HESM-M- 9C2-79		79-1	Black Tar	Y	None Detected		100% qu, bi
HESM-M- 9C3-80		80-1	Black Tar	Y	None Detected		100% qu, bi

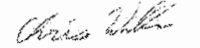
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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Turnaround Time: 3 day

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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M-9D1-81		81-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESM-M-9D2-82		82-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESM-M-9D3-83		83-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESM-M-10A1-84		84-1	White Surfacing	Y	None Detected		100% qu, ma, bi, ca
		84-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
HESM-M-10A2-85		85-1	White Surfacing	Y	None Detected		100% qu, ma, bi, ca
		85-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot

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Approved Signatories:

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Alicia Stretz
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Chris Williams
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M- 10A3-86		86-1	White Surfacing	Y	None Detected		100% qu, ma, bi, ca
		86-2	Gray CMU	Y	None Detected		100% qu, ma, ca, ot
HESM-M- 10B1-87		87-1	Gray Debris	N	None Detected		100% qu, ma, ca
HESM-M- 10B2-88		88-1	White Sealant	Y	None Detected		100% qu, ma, bi
HESM-M- 10C1-89		89-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESM-M- 10C2-90		90-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESM-M- 10C3-91		91-1	Tan Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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Approved Signatories:

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Sidney Pinkerton
Analyst

Alicia Stretz
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Chris Williams
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESM-M-10D1-92		92-1	Tan Surfaced Gray Sealant	N	None Detected		100% qu, ma, bi, ca
HESM-M-10D2-93		93-1	Tan Surfaced Gray Sealant	N	None Detected		100% qu, ma, bi, ca
HESM-M-10D3-94		94-1	Tan Surfaced Gray Sealant	N	None Detected		100% qu, ma, bi, ca
HESM-M-10E1-95		95-1	White Sealant	Y	None Detected		100% qu, ma, ca
HESM-M-10E2-96		96-1	White Sealant	Y	None Detected		100% qu, ma, ca
		96-2	Tan Sealant	Y	4% Chrysotile		96% qu, ma, ca
HESM-M-10E3-97		97-1	Tan Sealant	Y	4% Chrysotile		96% qu, ma, ca

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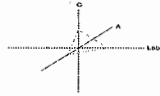
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HESM-S-10F1-98		98-1	Tan and Blue Surfaced Gray Plaster	N	3% Chrysotile		97% qu, ma, bi, ca
HESM-S-10F2-99		99-1	Tan and Blue Surfaced Gray Plaster	N	3% Chrysotile		97% qu, ma, bi, ca
HESM-S-10F3-100		100-1	Tan and Blue Surfaced Gray Plaster	N	3% Chrysotile		97% qu, ma, bi, ca
HESM-M-10G1-101		101-1	Tan Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca
HESM-M-10G2-102		102-1	Tan Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca
HESM-M-10G3-103		103-1	Tan Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca
HESM-M-10G4-104		104-1	Brown Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca

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HESM-M-10H1-105		105-1		Green Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca
HESM-M-10H2-106		106-1		Gray Transite	Y	15% Chrysotile		85% qu, ma, bi, ca
HESM-M-10H3-107		107-1		Green Surfaced Gray Transite	N	15% Chrysotile		85% qu, ma, bi, ca
HESM-M-10I1-108		108-1		White Drywall	Y	None Detected	2% ce	98% qu, gy
HESM-M-10I2-109		109-1		White Drywall	Y	None Detected	2% ce	98% qu, gy

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CB221063359

havonaenvironmental
environmental consulting and testing

Havona Environmental, Inc. Phone 505-232-9533
P.O. Box 35848 Fax 505-212-0069
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (Main Building)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact Information:			
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938	
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-9-21	Email: havonaenvironmental@yahoo.com			
Sampler's Signature: <i>[Signature]</i>				Page: 1	of 8		
SAMPLE #	LOCATION	MATERIAL	COMMENT				
HESM-M-1A1-1	Main Building	WALL					
1A2-2		↓					
1A3-3		↓					
M-1B1-4		FLOOR					
1B2-5		↓					
1B3-6		↓					
M-1C1-7		CEILING					
1C2-8		↓					
1C3-9		↓					
M-1D1-10		↓					
1D2-11		↓					
1D3-12		↓					
M-1E1-13		WALL					
1E2-14		↓					
Turn Around Time		2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By: <i>[Signature]</i>			Date/Time: 6-11-2021	Received By: <i>[Signature]</i>		Date/Time: 6-14-2021 8:50	
Relinquished By:			Date/Time:	Received By:		Date/Time:	

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location: Holloman Elementary School (Main Building) Holloman Air Force Base Alamogordo, NM		Havona Client: Alamogordo Public Schools	
Sampled By: Scott Puma and Junior Fresquez		Havona Contact Information:	
Date Sampled: 6-9-21		Name: Cissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>[Signature]</i>		Email: havonaenvironmental@yahoo.com	
		Page: 2	of 8

SAMPLE #	LOCATION	MATERIAL	COMMENT
HESM-M-1E3-15	Main Building ↓	WALL	
M-2A1-16		FLOOR	
2A2-17			
2A3-18			
M-2B1-19			
2B2-20			
2B3-21			
M-2C1-22			
2C2-23			
M-2D1-24			
2D2-25			
2D3-26			
M-2F1-27			
2F2-28			

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By: <i>[Signature]</i>	Date/Time: 6-11-2021	Received By: <i>[Signature]</i>	Date/Time: 6-14-2021 8:50			
Relinquished By:	Date/Time:	Received By:	Date/Time:			

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		Havona Client:				
Holloman Elementary School (Main Building)		Alamogordo Public Schools				
Holloman Air Force Base		Havona Contact Information:				
Alamogordo, NM		Name: Cissy Puma	Phone: 505-977-4938			
Sampled By: Scott Puma and Junior Fresquez	Date Sampled: 6-9-21	Email: havonaenvironmental@yahoo.com				
Sampler's Signature: <i>[Signature]</i>		Page: 3	of 8			
SAMPLE #	LOCATION	MATERIAL	COMMENT			
HESM-M-2E1-29	Main Building	FLOOR				
2E2-30		↓				
T-3A1-31		PIPE				
3A2-32		↓				
3A3-33						
S-4A1-34		WALL				
4A2-35		↓				
4A3-36						
4A4-37						
4A5-38						
M-4B1-39						
4B2-40						
4B3-41						
S-4C1-42						
Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By: <i>[Signature]</i>	Date/Time: 6-11-2021	Received By: <i>[Signature]</i>	Date/Time: 6-14-2021 8:50			
Relinquished By:	Date/Time:	Received By:	Date/Time:			

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		Havona Client:		
Holloman Elementary School (Main Building)		Alamogordo Public Schools		
Holloman Air Force Base		Havona Contact Information:		
Alamogordo, NM		Name: Cissy Puma	Phone: 505-977-4938	
Sampled By: Scott Puma and Junior Fresquez	Date Sampled: 6-9-21	Email: havonaenvironmental@yahoo.com		
Sampler's Signature: <i>Scott Puma</i>		Page: 4	of 8	
SAMPLE #	LOCATION	MATERIAL	COMMENT	
HESM-5-402-43	Main Building	WALL		
403-44		↓		
M-401-45				
402-46				
403-47				
S-4E1-48				
4E2-49				
4E3-50				
4E4-51				
4E5-52				
4E6-53				
4E7-54				
M-5A1-55			CEILING	
5A2-56			↓	
Turn Around Time	2-4 Hour	Same Day	24 Hour	
			2 Day	
			3 Day	
			5-10 Day	
Relinquished By: <i>Scott Puma</i>	Date/Time: 6-11-2021	Received By: <i>Cissy Puma</i>	Date/Time: 6-14-2021 8:50	
Relinquished By:	Date/Time:	Received By:	Date/Time:	

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (Main Building)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact Information:			
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938	
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-9-21	Email: havonaenvironmental@yahoo.com			
Sampler's Signature: <i>Scott Puma</i>				Page: 5	of 8		
SAMPLE #	LOCATION	MATERIAL	COMMENT				
HESM-M-5A3-57	Main Building	CEILING					
M-5B1-58							
5B2-59							
5B3-60							
M-5C1-61							
5C2-62							
5C3-63							
M-5D1-64							
5D2-65							
5D3-66							
S-6A1-67							
6A2-68							
6A3-69							
6A4-70							
Turn Around Time		2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By: <i>Scott Puma</i>			Date/Time: 6-11-2021	Received By: <i>[Signature]</i>		Date/Time: 6-14-2021 8:50	
Relinquished By:			Date/Time:	Received By:		Date/Time:	

CBR21063359

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location: Holloman Elementary School (Main Building) Holloman Air Force Base Alamogordo, NM		Havona Client: Alamogordo Public Schools	
Sampled By: Scott Puma and Junior Fresquez		Havona Contact Information:	
Date Sampled: 6-9-21		Name: Cissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>Scott Puma</i>		Email: havonaenvironmental@yahoo.com	
		Page: 6	of 8

SAMPLE #	LOCATION	MATERIAL	COMMENT
HESM-S-6A5-71	Main Building ↓	CEILING	
M-8A1-72		DUCT	
8A2-73		↓	
8A3-74			
M-9A1-75		ROOF	
9A2-76		↑	
M-9B1-77			
M-9C1-78			
9C2-79			
9C3-80			
M-9D1-81			
9D2-82			
9D3-83			
M-10A1-84		↓	WALL

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day	
Relinquished By:	<i>Scott Puma</i>	Date/Time:	6-11-2021	Received By:	<i>Cissy Puma</i>	Date/Time:	6-14-2021 8:50
Relinquished By:		Date/Time:		Received By:		Date/Time:	

PLM BULK SAMPLE CHAIN OF CUSTODY

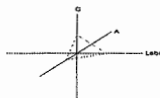
Havona Project Name and Location:				Havona Client:											
Holloman Elementary School (Main Building)				Alamogordo Public Schools											
Holloman Air Force Base				Havona Contact Information:											
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938									
Sampled By: Scott Puma and Junior Fresquez		Date Sampled: 6-9-21		Email: havonaenvironmental@yahoo.com											
Sampler's Signature: <i>[Signature]</i>				Page: 7 of 8											
SAMPLE #	LOCATION	MATERIAL	COMMENT												
HESM-M-10A2-85	Main Building ↓	WALL													
10A3-86		↓													
M-10B1-87		SINK													
10B2-88		↓													
M-10C1-89		EXT. WALL													
10C2-90		↓													
10C3-91															
M-10D1-92		WINDOW													
10D2-93		↓													
10D3-94															
M-10E1-95		WINDOW/DOOR													
10E2-96		↓													
10E3-97															
S-10F1-98			EXT. SOFFIT												
Turn Around Time		2-4 Hour		Same Day		24 Hour		2 Day		3 Day		5-10 Day			
Relinquished By: <i>[Signature]</i>				Date/Time: 6-11-2021				Received By: <i>[Signature]</i>				Date/Time: 6-14-2021 8:50			
Relinquished By:				Date/Time:				Received By:				Date/Time:			

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:		Havona Client:	
Holloman Elementary School (Main Building)		Alamogordo Public Schools	
Holloman Air Force Base		Havona Contact Information:	
Alamogordo, NM		Name: Cissy Puma	Phone: 505-977-4938
Sampled By: Scott Puma and Junior Fresquez	Date Sampled: 6-9-21	Email: havonaenvironmental@yahoo.com	
Sampler's Signature: <i>[Signature]</i>		Page: 8	of 8
SAMPLE #	LOCATION	MATERIAL	COMMENT
HESM-S-10F2-99	Main Building ↓	EXT. SOFFIT	
10F3-100		↓	
M-10G1-101		EXT. SOFFIT	
10G2-102		↓	
10G3-103		↓	
10G4-104		↓	
M-10H1-105		WALL	
10H2-106		↓	
10H3-107		↓	
M-10I1-108		WALL	
10I2-109	↓		
Turn-Around Time		3 Day	
2-4 Hour	Same Day	24 Hour	2 Day
Relinquished By: <i>[Signature]</i>		Date/Time: 6-11-2021	Received By: <i>[Signature]</i>
Relinquished By:		Date/Time:	Date/Time: 6-14-2021 8:50

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Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Point Count

Laboratory Analysis Report - Point Count

Analysis and Method

Point counting was performed on a polarized light microscope with a calibrated reticle according to the revised NESHAP method of November 20, 1990 (Federal Register, V.55, N.224, 11/20/90). Original asbestos content of bulk materials was determined using procedures outlined in the interim method (40 CFR part 763, Appendix E to subpart E) and AHERA method (EPA-600/R-93/116). Samples were prepared using HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of NVLAP or AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Phone # 505-232-9533
Fax # 505-256-8237

Customer Project: Holloman Elementary School
(Main Building)
RE:CBR21063359

Turnaround Time: 2 day

CA Labs Project #: CBR21084713

Date: 8/12/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/9/2021
Purchase Order #:

Sample #	Layer #	Analysts Description of Subsample	Physical	Homo-geneous (Y/N)	Point Counted % / Asbestos Type
HESM-S-4E4-51	51-1	White Plaster		Y	0.75% Chrysotile

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Approved Signatories:

Sidney Pinkerton
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

CA LABS

CA Labs, LLC
 12232 Industriplex Blvd Suite 31/32
 Baton Rouge, LA 70809

Phone: 225-751-5632
 Fax: 225-751-5634
 Mobile: 225-993-3471

Chain of Custody

CA Labs job#: CBR 21084713

CA Labs Client Name: Havona Billing Address: _____
 Client Address: _____ (If Different) _____
 Phone Number: _____ Send Reports to (email address): _____
 Fax Number: _____ PO# _____
 Project Name: Holloman Elem Contact: _____
 Project Number: Re: CBR21063359 Results Reported Via: Email Fax Verbal

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix:
1	1	Air/Bulk/Wipe

Circle analysis and TA time: Please call ahead for availability of all rush/afterhours samples.

TEM:	ASHERA	EPA Level II	Wipe	Micro-Vac	NIOSH 7402	Chatfield Bulk	Amphibole Separation
TAT	4 hour	8 hour	24 hour	24 hour	2 day	3 day	5 day

PLM:	ASHERA	400 Point Counts	1000 Point Counts	Gravimetric Point Count
TAT	2 hour	4 hour	8 hour	24 hour
				2 day
				3 day
				5 day

Optical/LAQ:	Allergen: Tape/Bulk/Swab	Air-O-Cell	PCM	PCM (TWA)
TAT	2 hour	4 hour	8 hour	24 hour
			2 day	3 day
				5 day

Lead:	Paint Chips	Soil	Wipes	Air	TCLP
TAT	4 hour	8 hour	24 hour	2 day	3 day
					5 day

Other analysis not listed: _____ TAT: _____

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	Sample Volume(L)
	See Attached Email		

Custody Information:

Samples relinquished: Email: Scott Poma 8-11-2021
 Signature/Date/Time

2:40PM
 Samples received: [Signature] 8-11-2021
 Signature/Date/Time

Samples relinquished: _____
 Signature/Date/Time

Samples received: _____
 Signature/Date/Time



Administration Baton Rouge <calabsbr@calabsinc.com>

Point Count

1 message

CBR21084713

havona environmental <havonaenvironmental@yahoo.com>
To: Administration Baton Rouge <calabsbr@calabsinc.com>

Wed, Aug 11, 2021 at 2:41 PM

Can you please point count the following sample on a 2 day TAT. Thank you.

Cbr21063359

Sample#
HESM-S-4E4-51

Scott Puma
Environmental Consultant

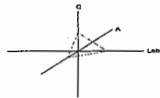
Havona Environmental, Inc.
P.O. Box 35848
Albuquerque, NM 87176

Phone: 505-977-4938
Fax: 505-256-8237

rec: [Signature] 2:40 PM 8-11-2021

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Holloman Elementary School (West Wing)

Reference #: CBR21063358

Date: 6/17/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

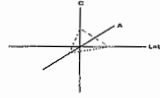
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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 Phone 225-751-5632
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NVLAP #200772-0
 TDSHS #300370
 CDPHE #AL-18111
 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (West Wing)		CA Labs Project #:	CBR21063358
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESW-M-2A1-10	10-1		Green Floor Tile	3% Chrysotile	Green Floor Tile Black Mastic Tan Floor Tile White Floor Tile Gray Insulation Gray Felt Tan Surfaced Tan Plaster Brown Surfaced Gray Sealant
	10-2		Black Mastic	5% Chrysotile	
HESW-M-2A2-11	11-1		Green Floor Tile	3% Chrysotile	
	11-2		Black Mastic	5% Chrysotile	
HESW-M-2B1-12	12-1		Tan Floor Tile	2% Chrysotile	
	12-2		Black Mastic	5% Chrysotile	
HESW-M-2B2-13	13-1		White Floor Tile	2% Chrysotile	
	13-2		Black Mastic	5% Chrysotile	

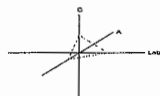
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:	Holloman Elementary School (West Wing)		CA Labs Project #:	CBR21063358
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

HESW-M-2C1-14	14-1	Tan Floor Tile	2% Chrysotile	
---------------	------	----------------	---------------	--

	14-2	Black Mastic	5% Chrysotile	
--	------	--------------	---------------	--

HESW-M-2C2-15	15-1	Tan Floor Tile	2% Chrysotile	
---------------	------	----------------	---------------	--

	15-2	Black Mastic	5% Chrysotile	
--	------	--------------	---------------	--

HESW-M-2C3-16	16-1	Tan Floor Tile	2% Chrysotile	
---------------	------	----------------	---------------	--

	16-2	Black Mastic	5% Chrysotile	
--	------	--------------	---------------	--

HESW-M-2E1-19	19-2	Tan Floor Tile	2% Chrysotile	
---------------	------	----------------	---------------	--

	19-3	Black Mastic	5% Chrysotile	
--	------	--------------	---------------	--

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Holloman Elementary School (West Wing)		CA Labs Project #: CBR21063358	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent
			List of Affected Building Material Types

HESW-M- 2E2-20	20-1 Tan Floor Tile	3% Chrysotile
-------------------	---------------------	----------------------

	20-2 Black Mastic	5% Chrysotile
--	-------------------	----------------------

HESW-T- 3A1-21	21-1 Gray Insulation	6% Chrysotile
-------------------	----------------------	----------------------

HESW-T- 3A2-22	22-1 Gray Insulation	6% Chrysotile
-------------------	----------------------	----------------------

HESW-T- 3A3-23	23-1 Gray Insulation	6% Chrysotile
-------------------	----------------------	----------------------

HESW-T- 3B1-24	24-1 Gray Felt	60% Chrysotile
-------------------	----------------	-----------------------

HESW-T- 3B2-25	25-1 Gray Felt	60% Chrysotile
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HESW-T- 3B3-26	26-1 Gray Felt	60% Chrysotile
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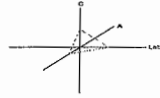
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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CA Labs, L.L.C.
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 Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (West Wing)		CA Labs Project #: CBR21063358	
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types

HESW-S-10B1-49	49-1		Tan Surfaced Tan Plaster	3% Chrysotile	
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HESW-S-10B2-50	50-1		Tan Surfaced Tan Plaster	3% Chrysotile	
----------------	------	--	--------------------------	---------------	--

HESW-S-10B3-51	51-1		Tan Surfaced Tan Plaster	3% Chrysotile	
----------------	------	--	--------------------------	---------------	--

HESW-M-10C1-52	52-1		Brown Surfaced Gray Sealant	2% Chrysotile	
----------------	------	--	-----------------------------	---------------	--

HESW-M-10C2-53	53-1		Brown Surfaced Gray Sealant	2% Chrysotile	
----------------	------	--	-----------------------------	---------------	--

HESW-M-10C3-54	54-1		Brown Surfaced Gray Sealant	2% Chrysotile	
----------------	------	--	-----------------------------	---------------	--

HESW-M-10E1-58	58-1		Tan Textured Surfacing	2% Chrysotile	
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HESW-M-10E2-59	59-1		Tan Textured Surfacing	2% Chrysotile	
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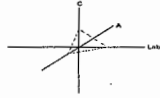
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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NVLAP #200772-0
 TDSHS #300370
 CDPHE #AL-10111
 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (West Wing)		CA Labs Project #:	CBR21063358
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESW-M-10E3-60	60-1		Tan Textured Surfacing	2% Chrysotile	

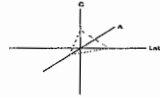
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project: Holloman Elementary School
(West Wing)
CA Labs Project #: CBR21063358

Turnaround Time: 3 day
Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:

Phone # 505-232-9533
Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M-1A1-1		1-1		Brown Mastic	Y	None Detected		100% qu, bi
HESW-M-1A2-2		2-1		Brown Mastic	Y	None Detected		100% qu, bi
		2-2		Gray Plaster	Y	None Detected		100% qu, ma, ca
HESW-M-1A3-3		3-1		Brown Mastic	Y	None Detected		100% qu, bi
		3-2		Gray Plaster	Y	None Detected		100% qu, ma, ca
HESW-M-1B1-4		4-1		Tan Mastic	Y	None Detected		100% qu, bi
		4-2		White Leveling Compound	Y	None Detected		100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

David Darby
Analyst

Senior Analyst
Alicia Stretz

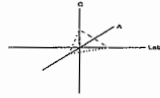
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(West Wing)

CA Labs Project #:
CBR21063358

Turnaround Time: 3 day

Date: 6/17/2021
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Date Of Sampling: 6/10/2021
Purchase Order #:

Phone # 505-232-9533
Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Physical Subsample Description of	Homog- eneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M-1B2-5		5-1	Tan Mastic	Y	None Detected		100% qu, bi
HESW-M-1B3-6		6-1	Tan Mastic	Y	None Detected		100% qu, bi
HESW-M-1C1-7		7-1	Brown Mastic	Y	None Detected		100% qu, bi
HESW-M-1C2-8		8-1	Brown Mastic	Y	None Detected		100% qu, bi
HESW-M-1C3-9		9-1	Brown Mastic	Y	None Detected		100% qu, bi
		9-2	White Drywall	Y	None Detected	5% ce	95% qu, gy
HESW-M-2A1-10		10-1	Green Floor Tile	Y	3% Chrysotile		97% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

David Darby
Analyst

Senior Analyst
Alicia Stretz

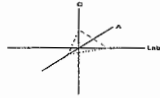
Laboratory Director
Chris Williams

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2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0
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CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
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Albuquerque, NM 87176

Customer Project:
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(West Wing)

CA Labs Project #:
CBR21063358

Date: 6/17/2021

Turnaround Time: 3 day

Samples Received: 6/14/2021

Phone # 505-232-9533

Date Of Sampling: 6/10/2021

Fax # 505-256-8237

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homog- eneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		10-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESW-M- 2A2-11		11-1		Green Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		11-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESW-M- 2B1-12		12-1		Tan Floor Tile	Y	2% Chrysotile		98% qu, ma, ca
		12-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESW-M- 2B2-13		13-1		White Floor Tile	Y	2% Chrysotile		98% qu, ma, ca
		13-2		Black Mastic	Y	5% Chrysotile		95% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

David Darby
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200772-0
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Polarized Light Asbestiform Materials Characterization

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CA Labs Project #:
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Fax # 505-256-8237

Turnaround Time: 3 day


Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:


Sample #	Com ment	Layer #	Analysts Physical Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M- 2C1-14		14-1		Tan Floor Tile	Y	2% Chrysotile		98% qu, ma, ca
		14-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESW-M- 2C2-15		15-1		Tan Floor Tile	Y	2% Chrysotile		98% qu, ma, ca
		15-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESW-M- 2C3-16		16-1		Tan Floor Tile	Y	2% Chrysotile		98% qu, ma, ca
		16-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESW-M- 2D1-17		17-1		Gray Vinyl Floor Tile	Y	None Detected		100% qu, ma


Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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Approved Signatories:


David Darby
Analyst


Senior Analyst
Alicia Stretz


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CA Labs Project #:
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Fax # 505-256-8237

Turnaround Time: 3 day


Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:


Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M- 2D2-18		18-1		Gray Vinyl Floor Tile	Y	None Detected		100% qu, ma
HESW-M- 2E1-19		19-1		Tan Mastic	Y	None Detected		100% qu, bi
		19-2		Tan Floor Tile	Y	2% Chrysotile		98% qu, ma, ca
		19-3		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESW-M- 2E2-20		20-1		Tan Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		20-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
		20-3		White Leveling Compound	Y	None Detected		100% qu, ma, ca

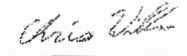
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


David Darby
Analyst


Senior Analyst
Alicia Stretz

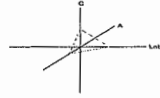

Laboratory Director
Chris Williams

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day


Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-T-3A1-21		21-1	Gray Insulation	Y	6% Chrysotile	20% fg	74% qu, ma, ca
HESW-T-3A2-22		22-1	Gray Insulation	Y	6% Chrysotile	20% fg	74% qu, ma, ca
HESW-T-3A3-23		23-1	Gray Insulation	Y	6% Chrysotile	20% fg	74% qu, ma, ca
HESW-T-3B1-24		24-1	Gray Felt	Y	60% Chrysotile		40% qu, ma
HESW-T-3B2-25		25-1	Gray Felt	Y	60% Chrysotile		40% qu, ma
HESW-T-3B3-26		26-1	Gray Felt	Y	60% Chrysotile		40% qu, ma
HESW-S-4A1-27		27-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca

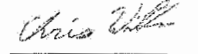
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Approved Signatories:


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Analyst


Senior Analyst
Alicia Stretz

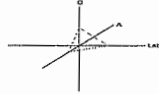

Laboratory Director
Chris Williams

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Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(West Wing)

CA Labs Project #:
CBR21063358

Date: 6/17/2021

Turnaround Time: 3 day

Samples Received: 6/14/2021

Phone # 505-232-9533

Date Of Sampling: 6/10/2021

Fax # 505-256-8237

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
			White Compound Beneath 27-2 Tape	Y	None Detected		100% qu, bi, ca
			27-3 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESW-S- 4A2-28			28-1 White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
			White Compound Beneath 28-2 Tape	Y	None Detected		100% qu, bi, ca
			28-3 White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESW-S- 4A3-29			29-1 White Textured Surfacing	N	None Detected		100% qu, mi, bi, ca
			White Compound Beneath 29-2 Tape	Y	None Detected		100% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

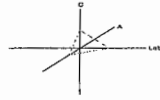
David Darby
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

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4. Layer not analyzed - attached to previous positive layer and contamination is suspected
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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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		29-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESW-M- 4B1-30		30-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
HESW-M- 4B2-31		31-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
HESW-M- 4B3-32		32-1	White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca
HESW-S- 4C1-33		33-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESW-S- 4C2-34		34-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESW-S- 4C3-35		35-1	Tan Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca

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Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-S- 4C4-36		36-1		Tan Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESW-S- 4C5-37		37-1		Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
		37-2		Gray Plaster	Y	None Detected		100% qu, ma, ca
HESW-S- 4C6-38		38-1		Yellow Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESW-S- 4C7-39		39-1		White Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
		39-2		Gray Plaster	Y	None Detected		100% qu, ma, ca
HESW-M- 5A1-40		40-1		Tan Ceiling Tile	Y	None Detected	80% ce	20% qu, ma

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
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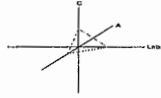
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Sample #	Com ment	Layer #	Analysts Physical Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M- 5A2-41		41-1		Tan Ceiling Tile	Y	None Detected	80% ce	20% qu, ma
HESW-M- 5A3-42		42-1		Tan Ceiling Tile	Y	None Detected	80% ce	20% qu, ma
HESW-M- 8A1-43		43-1		Gray Sealant	Y	None Detected		100% qu, ma
HESW-M- 8A2-44		44-1		White Surfaced Gray Sealant	N	None Detected		100% qu, ma, bi
HESW-M- 8A3-45		45-1		Gray Sealant	Y	None Detected		100% qu, ma
HESW-M- 10A1-46		46-1		White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca
HESW-M- 10A2-47		47-1		White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca

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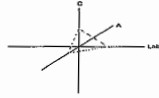
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HESW-M- 10A3-48		48-1	Tan Surfaced White Finishing Plaster	N	None Detected		100% qu, ma, bi, ca
		48-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
HESW-S- 10B1-49		49-1	Tan Surfaced Tan Plaster	N	3% Chrysotile		97% qu, ma, bi, ca
HESW-S- 10B2-50		50-1	Tan Surfaced Tan Plaster	N	3% Chrysotile		97% qu, ma, bi, ca
		50-2	Gray Plaster	Y	None Detected		100% qu, ma, ca
HESW-S- 10B3-51		51-1	Tan Surfaced Tan Plaster	N	3% Chrysotile		97% qu, ma, bi, ca
HESW-M- 10C1-52		52-1	Brown Surfaced Gray Sealant	N	2% Chrysotile		98% qu, ma, bi

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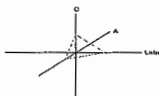
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HESW-M-10C2-53		53-1		Brown Surfaced Gray Sealant	N	2% Chrysotile		98% qu, ma, bi
HESW-M-10C3-54		54-1		Brown Surfaced Gray Sealant	N	2% Chrysotile		98% qu, ma, bi
HESW-M-10D1-55		55-1		White Sealant	Y	None Detected	6% wo	94% qu, ma, ca
HESW-M-10D2-56		56-1		White Sealant	Y	None Detected	6% wo	94% qu, ma, ca
HESW-M-10D3-57		57-1		White Sealant	Y	None Detected	6% wo	94% qu, ma, ca
HESW-M-10E1-58		58-1		Tan Textured Surfacing	N	2% Chrysotile		98% qu, ma, bi, ca
HESW-M-10E2-59		59-1		Tan Textured Surfacing	N	2% Chrysotile		98% qu, ma, bi, ca

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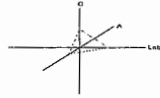
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HESW-M- 10E3-60		60-1	Tan Textured Surfacing		N	2% Chrysotile		98% qu, ma, bi, ca

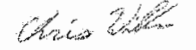
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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (West Wing)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact Information:			
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938	
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-10-21	Email: havonaenvironmental@yahoo.com			
Sampler's Signature: <i>Scott Puma</i>				Page: 1	of 5		
SAMPLE #	LOCATION	MATERIAL	COMMENT				
HESW-M-1A1-1	West Wing	WALL					
1A2-2		↓					
1A3-3							
M-1B1-4		FLOOR					
1B2-5		↓					
1B3-6							
M-1C1-7		CEILING					
1C2-8		↓					
1C3-9							
M-2A1-10		FLOOR					
2A2-11		↓					
M-2B1-12							
2B2-13							
M-2C1-14		↓					
Turn Around Time		2-4 Hour	Same Day	24 Hour	2 Day	<u>3 Day</u>	5-10 Day
Relinquished By: <i>Scott Puma</i>			Date/Time: 6-11-2021	Received By: <i>Cissy Puma</i>		Date/Time: 6-14-2021 8:50	
Relinquished By:			Date/Time:	Received By:		Date/Time:	

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location: Holloman Elementary School (West Wing) Holloman Air Force Base Alamogordo, NM		Havona Client: Alamogordo Public Schools	
Sampled By: Scott Puma and Junior Fresquez		Havona Contact Information:	
Date Sampled: 6-10-21		Name: Cissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>[Signature]</i>		Email: havonaenvironmental@yahoo.com	
		Page: 3	of 5

SAMPLE #	LOCATION	MATERIAL	COMMENT	
HESW-S-4A3-29	West Wing ↓	wall ↓		
M-4B1-30				
4B2-31				
4B3-32				
S-4C1-33				
4C2-34				
4C3-35				
4C4-36				
4C5-37				
4C6-38				
4C7-39				
M-5A1-46				CEILING ↓
5A2-41				
5A3-42				

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By: <i>[Signature]</i>	Date/Time: 6-11-2021	Received By: <i>[Signature]</i>	Date/Time: 6-14-2021 8:50			
Relinquished By:	Date/Time:	Received By:	Date/Time:			

PLM BULK SAMPLE CHAIN OF CUSTODY

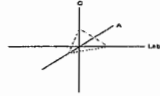
Havona Project Name and Location: Holloman Elementary School (West Wing) Holloman Air Force Base Alamogordo, NM		Havona Client: Alamogordo Public Schools	
Sampled By: Scott Puma and Junior Fresquez		Havona Contact Information:	
Date Sampled: 6-10-21		Name: Cissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>[Signature]</i>		Email: havonaenvironmental@yahoo.com	
		Page: 4	of 5

SAMPLE #	LOCATION	MATERIAL	COMMENT
HESW-M-8A1-43	West Wing ↓	DUCT	
8A2-44		↓	
8A3-45			
M-10A1-46		WALL	
10A2-47		↓	
10A3-48			
S-10B1-49		EXT. SOFFIT	
10B2-50		↓	
10B3-51			
M-10C1-52		WINDOW	
10C2-53		↓	
10C3-54			
M-10D1-55		DOOR/WINDOW	
10D2-56		↓	

Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By:	<i>[Signature]</i>		Date/Time:	Received By:	<i>[Signature]</i>	
			6-11-2021		6-14-2021 8:50	
Relinquished By:			Date/Time:	Received By:		

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CA Labs, L.L.C.
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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Holloman Elementary School (West Wing-Roof)
Reference #: CBR21063724 Date: 6/30/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

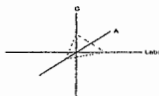
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0
 TDSHS #300370
 CDPHE #AL-18111
 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Holloman Elementary School (West Wing-Roof) CA Labs Project #: CBR21063724

Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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No Asbestos Detected.

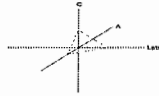
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(West Wing-Roof)

CA Labs Project #:
CBR21063724

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/30/2021
Samples Received: 6/28/2021
Date Of Sampling: 6/23/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESW-M-9A1-61		61-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESW-M-9A2-62		62-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESW-M-9A3-63		63-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESW-M-9B1-64		64-1	Black Felt	Y	None Detected	40% ce	60% qu, bi
HESW-M-9B2-65		65-1	Black Felt	Y	None Detected	40% ce	60% qu, bi
HESW-M-9B3-66		66-1	Black Felt	Y	None Detected	40% ce	60% qu, bi
HESW-M-9C1-67		67-1	Black Tar	Y	None Detected	5% ce	95% qu, ma, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Sidney Pinkerton
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

Chris Williams
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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NVLAP #200712-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
 P.O.Box 35848
 Albuquerque, NM 87176

Customer Project:
 Holloman Elementary School
 (West Wing-Roof)

CA Labs Project #:
 CBR21063724

Phone # 505-232-9533
 Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/30/2021
Samples Received: 6/28/2021
Date Of Sampling: 6/23/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
67-2 Brown Fibrous Insulation					Y	None Detected	100% ce	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
 Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
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or - organic	pe - perite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
 Sidney Pinkerton
 Analyst

 Senior Analyst
 Alicia Stretz

Chris Williams
 Laboratory Director
 Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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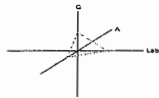
CBR210637234

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (West Wing-Roof)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact Information:			
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938	
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-23-21			Email: havonaenvironmental@yahoo.com	
Sampler's Signature: <i>[Signature]</i>				Page: 1 of 1			
SAMPLE #	LOCATION	MATERIAL	COMMENT				
HESW-M-9A1-61	West Wing ↓	ROOF					
9A2-62							
9A3-63							
M-9B1-64							
9B2-65							
9B3-66							
M-9C1-67							
Turn Around Time		2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By: <i>[Signature]</i>			Date/Time: 6-25-21	Received By: <i>[Signature]</i>			Date/Time: 6-28-2021 8:00
Relinquished By:			Date/Time:	Received By:			Date/Time:

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Holloman Elementary School (Cafeteria)
Reference #: CBR21063357

Date: 6/17/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

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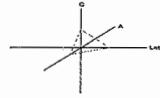
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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (Cafeteria)		CA Labs Project #:	CBR21063357
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESC-M-1A2-2	2-1		Tan and Green Sealant	2% Chrysotile	Tan and Green Sealant Tan Insulation White Surfaced Tan Compound White Surfaced Tan and Green Compo Tan Surfaced Tan Compound Brown Surfaced White Sealant Brown and Blue Surfaced White Sealant Brown Surfaced Tan Sealant
HESC-M-1A3-3	3-1		Green Sealant	2% Chrysotile	
HESC-T-3A1-13	13-1		Tan Insulation	7% Chrysotile	
HESC-T-3A2-14	14-1		Tan Insulation	7% Chrysotile	
HESC-T-3A3-15	15-1		Tan Insulation	7% Chrysotile	
HESC-M-4B2-20	20-1		White Surfaced Tan Compound	2% Chrysotile	
HESC-M-2B3-21	21-1		White Surfaced Tan Compound	2% Chrysotile	
HESC-M-10A1-34	34-1		White Surfaced Tan and Green Compound	3% Chrysotile	

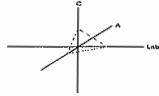
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Holloman Elementary School (Cafeteria) **CA Labs Project #:** CBR21063357

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
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HESC-M-10A2-35	35-1	White Surfaced Tan and Green Compound	3% Chrysotile	
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HESC-M-10A3-36	36-1	White Surfaced Tan and Green Compound	3% Chrysotile	
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HESC-M-10B1-37	37-1	Tan Surfaced Tan Compound	2% Chrysotile	
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HESC-M-10B2-38	38-1	Tan Surfaced Tan Compound	2% Chrysotile	
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HESC-M-10B3-39	39-1	Tan Surfaced Tan Compound	2% Chrysotile	
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HESC-M-10C2-41	41-1	Brown Surfaced White Sealant	2% Chrysotile	
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HESC-M-10C3-42	42-1	Brown Surfaced White Sealant	2% Chrysotile	
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HESC-M-10D2-43	43-1	Brown Surfaced White Sealant	2% Chrysotile	
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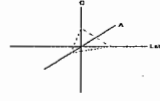
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
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| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (Cafeteria)		CA Labs Project #:	CBR21063357
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESC-M-10D1-44	44-1		<i>Brown and Blue Surfaced White Sealant</i>	3% Chrysotile	
HESC-M-10D3-45	45-1		<i>Brown Surfaced Tan Sealant</i>	3% Chrysotile	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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Polarized Light Asbestiform Materials Characterization

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Havona Environmental
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Turnaround Time: 3 day

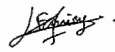
Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:


Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M-1A1-1		1-1		Brown Mastic	Y	None Detected		100% qu, bi
HESC-M-1A2-2		2-1		Tan and Green Sealant	N	2% Chrysotile		98% qu, ma, ca
		2-2		Brown Mastic	Y	None Detected		100% qu, bi
HESC-M-1A3-3		3-1		Green Sealant	Y	2% Chrysotile		98% qu, ma, ca
		3-2		Yellow Mastic	Y	None Detected		100% qu, bi
HESC-M-2A1-4		4-1		Blue Floor Tile	Y	None Detected		100% qu, ma, ca
		4-2		Yellow and Brown Mastic	N	None Detected		100% qu, bi

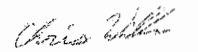
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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:


Zo Andriampenomanana
Analyst


Senior Analyst
Alicia Stretz

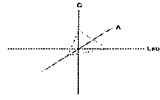

Laboratory Director
Chris Williams

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
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Quality

CA Labs, L.L.C.
12232 Induatriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(Cafeteria)

CA Labs Project #:
CBR21063357

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo-geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		4-3	Gray and White Plaster	N	None Detected		100% qu, ma, ca
HESC-M-2A2-5		5-1	Blue Floor Tile	Y	None Detected		100% qu, ma, ca
		5-2	Yellow Mastic	Y	None Detected		100% qu, bi
		5-3	White Plaster	Y	None Detected		100% qu, ma, ca
		5-4	Gray Grout	Y	None Detected		100% qu, ma, ca
HESC-M-2A3-6		6-1	Blue Floor Tile	Y	None Detected		100% qu, ma, ca
		6-2	Yellow Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Zo Andriampenomanana
Analyst

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HESC-M- 2B1-7		7-1	Blue Floor Tile	Y	None Detected		100% qu, ma, ca
		7-2	Yellow Mastic	Y	None Detected		100% qu, bi
HESC-M- 2B2-8		8-1	Red Floor Tile	Y	None Detected		100% qu, ma, ca
		8-2	Yellow Mastic	Y	None Detected		100% qu, bi
HESC-M- 2B3-9		9-1	White Floor Tile	Y	None Detected		100% qu, ma, ca
		9-2	Yellow Mastic	Y	None Detected		100% qu, bi
		9-3	Gray Grout	Y	None Detected		100% qu, ma, ca

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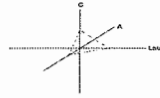
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HESC-M- 2C1-10		10-1		Green Flooring	N	None Detected		100% qu, ma, ot, ca
HESC-M- 2C2-11		11-1		Green Flooring	N	None Detected		100% qu, ma, ot, ca
HESC-M- 2C3-12		12-1		Green Flooring	N	None Detected		100% qu, ma, ot, ca
HESC-T- 3A1-13		13-1		Tan Insulation	Y	7% Chrysotile	10% fg	83% qu, ma, ca
HESC-T- 3A2-14		14-1		Tan Insulation	Y	7% Chrysotile	10% fg	83% qu, ma, ca
HESC-T- 3A3-15		15-1		Tan Insulation	Y	7% Chrysotile	10% fg	83% qu, ma, ca
HESC-S- 4A1-16		16-1		White Surfaced White Compound	N	None Detected		100% qu, mi, bi, ca

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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
				<i>White Compound Beneath</i>				
	16-2			<i>Tape</i>	Y	None Detected		100% qu, mi, ca
	16-3			<i>White Drywall with Paper</i>	N	None Detected	10% ce	90% qu, gy
HESC-S- 4A2-17		17-1		<i>White Surfaced White Compound</i>	N	None Detected		100% qu, mi, bi, ca
	17-2			<i>White Drywall with Paper</i>	N	None Detected	10% ce	90% qu, gy
HESC-S- 4A3-18		18-1		<i>White Surfaced White Compound</i>	N	None Detected		100% qu, mi, bi, ca
	18-2			<i>White Drywall with Paper</i>	N	None Detected	10% ce	90% qu, gy
HESC-M- 4B1-19		19-1		<i>White Surfaced White Compound</i>	N	None Detected		100% qu, mi, bi, ca

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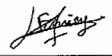
Purchase Order #:


Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M-4B2-20		20-1	White Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
HESC-M-2B3-21		21-1	White Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
HESC-S-4C1-22		22-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ot, ca
HESC-S-4C2-23		23-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ot, ca
		23-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESC-S-4C3-24		24-1	White Textured Surfacing	N	None Detected		100% qu, mi, bi, ot, ca
		24-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

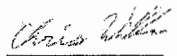
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ma - matrix	qu - quartz	sy - synthetic	

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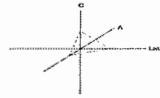

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HESC-S-4D1-25		25-1		White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESC-S-4D2-26		26-1		White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESC-S-4D3-27		27-1		White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESC-M-5A1-28		28-1		White Covering	Y	None Detected	90% ce	10% qu, bi
		28-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESC-M-5A2-29		29-1		White Covering	Y	None Detected	90% ce	10% qu, bi
		29-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

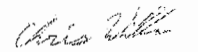
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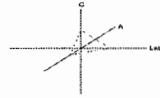

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HESC-M-5A3-30		30-1		White Covering	Y	None Detected	90% ce	10% qu, bi
HESC-M-5B1-31		31-1		White Surfacing	N	None Detected		100% qu, bi
		31-2		Brown Ceiling Tile	Y	None Detected	100% ce	
HESC-M-5B2-32		32-1		White Surfacing	N	None Detected		100% qu, bi
		32-2		Brown Ceiling Tile	Y	None Detected	100% ce	
HESC-M-5B3-33		33-1		White Surfacing	N	None Detected		100% qu, bi
		33-2		Brown Ceiling Tile	Y	None Detected	100% ce	

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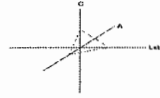
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HESC-M-10A1-34		34-1		White Surfaced Tan and Green Compound	N	3% Chrysotile		97% qu, mi, bi, ca
HESC-M-10A2-35		35-1		White Surfaced Tan and Green Compound	N	3% Chrysotile		97% qu, mi, bi, ca
		35-2		Gray CMU	Y	None Detected		100% qu, ma, ca
HESC-M-10A3-36		36-1		White Surfaced Tan and Green Compound	N	3% Chrysotile		97% qu, mi, bi, ca
HESC-M-10B1-37		37-1		Tan Surfaced Tan Compound	Y	2% Chrysotile		98% qu, mi, bi, ca
		37-2		Gray Plaster	Y	None Detected		100% qu, ma, ca
HESC-M-10B2-38		38-1		Tan Surfaced Tan Compound	Y	2% Chrysotile		98% qu, mi, bi, ca

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Zo Andriampenomanana
Analyst

Senior Analyst
Alicia Stretz

Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

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7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(Cafeteria)

CA Labs Project #:
CBR21063357

Date: 6/17/2021

Turnaround Time: 3 day

Samples Received: 6/14/2021

Phone # 505-232-9533

Date Of Sampling: 6/10/2021

Fax # 505-256-8237

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		38-2		Gray Plaster	Y	None Detected		100% qu, ma, ca
HESC-M-10B3-39		39-1		Tan Surfaced Tan Compound	Y	2% Chrysotile		98% qu, mi, bi, ca
		39-2		Gray Plaster	Y	None Detected		100% qu, ma, ca
HESC-M-10C1-40		40-1		White Sealant	Y	None Detected		100% qu, ma, ca
HESC-M-10C2-41		41-1		Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
HESC-M-10C3-42		42-1		Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca
HESC-M-10D2-43		43-1		Brown Surfaced White Sealant	N	2% Chrysotile		98% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Zo Andriampenomanana
Analyst

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Alicia Stretz

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(Cafeteria)

CA Labs Project #:
CBR21063357

Turnaround Time: 3 day

Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:

Phone # 505-232-9533
Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M-10D1-44		44-1		<i>Brown and Blue Surfaced White Sealant</i>	N	3% Chrysotile		97% qu, ma, bi, ca
HESC-M-10D3-45		45-1		<i>Brown Surfaced Tan Sealant</i>	N	3% Chrysotile		97% qu, ma, bi, ca
HESC-S-10E1-46		46-1		<i>Tan Surfaced Tan Compound</i>	N	None Detected		100% qu, ma, bi, ca
		46-2		<i>Gray Plaster</i>	Y	None Detected		100% qu, ma, ca
HESC-S-10E2-47		47-1		<i>Tan Surfaced Tan Compound</i>	N	None Detected		100% qu, ma, bi, ca
		47-2		<i>Gray Plaster</i>	Y	None Detected		100% qu, ma, ca
HESC-S-10E3-48		48-1		<i>Tan Surfaced Tan Compound</i>	N	None Detected		100% qu, ma, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Zo Andriampenanana
Analyst

Senior Analyst
Alicia Stretz

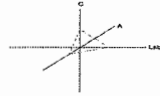
Laboratory Director
Chris Williams

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(Cafeteria)

CA Labs Project #:
CBR21063357

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/17/2021
Samples Received: 6/14/2021
Date Of Sampling: 6/10/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M- 10F1-49		49-1	Gray Sealant		Y	None Detected		100% qu, ma, ca
HESC-M- 10F2-50		50-1	Gray Sealant		Y	None Detected		100% qu, ma, ca
HESC-M- 10F3-51		51-1	Gray Sealant		Y	None Detected		100% qu, ma, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

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CBR21063357

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:				
Holloman Elementary School (Cafeteria)				Alamogordo Public Schools				
Holloman Air Force Base				Havona Contact Information:				
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938		
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-10-21	Email: havonaenvironmental@yahoo.com				
Sampler's Signature: <i>Scott Puma</i>				Page: 1	of 4			
SAMPLE #	LOCATION	MATERIAL	COMMENT					
HESC-M-1A1-1	Cafeteria	WALL						
1A2-2		↓						
1A3-3								
M-2A1-4		FLOOR						
2A2-5								
2A3-6								
M-2B1-7								
2B2-8								
2B3-9								
M-2C1-10								
2C2-11								
2C3-12								
F-3A1-13			PIPE					
3A2-14		↓	↓					
Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day		
Relinquished By:	<i>Scott Puma</i>	Date/Time:	6-11-2021	Received By:	<i>Cissy Puma</i>	Date/Time:	6-14-2021 8:50	
Relinquished By:		Date/Time:		Received By:		Date/Time:		

0BR21063351

havonaenvironmental
environmental consulting and testing

Havona Environmental, Inc. Phone 505-232-9533
P.O. Box 35848 Fax 505-212-0069
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:									
Holloman Elementary School (Cafeteria)				Alamogordo Public Schools									
Holloman Air Force Base				Havona Contact Information:									
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938							
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-10-2021	Email: havonaenvironmental@yahoo.com									
Sampler's Signature: <i>Scott Puma</i>				Page: 2		of 4							
SAMPLE #	LOCATION	MATERIAL	COMMENT										
HESC-J-8A3-15	Cafeteria	PIPE											
S-4A1-16		WALL / CEILING											
4A2-17		↓											
4A3-18													
M-4B1-19													
4B2-20													
4B3-21													
S-4C1-22			CEILING										
4C2-23			↓										
4C3-24													
S-4D1-25			WALL										
4D2-26			↓										
4D3-27													
M-5A1-28		CEILING											
Turn Around Time		2-4 Hour		Same Day		24 Hour		2 Day		3 Day		5-10 Day	
Relinquished By: <i>Scott Puma</i>				Date/Time: 6-11-2021		Received By: <i>[Signature]</i>				Date/Time: 6-14-2021 8:50			
Relinquished By:				Date/Time:		Received By:				Date/Time:			

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location: Holloman Elementary School (Cafeteria) Holloman Air Force Base Alamogordo, NM		Havona Client: Alamogordo Public Schools	
Sampled By: Scott Puma and Junior Fresquez		Havona Contact Information:	
Date Sampled: 6-10-21		Name: Cissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>[Signature]</i>		Email: havonaenvironmental@yahoo.com	
		Page: 3	of 4

SAMPLE #	LOCATION	MATERIAL	COMMENT	
HESC-M-5A2-29	Cafeteria	CEILING		
5A3-30				
M-5B1-31				
5B2-32				
5B3-33				
M-10A1-34			WALL	
10A2-35				
10A3-36				
M-10B1-37			EXT. WALL	
10B2-38				
10B3-39				
M-10C1-40			WINDOW	
10C2-41				
10C3-42				

Turn-Around Time	2-4 Hour	Same Day	24 Hour	2 Day	<u>3 Day</u>	5-10 Day
Relinquished By: <i>[Signature]</i>	Date/Time: 6-11-2021	Received By: <i>[Signature]</i>	Date/Time: 6-14-2021 8:50			
Relinquished By:	Date/Time:	Received By:	Date/Time:			

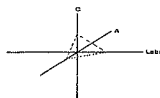
CBR21063357

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:																															
Holloman Elementary School (Cafeteria)				Alamogordo Public Schools																															
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Sampler's Signature: <i>Scott Puma</i>				Page: 4 of 4																															
SAMPLE #	LOCATION	MATERIAL	COMMENT																																
HESC-S-10E1-46	Cafeteria ↓	EXT. SOFFIT																																	
10E2-47		↓																																	
10E3-48																																			
M-10F1-49			PIPE																																
10F2-50			↓																																
10F3-51																																			
<table border="1"> <tr> <td>Turn Around Time</td> <td>2-4 Hour</td> <td>Same Day</td> <td>24 Hour</td> <td>2 Day</td> <td>3 Day</td> <td>5-10 Day</td> </tr> <tr> <td>Relinquished By:</td> <td colspan="2">Date/Time:</td> <td colspan="2">Received By:</td> <td colspan="2">Date/Time:</td> </tr> <tr> <td><i>Scott Puma</i></td> <td colspan="2">6-11-2021</td> <td colspan="2"><i>Cissy Puma</i></td> <td colspan="2">6-14-2021 8:50</td> </tr> <tr> <td>Relinquished By:</td> <td colspan="2">Date/Time:</td> <td colspan="2">Received By:</td> <td colspan="2">Date/Time:</td> </tr> </table>								Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day	Relinquished By:	Date/Time:		Received By:		Date/Time:		<i>Scott Puma</i>	6-11-2021		<i>Cissy Puma</i>		6-14-2021 8:50		Relinquished By:	Date/Time:		Received By:		Date/Time:	
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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Holloman Elementary School (Cafeteria-Roof)
Reference #: CBR21063725

Date: 6/30/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

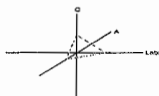
Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one of these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project: Holloman Elementary School (Cafeteria-Roof) **CA Labs Project #:** CBR21063725

Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESC-M-9A1-52	52-1		Silver Surfaced Black Tar	5% Chrysotile	Silver Surfaced Black Tar Gray Tar
HESC-M-9A2-53	53-1		Gray Tar	5% Chrysotile	
HESC-M-9A3-54	54-1		Silver Surfaced Black Tar	10% Chrysotile	
HESC-M-9B1-55	55-1		Silver Surfaced Black Tar	5% Chrysotile	

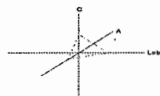
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

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Polarized Light Asbestiform Materials Characterization

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CA Labs Project #:
CBR21063725

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/30/2021
Samples Received: 6/28/2021
Date Of Sampling: 6/23/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESC-M-9A1-52		52-1		Silver Surfaced Black Tar	N	5% Chrysotile		95% qu, ma, bi
HESC-M-9A2-53		53-1		Gray Tar	Y	5% Chrysotile		95% qu, ma, bi
HESC-M-9A3-54		54-1		Silver Surfaced Black Tar	N	10% Chrysotile		90% qu, ma, bi
HESC-M-9B1-55		55-1		Silver Surfaced Black Tar	N	5% Chrysotile		95% qu, ma, bi
HESC-M-9B2-56		56-1		Black Tar	Y	None Detected		100% qu, bi
HESC-M-9B3-57		57-1		Gray and Black Tar	Y	None Detected	5% ce	95% qu, bi
HESC-M-9C1-58		58-1		Black Tar	Y	None Detected	3% ce	97% qu, ma, bi

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ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Sidney Pinkerton
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

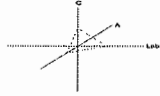
Chris Williams
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NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(Cafeteria-Roof)

CA Labs Project #:
CBR21063725

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/30/2021
Samples Received: 6/28/2021
Date Of Sampling: 6/23/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		58-2	Gray Insulation	Y	None Detected	2% fg	98% qu, ma, ca
HESC-M- 9C2-59		59-1	Various Black Tar and Felt Layers	N	None Detected	10% fg	90% qu, ma, bi
		59-2	Brown Fibrous Insulation	Y	None Detected	100% ce	

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for
identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Sidney Pinkerton
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

Chris Williams
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CBR21063725

havonaenvironmental
environmental consulting and testing

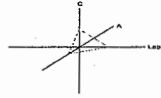
Havona Environmental, Inc. Phone 505-232-9533
P.O. Box 35848 Fax 505-212-0069
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (Cafeteria-Roof)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact Information:			
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938	
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-23-21			Email: havonaenvironmental@yahoo.com	
Sampler's Signature: <i>Scott Puma</i>				Page: / of /			
SAMPLE #	LOCATION	MATERIAL	COMMENT				
HESC-M-9A1-52	Cafeteria/Kitchen ↓	ROOF					
9A2-53							
9A3-54							
M-9B1-55							
9B2-56							
9B3-57							
M-9C1-58							
9C2-59							
Turn Around Time		2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By: <i>Scott Puma</i>		Date/Time: 6-25-21		Received By: <i>Scott Puma</i>		Date/Time: 6-28-2021 8:00	
Relinquished By:		Date/Time:		Received By:		Date/Time:	

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Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

Havona Environmental

P.O.Box 35848
Albuquerque, NM 87176

Attn: Cissy Puma

Customer Project: Holloman Elementary School (East Wing)

Reference #: CBR21063720

Date: 6/30/2021

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved)). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found by PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines. Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. This report is not covered by the scope of AIHA accreditation. Analysis performed at CA Labs, LLC 12232 Industriplex, Suite 32 Baton Rouge, LA 70809.

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NVLAP #200772-0
 TDSHS #300370
 CDPHE #AL-18111
 LELAP #03069

Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (East Wing)		CA Labs Project #: CBR21063720	
Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types	
HESE-M-2A1-10	10-1	Green Floor Tile	6% Chrysotile	Green Floor Tile Black Mastic Tan Floor Tile Tan Sealant Tan Surfaced Tan Compound Gray Sealant Gray Transite	
HESE-M-2A2-11	11-1	Green Floor Tile	6% Chrysotile		
	11-2	Black Mastic	3% Chrysotile		
HESE-M-2B1-12	12-1	Tan Floor Tile	6% Chrysotile		
	12-2	Black Mastic	5% Chrysotile		
HESE-M-2B2-13	13-1	Tan Floor Tile	6% Chrysotile		
	13-2	Black Mastic	5% Chrysotile		
HESE-M-2B3-14	14-1	Tan Floor Tile	6% Chrysotile		

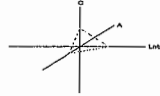
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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Overview of Project Sample Material Containing Asbestos

Customer Project: Holloman Elementary School (East Wing) **CA Labs Project #:** CBR21063720

Sample #	Layer #	Analysts Subsample	Physical Description of	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
----------	---------	--------------------	-------------------------	--	--

	14-2		Black Mastic	5% Chrysotile	
--	------	--	--------------	---------------	--

HESE-M-2D1-18	18-1		Tan Floor Tile	3% Chrysotile	
---------------	------	--	----------------	---------------	--

	18-2		Black Mastic	5% Chrysotile	
--	------	--	--------------	---------------	--

HESE-M-2D2-19	19-1		Tan Floor Tile	3% Chrysotile	
---------------	------	--	----------------	---------------	--

	19-2		Black Mastic	5% Chrysotile	
--	------	--	--------------	---------------	--

HESE-M-2D3-20	20-1		Tan Floor Tile	3% Chrysotile	
---------------	------	--	----------------	---------------	--

	20-2		Black Mastic	5% Chrysotile	
--	------	--	--------------	---------------	--

HESE-M-10D1-74	74-1		Tan Sealant	3% Chrysotile	
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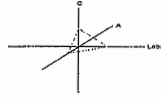
Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- | | | | |
|------------------|--------------|--------------------|--------------------------|
| ca - carbonate | pe - perlite | fg - fiberglass | pa - palygorskite (clay) |
| gypsum - gypsum | qu - quartz | mw - mineral wool | |
| bi - binder | | wo - wollastinite | |
| or - organic | | ta - talc | |
| ma - matrix | | sy - synthetic | |
| mi - mica | | ce - cellulose | |
| ve - vermiculite | | br - brucite | |
| ot - other | | ka - kaolin (clay) | |

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Overview of Project Sample Material Containing Asbestos

Customer Project:		Holloman Elementary School (East Wing)		CA Labs Project #:	CBR21063720
Sample #	Layer #	Analysts	Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
HESE-M-10D2-75	75-1		Tan Sealant	3% Chrysotile	
HESE-M-10D3-76	76-1		Tan Sealant	3% Chrysotile	
HESE-M-10F1-80	80-1		Tan Surfaced Tan Compound	2% Chrysotile	
HESE-M-10F2-81	81-1		Tan Surfaced Tan Compound	2% Chrysotile	
HESE-M-10F3-82	82-1		Tan Surfaced Tan Compound	2% Chrysotile	
HESE-M-10I1-89	89-1		Gray Sealant	4% Chrysotile	
HESE-M-10I2-90	90-1		Gray Sealant	4% Chrysotile	
HESE-M-10J1-91	91-1		Gray Transite	15% Chrysotile	

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate	pe - perlite	fg - fiberglass	pa - palygorskite (clay)
gypsum - gypsum	qu - quartz	mw - mineral wool	
bi - binder		wo - wollastinite	
or - organic		ta - talc	
ma - matrix		sy - synthetic	
mi - mica		ce - cellulose	
ve - vermiculite		br - brucite	
ot - other		ka - kaolin (clay)	

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Polarized Light Asbestiform Materials Characterization

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Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project: Holloman Elementary School
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Turnaround Time: 3 day

Date: 6/30/2021
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Date Of Sampling: 6/23/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M-1A1-1		1-1	Brown Mastic	Y	None Detected	2% wo	98% qu, bi
HESE-M-1A2-2		2-1	Brown Mastic	Y	None Detected	2% wo	98% qu, bi
HESE-M-1A3-3		3-1	Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M-1B1-4		4-1	Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M-1B2-5		5-1	Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M-1B3-6		6-1	Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M-1C1-7		7-1	Gray Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Sidney Pinkerton
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

Chris Williams
Laboratory Director
Chris Williams

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze

6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

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		7-2	Brown Mastic	Y	None Detected		100% qu, bi
HESE-M- 1C2-8		8-1	Gray Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma
		8-2	Brown Mastic	Y	None Detected		100% qu, bi
HESE-M- 1C3-9		9-1	Gray Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma
		9-2	Brown Mastic	Y	None Detected		100% qu, bi
HESE-M- 2A1-10		10-1	Green Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		10-2	Black Mastic	Y	None Detected		100% qu, bi

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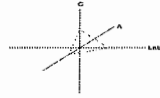
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HESE-M- 2A2-11		11-1	Green Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		7	11-2 Black Mastic	Y	3% Chrysotile		97% qu, ma, bi
HESE-M- 2B1-12		12-1	Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		12-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-M- 2B2-13		13-1	Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca
		13-2	Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-M- 2B3-14		14-1	Tan Floor Tile	Y	6% Chrysotile		94% qu, ma, ca

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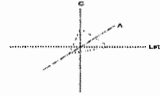
Chris Williams
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		14-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-M- 2C1-15		15-1		White Floor Tile	Y	None Detected		100% qu, ca
		15-2		Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M- 2C2-16		16-1		White Floor Tile	Y	None Detected		100% qu, ca
		16-2		Yellow Mastic	Y	None Detected		100% qu, bi
HESE-M- 2C3-17		17-1		White Floor Tile	Y	None Detected		100% qu, ca
		17-2		Tan Mastic	Y	None Detected		100% qu, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton
Sidney Pinkerton
Analyst

Chris Williams
Senior Analyst
Alicia Stretz

Chris Williams
Laboratory Director
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9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
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CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(East Wing)

CA Labs Project #:
CBR21063720

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/30/2021
Samples Received: 6/28/2021
Date Of Sampling: 6/23/2021

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M- 2D1-18		18-1		Tan Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		18-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-M- 2D2-19		19-1		Tan Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		19-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-M- 2D3-20		20-1		Tan Floor Tile	Y	3% Chrysotile		97% qu, ma, ca
		20-2		Black Mastic	Y	5% Chrysotile		95% qu, bi
HESE-T- 3A1-21		21-1		White Sealant on Mesh	N	None Detected	10% ce	90% qu, ma, ca

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Purchase Order #:

Phone # 505-232-9533
Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homogeneous us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		21-2		Tan Insulation	Y	None Detected	20% fg	80% qu, ma, ca
HESE-T-3A2-22		22-1		White Sealant on Mesh	N	None Detected	10% ce	90% qu, ma, ca
		22-2		Tan Insulation	Y	None Detected	20% fg	80% qu, ma, ca
HESE-T-3A3-23		23-1		White Sealant on Mesh	N	None Detected	10% ce	90% qu, ma, ca
		23-2		Tan Insulation	Y	None Detected	20% fg	80% qu, ma, ca
HESE-S-4A1-24		24-1		White Surfacing	Y	None Detected		100% qu, bi
		24-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

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Sidney Pinkerton
Analyst

Alicia Streiz
Senior Analyst
Alicia Streiz

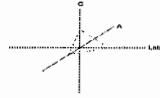
Chris Williams
Laboratory Director
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Fax # 505-256-8237

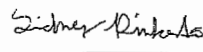
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S- 4A2-25		25-1	White Surfacing	Y	None Detected		100% qu, bi
		25-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4A3-26		26-1	White Surfacing	Y	None Detected		100% qu, bi
		26-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-M- 4B1-27		27-1	White Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
HESE-M- 4B2-28		28-1	White Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca
HESE-M- 4B3-29		29-1	White Surfaced White Compound	N	None Detected		100% qu, mi, pe, bi, ca

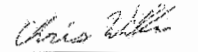
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Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S- 4C1-30		30-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		30-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4C2-31		31-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		31-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4C3-32		32-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		32-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-M- 4D1-33		33-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca

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Purchase Order #:

Phone # 505-232-9533
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Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M- 4D2-34		34-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESE-M- 4D3-35		35-1	Tan Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
HESE-S- 4E1-36		36-1	White Surfaced White Compound	N	None Detected		100% qu, mi, ma, bi, ca
		36-2	Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
		36-3	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4E2-37		37-1	White Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
		37-2	White Drywall with Paper	N	None Detected	10% ce	90% qu, gy

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-S- 4E3-38		38-1		Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
		38-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4E4-39		39-1		Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
		39-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4E5-40		40-1		Tan Surfaced Tan Plaster	N	None Detected		100% qu, ma, bi, ca
		40-2		White Drywall with Paper	N	None Detected	10% ce	90% qu, gy
HESE-S- 4G1-41		41-1		White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca

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HESE-S-4G2-42		42-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S-4G3-43		43-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S-4G4-44		44-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S-4G5-45		45-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S-4G6-46		46-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S-4G7-47		47-1	White Surfaced Gray Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-M-5A1-48		48-1	White Surfacing	Y	None Detected	2% wo	98% qu, bi, ca

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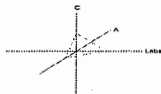
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		48-2		White Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma
HESE-M- 5A2-49		49-1		White Surfacing	Y	None Detected	2% wo	98% qu, bi, ca
		49-2		White Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma
HESE-M- 5A3-50		50-1		White Surfacing	Y	None Detected	2% wo	98% qu, bi, ca
		50-2		White Ceiling Tile	Y	None Detected	55% fg	45% qu, pe, ma
HESE-M- 5B1-51		51-1		White Surfacing	Y	None Detected		100% qu, bi, ca
		51-2		Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma

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9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to
Quality

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634



NVLAP #200772-0
TDSHS #300370
CDPHE #AL-18111
LELAP #03069

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
Albuquerque, NM 87176

Customer Project:
Holloman Elementary School
(East Wing)

CA Labs Project #:
CBR21063720

Phone # 505-232-9533
Fax # 505-256-8237

Turnaround Time: 3 day

Date: 6/30/2021
Samples Received: 6/28/2021
Date Of Sampling: 6/23/2021
Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M-5B2-52		52-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		52-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESE-M-5B3-53		53-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		53-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESE-M-5C1-54		54-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		54-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESE-M-5C2-55		55-1	White Surfacing	Y	None Detected		100% qu, bi, ca

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot - other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Sidney Pinkerton

Sidney Pinkerton
Analyst

Chris Williams

Senior Analyst
Alicia Stretz

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Sample #	Com ment	Layer #	Analysts Physical Subsample	Homog- eneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		55-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESE-M- 5C3-56		56-1	White Surfacing	Y	None Detected		100% qu, bi, ca
		56-2	Tan Ceiling Tile	Y	None Detected	15% fg 40% ce	45% qu, pe, ma
HESE-M- 9A1-57		57-1	Various Black Tar and Felt Layers	N	None Detected	30% fg	70% qu, bi
		57-2	Brown Fibrous Insulation	Y	None Detected	50% ce	50% qu, pe, ma
HESE-M- 9B2-58		58-1	Various Black Tar and Felt Layers	N	None Detected	30% fg	70% qu, bi
		58-2	Brown Fibrous Insulation	Y	None Detected	50% ce	50% qu, pe, ma

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Alicia Stretz
Senior Analyst
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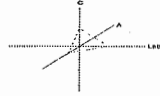
Chris Williams
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Turnaround Time: 3 day

Samples Received: 6/28/2021

Phone # 505-232-9533

Date Of Sampling: 6/23/2021

Fax # 505-256-8237

Purchase Order #:

Sample #	Com ment	Layer #	Analysts Physical Description of Subsample	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M-9C1-59		59-1	Black Shingle with Gray Gravel	Y	None Detected	20% ce	80% qu, bi
HESE-M-9C2-60		60-1	Black Shingle with Gray Gravel	Y	None Detected	20% ce	80% qu, bi
HESE-M-9C3-61		61-1	Black Felt	Y	None Detected	40% ce	60% qu, bi
HESE-M-9D1-62		62-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESE-M-9D2-63		63-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESE-M-9D3-64		64-1	Gray Sealant	Y	None Detected		100% qu, ma, ca
HESE-M-10A1-65		65-1	Black Sealant	Y	None Detected		100% qu, ma, bi

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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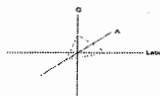
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Purchase Order #:

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HESE-M-10A2-66		66-1	Black Sealant	Y	None Detected		100% qu, ma, bi
HESE-M-10A3-67		67-1	Black Sealant	Y	None Detected		100% qu, ma, bi
HESE-M-10B1-68		68-1	White Surfaced Gray CMU	N	None Detected		100% qu, pe, bi, ca, ot
HESE-M-10B2-69		69-1	White Surfaced Gray CMU	N	None Detected		100% qu, pe, bi, ca, ot
HESE-M-10B3-70		70-1	White Surfaced Gray CMU	N	None Detected		100% qu, pe, bi, ca, ot
HESE-M-10C1-71		71-1	Tan Surfaced White CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M-10C2-72		72-1	Tan Surfaced White CMU	N	None Detected		100% qu, ma, bi, ca, ot

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
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Sidney Pinkerton
Analyst

Alicia Stretz
Senior Analyst
Alicia Stretz

Chris Williams
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Customer Info: Attn: Cissy Puma
Havona Environmental
P.O.Box 35848
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Customer Project:
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(East Wing)

CA Labs Project #:
CBR21063720

Turnaround Time: 3 day

Date: 6/30/2021
Samples Received: 6/28/2021
Date Of Sampling: 6/23/2021
Purchase Order #:

Phone # 505-232-9533
Fax # 505-256-8237

Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M-10C3-73		73-1		Tan Surfaced White CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M-10D1-74		74-1		Tan Sealant	Y	3% Chrysotile		97% qu, ma, ca
HESE-M-10D2-75		75-1		Tan Sealant	Y	3% Chrysotile		97% qu, ma, ca
HESE-M-10D3-76		76-1		Tan Sealant	Y	3% Chrysotile		97% qu, ma, ca
HESE-M-10E1-77		77-1		Tan Surfaced White Sealant	N	None Detected		100% qu, ma, bi, ca
HESE-M-10E2-78		78-1		Tan Surfaced White Sealant	N	None Detected		100% qu, ma, bi, ca
HESE-M-10E3-79		79-1		Tan Surfaced White Sealant	N	None Detected		100% qu, ma, bi, ca

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Analyst

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Alicia Stretz

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Sample #	Com ment	Layer #	Analysts Subsample	Physical Description of	Homo- geneo us (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
HESE-M- 10F1-80		80-1		Tan Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
		80-2		White CMU	Y	None Detected		100% qu, ma, ca, ot
HESE-M- 10F2-81		81-1		Tan Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
		81-2		White CMU	Y	None Detected		100% qu, ma, ca, ot
HESE-M- 10F3-82		82-1		Tan Surfaced Tan Compound	N	2% Chrysotile		98% qu, mi, ma, bi, ca
		82-2		White CMU	Y	None Detected		100% qu, ma, ca, ot
HESE-S- 10G1-83		83-1		Tan Surfaced White Plaster	N	None Detected		100% qu, ma, bi, ca

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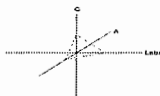
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HESE-S-10G2-84		84-1	Tan Surfaced White Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-S-10G3-85		85-1	Tan Surfaced White Plaster	N	None Detected		100% qu, ma, bi, ca
HESE-M-10H1-86		86-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M-10H2-87		87-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M-10H3-88		88-1	White Surfaced Gray CMU	N	None Detected		100% qu, ma, bi, ca, ot
HESE-M-10I1-89		89-1	Gray Sealant	Y	4% Chrysotile		96% qu, ma, ca
HESE-M-10I2-90		90-1	Gray Sealant	Y	4% Chrysotile		96% qu, ma, ca

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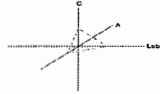
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HESE-M- 10J1-91		91-1	Gray Transite	Y	15% Chrysotile		85% qu, ma, ca

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PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:			
Holloman Elementary School (East Wing)				Alamogordo Public Schools			
Holloman Air Force Base				Havona Contact Information:			
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938	
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-23-21			Email: havonaenvironmental@yahoo.com	
Sampler's Signature: <i>Scott Puma</i>				Page: 1 of 7			
SAMPLE #	LOCATION	MATERIAL	COMMENT				
HESE - M - 1A1 - 1	East Wing	WALL					
1A2 - 2		↓					
1A3 - 3							
M - 1B1 - 4		FLOOR					
1B2 - 5		↓					
1B3 - 6							
M - 1C1 - 7		CEILING					
1C2 - 8		↓					
1C3 - 9							
M - 2A1 - 10		FLOOR					
2A2 - 11		↓					
M - 2B1 - 12							
2B2 - 13							
2B3 - 14							
Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day	
Relinquished By:	<i>Scott Puma</i>	Date/Time:	6-25-21	Received By:	<i>Cissy Puma</i>	Date/Time:	6-28-2021 8:00
Relinquished By:		Date/Time:		Received By:		Date/Time:	

CBR21063720

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environmental consulting and testing

Havona Environmental, Inc. Phone 505-232-9533
P.O. Box 35848 Fax 505-212-0069
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:				
Holloman Elementary School (East Wing)				Alamogordo Public Schools				
Holloman Air Force Base				Havona Contact Information:				
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938		
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-23-21	Email: havonaenvironmental@yahoo.com				
Sampler's Signature: <i>Scott Puma</i>				Page: 2		of 7		
SAMPLE #	LOCATION	MATERIAL	COMMENT					
HESE - M - 201 - 15	East Wing	FLOOR						
202 - 16								
203 - 17								
M - 201 - 18								
202 - 19								
203 - 20								
T - 3A1 - 21			PIPE					
3A2 - 22								
3A3 - 23								
S - 4A1 - 24			WALL					
4A2 - 25								
4A3 - 26								
M - 4B1 - 27								
4B2 - 28								
Turn Around Time	2-4 Hour	Same Day	24 Hour	2 Day	<u>3 Day</u>	5-10 Day		
Relinquished By:	<i>Scott Puma</i>	Date/Time:	6-25-21	Received By:	<i>Cissy Puma</i>	Date/Time:	6-28-2021 8:00	
Relinquished By:		Date/Time:		Received By:		Date/Time:		

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Havona Environmental, Inc. Phone 505-232-9533
P.O. Box 35848 Fax 505-212-0069
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:									
Holloman Elementary School (East Wing)				Alamogordo Public Schools									
Holloman Air Force Base				Havona Contact Information:									
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938							
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-23-21			Email: havonaenvironmental@yahoo.com							
Sampler's Signature: <i>Scott Puma</i>				Page: 3		of 7							
SAMPLE #	LOCATION	MATERIAL	COMMENT										
HESE - M-4B3 - 29	East Wing	WALL											
S-4C1 - 30													
4C2 - 31													
4C3 - 32													
M-4D1 - 33													
4D2 - 34													
4D3 - 35													
S-4E1 - 36													
4E2 - 37													
4E3 - 38													
4E4 - 39													
4E5 - 40													
S-4G1 - 41													
4G2 - 42													
Turn Around Time		2-4 Hour		Same Day		24 Hour		2 Day		<u>3 Day</u>		5-10 Day	
Relinquished By: <i>Scott Puma</i>				Date/Time: 6-25-21		Received By: <i>Cissy Puma</i>				Date/Time: 6-28-2021 8:00			
Relinquished By:				Date/Time:		Received By:				Date/Time:			

CBR21063120

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environmental consulting and testing

Havona Environmental, Inc. Phone 505-232-9533
P.O. Box 35848 Fax 505-212-0069
Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location: Holloman Elementary School (East Wing) Holloman Air Force Base Alamogordo, NM		Havona Client: Alamogordo Public Schools	
Sampled By: Scott Puma and Junior Fresquez		Havona Contact Information:	
Date Sampled: 6-23-21		Name: Cissy Puma	Phone: 505-977-4938
Sampler's Signature: <i>Scott Puma</i>		Email: havonaenvironmental@yahoo.com	
		Page: 4	of 7

SAMPLE #	LOCATION	MATERIAL	COMMENT
HESE - S-463 - 43	East Wing	WALL	
464 - 44			
465 - 45			
466 - 46			
467 - 47			
M-5A1 - 48			CEILING
5A2 - 49			
5A3 - 50			
M-5B1 - 51			
5B2 - 52			
5B3 - 53			
M-5C1 - 54			
5C2 - 55			
5C3 - 56			

Turn Around Time:	2-4 Hour	Same Day	24 Hour	2 Day	<u>5 Day</u>	5-10 Day
Relinquished By: <i>Scott Puma</i>	Date/Time: 6-25-21	Received By: <i>[Signature]</i>	Date/Time: 6-28-2021 8:00			
Relinquished By:	Date/Time:	Received By:	Date/Time:			

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:			Havona Client:				
Holloman Elementary School (East Wing)			Alamogordo Public Schools				
Holloman Air Force Base			Havona Contact Information:				
Alamogordo, NM			Name: Cissy Puma		Phone: 505-977-4938		
Sampled By: Scott Puma and Junior Fresquez		Date Sampled: 6-23-21	Email: havonaenvironmental@yahoo.com				
Sampler's Signature: <i>Scott Puma</i>			Page: 5	of 7			
SAMPLE #	LOCATION	MATERIAL	COMMENT				
HESE-M-9A1-57	East Wing ↓	ROOF					
M-9B1-58							
M-9C1-59							
9C2-60							
9C3-61							
M-9D1-62							
9D2-63							
9D3-64							
M-10A1-65			SINK				
10A2-66			↓				
10A3-67							
M-10B1-68		WALL					
10B2-69		↓					
10B3-70							
Turn Around Time		2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day
Relinquished By:		Date/Time:		Received By:		Date/Time:	
<i>Scott Puma</i>		6-25-21		<i>Cissy Puma</i>		6-28-2021 8:00	
Relinquished By:		Date/Time:		Received By:		Date/Time:	

CBR21063720

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 Environmental Monitoring and Testing

Havona Environmental, Inc. Phone 505-232-9533
 P.O. Box 35848 Fax 505-212-0069
 Albuquerque, NM 87176

PLM BULK SAMPLE CHAIN OF CUSTODY

Havona Project Name and Location:				Havona Client:				
Holloman Elementary School (East Wing)				Alamogordo Public Schools				
Holloman Air Force Base				Havona Contact Information:				
Alamogordo, NM				Name: Cissy Puma		Phone: 505-977-4938		
Sampled By: Scott Puma and Junior Fresquez			Date Sampled: 6-23-21	Email: havonaenvironmental@yahoo.com				
Sampler's Signature: <i>Scott Puma</i>				Page: 6		of 7		
SAMPLE #	LOCATION	MATERIAL	COMMENT					
	East Wing							
HESE - M-10C1 - 71	↓	WALL						
10C2 - 72		↓						
10C3 - 73								
M-10D1 - 74			WINDOW/DOOR					
10D2 - 75			↓					
10D3 - 76								
M-10E1 - 77			WINDOW					
10E2 - 78			↓					
10E3 - 79								
M-10F1 - 80			WALL					
10F2 - 81			↓					
10F3 - 82								
S-10G1 - 83			SOFFIT					
10G2 - 84			↓					
Turn Around Time		2-4 Hour	Same Day	24 Hour	2 Day	3 Day	5-10 Day	
Relinquished By:		<i>Scott Puma</i>		Date/Time:	6-25-21		Received By:	<i>[Signature]</i>
Relinquished By:			Date/Time:			Received By:	<i>[Signature]</i>	
			Date/Time:			Date/Time:	6-28-2021 8:00	

APPENDIX D

CERTIFICATE OF ATTENDANCE AND SUCCESSFUL COMPLETION

EPA/AHERA ASBESTOS BUILDING INSPECTOR REFRESHER

CERTIFICATE NUMBER: ABIR-N2021-1057
Enviro-Con
Scott Puma Integrated Solutions, Ltd.

THIS COURSE HAS BEEN APPROVED BY THE DEPARTMENT OF INDUSTRIAL RELATIONS, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE STATE OF NEVADA
THIS COURSE SATISFIES THE ACCREDITATION REQUIREMENTS UNDER SECTION 206 OF THE TOXIC SUBSTANCES CONTROL ACT (TSCA).

Nelson Quezada, CE, CAC, CEM
PRINCIPAL INSTRUCTOR



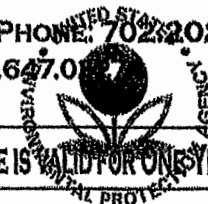
Robert J. ...
TRAINING DIRECTOR

ENVIRO-CON INTEGRATED SOLUTIONS, LTD.

3575 W CHEYENNE AVE. SUITE 101, NORTH LAS VEGAS NV 89032 • PHONE: 702.202.6200
5115 LINCOLN AVENUE, CYPRESS CA 90630 • PHONE: 800.647.0111

COURSE DATE: January 4, 2021

THIS CERTIFICATE IS VALID FOR ONE YEAR FROM COURSE DATE



CERTIFICATE OF ATTENDANCE AND SUCCESSFUL COMPLETION

EPA/AHERA ASBESTOS BUILDING INSPECTOR REFRESHER

CERTIFICATE NUMBER: ABIR-N2021-1068

ENVIRO-CON

Integrated Solutions, Ltd.
junior fresquez

THIS COURSE HAS BEEN APPROVED BY THE DEPARTMENT OF INDUSTRIAL RELATIONS, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE STATE OF NEVADA
THIS COURSE SATISFIES THE ACCREDITATION REQUIREMENTS UNDER SECTION 206 OF THE TOXIC SUBSTANCES CONTROL ACT (TSCA).

Nelson Quezada, CE, CAC, CEM

PRINCIPAL INSTRUCTOR



A handwritten signature in black ink, appearing to read "Nelson Quezada", written over a horizontal line.

TRAINING DIRECTOR

ENVIRO-CON INTEGRATED SOLUTIONS, LTD.

3575 W CHEYENNE AVE. SUITE 101, NORTH LAS VEGAS NV 89032 • PHONE: 702.202.6200

511 LINCOLN AVENUE, CYPRESS CA 90630 • PHONE: 800.647.0707

COURSE DATE: May

5, 2021



THIS CERTIFICATE IS VALID FOR ONE YEAR FROM COURSE DATE

