



1 November 2013

Ms. Brenda Press
Contracting Officer
Lake County DPW, Road Ops Division
12901 County Landfill Road
Tavares, Florida 32778

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**Subject: Report of Pre-Demolition NESHAP Asbestos Survey
Five Buildings at Lake County Former Fleet Facility
2300 Griffin Rd., Leesburg, Florida 34748
Alternate Key # 1171245
Parcel ID # 15-19-24-000300003100
P.O. No. 20140388
AMEC Project 6380-13-1104.02**

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 and Mr. Rolando Vargas, AHERA Accredited Inspectors from AMEC, on 22 October 2013, in accordance with our Proposal 13PROP0010.0000.0418, dated 13 September 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, CIEC
Senior Project Scientist

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

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

Attachment: Appendix A – Laboratory Analysis

P:\6380 IEQ\PROJECTS\2013-Projects\1104 - Lake County Government\1104.02 Former Fleet Facility (5 Buildings)- NESHAP.doc

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1.0 PROJECT INFORMATION

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

As conveyed by Ms. Press, there are plans to demolish five (5) structures at the subject property in the near future. It is LCDPW's intention to leave intact the existing aboveground storage tanks (and associated concrete pads) located in the southeastern corner of the site, as well as a metal building (dimensions 47 x 60) located on the western portion of the property.

The five remaining structures, listed below, will be demolished:

1. Oil Change Building - 2,188 square feet
2. Metal Shed - 385 square feet
3. Tire Repair Shop/Enclosed Pole Barn - 1,669 square feet
4. Open Pole Barn - 3,042 square feet
5. Metal Building - 5,060 square feet

The asbestos survey included bulk sampling of suspect interior and exterior building materials, including roofing products and concrete slabs associated with the five (5) structures listed above. At the Client's request, no other buildings or improvements (tank, piping insulation or concrete pads associated with the tanks, etc.) were included in the NESHAP survey

The objective of AMEC's survey was to identify accessible asbestos-containing materials which may be impacted by the planned demolition of the five (5) structures.

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 structures. 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 counts were **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 in **bold**:

Oil Change Building (OC) with a metal roof

1. 12"x12" gray w/black & white splashes vinyl composite tile (VCT) & yellow mastic (office floor)
2. Drywall/joint compound (office walls)
3. Drywall/joint compound with texture (office ceilings)
4. Brown mastic (behind wall panels)
5. White caulk (joints of exterior siding)
6. White duct mastic and insulation (above office ceiling)
7. Concrete and caulk (office slab)

Metal Building (MB)

1. Concrete (slabs in Office # 2 & Bay Areas)
2. **12"x12" light gray w/black & white splashes VCT** & yellow mastic (floors of Office #2 & Restroom/Shower)
3. 12" x 12" dark gray w/gray & white splashes VCT & yellow mastic (floors of Office # 2 & Storage Area)
4. **Window glaze** (East & West sections, 3 windows)
5. Drywall/joint compound with light texture (walls of Office #2)
6. Drywall/joint compound with "orange peel" texture (ceilings of Office #2)
7. White caulk (interior windows of Office #2)
8. Beige duct mastic and insulation (ducts in Office #4)
9. Roofing membrane (Office #2)

Metal Shed (MS) with a metal roof

1. Concrete slab (floor)
2. Gray wall flashing mastic (exterior - East section)

Pole Barn (PB) with a metal roof

1. Concrete (interior slab & exterior ramp)

3.0 BULK SAMPLE RESULTS AND CONCLUSIONS

Based upon our visual observations, bulk sampling of 19 suspect materials (42 samples, 60 layers) and subsequent PLM microscopic analysis, the following materials were determined to contain asbestos:

| Sample No. | Material Sampled | Sample Location | Percent/ Type Asbestos | Condition/ Potential for Damage | Estimated Quantity | NESHAP Category |
|------------------|------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------|---------------------------------------|------------------------|-------------------------------|
| MB-2A & MB-2B | 12" x 12" light gray VCT & yellow mastic | Office – 2 nd FL, Restroom & Shower (Metal Building) | 2% Chrysotile (VCT) *ND (yellow mastic) | Fair/ Medium | 500 S.F. | Category I Non- Friable |
| MB-4A & MB-4B | Window glaze | East & West sections (Metal Building) | 2% Chrysotile | Poor/ High | 30 L.F. (3 windows) | RACM** |

Prepared By: SB Checked By: RCT

*ND = None Detected for Asbestos

**RACM = Regulated Asbestos Containing Material

The EPA NESHAP classifies the 12"x12" light gray VCT with black and white splashes as Category I Non-Friable Material.

Window glazing is typically identified as Category I Non-Friable Material. However, since it is in poor condition (due to long time exposure to the elements) and is now friable, the window glazing is considered a Regulated Asbestos Containing Material (RACM).

4.0 ASBESTOS RECOMMENDATIONS

4.1 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.

4.2.1 Specific Asbestos Recommendations

4.2.2 ACM 12"x12" Light Gray VCTs w/Black & White Splashes and Non-ACM Yellow Mastic

ACM 12"x12" light gray VCTs with black and white plashes (9MB-2a and MB-2B) and non-ACM yellow mastic, located on the floor of Office # 2 and restrooms in the Metal Building, was found to contain greater than one percent Chrysotile asbestos.

The EPA NESHAP classifies the 12"x12" light gray VCT with black and white splashes as Category I non-friable asbestos-containing material.

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 approximate 500 square feet of 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.

4.2.3 ACM Exterior Window Glaze

ACM exterior glaze on three (3) windows on the east and west sections of the metal building were identified as containing greater than one percent Chrysotile asbestos. The EPA NESHAP (40 CFR Part 61, Subpart M) classifies the window glaze as Category I, non-friable ACM. However, due to its poor condition from sun damage, it 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 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 removal of the approximate 30 linear feet of damaged ACM glaze from three (3) windows of the Metal Building by a Florida Licensed Asbestos Contractor for proper disposal.

4.3 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 structures 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).

4.4 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.

4.5 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.

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 Department of Public Works**. 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

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|-------------|------------|
| EMSL Order: | 341308588 |
| CustomerID: | LAWE52H |
| CustomerPO: | C012304680 |
| ProjectID: | |

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|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Attn: Ron Trapane AMEC E&I, Inc. 75 E. Amelia Street Suite 200 Orlando, FL 32801 | Phone: (407) 522-7570 Fax: Received: 10/24/13 8:40 AM Analysis Date: 10/28/2013 Collected: 10/22/2013 |
| Project: 6380-13-1104.02 2300 Griffin Rd, Leesburg | |

RCJ 10/28/13

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 |
| OC1-A-Floor Tile <i>341308588-0001</i> | Office- Floor - 12" x 12" Gray w/ Black & White Splashes w/Yellow Mastic V.C.T. | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| OC1-A-Mastic <i>341308588-0001A</i> | Office- Floor - 12" x 12" Gray w/ Black & White Splashes w/Yellow Mastic V.C.T. | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| OC1-B-Floor Tile <i>341308588-0002</i> | Office- Floor - 12" x 12" Gray w/ Black & White Splashes w/Yellow Mastic V.C.T. | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| OC1-B-Mastic <i>341308588-0002A</i> | Office- Floor - 12" x 12" Gray w/ Black & White Splashes w/Yellow Mastic V.C.T. | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| OC2-A-Drywall <i>341308588-0003</i> | Office- East Wall - Drywall & Joint Compound | Brown/Gray Fibrous Heterogeneous | 30% Cellulose | 50% Gypsum 20% Non-fibrous (other) | None Detected |
| OC2-A-Joint Compound <i>341308588-0003A</i> | Office- East Wall - Drywall & Joint Compound | White Non-Fibrous Heterogeneous | | 30% Ca Carbonate 70% Non-fibrous (other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| OC2-B-Drywall <i>341308588-0004</i> | Office- North Wall - Drywall & Joint Compound | Brown/Gray Fibrous Heterogeneous | 30% Cellulose | 50% Gypsum 20% 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 10/28/2013 09:29:55

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| ProjectID: | |

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Project: **6380-13-1104.02 2300 Griffin Rd, Leesburg**

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 |
| OC2-B-Joint Compound 341308588-0004A | Office- North Wall - Drywall & Joint Compound | Tan/White Non-Fibrous Heterogeneous | | 10% Ca Carbonate 90% Non-fibrous (other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| OC2-C-Drywall 341308588-0005 | Office- South Wall - Drywall & Joint Compound | Brown/Gray Fibrous Homogeneous | 25% Cellulose | 50% Gypsum 25% Non-fibrous (other) | None Detected |
| OC2-C-Joint Compound 341308588-0005A | Office- South Wall - Drywall & Joint Compound | White Non-Fibrous Heterogeneous | | 30% Ca Carbonate 70% Non-fibrous (other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| OC3-A-Drywall 341308588-0006 | Office- Ceiling - Drywall & Joint Compound w/ Texture | Brown/Gray Fibrous Heterogeneous | 20% Cellulose | 65% Gypsum 15% Non-fibrous (other) | None Detected |
| OC3-A-Joint Compound 341308588-0006A | Office- Ceiling - Drywall & Joint Compound w/ Texture | White Non-Fibrous Homogeneous | | 50% Ca Carbonate 50% Non-fibrous (other) | None Detected |
| OC3-A-Texture 341308588-0006B | Office- Ceiling - Drywall & Joint Compound w/ Texture | Tan/White Non-Fibrous Heterogeneous | | 10% Ca Carbonate 90% Non-fibrous (other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| OC3-B-Drywall 341308588-0007 | Office- Ceiling - Drywall & Joint Compound w/ Texture | Brown/Gray Fibrous Heterogeneous | 25% Cellulose | 60% Gypsum 15% Non-fibrous (other) | None Detected |

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Project: **6380-13-1104.02 2300 Griffin Rd, Leesburg**

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 |
| OC3-B-Joint Compound 341308588-0007A | Office- Ceiling - Drywall & Joint Compound w/ Texture | Tan/White Non-Fibrous Heterogeneous | | 25% Ca Carbonate 75% Non-fibrous (other) | None Detected |
| Inseparable paint / coating and texture layers included in analysis | | | | | |
| OC3-C-Drywall 341308588-0008 | Office- Ceiling - Drywall & Joint Compound w/ Texture | Brown/Gray Fibrous Homogeneous | 30% Cellulose | 50% Gypsum 20% Non-fibrous (other) | None Detected |
| OC3-C-Joint Compound 341308588-0008A | Office- Ceiling - Drywall & Joint Compound w/ Texture | White Non-Fibrous Heterogeneous | | 30% Ca Carbonate 70% Non-fibrous (other) | None Detected |
| Inseparable paint / coating layer included in analysis | | | | | |
| OC4-A 341308588-0009 | Office- Bottom Half of South Wall - Brown Mastic Behind Wall Panels | Brown/Gray Fibrous Heterogeneous | 15% Cellulose | 85% Non-fibrous (other) | None Detected |
| Result includes a small amount of inseparable attached material | | | | | |
| OC4-B 341308588-0010 | Office- Bottom Half of South Wall - Brown Mastic Behind Wall Panels | Tan Fibrous Heterogeneous | 10% Cellulose | 90% Non-fibrous (other) | None Detected |
| Result includes a small amount of inseparable attached material | | | | | |
| OC5-A 341308588-0011 | Exterior Siding/ Joints - East Sect - White Caulk | White Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| OC5-B 341308588-0012 | Exterior Siding/ Joints - East Sect - White Caulk | White 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 |
| OC6-A-Mastic 341308588-0013 | Above Office | Various | 30% | Cellulose | None Detected |
| | Ceiling - White Duct Mastic | Fibrous Heterogeneous | 10% | Glass | |
| Inseparable wrap layer included in analysis | | | | | |
| OC6-A-Insulation 341308588-0013A | Above Office | Yellow | 90% | Glass | None Detected |
| | Ceiling - White Duct Mastic | Fibrous Homogeneous | | 10% Non-fibrous (other) | |
| OC6-B-Mastic 341308588-0014 | Above Office | Various | 30% | Cellulose | None Detected |
| | Ceiling - White Duct Mastic | Fibrous Heterogeneous | 15% | Glass | |
| Inseparable wrap layer included in analysis | | | | | |
| OC6-B-Insulation 341308588-0014A | Above Office | Yellow | 98% | Glass | None Detected |
| | Ceiling - White Duct Mastic | Fibrous Homogeneous | | 2% Non-fibrous (other) | |
| OC7-A-Concrete 341308588-0015 | Office- Slab - Concrete | Gray/White | | 50% Quartz | None Detected |
| | | Non-Fibrous Heterogeneous | | 15% Ca Carbonate 35% Non-fibrous (other) | |
| OC7-A-Caulk 341308588-0015A | Office- Slab - Concrete | White | | 100% Non-fibrous (other) | None Detected |
| | | Non-Fibrous Homogeneous | | | |
| OC7-B 341308588-0016 | Bay Area- Slab - Concrete | Various | | 50% Quartz | None Detected |
| | | Non-Fibrous Heterogeneous | | 10% Ca Carbonate 40% Non-fibrous (other) | |
| MB1-A 341308588-0017 | Office 2 Slab - Concrete | Gray/White | | 50% Quartz | None Detected |
| | | Non-Fibrous Heterogeneous | | 10% Ca Carbonate 40% Non-fibrous (other) | |

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

Initial report from 10/28/2013 09:29:55



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

| | |
|-------------|------------|
| EMSL Order: | 341308588 |
| CustomerID: | LAWE52H |
| CustomerPO: | C012304680 |
| ProjectID: | |

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

Phone: (407) 522-7570
Fax:
Received: 10/24/13 8:40 AM
Analysis Date: 10/28/2013
Collected: 10/22/2013

Project: 6380-13-1104.02 2300 Griffin Rd, Leesburg

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 |
| MB1-B 341308588-0018 | Bay Area Slab - Concrete | Various Non-Fibrous Heterogeneous | | 60% Quartz 5% Ca Carbonate 35% Non-fibrous (other) | None Detected |
| MB2-A-Floor Tile 341308588-0019 | Office 2- Floor - 12" x 12" Lt Gray w/ Black & White Splashes & Yellow Mastic V.C.T. | Gray Non-Fibrous Homogeneous | | 98% Non-fibrous (other) | 2% Chrysotile |
| MB2-A-Mastic 341308588-0019A | Office 2- Floor - 12" x 12" Lt Gray w/ Black & White Splashes & Yellow Mastic V.C.T. | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| MB2-B-Floor Tile 341308588-0020 | Restroom/Shower - 12" x 12" Lt Gray w/ Black & White Splashes & Yellow Mastic V.C.T. | Gray Non-Fibrous Homogeneous | | 98% Non-fibrous (other) | 2% Chrysotile |
| MB2-B-Mastic 341308588-0020A | Restroom/Shower - 12" x 12" Lt Gray w/ Black & White Splashes & Yellow Mastic V.C.T. | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| MB3-A-Floor Tile 341308588-0021 | Office 2- Floor - 12" x 12" Dk Gray w/Gray & White Splashes V.C.T. w/ Yellow Mastic | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| MB3-A-Mastic 341308588-0021A | Office 2- Floor - 12" x 12" Dk Gray w/Gray & White Splashes V.C.T. w/ Yellow Mastic | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |

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Attn: **Ron Trapano**
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Orlando, FL 32801

Phone: (407) 522-7570
 Fax:
 Received: 10/24/13 8:40 AM
 Analysis Date: 10/28/2013
 Collected: 10/22/2013

Project: **6380-13-1104.02 2300 Griffin Rd, Leesburg**

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 |
| MB3-B-Floor Tile 341308588-0022 | Storage Area - 12" x 12" Dk Gray w/Gray & White Splashes V.C.T. w/ Yellow Mastic | Gray Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| MB3-B-Mastic 341308588-0022A | Storage Area - 12" x 12" Dk Gray w/Gray & White Splashes V.C.T. w/ Yellow Mastic | Yellow Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| MB4-A 341308588-0023 | East Sect. - Window Glazing | Gray Non-Fibrous Homogeneous | | 98% Non-fibrous (other) | 2% Chrysotile |
| MB4-B 341308588-0024 | West Sect. - Window Glazing | White Non-Fibrous Homogeneous | | 98% Non-fibrous (other) | 2% Chrysotile |
| MB5-A 341308588-0025 | Office 2- North Wall - Drywall & Joint Compound w/ Lt Texture | Various Fibrous Heterogeneous | 12% Cellulose | 60% Gypsum 5% Ca Carbonate 23% Non-fibrous (other) | None Detected |
| Inseparable materials. Composite analysis. | | | | | |
| MB5-B 341308588-0026 | Office 2- West Wall - Drywall & Joint Compound w/ Lt Texture | Various Fibrous Heterogeneous | 10% Cellulose | 60% Gypsum 10% Ca Carbonate 20% Non-fibrous (other) | None Detected |
| Inseparable materials. Composite analysis. | | | | | |
| MB5-C 341308588-0027 | Office 2- South Wall - Drywall & Joint Compound w/ Lt Texture | Various Fibrous Heterogeneous | 5% Cellulose | 70% Gypsum 15% Ca Carbonate 10% Non-fibrous (other) | None Detected |
| Inseparable materials. Composite analysis. | | | | | |

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Orlando, FL 32801

Phone: (407) 522-7570
 Fax:
 Received: 10/24/13 8:40 AM
 Analysis Date: 10/28/2013
 Collected: 10/22/2013

Project: **6380-13-1104.02 2300 Griffin Rd, Leesburg**

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 |
| MB6-A 341308588-0028 | Office 2- Ceiling - Drywall & Joint Compound w/ "Orange Peel" Texture | Various Fibrous Heterogeneous | 15% Cellulose | 50% Gypsum 15% Ca Carbonate 20% Non-fibrous (other) | None Detected |
| Inseparable materials. Composite analysis. | | | | | |
| MB6-B 341308588-0029 | Office 2- Ceiling - Drywall & Joint Compound w/ "Orange Peel" Texture | Various Fibrous Heterogeneous | 18% Cellulose | 60% Gypsum 5% Ca Carbonate 17% Non-fibrous (other) | None Detected |
| Inseparable materials. Composite analysis. | | | | | |
| MB6-C 341308588-0030 | Office 2- Ceiling - Drywall & Joint Compound w/ "Orange Peel" Texture | Various Fibrous Heterogeneous | 10% Cellulose | 65% Gypsum 10% Ca Carbonate 15% Non-fibrous (other) | None Detected |
| Inseparable materials. Composite analysis. | | | | | |
| MB7-A 341308588-0031 | Office 2- Interior- Around Windows - White Caulk | White Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| MB7-B 341308588-0032 | Office 2- Interior- Around Windows - White Caulk | White Non-Fibrous Homogeneous | | 100% Non-fibrous (other) | None Detected |
| MB8-A-Mastic 341308588-0033 | Office 4- AC Ducts (Fiberglass) - Beige Duct Mastic | Various Fibrous Heterogeneous | 10% Cellulose 5% Glass | 85% Non-fibrous (other) | None Detected |
| Inseparable wrap layer included in analysis | | | | | |
| MB8-A-Insulation 341308588-0033A | Office 4- AC Ducts (Fiberglass) - Beige Duct Mastic | Yellow Fibrous Homogeneous | 90% Glass | 10% Non-fibrous (other) | None Detected |

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Fax:
Received: 10/24/13 8:40 AM
Analysis Date: 10/28/2013
Collected: 10/22/2013

Project: 6380-13-1104.02 2300 Griffin Rd, Leesburg

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 |
| MB8-B-Mastic 341308588-0034 | Office 4- AC Ducts (Fiberglass) - Beige Duct Mastic | Brown/White/Silver Fibrous Heterogeneous | 30% Cellulose 15% Glass | 55% Non-fibrous (other) | None Detected |
| Inseparable wrap layer included in analysis | | | | | |
| MB8-B-Insulation 341308588-0034A | Office 4- AC Ducts (Fiberglass) - Beige Duct Mastic | Yellow Fibrous Homogeneous | 98% Glass | 2% Non-fibrous (other) | None Detected |
| MB9-A 341308588-0035 | Office- 2- Roof - Roofing Membrane | Black Fibrous Heterogeneous | 10% Synthetic | 90% Non-fibrous (other) | None Detected |
| MB9-B 341308588-0036 | Office- 2- Roof - Roofing Membrane | Black Fibrous Homogeneous | 10% Synthetic | 90% Non-fibrous (other) | None Detected |
| MS1-A 341308588-0037 | Floor- Slab - Concrete | Gray Non-Fibrous Heterogeneous | | 40% Quartz 15% Ca Carbonate 45% Non-fibrous (other) | None Detected |
| MS1-B 341308588-0038 | Floor- Slab - Concrete | Various Non-Fibrous Heterogeneous | <1% Glass | 45% Quartz 15% Ca Carbonate 40% Non-fibrous (other) | None Detected |
| MS2-A 341308588-0039 | East Sect. - Gray-Wall Flashing-Mastic | Gray/Black Fibrous Heterogeneous | 10% Cellulose 8% Glass | 82% Non-fibrous (other) | None Detected |
| MS2-B 341308588-0040 | East Sect. - Gray-Wall Flashing-Mastic | Gray/Black Fibrous Heterogeneous | 10% Glass 10% Cellulose | 80% Non-fibrous (other) | None Detected |

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Project: 6380-13-1104.02 2300 Griffin Rd, Leesburg

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 |
| PB1-A 341308588-0041 | Pole Barn - Concrete | Various Non-Fibrous Heterogeneous | | 40% Quartz 10% Ca Carbonate 50% Non-fibrous (other) | None Detected |
| PB1-B 341308588-0042 | Pole Barn - Concrete | Various Non-Fibrous Heterogeneous | | 45% Quartz 10% Ca Carbonate 45% Non-fibrous (other) | None Detected |

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| Project: 6380-13-1104.02 2300 Griffin Rd, Leesburg | |

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:: | 10/24/2013 | Sample Receipt Time: | 8:40 AM |
| Analysis Completed Date: | 10/28/2013 | Analysis Completed Time: | 9:56 AM |

Analyst(s):



Jonathan Teda PLM (35)



Manolo Hernandez PLM (25)

Samples reviewed and approved by:



Jonathan Teda, Asbestos Lab Manager
or other approved signatory

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