REPORT OF NESHAP SURVEY FOR ASBESTOS-CONTAINING MATERIALS

Vacant VFW Building
24251Colmar Avenue
Sorrento, Florida

- Prepared For -

LAKE COUNTY DEPARTMENT OF PUBLIC WORKS
437 Ardice Avenue
Eustis, Florida 32726

- Prepared By -

MACTEC ENGINEERING AND CONSULTING, INC.
4150 North John Young Parkway
Orlando, Florida 32804

MACTEC PROJECT 6380-09-0731.16

May 4, 2010

MACTEC

engineering and constructing a better tomorrow

May 4, 2010

Ms. Lori L. Conway
Funding & Production Director
Lake County Department of Public Works
437 Ardice Avenue
Eustis, Florida 32726
Phone: 352-483-9006
Fax: 352-483-9015
LConway@lakecountyfl.gov

Subject: **Report of NESHAP Survey for Asbestos-Containing Materials**
Vacant VFW Building (Alternate Key # 1361842)
25421 Colmar Avenue
Sorrento, Florida 32776
MACTEC Project 6380-09-0731.16

Dear Ms. Conway:

MACTEC Engineering and Consulting, Inc. (MACTEC) has completed the authorized survey, sampling and evaluation for asbestos-containing materials within the vacant VFW structure located at 25421 Colmar Avenue in Sorrento, Florida. The fieldwork was performed on April 12, 2010 by Mr. Ronald C. Trapane, an AHERA accredited inspector from MACTEC, in accordance with our Proposal PROP10ORLA-0178, dated March 18, 2010.

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

MACTEC 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.

Sincerely,
MACTEC ENGINEERING AND CONSULTING, INC.

Ronald C. Trapane
Project Scientist

Phyllis Gray
for Russell E. Stauffer, P.E. with permission
FL Asbestos Consultant
License No. EA 0000016

FLAC# ZA0000116
Attachments: Appendix A – Asbestos Bulk Sample Results

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1.0 PROJECT INFORMATION

The subject property consists of a vacant VFW structure located at 24251 Colmar Avenue in Sorrento, Florida. Based on information reviewed by MACTEC from the Lake County Property Appraisers web site, the vacant VFW building was constructed in 1970 and consists of 1,800 square feet of finished area with two bathrooms. No previous asbestos surveys have reportedly been conducted on this building.

It should be noted that a second structure, a fire station at 31432 Walton Heath Avenue, was also identified in the same Alternate Key number. However, at Lake County Government's request, the fire station was not included in this NESHAP survey.

The VFW building consisted of concrete block construction with wood roof trusses supporting a silver coating and tar covered metal roof. The interior floors over the concrete slab in the bathrooms consisted of numerous styles of 12" x 12" floor tiles with adhesive. The remnants of floor tile adhesive were also noted in the center area of the building, leading to the rear exit. However, the floor tiles in this area had previously been removed. Interior walls of the structure consisted of two layers of wood paneling and included adhesive and joint compound materials sandwiched between the underlying original paneling and the newer, top paneling. The original underlying wood paneling was attached to the concrete block walls with furring strips. The original ceiling was constructed of textured drywall. A suspended ceiling tile and grid system was added at a later date. The VFW building was vacant at the time of MACTEC's site visit.

It is our understanding that the structure on this subject property is scheduled for demolition.

2.0 ASBESTOS SURVEY

2.1 General

The survey was performed by observing suspect materials throughout the structure where accessible. We must emphasize that it is not possible to look within every location of a building. The visual survey determines 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 the presence of floor tile and mastic below existing finishes. Due to these limitations, wall voids, building cavities and mechanical equipment and other areas may contain unreported asbestos-containing materials. The primary purpose of the survey was to locate, identify and assess friable (or potentially friable) building materials which may contain asbestos materials, and propose recommendations relative to the impending demolition. Generally stated, friable materials are those that can be pulverized or reduced to powder by hand pressure, when dry.

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 randomly taken. Bulk samples collected during the survey were delivered to EMSL Analytical, Inc., of Orlando, Florida, an NVLAP accredited laboratory (No. 101151-0). **Fifty-one** separate layers of suspect materials 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 a requirement for verification, by point counting, if it is determined by PLM analysis that asbestos is present in amounts less than 10 percent. At the request of Lake County, point counting was to be conducted on any friable materials determined by PLM analysis to contain 10% or less asbestos. However, no friable ACM was identified; only non-friable ACM was found. Therefore, no point counting was performed.

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

1. Felt paper and tar moisture barrier along the base of the east wall
2. Silver top coat and tar under coat of roof covering on sheet metal roof
3. Window glaze
4. Discarded white woven fire hoses on west side of house
5. Stucco (limited to north wall, under east windows)
6. 2’ x 2’ directional ceiling tile (main style of ceiling tile)
7. Original drywall ceiling with texture
8. Black mastic seams on fiberglass insulated HVAC ducts
9. 2’ x 2’ gouges with pinhole design ceiling tile (area outside of restrooms)
10. Remnants of floor tile adhesive (floor tiles previously removed)
11. Window caulk around air-conditioner
12. **Light blue sink undercoat mastic (double stainless steel kitchen sink)**
13. Adhesive under formica counter tops
14. Concrete slab
15. **12” x 12” white pebble pattern vinyl floor tile (VFT) with adhesive (Ladies bathroom)**
16. **12” x 12” khaki green rounded diamond pattern VFT with adhesive (Ladies bathroom)**
17. 12” x 12” white diamond scroll pattern VFT with adhesive (Men’s bathroom)
18. **12” x 12” dark red rounded diamond pattern VFT with adhesive (Men’s bathroom)**
19. 12” x 12” Light green with small dark green and white streaked pattern VFT with adhesive (Men’s bathroom)
20. Joint compound on old wood paneling, located under newer wood paneling (north wall)
21. Light brown adhesive on wood paneling, behind top layer of paneling (south wall)

3.0 BULK SAMPLE RESULTS

3.1 Polarized Light Microscopy (PLM) Analysis Results

Based upon our visual observations, bulk sampling of suspect materials and subsequent PLM microscopic analysis, the following materials were determined to contain **regulated amounts of asbestos**:

Sample No(s).	Material Sampled	Sample Location	Approx. Quantity	Percent/ Type Asbestos	Condition	NESHAP Category
B-12A B-12B	Light blue sink mastic undercoat	Double stainless steel kitchen sink	6 sq. ft.	6% Chrysotile 6% Chrysotile	Good	I
B-15A B-15B	12" x 12" white pebble VFT w/adhesive	Ladies bathroom	22 sq. ft.	7% Chrysotile 7% Chrysotile	Fair	I
B-16A B-16B	12" x 12" khaki green rounded diamond VFT w/adhesive	Ladies bathroom	23 sq. ft.	2% Chrysotile 2% Chrysotile	Fair	I
B-18A B-18B	12" x 12" dark red rounded diamond VFT w/adhesive	Men's bathroom	20 sq. ft.	3% Chrysotile 3% Chrysotile	Fair	I

Prepared By: RCT Checked By: psg

4.0 CONCLUSIONS

The following materials were found to contain asbestos:

4.1 Light Blue Sink Mastic Undercoat

Approximately six square feet of light blue sink mastic undercoat under the double stainless steel kitchen sink (Samples B-12A and B-12B) was identified by PLM as containing **6 percent Chrysotile asbestos**. This material was observed to be in good condition with a low potential for disturbance.

4.2 12” x 12” White Pebble Vinyl Floor Tile with Adhesive

Approximately 22 square feet of 12” x 12” white pebble pattern vinyl floor tile with adhesive in the Ladies bathroom (Samples B-15A and B-15B) was identified by PLM as containing **7 percent Chrysotile asbestos.** This material was observed to be in fair condition with a low potential for disturbance.

4.3 12” x 12” Khaki Green Rounded Diamond Vinyl Floor Tile with Adhesive

Approximately 23 square feet of 12” x 12” khaki green rounded diamond pattern vinyl floor tile with adhesive in the Ladies bathroom (Samples B-16A and B-16B) was identified by PLM as containing **2 percent Chrysotile asbestos.** This material was observed to be in fair condition with a low potential for disturbance.

4.4 12” x 12” Dark Red Rounded Diamond Vinyl Floor Tile with Adhesive

Approximately 20 square feet of 12” x 12” dark red rounded diamond pattern vinyl floor tile with adhesive in the Men’s bathroom (Samples B-18A and B-18B) was identified by PLM as containing **3 percent Chrysotile asbestos.** This material was observed to be in fair condition with a low potential for disturbance.

5.0 RECOMMENDATIONS

5.1 General Recommendations

There are four recognized response actions to manage asbestos-containing materials in buildings and abate potential hazards to human health and the environment:

- **Removal**
- **Enclosure**
- **Encapsulation**
- **Repair** of damaged materials in conjunction with special **Operations and Maintenance (O&M)** and re-observation programs.

The selection of a particular response action should be based upon intended usage of the building, actual exposure rates and cost. The EPA has Federal regulations regarding asbestos removal associated with renovation and demolition projects conducted in "facilities" as defined in the regulations. The EPA NESHAP rule includes several important definitions. The definitions that greatly affect abatement alternatives are the categories of asbestos-containing materials (ACM). These categories are as follows:

- **Friable ACM** 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 II 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.

OSHA also has rules which govern maintenance, renovation, or demolition work which impacts ACM, including removal, in public and commercial buildings. The OSHA construction rules for asbestos establish four distinct classes of work. Each class of asbestos work requires specialized training and engineering controls.

These classes are:

- **Class I Asbestos Work** means activities involving the removal of ACM insulation on mechanical systems (i.e. pipes, boilers, ducts, etc.) and applied to surfaces (i.e. fireproofing, acoustical treatments, and plaster).
- **Class II Asbestos Work** means activities involving the removal of materials which are not on mechanical systems or applied to surfaces (i.e. floor coverings, gypsum wallboard, mastics, roofing, etc.).
- **Class III Asbestos Work** means activities involving the disturbance, for maintenance purposes only, small amounts of ACM up to that amount which will fit in one waste bag.
- **Class IV Asbestos Work** means clean-up of ACM dust and debris on construction projects.

5.2 Specific Recommendations

5.2.1 Light Blue ACM Kitchen Sink Mastic Undercoat

The EPA NESHAP (40 CFR Part 61, Appendix A to Subpart M) classifies the light blue sink mastic undercoat as Category I, non-friable ACM. Removal is required by NESHAP prior to any activities that have a high probability of rendering them 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 and engineering controls.

5.2.2 Three Styles of 12” x 12” ACM Vinyl Floor Tiles in the Bathrooms

The EPA NESHAP (40 CFR Part 61, Appendix A to Subpart M) classifies the three styles of 12” x 12” floor tiles in the bathrooms as Category I, non-friable ACM. Removal is required by NESHAP prior to any activities that have a high probability of rendering them friable during demolition activities. Removal of the ACM floor tiles is required if the concrete slab is to be recycled 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 and engineering controls.

5.3 State of Florida Asbestos Regulations

The Florida Statutes 469.001-014 delineate required licensing and training requirements for personnel and firms who would be involved in the asbestos demolition and/or removal work. Chapter 469 of the Florida Statutes generally requires that a state licensed asbestos abatement contractor perform the removal, repair, or encapsulation to the types of ACM identified in this report.

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). There is a notification fee based on the quantity of RACM.

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).

We recommend that you involve appropriate legal counsel in your asbestos control program to address these very important issues.

6.0 LIMITATIONS

MACTEC 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 the 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 MACTEC'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 not 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, MACTEC should be contacted to assess the potential impact of these materials or conditions relative to the findings or recommendations included herein.

APPENDIX A

ASBESTOS BULK SAMPLE RESULTS

EMSL Analytical, Inc.
5125 Adanson Street, Suite 900, Orlando, FL 32804
Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Ron Trapane**
MACTEC, Inc.
4150 North John Young Parkway
Orlando, FL 32804-2620

Fax: Phone: (407) 522-7570

Project: **6380-09-0731.16 vacant VFW 24521 Colmar Ave**

Customer ID: LAWE52H
Customer PO:
Received: 04/12/10 11:01 AM
EMSL Order: 341002736

EMSL Proj: Walt Disney World
Analysis Date: 4/13/2010

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
B-01A *341002736-0001*	felt/turn moisture barrier wall SE corner along E	Black Non-Fibrous Heterogeneous	15%	Glass	85%	Non-fibrous (other)	**None Detected**
B-01B *341002736-0002*	felt/turn moisture barrier wall center of E wall	Black Non-Fibrous Heterogeneous	15%	Glass	85%	Non-fibrous (other)	**None Detected**
B-01C *341002736-0003*	felt/turn moisture barrier wall NE corner E wall	Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-02A *341002736-0004*	silver top coat/tar undercoat roof covering over	Black/Silver Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-02B *341002736-0005*	silver top coat/tar undercoat roof covering over	Black/Silver Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-02C *341002736-0006*	silver top coat/tar undercoat roof covering over	Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-03A *341002736-0007*	window glaze N small window W wall	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

Report Amended: 4/14/2010 2:20:18 PM Replaces the Inital Report . Reason Code: Client-Change to ProjectID

Analyst(s)
Adelmarie Bones (51)

Blanca Cortes, Ph.D., Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**% Non-Fibrous**	**% Type**
B-03B *341002736-0008*	window glaze S small window W wall	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
B-04A *341002736-0009*	fire hoses white woven material along NW corner of	Black Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
B-04B *341002736-0010*	fire hoses white woven material along NW corner of	Black Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
B-05A *341002736-0011*	stucco ext wall N under E window	Gray/White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
B-05B *341002736-0012*	stucco ext wall N under E window	Gray/White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
B-05C *341002736-0013*	stucco ext wall N under E window	Gray/White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
B-06A *341002736-0014*	2'x2' directional ceiling tile E end of bldg	Tan Fibrous Heterogeneous	60% 10%	Cellulose Glass	30% 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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
B-06B *341002736-0015*	2'x2' directional ceiling tile center area of bldg	Tan Fibrous Heterogeneous	60% 10%	Cellulose Glass	30%	Non-fibrous (other)	**None Detected**
B-06C *341002736-0016*	2'x2' directional ceiling tile W of bldg	Tan Fibrous Heterogeneous	60% 10%	Cellulose Glass	30%	Non-fibrous (other)	**None Detected**
B-07A-Joint Compound *341002736-0017*	original drywall ceiling w/texture W end by kitche	White Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-07A-Drywall *341002736-0017A*	original drywall ceiling w/texture W end by kitche	White Fibrous Heterogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**
B-07B *341002736-0018*	original drywall ceiling w/texture E end by food	White Fibrous Heterogeneous	20% drywall only	Cellulose	80%	Non-fibrous (other)	**None Detected**
B-07C *341002736-0019*	original drywall ceiling w/texture center of bldg	White Fibrous Heterogeneous	20% drywall only	Cellulose	80%	Non-fibrous (other)	**None Detected**

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			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
B-08A *341002736-0020*	black mastic seams on fiberglass HVAC duct insula	Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-08B *341002736-0021*	black mastic seams on fiberglass HVAC duct insula	Black Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**
B-09A *341002736-0022*	2'x2' gouges w/pinhole ceiling tile outside of men	Tan Fibrous Heterogeneous	60% 10%	Cellulose Glass	30%	Non-fibrous (other)	**None Detected**
B-09B *341002736-0023*	2'x2' gouges w/pinhole ceiling tile rear storage	Tan Fibrous Heterogeneous	60% 10%	Cellulose Glass	30%	Non-fibrous (other)	**None Detected**
B-10A *341002736-0024*	yellow floor tile adhesive center of bldg in front	Yellow Non-Fibrous Heterogeneous	5%	Synthetic	95%	Non-fibrous (other)	**None Detected**
B-10B *341002736-0025*	yellow floor tile adhesive center of bldg in front	Yellow Non-Fibrous Heterogeneous	5%	Synthetic	95%	Non-fibrous (other)	**None Detected**
B-11A *341002736-0026*	window caulk around air conditioner N front wall W	Tan Non-Fibrous Heterogeneous			100%	Non-fibrous (other)	**None Detected**

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Analysis Date: 4/13/2010

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-11B *341002736-0027*	window caulk around air conditioner N front wall W	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-12A *341002736-0028*	light blue sink mastic undercoat kitchen sink righ	Blue Non-Fibrous Heterogeneous		94% Non-fibrous (other)	**6% Chrysotile**
B-12B *341002736-0029*	light blue sink mastic undercoat kitchen sink left	Blue Non-Fibrous Heterogeneous		94% Non-fibrous (other)	**6% Chrysotile**
B-13A *341002736-0030*	white formica counter w/adhesive food distribution	Brown Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-13B *341002736-0031*	white formica counter w/adhesive food distribution	Brown Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-13C *341002736-0032*	light green swirl formica counter w/adhesive count	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-14A *341002736-0033*	concrete slab N center floor	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

Report Amended: 4/14/2010 2:20:18 PM Replaces the Inital Report . Reason Code: Client-Change to ProjectID

Analyst(s)
Adelmarie Bones (51)

Blanca Cortes, Ph.D., Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
Samples analyzed by EMSL Analytical, Inc. 5125 Adanson Street, Suite 900, OrlandoFL NVLAP Lab Code 101151-0

EMSL Analytical, Inc.
5125 Adanson Street, Suite 900, Orlando, FL 32804
Phone: (407) 599-5887 Fax: (407) 599-9063 Email: orlandolab@emsl.com

Attn: **Ron Trapane**
MACTEC, Inc.
4150 North John Young Parkway
Orlando, FL 32804-2620

Fax: Phone: (407) 522-7570
Project: **6380-09-0731.16 vacant VFW 24521 Colmar Ave**

Customer ID: LAWE52H
Customer PO:
Received: 04/12/10 11:01 AM
EMSL Order: 341002736

EMSL Proj: Walt Disney World
Analysis Date: 4/13/2010

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-14B *341002736-0034*	concrete slab S center floor	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-14C *341002736-0035*	concrete slab NW area of floor	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-15A *341002736-0036*	12'x12' white pebble style floor tile w/adhesive	Brown/White Non-Fibrous Heterogeneous		93% Non-fibrous (other)	**7% Chrysotile**
B-15B *341002736-0037*	12'x12' white pebble style floor tile w/adhesive	Brown/White Non-Fibrous Heterogeneous		93% Non-fibrous (other)	**7% Chrysotile**
B-16A *341002736-0038*	12"x12" khaki green rounded diamond style floor t	Green Non-Fibrous Heterogeneous		98% Non-fibrous (other)	**2% Chrysotile**
B-16B *341002736-0039*	12"x12" khaki green rounded diamond style floor t	Green Non-Fibrous Heterogeneous		98% Non-fibrous (other)	**2% Chrysotile**
B-17A *341002736-0040*	12"x12" white w/diamond scroll pattern w/adhesive	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

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Attn: **Ron Trapane**
MACTEC, Inc.
4150 North John Young Parkway
Orlando, FL 32804-2620

Fax: Phone: (407) 522-7570
Project: **6380-09-0731.16 vacant VFW 24521 Colmar Ave**

Customer ID: LAWE52H
Customer PO:
Received: 04/12/10 11:01 AM
EMSL Order: 341002736

EMSL Proj: Walt Disney World
Analysis Date: 4/13/2010

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-17B *341002736-0041*	12"x12" white w/diamond scroll pattern w/adhesive	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-18A *341002736-0042*	12"x12" dark red rounded diamond pattern floor til	Red Non-Fibrous Heterogeneous		97% Non-fibrous (other)	**3% Chrysotile**
B-18B *341002736-0043*	12"x12" dark red rounded diamond pattern floor til	Red Non-Fibrous Heterogeneous		97% Non-fibrous (other)	**3% Chrysotile**
B-19A *341002736-0044*	12"x12" light green w/small dark green/white strea	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-19B *341002736-0045*	12"x12" light green w/small dark green/white strea	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-20A *341002736-0046*	joint compound on old wood panels located under ne	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-20B *341002736-0047*	joint compound on old wood panels located under ne	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

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Fax: Phone: (407) 522-7570
Project: **6380-09-0731.16 vacant VFW 24521 Colmar Ave**

Customer ID: LAWE52H
Customer PO:
Received: 04/12/10 11:01 AM
EMSL Order: 341002736

EMSL Proj: Walt Disney World
Analysis Date: 4/13/2010

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-20C *341002736-0048*	joint compound on old wood panels located under ne	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-21A *341002736-0049*	light brown adhesive S wall behind wood panelling	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
B-21B *341002736-0050*	light brown adhesive S wall behind wood panelling	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

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Samples analyzed by EMSL Analytical, Inc. 5125 Adanson Street, Suite 900, OrlandoFL NVLAP Lab Code 101151-0

THIS IS THE LAST PAGE OF THE REPORT.

341002736

341002736

Sheet _____ of _____

MACTEC

MACTEC ENGINEERING AND CONSULTING, INC.

4150 North John Young Parkway

Orlando, Florida 32804

ASBESTOS SAMPLE CHAIN-OF-CUSTODY RECORD

[redacted]

Project Name: Vacant VFW - 24521 Colmar Ave.	
Project Number: ~~6380-10-0792~~ 6380-09-0731 **Task:** 16	**Number Of Samples:** 50
Project Manager: ~~Paul Santone~~	**Date Samples Collected:** 4/11/10
Turnaround Time: ~~24~~ 48 HR	**APO Number:**
Is This A RUSH Job?: NO	**Are Any Samples Missing?:** NO
Verbal Results Required?: NO	**Fax Results?:** NO
Phone: (407) 522-7570	**Fax:** (407) 522-7576
Please Mail Results To Attention Of: ~~Paul Santone~~ Ron Trapane & Nancy Palmer	**E-Mail:** ~~PDSantone@mactec.com~~ rctrapane@mactec.com & nkpalmer@mactec.com
Sender's Name: Ronald C. Trapane	**Date Sent:** 4/12/10
Sender's Signature: [signature]	
Received By: Britain Sabatero	**TEM Required:** Yes **No**
Special Instructions:	**Date Received:** 4/12/10 10:30am
Analysis Requested: PLM, EPA 600/R-93/116	
First Positive Stop: No	**Lab Samples were Sent to:** New Jersey Lab ☐ Orlando Lab ☑

341002736

341002736 pg 1 of 8

BULK SAMPLE LOG

Project Name: Vacant VFW @ 24521 Colmar Ave.
Project #: 6380-09-0731.16

Survey Crew: RT
Date: 4/11/16

120 ft

Sample #: B-01A **Friable:** Yes No ✓
Mat'l Desc.: Felt and tar moisture barrier wall
Sample Location: SE corner - along E. wall
Condition: Good Fair ✓ Poor
Pot. For Damage: Low Med ✓ High
HA Appears: Along base of East (side) wall

Sample #: B-01B **Friable:** Yes No ✓
Mat'l Desc.: Same as B-01A
Sample Location: Center of E. wall
Condition: Good ✓ Fair Poor
Pot. For Damage: Low Med ✓ High
HA Appears: Same as B-01A

Sample #: B-01C **Friable:** Yes No ✓
Mat'l Desc.: Same as B-01A
Sample Location: NE corner - E. wall
Condition: Good ✓ Fair Poor
Pot. For Damage: Low Med ✓ High
HA Appears: Same as B-01A

40' x 65'

Sample #: B-02A **Friable:** Yes No ✓
Mat'l Desc.: Silver top coat and tar undercoat, Roof covering over sheetmetal roof
Sample Location: NE corner of Roof
Condition: Good Fair ✓ Poor
Pot. For Damage: Low Med ✓ High
HA Appears: Roof

Sample #: B-02B **Friable:** Yes No ✓
Mat'l Desc.: Same as B-02A
Sample Location: SE corner of roof
Condition: Good Fair ✓ Poor
Pot. For Damage: Low Med ✓ High
HA Appears: Roof

Sample #: B-02C **Friable:** Yes No ✓
Mat'l Desc.: Same as B-02A
Sample Location: SW corner of roof
Condition: Good Fair ✓ Poor
Pot. For Damage: Low Med ✓ High
HA Appears: Roof

BULK SAMPLE LOG

Project Name: Vacant VFW @ 24521 Colmar Ave
Project #: 6380-09-0731.16

Survey Crew: RT
Date: 4/11/10

2 ft

Sample #: B-03A **Friable:** ✓ Yes No
Mat'l Desc.: Window glaze
Sample Location: N. small window - W. wall
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: 2 small windows on W. wall

Sample #: B-03B **Friable:** ✓ Yes No
Mat'l Desc.: Window glaze
Sample Location: S. small window - W. wall
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: same as B-03A

Approx 20 fire hoses rolled - unknown length

Sample #: B-04A **Friable:** Yes No ✓
Mat'l Desc.: Fire hoses - white woven material
Sample Location: debris pile - along N.W. corner of bldg
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears:

Sample #: B-04B **Friable:** Yes No ✓
Mat'l Desc.: same as B-04A
Sample Location: same as B-04A
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: same as B-04A

7x14 + 10 ft

Sample #: B-05A **Friable:** Yes No ✓
Mat'l Desc.: Stucco
Sample Location: Ext. wall - N. under E. window
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: Stucco limited to N. wall (east) side and E. wall (N. end). Not on all block ext. wall

Sample #: B-05B **Friable:** Yes No ✓
Mat'l Desc.: Stucco
Sample Location: same as B-05A
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: same as B-05A

BULK SAMPLE LOG

Project Name: Vacant VFW @ 24521 Colmar Ave
Project #: 6380-09-0731.16

Survey Crew: RT
Date: 4/11/16

48' x 24

Sample #: B-05C **Friable:** Yes No ✓
Mat'l Desc.: Stucco
Sample Location: Same as B-05A
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: Same as B-05A

Sample #: B-6A **Friable:** ✓ Yes No
Mat'l Desc.: 2'x2' directional ceiling tile
Sample Location: E. end of bldg
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: Main CT - T/O building

Sample #: B-6B **Friable:** ✓ Yes No
Mat'l Desc.: (Same as B-6A)
Sample Location: Center area of bldg
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: Same as B-6A

Sample #: B-6C **Friable:** ✓ Yes No
Mat'l Desc.: (Same as B-6A
Sample Location: West end of bldg
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: Same as B-6A

40 x 65

Sample #: B-7A **Friable:** Yes No ✓
Mat'l Desc.: Original DW ceiling w/texture
Sample Location: ~~end~~ W. end by kitchen
Condition: Good Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: above suspended ceiling tiles

Sample #: B-7B **Friable:** Yes No
Mat'l Desc.: Same as B-7A
Sample Location: E. end by food & game storage
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: Same as B-7A

BULK SAMPLE LOG 341002736

Project Name: Vacant VFW @ 24521 Colmar Ave
Project #: 6380-09-0731.16

Survey Crew: RT
Date: 4/11/10

Sample #: B-7C **Friable:** Yes No ✓
Mat'l Desc.: Same as B-7A
Sample Location: Center of bldg
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: Same as B-7A

20 LF

Sample #: B-8A **Friable:** Yes No ✓
Mat'l Desc.: Black mastic seams on fiberglass HVAC duct insulation
Sample Location: E end - by grame + food Storge
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: above suspended ceiling tiles

Sample #: B-8B **Friable:** Yes No ✓
Mat'l Desc.: Same as B-8A
Sample Location: W. end by kitchen
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: Same as B-8A

16 ft

Sample #: B-9A **Friable:** ✓ Yes No
Mat'l Desc.: 2'x2' gouges, ceiling tiles with pinhole
Sample Location: outside of men's bathroom
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: by men's bathroom

72 ft

Sample #: B-9B **Friable:** ✓ Yes No
Mat'l Desc.:
Sample Location: ~~outsid~~ rear storage room (SE corner)
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: rear storge Rm (SE corner)

160 ft

Sample #: B-10A **Friable:** Yes No ✓
Mat'l Desc.: ~~FS~~ yellow floor tile adhesive (remnants of adhesive - floor tile remov
Sample Location:
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: center of ~~bldg~~ building - in front of rear exit

B-10B
(Same as B-10A)

BULK SAMPLE LOG 341002736 pg 5 of 8

Project Name: Vacant VFW - 24521 Colmar Ave
Project #: 6380-09-0731.16

Survey Crew: RT
Date: 4/11/10

4 LF

Sample #: B-11A **Friable:** Yes No ✓
Mat'l Desc.: Window caulk around air conditioner
Sample Location: N. (front) wall - W. of entry
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears:

Sample #: B-11B **Friable:** Yes No
Mat'l Desc.: same as B-11A
Sample Location:
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: same as B-11A

Sample #: B-12A **Friable:** Yes No ✓
Mat'l Desc.: Lt. blue Sink undercoat mastic
Sample Location: Kitchen sink - Right
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: double kitchen sink undercoat

6 LF

Sample #: B-12B **Friable:** Yes No
Mat'l Desc.: Same as B-12A
Sample Location: Kitchen sink - left
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: double kitchen sink undercoat

16 + 12 + 6 + 15 = 50 LF

Sample #: B-13A + 13B **Friable:** Yes No ✓
Mat'l Desc.: White formica counter w/ adhesive
Sample Location: B-13A food distribution counter / B-13B kitchen sink counter
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: same as B-13A

8 LF

Sample #: B-13C **Friable:** Yes No
Mat'l Desc.: Lt Green swirl formica counter w/ adhesive
Sample Location: counter top by rear exit (S. wall)
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: same as B-13A

BULK SAMPLE LOG 3410027360 Pg 6 of 8

Project Name: Vacant VFW @ 24521 Colmar Ave
Project #: 6380-09-0731.16

Survey Crew: RT
Date: 4/4/10

40 x 65

22 ft

22 ft

Sample #: B-14A **Friable:** Yes No ✓
Mat'l Desc.: Concrete Slab
Sample Location: N/center floor
Condition: Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears:

Sample #: B-14B **Friable:** Yes No
Mat'l Desc.: Same as B-14A
Sample Location: S/center floor
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: Same as B-14A

Sample #: B-14C **Friable:** Yes No
Mat'l Desc.:
Sample Location: NW area of floor
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: Same as B-14A

Sample #: B-15A **Friable:** Yes No ✓
Mat'l Desc.: ~~by floor drain~~ 12"x12" white pebble style floor tile w/ adhesive
Sample Location: Ladies Restroom by floor drain
Condition: ✓ Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears:

Sample #: B-15B **Friable:** Yes No ✓
Mat'l Desc.: same as B-15A
Sample Location: by ~~floor~~ bathroom door
Condition: Good Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: Ladies restroom

Sample #: B-16A **Friable:** Yes No
Mat'l Desc.: 12"x12" Khaki Green rounded diamond style floor tile w/ adhesive
Sample Location: by floor drain
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: Ladies restroom

B-16B
(same as B-16A) by bathroom door

BULK SAMPLE LOG 341002736 pg 7 of 8

Project Name: Vacant VFW @ 24521 Colmar Ave
Project #: 6380-09-0731.16
Survey Crew: RT
Date: 4/11/10

10 ft

Sample #: B-17A **Friable:** Yes No ✓
Mat'l Desc.: 12"x12" white w/ diamond scroll pattern w/ adhesive
Sample Location: men's bathroom
Condition: Good ✓ Fair Poor
Pot. For Damage: ✓ Low Med High
HA Appears: Men's bathroom - center

Sample #: B-17B **Friable:** Yes No
Mat'l Desc.: ~~12~~ same as B-17A
Sample Location: men's bathroom
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: men's bathroom - center

20 ft

Sample #: B-18A **Friable:** Yes No ✓
Mat'l Desc.: 12"x12" dk red rounded diamond pattern floor tile w/ adhesive
Sample Location: by drain
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears:

Sample #: B-18B **Friable:** Yes No ✓
Mat'l Desc.: same as B-18A
Sample Location: by door
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: same as B-18A

10 ft

Sample #: B-19A **Friable:** Yes No ✓
Mat'l Desc.: 12"x12" Light green w/ small dk green + white streaks w/ adhesive
Sample Location: by drain
Condition: Good ✓ Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: men's bathroom

Sample #: B-19B **Friable:** Yes No
Mat'l Desc.: same as B-19A
Sample Location: by door
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: same as B-19A

341002736

BULK SAMPLE LOG 341002736 PJ 8 of 8

Project Name: Vacant VFW @ 24521 Colmar Ave
Project #: 6380-07-0731.16

Survey Crew: RT
Date: 4/11/10

200 ft

Sample #: B-20A **Friable:** ✓ Yes No
Mat'l Desc.: Joint compound on old wood panels located under newer wood panels
Sample Location: bottom of wall, near floor
Condition: Good Fair ✓ Poor
Pot. For Damage: ✓ Low Med High
HA Appears: - N. wall - under top layer of wood panels

Sample #: B-20B **Friable:** Yes No
Mat'l Desc.: same as B-20A
Sample Location: center of wall
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: same as B-20A

Sample #: B-20C **Friable:** Yes No
Mat'l Desc.: same as B-20A
Sample Location: upper portion of wall
Condition: ✓ Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: same as B-20A

65x4

Sample #: B-21A **Friable:** Yes No ✓
Mat'l Desc.: Lt Brown adhesive
Sample Location: S. Wall - behind wood panelling - E. of Rear door
Condition: Good Fair Poor
Pot. For Damage: Low ✓ Med High
HA Appears: behind top layer of wood panelling on S. Wa

Sample #: B-21B **Friable:** Yes No ✓
Mat'l Desc.: same as B-21A
Sample Location:
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: same as B-21A

Sample #: **Friable:** Yes No
Mat'l Desc.:
Sample Location:
Condition: Good Fair Poor
Pot. For Damage: Low Med High
HA Appears: