



6 September 2013

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

Phone: +1 (352) 483-9020  
Fax: +1 (352) 483-9025  
Email: bpress@lakecountyfl.gov

**Subject: Report of Pre-Demolition NESHAP Asbestos Survey  
14045 Jim Hunt Road (Single Family Home)  
Clermont, Florida 34711  
Alternate Key # 1070392  
Parcel ID # 09-22-040000900000  
Purchase Order No. 20131212  
AMEC Project 6380-12-0955.23**

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 17 July 2013, in accordance with our Proposal 13PROP0010.6380.0241, 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:**  
AMEC E&I (local address)  
75 East Amelia Street, Suite 200  
Orlando, Florida 32801 USA  
Tel +1 (407) 522-7570  
Fax +1 (407) 522-7576

## 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 stucco/brick home, constructed in 2006, located at the subject address. The vacant single family home contains a total of 2,499 square feet (s.f.) of finished living area consisting of three bedrooms and three bathrooms. An attached garage (441 s.f.) and two open porches (555 s.f. and 72 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. 12" x 12" gray & brown ceramic floor tile, grout, and thin set (Bathroom #2)
2. 12" x 12" light beige ceramic floor tile, grout, and thin set (Master Bathroom)
3. White mastic sink undercoat (Kitchen)
4. White caulk (Kitchen counters and exterior doors and windows)
5. 6" x 6" white ceramic wall tile, grout, and mastic (Master Bathroom shower)
6. 2" x 2" white ceramic floor tile, grout, thin set, and mastic (Master Bathroom shower)
7. Drywall/joint compound with "Knockdown" texture (walls and ceilings throughout)

8. Stucco (exterior walls)
9. 12" x 12" brown & light beige ceramic tile, grout, & thin set (Kitchen, Foyer, Dining Room, and hallway to the garage)
10. Concrete slabs (house and driveway)
11. Off-white mastic on fiberglass insulated AHU unit and ducts (garage and attic space)
12. Insulation (attic and garage)
13. Two sets of roof shingles (house)
14. Roof felt (under roof shingles)

### 3.0 BULK SAMPLE RESULTS

Based upon our visual observations, bulk sampling of 14 suspect materials (36 samples, 93 layers) and subsequent PLM microscopic analysis, none of the previously identified suspect materials were determined to contain regulated amounts of asbestos.

### 4.0 ASBESTOS CONCLUSIONS

Since the structure will be **demolished**, a 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. The subject project is located in **Lake County**, so notification should be made to the Florida Department of Environmental Protection (FDEP) Central District Office at 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767, Phone (407) 894-7555, Fax (407) 897-2966, using FDEP form 62-0257.900(1).

## 5.0 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: 341305550  
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: 7/17/2013

Project: 6380-12-0955.23, 14045 Jim Hunt Rd

*7/29/13* *PL*

## 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-Ceramic Tile 341305550-0001	Bath 2 - 12"x12" Gray & Brown Ceramic Tile, Grout & Thinset	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-1A-Grout 341305550-0001A	Bath 2 - 12"x12" Gray & Brown Ceramic Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-1A-Thinset 341305550-0001B	Bath 2 - 12"x12" Gray & Brown Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		40% Quartz 15% Ca Carbonate 45% Non-fibrous (other)	None Detected
B-1B-Ceramic Tile 341305550-0002	Bath 2 - 12"x12" Gray & Brown Ceramic Tile, Grout & Thinset	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-1B-Grout 341305550-0002A	Bath 2 - 12"x12" Gray & Brown Ceramic Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-1B-Thinset 341305550-0002B	Bath 2 - 12"x12" Gray & Brown Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous	2% Cellulose	50% Quartz 15% Ca Carbonate 33% Non-fibrous (other)	None Detected
B-2A-Ceramic Tile 341305550-0003	Master Bath - 12"x12" Beige Ceramic Tile, Grout & Thinset	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-2A-Grout 341305550-0003A	Master Bath - 12"x12" Beige Ceramic Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		30% Quartz 10% Ca Carbonate 60% 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 07:59:48



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**Suite 200**  
**Orlando, FL 32801**

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-2A-Thinset 341305550-0003B	Master Bath - 12"x12" Beige Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		40% Quartz 15% Ca Carbonate 45% Non-fibrous (other)	None Detected
B-2B-Ceramic Tile 341305550-0004	Master Bath - 12"x12" Beige Ceramic Tile, Grout & Thinset	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-2B-Grout 341305550-0004A	Master Bath - 12"x12" Beige Ceramic Tile, Grout & Thinset	Tan Non-Fibrous Heterogeneous		60% Quartz 10% Ca Carbonate 30% Non-fibrous (other)	None Detected
B-2B-Thinset 341305550-0004B	Master Bath - 12"x12" Beige Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-3A 341305550-0005	Sink Undercoat - White Mastic	White Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
B-4A 341305550-0006	Around Counters - White Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-4B 341305550-0007	Around Entry Door - White Caulk	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-5A-Ceramic Tile 341305550-0008	Shower Walls - 6"x6" White Ceramic Tile, Grout & Mastic	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-5A-Grout 341305550-0008A	Shower Walls - 6"x6" White Ceramic Tile, Grout & Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-5A-Mastic 341305550-0008B	Shower Walls - 6"x6" White Ceramic Tile, Grout & Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-5B-Ceramic Tile 341305550-0009	Around Tub - 6"x6" White Ceramic Tile, Grout & Mastic	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-5B-Grout 341305550-0009A	Around Tub - 6"x6" White Ceramic Tile, Grout & Mastic	White Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
B-5B-Mastic 341305550-0009B	Around Tub - 6"x6" White Ceramic Tile, Grout & Mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6A-Ceramic Tile 341305550-0010	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6A-Grout 341305550-0010A	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-6A-Thinset 341305550-0010B	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		50% Quartz 15% Ca Carbonate 35% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-6A-Mastic 341305550-0010C	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6B-Ceramic Tile 341305550-0011	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-6B-Grout 341305550-0011A	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	Tan Non-Fibrous Heterogeneous		40% Quartz 10% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-6B-Thinset 341305550-0011B	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		30% Quartz 10% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-6B-Mastic 341305550-0011C	Shower Floor - 2"x2" White Ceramic Tile, Grout & Thinset	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7A-Drywall 341305550-0012	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Brown/Cream Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (other)	None Detected
B-7A-Joint Compound 341305550-0012A	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
B-7A-Tape 341305550-0012B	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Cream Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
B-7A-Texture 341305550-0012C	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-7A-Paint 341305550-0012D	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-7B-Drywall 341305550-0013	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Brown/Cream Fibrous Heterogeneous	15% Cellulose	60% Gypsum 25% Non-fibrous (other)	None Detected
B-7B-Joint Compound 341305550-0013A	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
B-7B-Tape 341305550-0013B	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Cream Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
B-7B-Texture 341305550-0013C	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-7B-Paint 341305550-0013D	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-7C-Drywall 341305550-0014	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Brown/White Fibrous Heterogeneous	20% Cellulose	55% Gypsum 25% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
B-7C-Joint Compound 341305550-0014A	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
B-7C-Tape 341305550-0014B	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Cream Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
B-7C-Texture 341305550-0014C	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-7C-Paint 341305550-0014D	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-7D-Drywall 341305550-0015	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Brown/White Fibrous Heterogeneous	20% Cellulose	60% Gypsum 20% Non-fibrous (other)	None Detected
B-7D-Joint Compound 341305550-0015A	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
B-7D-Tape 341305550-0015B	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	Cream Fibrous Heterogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected
B-7D-Texture 341305550-0015C	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% 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 07:59:48

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

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

EMSL Order:	341305550
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: 7/17/2013

Project: 6380-12-0955.23, 14045 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-7D-Paint 341305550-0015D	Ceiling - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-7E-Drywall 341305550-0016	North Wall - Drywall & Joint Compound W/Knock Down Treatment	Brown/White Fibrous Heterogeneous	12% Cellulose	70% Gypsum 18% Non-fibrous (other)	None Detected
B-7E-Joint Compound 341305550-0016A	North Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
B-7E-Tape 341305550-0016B	North Wall - Drywall & Joint Compound W/Knock Down Treatment	Cream Fibrous Heterogeneous	98% Cellulose	2% Non-fibrous (other)	None Detected
B-7E-Texture 341305550-0016C	North Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		20% Ca Carbonate 80% Non-fibrous (other)	None Detected
B-7E-Paint 341305550-0016D	North Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-7F-Drywall 341305550-0017	West Wall - Drywall & Joint Compound W/Knock Down Treatment	Brown/White Fibrous Homogeneous	30% Cellulose <1% Glass	60% Gypsum 10% Non-fibrous (other)	None Detected

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Project: 6380-12-0955.23, 14045 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-7F-Joint Compound 341305550-0017A	West Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-7F-Texture 341305550-0017B	West Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		25% Ca Carbonate 75% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-7G-Drywall 341305550-0018	South Wall - Drywall & Joint Compound W/Knock Down Treatment	Brown/White Fibrous Homogeneous	25% Cellulose <1% Glass	65% Gypsum 10% Non-fibrous (other)	None Detected
B-7G-Joint Compound 341305550-0018A	South Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Homogeneous		50% Ca Carbonate 50% Non-fibrous (other)	None Detected
B-7G-Texture 341305550-0018B	South Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Heterogeneous		30% Ca Carbonate 70% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-7H-Drywall 341305550-0019	North Wall - Drywall & Joint Compound W/Knock Down Treatment	Brown/White Fibrous Homogeneous	30% Cellulose <1% Glass	60% Gypsum 10% Non-fibrous (other)	None Detected
No joint compound present in sample					

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Project: 6380-12-0955.23, 14045 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-7H-Texture 341305550-0019A	North Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-7H-Paint 341305550-0019B	North Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-7I-Drywall 341305550-0020	East Wall - Drywall & Joint Compound W/Knock Down Treatment	Brown/Cream Fibrous Homogeneous	30% Cellulose <1% Glass	60% Gypsum 10% Non-fibrous (other)	None Detected
No joint compound present in sample					
B-7I-Texture 341305550-0020A	East Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (other)	None Detected
B-7I-Paint 341305550-0020B	East Wall - Drywall & Joint Compound W/Knock Down Treatment	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-8A-Stucco 341305550-0021	East Wall - Stucco	Gray Non-Fibrous Heterogeneous		50% Quartz 20% Ca Carbonate 30% Non-fibrous (other)	None Detected
B-8A-Paint 341305550-0021A	East Wall - Stucco	Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

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Project: 6380-12-0955.23, 14045 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-Stucco 341305550-0022	North Wall - Stucco	Gray Non-Fibrous Heterogeneous		50% Quartz 20% Ca Carbonate 30% Non-fibrous (other)	None Detected
B-8B-Paint 341305550-0022A	North Wall - Stucco	Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-8C 341305550-0023	West Wall - Stucco	Gray/Peach Non-Fibrous Heterogeneous		50% Quartz 20% Ca Carbonate 30% Non-fibrous (other)	None Detected
Inseparable paint / coating layer included in analysis					
B-9A-Ceramic Tile 341305550-0024	Foyer - 12"x12" Brown & Lt Borwn Ceramic Tile, Grout & Thinset	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-9A-Grout 341305550-0024A	Foyer - 12"x12" Brown & Lt Borwn Ceramic Tile, Grout & Thinset	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
B-9A-Thinset 341305550-0024B	Foyer - 12"x12" Brown & Lt Borwn Ceramic Tile, Grout & Thinset	White Non-Fibrous Heterogeneous		40% Quartz 20% Ca Carbonate 40% Non-fibrous (other)	None Detected
B-9B-Ceramic Tile 341305550-0025	Dining - 12"x12" Brown & Lt Borwn Ceramic Tile, Grout & Thinset	Brown/Peach Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
B-9B-Grout 341305550-0025A	Dining - 12"x12" Brown & Lt Borwn Ceramic Tile, Grout & Thinset	Tan Non-Fibrous Heterogeneous		40% Quartz 15% Ca Carbonate 45% Non-fibrous (other)	None Detected

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Project: 6380-12-0955.23, 14045 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-9B-Thinset 341305550-0025B	Dining - 12"x12" Brown & Lt Borwn Ceramic Tile, Grout & Thinset	White Fibrous Heterogeneous	2%	Cellulose	50% Quartz 10% Ca Carbonate 38% Non-fibrous (other) <b>None Detected</b>
B-10A-Concrete 341305550-0026	(Property) Living Room - Concrete	Gray Non-Fibrous Heterogeneous			60% Quartz 5% Ca Carbonate 35% Non-fibrous (other) <b>None Detected</b>
B-10A-Paint 341305550-0026A	(Property) Living Room - Concrete	Brown Non-Fibrous Heterogeneous			100% Non-fibrous (other) <b>None Detected</b>
B-10B 341305550-0027	Driveway - Concrete	Gray/White Non-Fibrous Heterogeneous			50% Quartz 20% Ca Carbonate 30% Non-fibrous (other) <b>None Detected</b>
B-11A-Mastic 341305550-0028	@ Unit/Fiberglass Ducts - Off White Mastic	Brown/White Fibrous Heterogeneous	30%	Cellulose 5% Glass	65% Non-fibrous (other) <b>None Detected</b>
Inseparable wrap layer included in analysis					
B-11A-Insulation 341305550-0028A	@ Unit/Fiberglass Ducts - Off White Mastic	Yellow Fibrous Homogeneous	100%	Glass	0% Non-fibrous (other) <b>None Detected</b>
B-11B-Mastic 341305550-0029	Fiberglass Ducts - Off White Mastic	Various Fibrous Heterogeneous	30%	Cellulose 5% Glass	65% Non-fibrous (other) <b>None Detected</b>
Inseparable wrap layer included in analysis					
B-11B-Insulation 341305550-0029A	Fiberglass Ducts - Off White Mastic	Yellow Fibrous Homogeneous	95%	Glass	5% Non-fibrous (other) <b>None Detected</b>

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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 341305550-0030	Attic - Insulation	Various Fibrous Heterogeneous	95%	Cellulose	5% Non-fibrous (other) <b>None Detected</b>
B-12B 341305550-0031	Attic - Insulation	Various Fibrous Heterogeneous	95%	Cellulose	5% Non-fibrous (other) <b>None Detected</b>
B-12C 341305550-0032	Attic - Insulation	Various Fibrous Homogeneous	95%	Cellulose	5% Non-fibrous (other) <b>None Detected</b>
B-13A-Shingle 1 341305550-0033	North Sect - Roof Shingle	Black Fibrous Homogeneous	15%	Glass	85% Non-fibrous (other) <b>None Detected</b>
B-13A-Shingle 2 341305550-0033A	North Sect - Roof Shingle	Various Fibrous Heterogeneous	15%	Glass	85% Non-fibrous (other) <b>None Detected</b>
B-13B-Shingle 1 341305550-0034	South Sect - Roof Shingle	Various Fibrous Heterogeneous	8%	Glass	92% Non-fibrous (other) <b>None Detected</b>
B-13B-Shingle 2 341305550-0034A	South Sect - Roof Shingle	Various Fibrous Heterogeneous	8%	Glass	92% Non-fibrous (other) <b>None Detected</b>
B-14A 341305550-0035	North Sect - Roof Felt (Under Shingle)	Black Fibrous Heterogeneous	50%	Cellulose	50% Non-fibrous (other) <b>None Detected</b>
B-14B 341305550-0036	South Sect - Roof Felt (Under Shingle)	Black Fibrous Heterogeneous	50%	Cellulose	50% Non-fibrous (other) <b>None Detected</b>

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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:	1:32 PM

**Analyst(s):**

Jerry Cherian PLM (56)

Jonathan Teda PLM (37)

**Samples reviewed and approved by:**

Jonathan Teda, Asbestos Lab Manager  
or other approved signatory

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