



5 September 2013

Ms. Brenda Press  
Permitting Technician II  
Lake County DPW, Road Ops Division  
437 Ardice Avenue  
Eustis, Florida 32726

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**Subject: Report of Pre-Demolition NESHAP Asbestos Survey  
14102 Jim Hunt Road (Single Family Home)  
Clermont, Florida 34715  
Alternate Key # 2514825  
Parcel ID # 09-22-26-040002400001  
Purchase Order No. 20131212  
AMEC Project 6380-12-0955.24**

Dear Ms. Press:

AMEC Environment & Infrastructure, Inc. (AMEC) has completed the Pre-Demolition NESHAP Asbestos Survey within the above referenced facility. The field survey was performed by Mr. Carver Gittens, an AHERA Accredited Inspector from AMEC, on 3 July 2013, in accordance with our Proposal 13PROP0010.6380.0240, dated 17 May 2013.

The attached report gives a brief background of the project, the procedures used in the field and in laboratory analysis. A summary of the laboratory analyses is included as an attachment.

AMEC appreciates the opportunity to have been of assistance to you on this project and is looking forward to working with you as your consultant in the future. If you have any questions concerning this report or if we can be of further service, please contact us.

Respectfully,

**AMEC Environment & Infrastructure, Inc.**  
Asbestos Business License No. ZA-0000449

Ronald C. Trapane  
Senior Project Scientist

Russell E. Stauffer, P.E.  
FL Asbestos Consultant  
License No. EA0000016

Dennis Kenney, P.G., C.P.G.  
Orlando Office Manager

Attachments: Laboratory Reports

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**Correspondence:**

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## 1.0 PROJECT INFORMATION

Information concerning this project was obtained in an email (15 May 2013) from Ms. Brenda Press with Lake County Department of Public Works, Road Ops Division. Additional information was obtained from the Lake County Property Appraiser's (LCPA's) website.

According to information provided by Ms. Press, there are plans to demolish the subject building in the near future. According to LCPA information, there is a single family home wood and concrete block, constructed in 1935, located at the subject address. The vacant single family home contains a total of 1,960 square feet (s.f.) of finished living area consisting of four bedrooms, two bathrooms, and two fireplaces. A carport (441 s.f.), two porches (338 s.f.), and utility storage (105 s.f.) were also indicated in LCPA records. The asbestos survey included bulk sampling of suspect interior and exterior building materials, including roofing products and concrete slabs. The structure is scheduled for demolition. The objective of AMEC's survey was to identify accessible asbestos-containing materials which may be impacted by the planned demolition of the structure.

## 2.0 SURVEY PROCEDURES

### 2.1 General

The survey was performed by observing accessible exposed building materials and included bulk sampling of suspect interior and exterior building materials, prior to the planned demolition of the structure. We must emphasize that it is not possible to look within every location of a building. The visual survey documents only general locations of suspect materials but does not determine exact boundaries.

No attempt was made to disassemble equipment or demolish structural elements and finishes as this is beyond the scope of our authorized services. Visual observations were made at convenient locations (for example) for the presence of resilient floor coverings below existing floor finishes, etc. Due to these limitations, wall voids, building cavities and mechanical equipment, and other areas may contain unreported asbestos-containing materials.

## 2.2 Bulk Sampling

The bulk sampling procedures utilized for the collection of suspect materials first required the establishment of a homogeneous sampling area. A homogeneous sampling area is defined as an area of the same type and applied during the same general time period. The individual sampling areas were then examined and representative samples of the suspect materials were obtained. Bulk samples collected during the survey were delivered to EMSL Analytical, Inc., of Orlando, Florida, an NVLAP accredited laboratory (No. 10115-0). The bulk samples were analyzed by Polarized Light microscopy (PLM) coupled with dispersion staining in accordance with EPA Method 600/R-93/116.

Polarized Light Microscopy (PLM) is an analytical method for asbestos identification which depends on the unique optical properties of mineral forms in the samples, and specifically identifies the various asbestos types. This is the referenced method of analysis by EPA for asbestos identification in bulk samples. Materials found to contain greater than one percent asbestos by PLM are Asbestos-Containing Materials (ACM) as defined by EPA, OSHA and the State of Florida.

The EPA National Standard for Hazardous Air Pollutants (NESHAP) Final Rule (40 CFR 61, Subpart M) for asbestos includes an option for verification of friable materials, by point counting, if it is initially determined by PLM analysis that asbestos is present in amounts less than 10 percent. Point Counting was not conducted as part of this survey.

The following suspect materials (thought to possibly contain asbestos) were sampled during the survey. Materials containing asbestos are indicated in bold:

1. Compressed cellulose siding (exterior – front half of house)
2. Ceramic tile/grout/thin set (pool)
3. **Black mastic undercoat** (Kitchen sink)
4. Brick pavers and grout (landing & walkway from Master Bedroom to front and tie-in to pool deck & covered patio)
5. C.M.U block and mortar (exterior walls – second half of the house)
6. Stone & grout/ (fireplace)

7. 4"x4" blue plastic tile with brown adhesive (under wall panels in second bathroom)
8. Concrete and texture (pool deck)
9. **Beige and gray "Stone Pattern" vinyl floor tile (VFT)** with brown mastic (under wood flooring in front room)
10. **Gray 9"x9" VFT** with mastic (Bedrooms 1 and 2)
11. Concrete slabs (shed and driveway)
12. **Beige and brown "Paver Pattern" sheet vinyl flooring (SVF)** & mastic (top layer), **gray 9"x9" VFT** & mastic, green VFT & mastic, and felt & wood (bottom layers) (second bathroom)
13. 2'x4' white short directional ceiling tile (office, front entry, Bedrooms 1 & 2, 2<sup>nd</sup> bathroom & hallway)
14. Brick (interior wall – fireplace)
15. **SVF** (top layer) and VFT & mastic (bottom layer) (floors in kitchen, dining room and second section of hall)
16. Beige SVF (floor in utility room)
17. Wallpaper and adhesive (kitchen)
18. 12"x12" white ceramic floor tile/thin set/grout (master bathroom)
19. Plaster (base & skim coats) (interior walls and ceilings in the first section of the house)
20. Plaster (base & skim coats) over drywall (interior walls & ceilings in the second section of the house)
21. Two sets of roof shingles (house)
22. Roof felt (under roof shingles)
23. Rolled roof (carport)
24. Roof felt (under rolled roof)

### 3.0 BULK SAMPLE RESULTS

Based upon our visual observations, bulk sampling of 24 suspect materials (52 samples, 109 layers) and subsequent PLM microscopic analysis, the following materials were determined to contain asbestos:

Sample No.	Material Sampled	Sample Location	Percent/ Type Asbestos	Condition	Estimated Quantity
B-3A	Black Mastic	Kitchen sink undercoat	<b>8% Chrysotile</b>	Fair	6 S.F.
B-9A & B-9B	Beige/Gray "Stone Pattern" VFT & Mastic	Under wood floor in Front Room	<b>5% Chrysotile (VFT)</b> None Detected (ND) (mastic)	Fair	120 S.F.
B-10A & B-10B	Gray 9" x 9" VFT	Bedrooms 1 & 2	<b>3% &amp; 8% Chrysotile (VFT)</b> ND (mastic)	Fair	300 S.F.
B-12A & B-12B	Beige/Brown "Paver Pattern" SVF (two layers of VFT/mastic & one layer of felt underneath)	Second bathroom	<b>20% &amp; 25% Chrysotile (SVF)</b> ND (mastic) <b>5% Chrysotile (Gray VFT)</b> ND (mastic) ND (Green VFT) ND (mastic) ND (felt)	Fair	60 S.F. (per layer)
B-15A & B-15B	SVF (one layer of VFT/mastic underneath)	Floors in Kitchen, Dining Room & 2 <sup>nd</sup> section of hallway	<b>20% Chrysotile (SVF)</b> ND (VFT) ND (mastic)	Fair	300 S.F. (per layer)

Prepared By:      RCT      Checked By:     

#### 4.0 ASBESTOS CONCLUSIONS

The following materials were found to contain asbestos:

##### 4.1 Black Mastic Sink Undercoat

Black mastic sink undercoat (Sample B-3A) was identified under the kitchen sink and was found to contain **8% Chrysotile asbestos**. Approximately six square feet of the black mastic kitchen sink undercoat was generally observed to be in fair condition with a moderate potential for damage.

##### 4.2 Beige/Gray "Stone Pattern" VFT & Mastic

Beige/gray "Stone Pattern" VFT (Samples B-9A and B-9B) was identified under the wood floor of the Front Room. This VFT was found to contain **5% Chrysotile asbestos**, by PLM analysis. The associated mastic was identified as None Detected for asbestos, according to PLM analysis.

Approximately 120 square feet of VFT was generally observed to be in fair condition with a moderate potential for damage.

#### **4.3 Gray 9" x 9" VFT & Mastic**

Gray 9" x 9" VFT (Samples B-10A and B-10B) was identified in Bedrooms 1 & 2. This VFT was found to contain **3% and 8% Chrysotile asbestos**, by PLM analysis. The associated mastic was identified as None Detected for asbestos, according to PLM analysis. Approximately 300 square feet of VFT was generally observed to be in fair condition with a moderate potential for damage.

#### **4.4 Beige/Brown "Paver Pattern" SVF (Top Layer) & Other VFTs & Felt (Bottom Layers)**

Beige/Brown "Paver Pattern" SVF (Samples B-12A and B-12B) was identified as the top layer of flooring material in the second bathroom. This SVF was found to contain **20% and 25% Chrysotile asbestos**, by PLM analysis. Since the vinyl and backing layers of the SVF could not be separated, the laboratory results were reported as a composite sample. The associated mastic was identified as None Detected for asbestos, according to PLM analysis.

Numerous flooring materials were identified below the ACM beige/brown "Paver Pattern" SVF in the second bathroom. This included a gray VFT which was identified as asbestos-containing, **(5% Chrysotile)** according to PLM analysis. A green layer of VFT, the associated mastic layers for both the gray and green VFTs, and a layer of felt were identified as None Detected for asbestos, according to PLM analysis.

Although these materials were not identified as ACM, since they are located below the layer of ACM SVF noted above, they should be considered asbestos-contaminated.

Each layer of ACM and non-ACM bathroom flooring materials noted above, consists of approximately 60 feet and was generally observed to be in fair condition with a moderate potential for damage.

#### 4.5 Sheet Vinyl Flooring (SVF) and Mastic

Sheet vinyl flooring (Samples B-15A and B-15B) was identified as the top layer of flooring in the Kitchen, Dining Room, and second section of the hallway. This SVF was found to contain **20% Chrysotile asbestos**, by PLM analysis. Since the vinyl and backing layers of the SVF could not be separated, the laboratory results were reported as a composite sample. The associated mastic was identified as None Detected for asbestos, according to PLM analysis.

A layer of VFT and associated mastic was identified under the ACM SVF layer and were identified as None Detected for asbestos, according to PLM analysis. Although the VFT/mastic materials were not identified as ACM, since they are located below the layer of ACM SVF noted above, they should be considered asbestos-contaminated.

Each layer of ACM and non-ACM flooring materials noted above, consists of approximately 300 feet and were generally observed to be in fair condition with a moderate potential for damage.

### 5.0 ASBESTOS RECOMMENDATIONS

#### 5.1 General Recommendations

There are four recognized alternative courses of action to control asbestos-containing materials in buildings: (1) asbestos removal and disposal; (2) enclosure; (3) encapsulation; and, (4) special operations, maintenance and re-observation programs. The selection of a particular alternative should be based upon intended usage of the building, actual exposure rates and cost.

Regarding Item No. 1, the EPA has Federal regulations regarding asbestos. The National Emissions Standard for Hazardous Air Pollutants (NESHAP) Final Rule Revision (EPA 40 CFR Part 61) dated November 20, 1990 includes several requirements for building Owners and Contractors. The requirement that greatly affects abatement alternatives is the categorization of asbestos-containing materials (ACM).

These are categorized as follows:

- **Friable** means any material that can be reduced to powder by hand pressure when dry.

- **Category I Non-Friable ACM** means packing, gaskets, resilient floor coverings and roofing products that contain more than one- percent asbestos.
- **Category II Non-Friable ACM** means any material, excluding Category I Non-Friable ACM that contains more than one- percent asbestos, and is not friable.
- **Regulated ACM (RACM)** includes all friable ACM; Category I Non-Friable ACM that will be or has been subject to sanding, grinding, cutting or abrading; Category I Non-Friable ACM that has become friable; and Category II Non-Friable ACM that has a high probability of becoming, or has become crumbled, pulverized, or reduced to a powder by forces expected to act on the material in the course of demolition or renovation operations.

## 5.2 Specific Asbestos Recommendations

### 5.2.1 Black Mastic Kitchen Sink Undercoat

The black mastic kitchen sink undercoat (Sample B-3A) in fair condition, was found to contain greater than one percent Chrysotile asbestos. The EPA NESHAP classifies this material as a Category I non-friable asbestos-containing material.

***Since the sink can be easily removed without causing a potential fiber release, we recommend that the kitchen sink be removed by a Florida Licensed Asbestos Contractor for proper disposal during the abatement of the SVF materials.***

### 5.2.2 Beige/Gray “Stone Pattern” VFTs & Gray 9” x 9” VFTs

Two types of ACM VFTS (beige/gray “Stone Pattern” VFTs [Samples B-9A & B-9B] and gray 9” x 9” VFTs [Samples B-10A & B-10B]) both in fair condition, were found to contain greater than one percent Chrysotile asbestos. Neither of the mastics associated with these two types of ACM VFTs were found to contain asbestos.

The OSHA Construction Standard (29 CFR 1926.1101) classifies disturbance, removal, or demolition of structures with **ACM vinyl floor tiles** as Class II asbestos work which requires specialized training, engineering controls, etc.

However, these Category I non-friable asbestos-containing floor tiles **need not be removed** prior to demolition if Lake County uses a demolition contractor that is also qualified as an

asbestos-abatement contractor; uses qualified asbestos workers; and does not cut, sand, grind or abrade the ACM vinyl floor tiles.

If these conditions are met, these Category I non-friable materials may be demolished in place, utilizing wet methods **provided they will not be exposed to cutting, sanding, grinding, abrading or otherwise rendered friable by the demolition activities.**

However, it should be noted, that if the ACM floor tiles are left in place, the concrete slab **cannot** be recycled.

### 5.2.3 Beige/Brown “Paver Pattern” SVF & Sheet Vinyl Flooring

The EPA NESHAP (40 CFR Part 61, Subpart M) classifies the beige/brown “Paver Pattern” SVF (B-12A and B-12B) and sheet vinyl flooring (B-15A and B-15B) materials as Category I, non-friable ACM. However, the backing layer of the SVFs has a high probability of becoming friable during demolition activities and is therefore considered a Regulated ACM (RACM). Removal is required by NESHAP prior to any activities that have a high probability of rendering ACM friable during demolition activities. The underlying layers of asbestos-contaminated VFT, mastics, and felt should also be removed prior to demolition activities.

The OSHA Construction Standard (29 CFR 1926.1101) classifies disturbance, removal, or demolition of structures with this material as Class II asbestos work, which requires specialized training, engineering controls, etc.

***We recommend that the approximate 240 square feet (60 square feet x 4 layers) of ACM (or ACM-contaminated) flooring materials in the second bathroom and the approximate 600 square feet (300 square feet x 2 layers) of ACM (or ACM-contaminated) flooring materials in the Kitchen, Dining Room, and second section of the hallway, be removed by a Florida Licensed Asbestos Contractor for proper disposal.***

### **5.3 State Of Florida Asbestos Regulations**

Chapter 469 of the Florida Statutes generally requires that a state licensed asbestos abatement contractor perform the removal, repair, or encapsulation of the types of ACM and materials identified as containing asbestos in this report.

Since the structure will be demolished, ten working day written notification is required prior to the start of demolition activities under the EPA NESHAP regulation (40 CFR 61, Subpart M) and Florida Department of Environmental Protection (FDEP) rules.

Since the project is located in **Lake County**, the notification, using FDEP form 62-257.900(1), must be made to FDEP's Central District Office at 3319 Maguire Boulevard, Suite 232, Orlando, FL 32803-3767 (telephone 407-894-7555, Fax 407-897-2966).

### **5.4 Interim Measures**

Regardless of the type of asbestos abatement action chosen, and the time frame involved, we strongly recommend that during the interim time period prior to abatement action, control measures be established for the employees and occupants working in the building to minimize their exposure to asbestos. This program should include, at a minimum, proper safety precautions and cleaning methods by personnel when work must be performed in and around asbestos-containing materials. Also, periodic reassessment of the condition of the asbestos-containing materials should be undertaken and precautions and procedures should be in writing and be thoroughly documented.

### **5.5 Legal and Medical Considerations**

Due to the health hazards and legal ramifications involved in asbestos exposure in public buildings, an interdisciplinary approach between the engineering, medical and legal communities should be involved when determining an asbestos control program. There is presently a tremendous amount of litigation in the courts concerning present and past asbestos exposure in public and private facilities, as well as in the workplace environment.

One basis for much of the litigation stems from the lack of adequate notification by the building owner to building occupants/employees following the identification of asbestos in buildings. As a

minimum, building owners should notify building employees, occupants, vendors, and others as required in the OSHA Asbestos Standards (29 CFR 1910.1001 and 29 CFR 1926.1101), and for public facilities, the EPA Worker Protection Rule (40CFR 763, Subpart G). We recommend that you involve appropriate legal counsel in your asbestos control program to address these very important issues.

## 6.0 LIMITATIONS

AMEC has performed its services in accordance with generally accepted practices at the time of the field work. This report has been prepared on behalf of and exclusively for the use by **Lake County DPW, Road Ops Division**. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party without AMEC's prior written consent.

The findings are relative to the date of our site visit and should not be relied upon for substantially later dates. All material quantities are estimated based on visual observation and should be relied on for contractor bidding or regulatory notification purposes.

Please note that these test results relate only to those homogeneous materials tested. If conditions, or materials, other than those addressed in this report are encountered during the planned maintenance, renovation, or demolition activities, AMEC should be contacted to assess the potential impact of these materials or conditions relative to the findings or recommendations included herein.

**APPENDIX A**  
**LABORATORY ANALYSIS**



# EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone/Fax: (407) 599-5887 / (407) 599-9063

<http://www.emsl.com>

[orlandolab@emsl.com](mailto:orlandolab@emsl.com)

EMSL Order:	341305576
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapane**  
**AMEC E&I, Inc.**  
**75 E. Amelia Street**  
**Suite 200**  
**Orlando, FL 32801**

Phone: (407) 522-7570  
 Fax:  
 Received: 07/24/13 8:35 AM  
 Analysis Date: 7/26/2013  
 Collected:

*7/29/13*  
*RCJ*

Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-1A-Siding 341305576-0001	East Wall - Compressed Cellulose Siding	Gray Fibrous Heterogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
B-1A-Paint 341305576-0001A	East Wall - Compressed Cellulose Siding	Peach Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-1B-Siding 341305576-0002	North Wall - Compressed Cellulose Siding	Gray Fibrous Heterogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
B-1B-Paint 341305576-0002A	North Wall - Compressed Cellulose Siding	Peach Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-1C 341305576-0003	West Wall - Compressed Cellulose Siding	Gray/Tan Fibrous Heterogeneous	35% Cellulose	10% Ca Carbonate 55% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-2A-Ceramic Tile 341305576-0004	Walls - Tile, Grout & Thinset	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-2A-Grout 341305576-0004A	Walls - Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		40% Quartz 15% Ca Carbonate 45% Non-fibrous (other)	None Detected
B-2A-Thinset 341305576-0004B	Walls - Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-2B-Ceramic Tile 341305576-0005	Walls - Tile, Grout & Thinset	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 07/29/2013 07:55:44

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804

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EMSL Order:	341305576
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapano**  
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**75 E. Amelia Street**  
**Suite 200**  
**Orlando, FL 32801**

Phone: (407) 522-7570  
 Fax:  
 Received: 07/24/13 8:35 AM  
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Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-2B-Grout 341305576-0005A	Walls - Tile, Grout & Thinset	White Non-Fibrous Homogeneous		60% Quartz 40% Non-fibrous (other)	None Detected
B-2B-Thinset 341305576-0005B	Walls - Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		40% Quartz 15% Ca Carbonate 45% Non-fibrous (other)	None Detected
B-3A 341305576-0006	Under Coat. - Black Mastic	Black Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
B-4A-Paver 341305576-0007	Covered Patio - Brick Paver & Grout	Gray Non-Fibrous Heterogeneous	3% Cellulose	60% Quartz 10% Ca Carbonate 27% Non-fibrous (other)	None Detected
B-4A-Grout 341305576-0007A	Covered Patio - Brick Paver & Grout	Brown Non-Fibrous Heterogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (other)	None Detected
B-4B-Paver 341305576-0008	Tie In To Pool Deck - Brick Paver & Grout	Brown Non-Fibrous Heterogeneous	2% Cellulose	50% Quartz 15% Ca Carbonate 33% Non-fibrous (other)	None Detected
B-4B-Grout 341305576-0008A	Tie In To Pool Deck - Brick Paver & Grout	Gray Non-Fibrous Heterogeneous		50% Quartz 10% Ca Carbonate 40% Non-fibrous (other)	None Detected
B-5A-Block 341305576-0009	Exterior Walls - C.M.U. Block Wall & Mortar	Gray/White Non-Fibrous Heterogeneous		50% Quartz 25% Ca Carbonate 25% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 07/29/2013 07:55:44



# EMSL Analytical, Inc.

5125 Adanson Street, Suite 900, Orlando, FL 32804

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EMSL Order:	341305576
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapane**  
**AMEC E&I, Inc.**  
**75 E. Amelia Street**  
**Suite 200**  
**Orlando, FL 32801**

Phone: (407) 522-7570  
 Fax:  
 Received: 07/24/13 8:35 AM  
 Analysis Date: 7/26/2013  
 Collected:

Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-5A-Mortar 341305576-0009A	Exterior Walls - C.M.U. Block Wall & Mortar	Gray Non-Fibrous Heterogeneous		60% Quartz 20% Ca Carbonate 20% Non-fibrous (other)	None Detected
B-5A-Paint 341305576-0009B	Exterior Walls - C.M.U. Block Wall & Mortar	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-5B-Block 341305576-0010	Exterior Walls - C.M.U. Block Wall & Mortar	Gray/Tan Non-Fibrous Heterogeneous		40% Quartz 20% Ca Carbonate 40% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-5B-Mortar 341305576-0010A	Exterior Walls - C.M.U. Block Wall & Mortar	Gray/Tan Non-Fibrous Heterogeneous		50% Quartz 10% Ca Carbonate 40% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-6A-Stone 341305576-0011	Wall - Stone, Grout & Thinset	Rust Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
No thinset present in sample					
B-6A-Grout 341305576-0011A	Wall - Stone, Grout & Thinset	Gray Non-Fibrous Heterogeneous		50% Quartz 10% Ca Carbonate 40% Non-fibrous (other)	None Detected
B-6B-Tan Material 341305576-0012	Floor @ Fireplace - Stone, Grout & Thinset	Tan Non-Fibrous Heterogeneous		10% Quartz 90% Non-fibrous (other)	None Detected
Unable to identify layers.					

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 07/29/2013 07:55:44

**EMSL Analytical, Inc.**

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EMSL Order:	341305576
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapano**  
**AMEC E&I, Inc.**  
**75 E. Amelia Street**  
**Suite 200**  
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Phone: (407) 522-7570  
 Fax:  
 Received: 07/24/13 8:35 AM  
 Analysis Date: 7/26/2013  
 Collected:

Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-6B-Gray Material 341305576-0012A	Floor @ Fireplace - Stone, Grout & Thinset	Gray Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-7A-Floor Tile 341305576-0013	Walls-Under Wall Panels. - Blue 4"x4" Plastic Tile W/Brow Adhesive	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7A-Adhesive 341305576-0013A	Walls-Under Wall Panels. - Blue 4"x4" Plastic Tile W/Brow Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7B-Floor Tile 341305576-0014	Walls-Under Wall Panels. - Blue 4"x4" Plastic Tile W/Brow Adhesive	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7B-Adhesive 341305576-0014A	Walls-Under Wall Panels. - Blue 4"x4" Plastic Tile W/Brow Adhesive	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-8A 341305576-0015	Deck - Concrete & Texture	Gray/Tan Non-Fibrous Heterogeneous		60% Quartz 10% Ca Carbonate 30% Non-fibrous (other)	None Detected
No texture present in sample					
B-8B-Concrete 341305576-0016	Deck - Concrete & Texture	Tan Non-Fibrous Heterogeneous		40% Quartz 30% Ca Carbonate 30% Non-fibrous (other)	None Detected

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Initial report from 07/29/2013 07:55:44



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Attn: **Ron Trapano**  
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Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-8B-Texture 341305576-0016A	Deck - Concrete & Texture	Gray Non-Fibrous Heterogeneous		50% Quartz 10% Ca Carbonate 40% Non-fibrous (other)	None Detected
B-9A-Floor Tile 341305576-0017	Under Wood Flooring - Beige & Grey "Stone Pattern" Vinyl Composite Tile W/Brown Mastic	Gray/Beige Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
B-9A-Mastic 341305576-0017A	Under Wood Flooring - Beige & Grey "Stone Pattern" Vinyl Composite Tile W/Brown Mastic	Yellow Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
B-9B-Floor Tile 341305576-0018	Under Wood Flooring - Beige & Grey "Stone Pattern" Vinyl Composite Tile W/Brown Mastic	Beige Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
B-9B-Mastic 341305576-0018A	Under Wood Flooring - Beige & Grey "Stone Pattern" Vinyl Composite Tile W/Brown Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-10A-Floor Tile 341305576-0019	Floor - Gray 9"x9" V.C.T. W/	Gray Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
B-10A-Mastic 341305576-0019A	Floor - Gray 9"x9" V.C.T. W/	Black Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (other)	None Detected

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-10B-Floor Tile 341305576-0020	Floor - Gray 9"x9" V.C.T. W/	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
B-10B-Mastic 341305576-0020A	Floor - Gray 9"x9" V.C.T. W/	Brown/Black Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
B-11A 341305576-0021	Shed - Concrete	Gray Non-Fibrous Heterogeneous		50% Quartz 5% Ca Carbonate 45% Non-fibrous (other)	None Detected
B-11B 341305576-0022	Driveway - Concrete	Gray/Tan/White Non-Fibrous Heterogeneous		40% Quartz 20% Ca Carbonate 40% Non-fibrous (other)	None Detected
B-12A-Flooring 341305576-0023	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Beige Fibrous Heterogeneous		80% Non-fibrous (other)	20% Chrysotile
This is a composite result of both vinyl and backing layer					
B-12A-Mastic 341305576-0023A	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-12A-Gray Floor Tile 341305576-0023B	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
B-12A-Mastic 341305576-0023C	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-12A-Green Floor Tile 341305576-0023D	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Green Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-12A-Mastic 341305576-0023E	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-12A-Felt 341305576-0023F	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Black Fibrous Heterogeneous	45% Cellulose	55% Non-fibrous (other)	None Detected
B-12A-Wood Layer 341305576-0023G	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Brown Fibrous Homogeneous	100% Cellulose	0% Non-fibrous (other)	None Detected
B-12B-Flooring 341305576-0024	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Gray/Tan Fibrous Heterogeneous		75% Non-fibrous (other)	25% Chrysotile
This is a composite result of both vinyl and backing layer					
B-12B-Mastic 341305576-0024A	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-12B-Gray Floor Tile 341305576-0024B	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
B-12B-Mastic 341305576-0024C	Floor - Paver Pattern Beige & Brown S.V.F.- Composite	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: **6380-12-0955.24, 14102 Jim Hunt Rd.**

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-12B-Green Floor Tile 341305576-0024D	Floor - Paver Pattern Beige & Brown S.V.F.-Composite	Green Non-Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other) <b>None Detected</b>
B-12B-Mastic 341305576-0024E	Floor - Paver Pattern Beige & Brown S.V.F.-Composite	Black Non-Fibrous Heterogeneous	5%	Cellulose	95% Non-fibrous (other) <b>None Detected</b>
B-12B-Felt 341305576-0024F	Floor - Paver Pattern Beige & Brown S.V.F.-Composite	Black Fibrous Homogeneous	40% 5%	Cellulose Synthetic	55% Non-fibrous (other) <b>None Detected</b>
B-13A 341305576-0025	Front Entry - 2'x4' White Short Directional Ceiling Tile	White/Beige Fibrous Heterogeneous	60% 4%	Cellulose Glass	15% Perlite 21% Non-fibrous (other) <b>None Detected</b>
Inseparable paint / coating layer included in analysis					
B-13B 341305576-0026	Bed 2 - 2'x4' White Short Directional Ceiling Tile	Tan/White Fibrous Homogeneous	50% 10%	Cellulose Glass	20% Perlite 20% Non-fibrous (other) <b>None Detected</b>
Inseparable paint / coating layer included in analysis					
B-14A 341305576-0027	Interior Wall - Brick & Mortar	Tan Non-Fibrous Heterogeneous			100% Non-fibrous (other) <b>None Detected</b>
No mortar present in sample					
B-14B 341305576-0028	Interior Wall - Brick & Mortar	Tan Non-Fibrous Heterogeneous			20% Quartz 80% Non-fibrous (other) <b>None Detected</b>
No mortar present in sample					
B-15A-Flooring 341305576-0029	Kitchen - Sheet Vinyl Flooring (Composite)	Various Fibrous Heterogeneous			80% Non-fibrous (other) <b>20% Chrysotile</b>
This is a composite result of both vinyl and backing layer					

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## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-15A-Floor Tile 341305576-0029A	Kitchen - Sheet Vinyl Flooring (Composite)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-15A-Mastic 341305576-0029B	Kitchen - Sheet Vinyl Flooring (Composite)	Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-15B-Flooring 341305576-0030	Hall 2nd Sect - Sheet Vinyl Flooring (Composite)	Gray/Tan Fibrous Heterogeneous		80% Non-fibrous (other)	20% Chrysotile
This is a composite result of both vinyl and backing layer					
B-15B-Floor Tile 341305576-0030A	Hall 2nd Sect - Sheet Vinyl Flooring (Composite)	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-15B-Mastic 341305576-0030B	Hall 2nd Sect - Sheet Vinyl Flooring (Composite)	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-16A-Flooring 341305576-0031	Utility Rm - Beige S.V.F. W/Adhesive	White/Beige Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
This is a composite result of both vinyl and backing layer					
B-16A-Adhesive 341305576-0031A	Utility Rm - Beige S.V.F. W/Adhesive	Yellow Non-Fibrous Homogeneous	4% Cellulose	96% Non-fibrous (other)	None Detected
B-16B-Flooring 341305576-0032	Utility Rm - Beige S.V.F. W/Adhesive	Gray/White Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
This is a composite result of both vinyl and backing layer					

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-16B-Adhesive 341305576-0032A	Utility Rm - Beige S.V.F. W/Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-17A-Wallpaper 341305576-0033	Walls - Wallpaper & Adhesive	Various Fibrous Heterogeneous	50% Cellulose	50% Non-fibrous (other)	None Detected
B-17A-Adhesive 341305576-0033A	Walls - Wallpaper & Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-17B-Wallpaper 341305576-0034	Walls - Wallpaper & Adhesive	Various Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (other)	None Detected
B-17B-Adhesive 341305576-0034A	Walls - Wallpaper & Adhesive	Clear Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-18A-Ceramic Tile 341305576-0035	Master Bath - 12'x12' White Ceramic Floor Tile, Grout & Thinset	White/Red Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-18A-Grout 341305576-0035A	Master Bath - 12'x12' White Ceramic Floor Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		50% Quartz 20% Ca Carbonate 30% Non-fibrous (other)	None Detected
B-18A-Thinset 341305576-0035B	Master Bath - 12'x12' White Ceramic Floor Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-18B-Ceramic Tile 341305576-0036	Master Bath - 12'x12' White Ceramic Floor Tile, Grout & Thinset	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-18B-Grout 341305576-0036A	Master Bath - 12'x12' White Ceramic Floor Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		30% Quartz 15% Ca Carbonate 55% Non-fibrous (other)	None Detected
B-18B-Thinset 341305576-0036B	Master Bath - 12'x12' White Ceramic Floor Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-19A-Base Coat 341305576-0037	Bed 1-Wall - Plaster	Brown Non-Fibrous Heterogeneous	5% Hair	50% Quartz 5% Ca Carbonate 40% Non-fibrous (other)	None Detected
B-19A-Skim Coat 341305576-0037A	Bed 1-Wall - Plaster	White Non-Fibrous Heterogeneous		30% Quartz 20% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-19B-Base Coat 341305576-0038	Living Rm Wall - Plaster	Brown Non-Fibrous Heterogeneous	5% Hair	50% Quartz 5% Ca Carbonate 40% Non-fibrous (other)	None Detected
B-19B-Skim Coat 341305576-0038A	Living Rm Wall - Plaster	White Non-Fibrous Heterogeneous		30% Quartz 20% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-19B-Paint 341305576-0038B	Living Rm Wall - Plaster	White/Green Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-19C-Base Coat 341305576-0039	Bed 2 Wall - Plaster	Brown Non-Fibrous Heterogeneous	8% Hair	60% Quartz 5% Ca Carbonate 27% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

Initial report from 07/29/2013 07:55:44

**EMSL Analytical, Inc.**

5125 Adanson Street, Suite 900, Orlando, FL 32804

Phone/Fax: (407) 599-5887 / (407) 599-9063

<http://www.emsl.com>[orlandolab@emsl.com](mailto:orlandolab@emsl.com)

EMSL Order:	341305576
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapano**  
**AMEC E&I, Inc.**  
**75 E. Amelia Street**  
**Suite 200**  
**Orlando, FL 32801**

Phone: (407) 522-7570  
 Fax:  
 Received: 07/24/13 8:35 AM  
 Analysis Date: 7/26/2013  
 Collected:

Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-19C-Skim Coat 341305576-0039A	Bed 2 Wall - Plaster	White Non-Fibrous Heterogeneous		30% Quartz 15% Ca Carbonate 55% Non-fibrous (other)	None Detected
B-19C-Paint 341305576-0039B	Bed 2 Wall - Plaster	Various Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-19D-Base Coat 341305576-0040	Bath 2-Ceiling - Plaster	Brown Fibrous Heterogeneous	2% Hair	40% Quartz 5% Ca Carbonate 53% Non-fibrous (other)	None Detected
B-19D-Skim Coat 341305576-0040A	Bath 2-Ceiling - Plaster	White/Green Non-Fibrous Heterogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-19E-Base Coat 341305576-0041	Bed 2 Ceiling - Plaster	Brown Fibrous Heterogeneous	2% Hair	40% Quartz 5% Ca Carbonate 53% Non-fibrous (other)	None Detected
B-19E-Skim Coat 341305576-0041A	Bed 2 Ceiling - Plaster	White/Green Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-20A-Base Coat 341305576-0042	Ceiling - Plaster Over Drywall (Composite)	Gray Non-Fibrous Heterogeneous		10% Ca Carbonate 30% Perlite 60% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

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EMSL Order:	341305576
CustomerID:	LAWE52H
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ProjectID:	

Attn: **Ron Trapane**  
**AMEC E&I, Inc.**  
**75 E. Amelia Street**  
**Suite 200**  
**Orlando, FL 32801**

Phone: (407) 522-7570  
 Fax:  
 Received: 07/24/13 8:35 AM  
 Analysis Date: 7/26/2013  
 Collected:

Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-20A-Skim Coat 341305576-0042A	Ceiling - Plaster Over Drywall (Composite)	White Non-Fibrous Heterogeneous		20% Quartz 20% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-20A-Drywall 341305576-0042B	Ceiling - Plaster Over Drywall (Composite)	Brown/Gray Fibrous Heterogeneous	40% Cellulose	40% Gypsum 20% Non-fibrous (other)	None Detected
B-20B-Drywall 341305576-0043	Wall - Plaster Over Drywall (Composite)	Brown/Gray Fibrous Heterogeneous	30% Cellulose	50% Gypsum 20% Non-fibrous (other)	None Detected
No plaster present in sample					
B-20B-Paint 341305576-0043A	Wall - Plaster Over Drywall (Composite)	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-20C-Base Coat 341305576-0044	Wall - Plaster Over Drywall (Composite)	Brown/Gray Fibrous Heterogeneous	2% Cellulose	15% Perlite 83% Non-fibrous (other)	None Detected
No drywall present in sample					
B-20C-Skim Coat 341305576-0044A	Wall - Plaster Over Drywall (Composite)	Yellow/Green Non-Fibrous Heterogeneous		25% Quartz 10% Ca Carbonate 65% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-21A 341305576-0045	North Sect - Roof Shingle	Various Fibrous Heterogeneous	15% Glass	85% Non-fibrous (other)	None Detected
B-21B-Shingle 1 341305576-0046	South Sect - Roof Shingle	Red/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. Orlando, FL NVLAP Lab Code 101151-0

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EMSL Order:	341305576
CustomerID:	LAWE52H
CustomerPO:	C012301109
ProjectID:	

Attn: **Ron Trapane**  
**AMEC E&I, Inc.**  
**75 E. Amelia Street**  
**Suite 200**  
**Orlando, FL 32801**

Phone: (407) 522-7570  
 Fax:  
 Received: 07/24/13 8:35 AM  
 Analysis Date: 7/26/2013  
 Collected:

Project: 6380-12-0955.24, 14102 Jim Hunt Rd.

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-21B-Shingle 2 341305576-0046A	South Sect - Roof Shingle	Red/Black Fibrous Heterogeneous	10%	Glass	90% Non-fibrous (other) <b>None Detected</b>
B-22A 341305576-0047	North Sect - Roof Felt Under (Roof Shingle)	Black Fibrous Heterogeneous	50%	Cellulose	50% Non-fibrous (other) <b>None Detected</b>
B-22B 341305576-0048	South Sect - Roof Felt Under (Roof Shingle)	Black Fibrous Homogeneous	50%	Cellulose	50% Non-fibrous (other) <b>None Detected</b>
B-23A 341305576-0049	Car Port - Rolled Roof	Various Non-Fibrous Heterogeneous	12% 5%	Synthetic Glass	83% Non-fibrous (other) <b>None Detected</b>
B-23B 341305576-0050	Car Port - Rolled Roof	Gray/Black Non-Fibrous Homogeneous	<1% 15%	Glass Synthetic	85% Non-fibrous (other) <b>None Detected</b>
B-24A 341305576-0051	Car Port - Felt (Under Rolled Roof)	Black Fibrous Heterogeneous	50%	Glass	50% Non-fibrous (other) <b>None Detected</b>
B-24B 341305576-0052	Car Port - Felt (Under Rolled Roof)	Black Fibrous Heterogeneous	25%	Glass	75% Non-fibrous (other) <b>None Detected</b>

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EMSL Order:	341305576
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<b>Attn: Ron Trapane</b> <b>AMEC E&amp;I, Inc.</b> <b>75 E. Amelia Street</b> <b>Suite 200</b> <b>Orlando, FL 32801</b>	Phone: (407) 522-7570 Fax: Received: 07/24/13 8:35 AM Analysis Date: 7/26/2013 Collected:
Project: 6380-12-0955.24, 14102 Jim Hunt Rd.	

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:**

Sample Receipt Date::	7/24/2013	Sample Receipt Time:	8:35 AM
Analysis Completed Date:	7/26/2013	Analysis Completed Time:	12:39 PM

**Analyst(s):**

Jerry Cherian PLM (60)

Jonathan Teda PLM (49)

**Samples reviewed and approved by:**

Jonathan Teda, Asbestos Lab Manager  
or other approved signatory

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