



# **ASBESTOS CONTAINING BUILDING MATERIAL REPORT BUILDING 23**

**Bay Pines VA Medical Center  
10000 Bay Pines Boulevard  
Bay Pines, Florida**

Project No. 2009011.001

July 31, 2009



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## ACKNOWLEDGMENT

This Asbestos Building Survey/Analytical Report was prepared for the Department of Veteran Affairs Medical Center, Bay Pines, Florida in anticipation of potential future building renovations and in accordance with an established scope of work as defined in Contract Number VA248-P-1114. The information presented herein is based on the facts and information conveyed to or received by M&A during the preparation of this report. If any of the information provided to M&A that was used in preparing this plan is incorrect, incomplete, or subject to change, M&A would wish to alter its opinion(s) accordingly. In addition, the professional opinions and information contained in this report are based solely on the requirements of the applicable regulations and technical data as known to M&A as of the date of this report and considered applicable to this report.

This report was prepared by the following Mabbett & Associates, Inc. personnel:



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BY:



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## 1.0 INTRODUCTION & EXECUTIVE SUMMARY

Mabbett and Associates, Inc. (M&A) with ECS Florida, LLC (ECS) as a sub-contractor performed a pre-renovation asbestos-containing materials (ACM) inspection survey of the VA Medical Center located at 10000 Bay Pines Boulevard, Bay Pines, Florida under contract VA248-P-1114. Site survey work was performed during June and July, 2009, by appropriately credentialed personnel as required. There were 125 samples collected during the course of the survey phase. Samples collected were analyzed by a certified laboratory for asbestos content by polarized light microscopy (PLM) using stop positive methodology. Materials consisting of multiple layers were analyzed separately. The results of the survey indicated the presence of asbestos in the building.

This building report consists of a summary of findings, floor plans indicating sample locations and findings information, detailed analytical findings for the specific surveyed building, photos of identified ACM positive homogenous samples; and Appendices/Back-up Data, including laboratory results and field data sheets.

## 2.0 BUILDING DESCRIPTION

According to information provided by VAMC Bay Pines and observations made during the field survey, Building 23 was a 2-story Clinical Support building built in 1976-1977. Building 23 was approximately 38,174 square feet (ft<sup>2</sup>).

## 3.0 SAMPLING METHODOLOGY

Samples of suspected ACM including floor tile, mastic, plaster, etc. were collected from accessible building locations according to the scope of work, Pinellas County Code Chapter 58, National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 and other applicable state and Federal guidelines. Bulk material sampling was conducted according to the following sampling plan:

a) Surfacing material:

- (1) At least three bulk samples shall be collected from each homogeneous area that is 1,000 ft<sup>2</sup> or less.
- (2) At least five bulk samples shall be collected from each homogeneous area that is greater than 1,000 ft<sup>2</sup> but less than or equal to 5,000 ft<sup>2</sup>.
- (3) At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft<sup>2</sup>.

(b) Thermal system insulation:

- (1) At least three bulk samples from each homogeneous area of thermal system insulation
- (2) At least one bulk sample from each homogeneous area of patched area of thermal system insulation.
- (3) Sufficient samples from elbows and fittings to determine if it contains ACM.
- (4) Bulk samples were not collected from any homogeneous area where the accredited inspector determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACBM.

(c) Miscellaneous material:

- (1) At least one bulk sample shall be collected from each homogeneous area that is less than 100 ft<sup>2</sup>
- (2) At least three bulk samples shall be collected from each homogeneous area that is greater than 100 ft<sup>2</sup>

A visual screening inspection was conducted by Florida Licensed Asbestos Inspectors throughout the entire Building 23 to determine the locations of suspect ACM. Only areas that were accessible during the field work phase were inspected. Many offices, patient care areas, and other sensitive areas were not accessible by the survey teams. Any suspect ACM that may be present within the walls, above inaccessible hard ceilings, or in other inaccessible locations, that was not inspected should be assumed to contain asbestos if discovered during any renovation process or until otherwise verified.

#### **4.0 ANALYTICAL METHODOLOGY**

The bulk asbestos samples collected including available layers were analyzed by polarized light microscopy (PLM). Sampling results are summarized in the enclosed Building Results Table. The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. Note: when one sample of a homogeneous area is positive, the remainder of the samples was not analyzed because the entire homogeneous area is considered positive, as indicated on the results tables and drawings.

NESHAP requires that if the asbestos content of friable ACM is less than 10%, as determined by a method other than point counting by PLM, verify the asbestos content by point counting using PLM.

Samples were submitted to EMSL Analytical, Inc., of Atlanta, GA and Beltsville, MD for PLM analysis of bulk materials via EPA 600/R-93/116 Method. PLM analysis was conducted in conjunction with dispersion staining as outlined by 40 CFR 63, Subpart F dated January 1987. EMSL Analytical is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP License 101151-0). Copies of the laboratory accreditations are included in Appendix A.

For purposes of this report and consistent with county and Federal regulations, asbestos containing materials are any materials containing more than one percent (1%) asbestos as determined by PLM.

#### **5.0 SUMMARY OF ASBESTOS CONTAINING MATERIALS (ACM) FINDINGS**

A table with all available sample results for this building is enclosed with a summary of positive sample locations below. Where a sample was found positive, a representative photo of the material is provided in the Photos section of this report. Analytical results and Inspector Field Notes are provided in Appendix A and Appendix B respectively.

The CADD drawing for this building shows approximate asbestos sample locations and shortened sample numbers. The floor plan legend shows positive sample numbers and associated positive (stop positives) in blue on the drawing. Building areas containing ACM are shown on the drawing in red with markings to indicate the kind of material (e.g., floor title).

## Summary of Positive ACM Samples

Sample#	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Condition	Estimated Quantity	NESHAP Category
1 Tile	Hallway	Hallways, Offices 2 <sup>nd</sup> Floor	12" x 12" White Tan Floor Tile	8% Chrysotile	Good	14,600 SF	I
1 Mastic	Hallway	Hallways, Offices 2 <sup>nd</sup> Floor	Black Mastic	2% Chrysotile	Good	14,600 SF	I
37 Tile	Room 218	Room 218	12" x 12" Grey Floor Tile	10% Chrysotile	Good	30 SF	I
37 Mastic	Room 218	Room 218	Black Mastic	3% Chrysotile	Good	30 SF	I
62 Tile	1 <sup>st</sup> Floor Lobby	1 <sup>st</sup> Floor Hallway	2' x 2' White/Grey Floor Tile	10% Chrysotile	Good	2,600 SF	I
62 Mastic	1 <sup>st</sup> Floor Lobby	1 <sup>st</sup> Floor Hallway	Black Mastic	2% Chrysotile	Good	2,600 SF	I
89 Tile	Room 117/115F	Room 117/115F	12" x 12" White Black Floor Tile/Black Mastic	7% Chrysotile	Good	200 SF	I
89 Mastic	Room 117/115F	Room 117/115F	Black Mastic	2% Chrysotile	Good	200 SF	I
92	Basement	Basement	Brown Duct Mastic	6% Chrysotile	Good	150 SF	I

SF – Square Feet

LF – Linear Feet

Category I – non-friable asbestos-containing material (ACM) – means asbestos-containing packings, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR part 763, Section 1, Polarized Light Microscopy.

Category II – non-friable ACM – means any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos as determined using the methods specified in Appendix A, Subpart F, 40 CFR part 763, Section I, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Friable asbestos material – means any material containing more than 1 percent asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR part 763 Section I, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

## **6.0 LIMITATIONS**

This inspection report is the result of a diligent search of the building for asbestos containing building materials. The purpose of this inspection was to identify ACM. Only materials that were accessible were sampled and submitted to the laboratory for asbestos analysis. However comprehensive this inspection appears, it does not claim to have identified all of the asbestos-containing materials present in the facility. M&A's evaluation was performed with limitations inherent to visual inspections. M&A has conducted this assessment with reasonable care and has performed this study within general industry standards. As with any study of this nature, limitations are inherent. There can be no assurances, and M&A makes no assurances, that the said information, research, and technology may not change in the future, thus affecting the services provided. M&A understands that you will be the sole recipient of our report and will not distribute the report to any other party without prior written approval.

## **7.0 CLOSING REMARKS**

The VAMC should assume materials not previously sampled due to accessibility, etc. which will be impacted by any future renovation activities to be asbestos-containing materials unless proved otherwise. Only Florida Licensed Asbestos Consultants can state that a building material is presumed to be asbestos-containing. If asbestos-containing materials must be disturbed as a part of the renovations, all ACMs must be removed by a State of Florida licensed asbestos abatement contractor. If proposed renovations will not disturb asbestos-containing materials, continuous monitoring of ACMs should be conducted throughout renovation activities to ensure the ACMs remain in an intact condition. Additionally, prior to commencing renovations, all contractors involved with the renovations should be made aware of the location and quantity of ACM within the building in which they will be working.

If any asbestos-containing material is damaged or becomes damaged it should be repaired, if possible, or removed entirely.

Prior to initiating any renovation or demolition project, Federal Law requires that the local EPA representative's office be notified in writing at least 10 working days prior to the onset of the project. The State Asbestos Coordinator's Office also requires a copy of the notification (address to State Asbestos Coordinator, State of Florida Environmental Regulation, 2600 Blare Stone Road, Tallahassee, Florida 32399-2400).

## **TABLE**

Asbestos Screening Results  
VA Medical Center - Bay Pines, FL

Building 23

Sample #	Room #	Area Designation	Description of Material	Asbestos % Type	Estimated Quantity	Location	Condition	NESHAP Category
23SJM 1 Tile	C2	Hallway/Offices 2nd floor	12" x 12" White Tan Floor Tile	8% Chrysotile	14,600 Square Feet	Throughout Building	Good	I
23SJM 1 Mastic	C2	Hallway/Offices 2nd floor	Black Mastic	2% Chrysotile	14,600 Square Feet	Throughout Building	Good	I
23SJM 2	C2	Hallway/Offices 2nd floor	12" x 12" White Tan Floor Tile/Black Mastic	stop positive	14,600 Square Feet	Throughout Building	Good	I
23SJM 3	C2	Hallway/Offices 2nd floor	12" x 12" White Tan Floor Tile/Black Mastic	stop positive	14,600 Square Feet	Throughout Building	Good	I
23SJM 4 Tile	233	Office	12" x 12" White Tan Floor Tile	NAD				
23SJM 5 Tile	233	Office	12" x 12" White Tan Floor Tile	NAD				
23SJM 6 Tile	233	Office	12" x 12" White Tan Floor Tile	NAD				
23SJM 4 Mastic	233	Office	Brown Mastic	NAD				
23SJM 5 Mastic	233	Office	Brown Mastic	NAD				
23SJM 6 Mastic	233	Office	Brown Mastic	NAD				
23SJM 7	201	Hallway	Baseboard Mastic	NAD				
23SJM 8	201	Hallway	Baseboard Mastic	NAD				
23SJM 9	201	Hallway	Baseboard Mastic	NAD				
23SJM 10	C2	Hallway	White Pipe Insulation Wrap	NAD				
23SJM 11	C2	Hallway	White Pipe Insulation Wrap	NAD				
23SJM 12	C2	Hallway	White Pipe Insulation Wrap	NAD				
23SJM 13	209		Carpet Mastic	NAD				
23SJM 14	209		Carpet Mastic	NAD				
23SJM 15	209		Carpet Mastic	NAD				
23SJM 16 Tile	228		12" x 12" Brown Floor Tile	NAD				
23SJM 17 Tile	228		12" x 12" Brown Floor Tile	NAD				
23SJM 18 Tile	228		12" x 12" Brown Floor Tile	NAD				
23SJM 16 Mastic	228		Brown Mastic	NAD				
23SJM 17 Mastic	228		Brown Mastic	NAD				
23SJM 18 Mastic	228		Brown Mastic	NAD				
23SJM 19	218		2x4 Pinhole Textured Ceiling Tiles	NAD				
23SJM 20	218		2x4 Pinhole Textured Ceiling Tiles	NAD				
23SJM 21	218		2x4 Pinhole Textured Ceiling Tiles	NAD				
23SJM 22	C2	Hallway	White Firestop	NAD				
23SJM 23	C2	Hallway	White Firestop	NAD				
23SJM 24	233		White Firestop	NAD				
23SJM 25 Joint	C2	Hallway	Joint Compound	<0.25% Chrysotile <sup>(c,d)</sup>				
23SJM 26 Joint	C2	Hallway	Joint Compound	<0.25% Chrysotile <sup>(c,d)</sup>				
23SJM 27 Joint	C2	Hallway	Joint Compound	<0.25% Chrysotile <sup>(c,d)</sup>				
23SJM 25 Drywall	C2	Hallway	Sheetrock	NAD				
23SJM 26 Drywall	C2	Hallway	Sheetrock	NAD				
23SJM 27 Drywall	C2	Hallway	Sheetrock	NAD				
23SJM 28	C2	Above Ceiling Hallway	White Pipe Insulation Wrap	NAD				
23SJM 29	C2	Above Ceiling Hallway	White Pipe Insulation Wrap	NAD				
23SJM 30	C2	Above Ceiling Hallway	White Pipe Insulation Wrap	NAD				
23SJM 31	C2	Hallway	Pinhole Fissure 2x4 Ceiling Tile	NAD				
23SJM 32	C2	Hallway	Pinhole Fissure 2x4 Ceiling Tile	NAD				
23SJM 33	C2	Hallway	Pinhole Fissure 2x4 Ceiling Tile	NAD				
23SJM 34	209		2x4 Ceiling Tile Pinholes White	NAD				
23SJM 35	209		2x4 Ceiling Tile Pinholes White	NAD				
23SJM 36	209		2x4 Ceiling Tile Pinholes White	NAD				
23SJM 37 Tile	218		12" x 12" Grey Floor Tile	10% Chrysotile	30 Square Feet	Room 218	Good	I
23SJM 37 Mastic	218		Black Mastic	3% Chrysotile	30 Square Feet	Room 218	Good	I
23SJM 38	218		12" x 12" Grey Floor Tile/Black Mastic	stop positive	30 Square Feet	Room 218	Good	I
23SJM 39	218		12" x 12" Grey Floor Tile/Black Mastic	stop positive	30 Square Feet	Room 218	Good	I
23SJM 40	210		Grey Duct Mastic	NAD				
23SJM 41	210		Grey Duct Mastic	NAD				

Asbestos Screening Results  
VA Medical Center - Bay Pines, FL

Building 23

Sample #	Room #	Area Designation	Description of Material	Asbestos % Type	Estimated Quantity	Location	Condition	NESHAP Category
23SJM 42	210		Grey Duct Mastic	NAD				
23SJM 43	210		2x4 Large Pinhole Ceiling Tile	NAD				
23SJM 44	210		2x4 Large Pinhole Ceiling Tile	NAD				
23SJM 45	233		2x4 Large Pinhole Ceiling Tile	NAD				
23SJM 47	219	Duct Space	Green Board	NAD				
23SJM 48	219	Duct Space	Green Board	NAD				
23SJM 49	219	Duct Space	Green Board	NAD				
23SJM 50 Tile		2nd Floor Connecting Hall	12" x 12" White Floor Tile	NAD				
23SJM 51 Tile		2nd Floor Connecting Hall	12" x 12" White Floor Tile	NAD				
23SJM 52 Tile		2nd Floor Connecting Hall	12" x 12" White Floor Tile	NAD				
23SJM 50 Mastic		2nd Floor Connecting Hall	Brown Mastic	NAD				
23SJM 51 Mastic		2nd Floor Connecting Hall	Brown Mastic	NAD				
23SJM 52 Mastic		2nd Floor Connecting Hall	Brown Mastic	NAD				
23SJM 53		2nd Floor Connecting Hall	Baseboard Mastic	NAD				
23SJM 54		2nd Floor Connecting Hall	Baseboard Mastic	NAD				
23SJM 55		2nd Floor Connecting Hall	Baseboard Mastic	NAD				
23SJM 56		2nd Floor Connecting Hall	2x2 Pinhole Fissure White Ceiling Tile	NAD				
23SJM 57		2nd Floor Connecting Hall	2x2 Pinhole Fissure White Ceiling Tile	NAD				
23SJM 58		2nd Floor Connecting Hall	2x2 Pinhole Fissure White Ceiling Tile	NAD				
23SJM 59		2nd Floor Connecting Hall	Sheetrock	NAD				
23SJM 60		2nd Floor Connecting Hall	Sheetrock	NAD				
23SJM 61		2nd Floor Connecting Hall	Sheetrock	NAD				
23SJM 62 Tile	100	First Floor Lobby	2' x 2' White/Grey Floor Tile	10% Chrysotile	2,600 Square Feet	Lobby	Good	I
23SJM 62 Mastic	100	First Floor Lobby	Black Mastic	2% Chrysotile	2,600 Square Feet	Lobby	Good	I
23SJM 63	100	First Floor Lobby	2' x 2' White/Grey Floor Tile	stop positive	2,600 Square Feet	Lobby	Good	I
23SJM 64		First Floor Hallway	2' x 2' White/Grey Floor Tile	stop positive	2,600 Square Feet	Lobby	Good	I
23SJM 65		First Floor Hallway	Blue Firestop	NAD				
23SJM 66		First Floor Hallway	Blue Firestop	NAD				
23SJM 67		First Floor Hallway	Blue Firestop	NAD				
23SJM 68		First Floor Hallway	Mastic Behind Plastic Wall Board	NAD				
23SJM 69		First Floor Hallway	Mastic Behind Plastic Wall Board	NAD				
23SJM 70		First Floor Hallway	Mastic Behind Plastic Wall Board	NAD				
23SJM 71		First Floor Hallway	Off White Duct Mastic	NAD				
23SJM 72		First Floor Hallway	Off White Duct Mastic	NAD				
23SJM 73		First Floor Hallway	Off White Duct Mastic	NAD				
23SJM 74		First Floor Hallway	Red Flexible Firestop	NAD				
23SJM 75		First Floor Hallway	Red Flexible Firestop	NAD				
23SJM 76		First Floor Hallway	Red Flexible Firestop	NAD				
23SJM 77		First Floor Hallway	White Plaster Firestop	NAD				
23SJM 78		First Floor Hallway	White Plaster Firestop	NAD				
23SJM 79		First Floor Hallway	White Plaster Firestop	NAD				
23SJM 80	145		Leveling Compound	NAD				
23SJM 81	145		Leveling Compound	NAD				
23SJM 82	145		Leveling Compound	NAD				
23SJM 83	147		Terrazzo Floor and Baseboard	NAD				
23SJM 84	147		Terrazzo Floor and Baseboard	NAD				
23SJM 85	147		Terrazzo Floor and Baseboard	NAD				
23SJM 86		First Floor Hallway	Tan Wall Caulk	NAD				
23SJM 87		First Floor Hallway	Tan Wall Caulk	NAD				
23SJM 88		First Floor Hallway	Tan Wall Caulk	NAD				
23SJM 89 Tile	117/115F		12" x 12" White Black Floor Tile/Black Mastic	7% Chrysotile	200 Square Feet	Room 117/115F	Good	I
23SJM 89 Mastic	117/115F		Black Mastic	2% Chrysotile	200 Square Feet	Room 117/115F	Good	I

Asbestos Screening Results  
VA Medical Center - Bay Pines, FL

Building 23

<u>Sample #</u>	<u>Room #</u>	<u>Area Designation</u>	<u>Description of Material</u>	<u>Asbestos % Type</u>	<u>Estimated Quantity</u>	<u>Location</u>	<u>Condition</u>	<u>NESHAP Category</u>
23SJM 90	117/115F		12" White Black Floor Tile/Black Mastic	stop positive	200 Square Feet	Room 117/115F	Good	I
23SJM 91	117/115F		12" White Black Floor Tile/Black Mastic	stop positive	200 Square Feet	Room 117/115F	Good	I
23SJM 92		Basement	Brown Duct Mastic	6% Chrysotile	150 Square Feet	Basement	Good	I
23SJM 93		Basement	Brown Duct Mastic	stop positive	150 Square Feet	Basement	Good	I
23SJM 94		Basement	Brown Duct Mastic	stop positive	150 Square Feet	Basement	Good	I
23SJM 95		Exterior	Exterior Stucco	NAD				
23SJM 96		Exterior	Exterior Stucco	NAD				
23SJM 97		Exterior	Exterior Stucco	NAD				
23SJM 98		Exterior	Exterior Stucco	NAD				
23SJM 99		Exterior	Exterior Stucco	NAD				
23SJM 100		Exterior	Exterior Stucco	NAD				
23SJM 101		Exterior	Exterior Stucco	NAD				
23SRG 1		Roof	Membrane	NAD				
23SRG 2		Roof	Membrane	NAD				
23SRG 3		Roof	Membrane	N/A				
23SRG 4		Roof	Flashing	NAD				
23SRG 5		Roof	Flashing	NAD				
23SRG 6		Roof	Flashing	NAD				
23SRG 7		Roof	Pitch Pocket	NAD				
23SRG 8		Roof	Pitch Pocket	NAD				
23SRG 9		Roof	Pitch Pocket	NAD				

NOTES:

- a The asbestos concentration, reported as a percentage, represents analysis using polarized light microscopy (PLM), unless otherwise noted.
- b Sample contained > 1% asbestos based on PLM analysis. However, no asbestos detected using EPA Method 600/R-93/116 and quantitation using 400-point count method.
- c The asbestos concentration, reported as a percentage, represents analysis using EPA Method 600/R-93/116 and quantitation using 400-point count methodology.
- d Samples 23-SJM-25, 26, and 27 joint contained <1% chrysotile asbestos based on PLM analysis.
- Red Text Represents a sample and its respective homogeneous group ("stop positive") that is positive for asbestos.
- NAD No asbestos detected.
- N/A Analysis not applicable.

## **PHOTOS**



**Building 23**  
**Sample 1 Tile – 12" x 12" White Tan Floor Tile and Mastic**



**Building 23**  
**Sample 37 Tile - 12" x 12" Grey Floor Tile and Mastic**



**Building 23**  
**Sample 62 Tile - 2' x 2' White/Grey Floor Tile and Mastic**



**Building 23**  
**Sample 89 Tile - 12" x 12" White Black Floor Tile/Black Mastic**



**Building 23**  
**Sample 92 – Brown Duct Mastic**

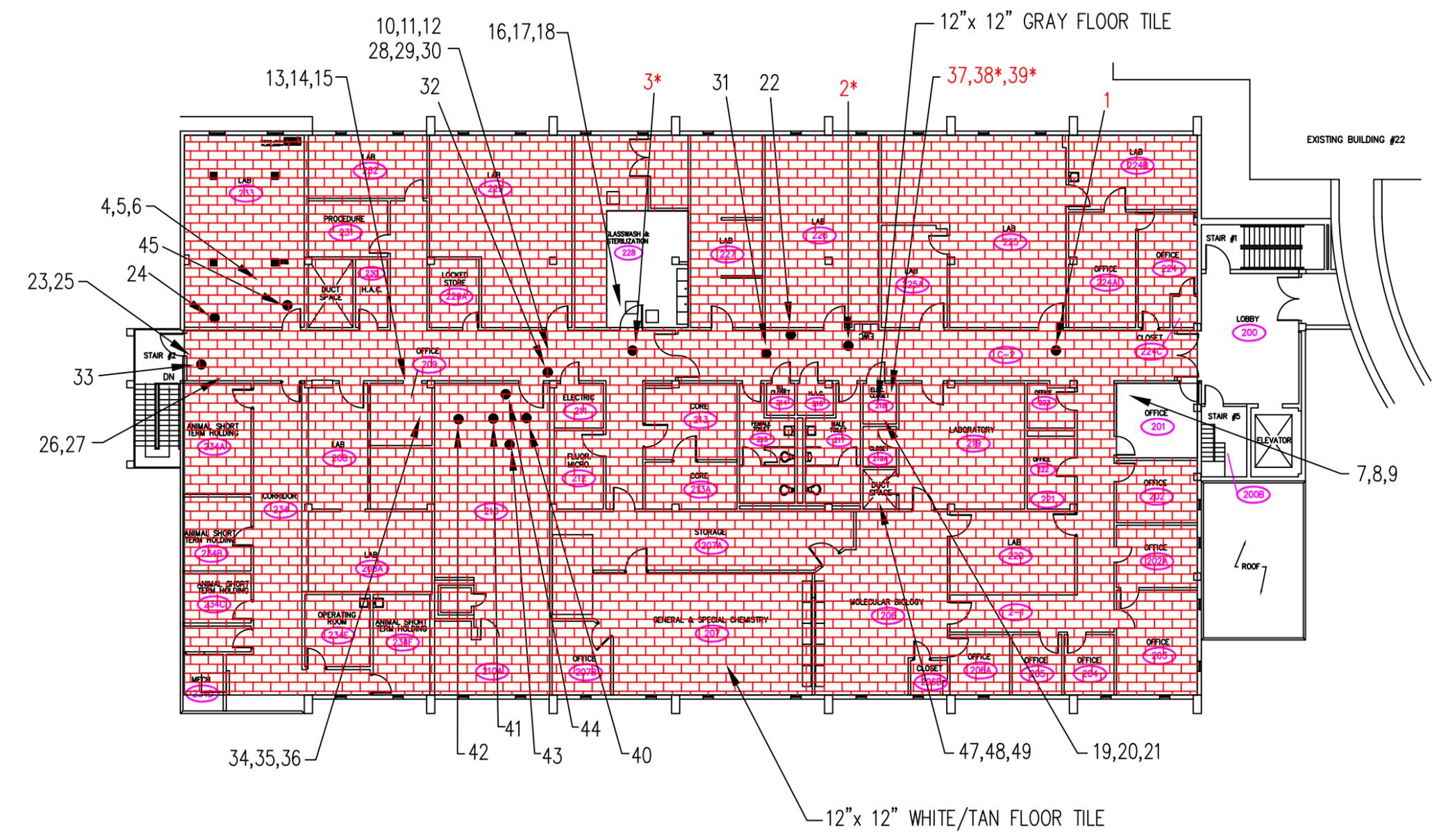


**Building 23**  
**Sample 25 - Joint Compound**

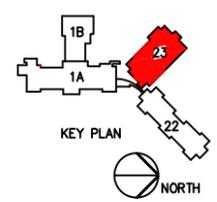
## **DRAWINGS**



A three inches = one foot  
 B One and one-half inches = one foot  
 C one inch = one foot  
 D three-quarters inch = one foot  
 E one-half inch = one foot  
 F three-eighths inch = one foot  
 G one-quarter inch = one foot  
 H one-eighth inch = one foot



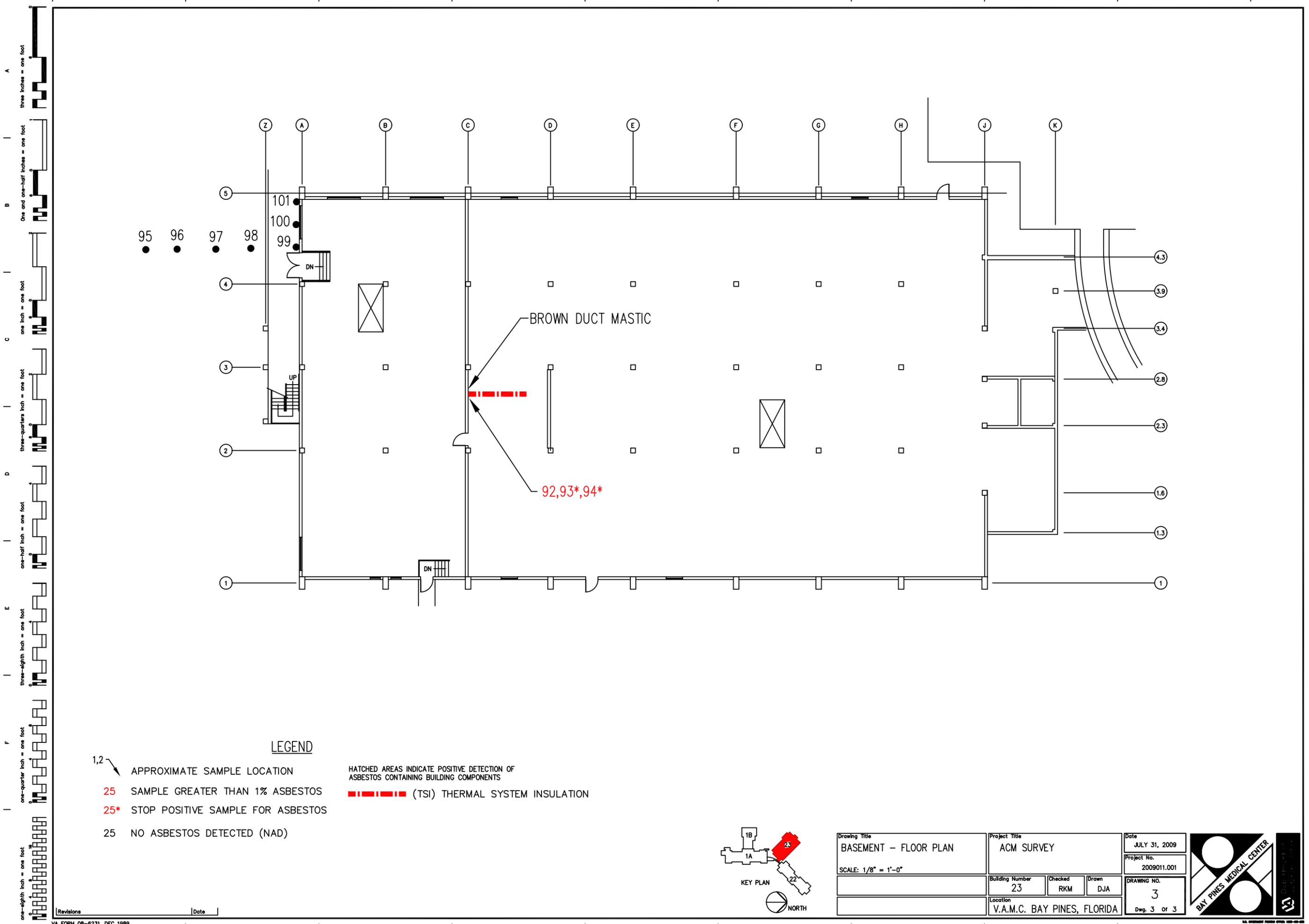
- LEGEND**
- 1,2 APPROXIMATE SAMPLE LOCATION
  - 25 SAMPLE GREATER THAN 1% ASBESTOS
  - 25\* STOP POSITIVE SAMPLE FOR ASBESTOS
  - 25 NO ASBESTOS DETECTED (NAD)
  - HATCHED AREAS INDICATE POSITIVE DETECTION OF ASBESTOS CONTAINING BUILDING COMPONENTS
  - 12"x12" FLOOR TILE



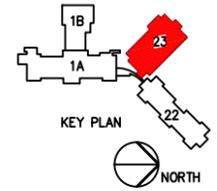
Drawing Title SECOND FLOOR PLAN	Project Title ACM SURVEY	Date JULY 31, 2009
SCALE: 1/8" = 1'-0"	Building Number 23	Project No. 2009011.001
	Checked RKM	Drawn DJA
	Location V.A.M.C. BAY PINES, FLORIDA	DRAWING NO. 2
		Dwg. 2 of 3



MAKI, ROOM 233 TO AS-BUILT, DOOR 229A | 12-5-96 | Date  
 Revisions



- LEGEND**
- 1,2 APPROXIMATE SAMPLE LOCATION
  - 25 SAMPLE GREATER THAN 1% ASBESTOS
  - 25\* STOP POSITIVE SAMPLE FOR ASBESTOS
  - 25 NO ASBESTOS DETECTED (NAD)
  - HATCHED AREAS INDICATE POSITIVE DETECTION OF ASBESTOS CONTAINING BUILDING COMPONENTS
  - (TSI) THERMAL SYSTEM INSULATION



Drawing Title BASEMENT - FLOOR PLAN	Project Title ACM SURVEY	Date JULY 31, 2009
SCALE: 1/8" = 1'-0"	Building Number 23	Checked RKM
	Drawn DJA	Project No. 2009011.001
	Location V.A.M.C. BAY PINES, FLORIDA	DRAWING NO. 3
		Dwg. 3 of 3



**APPENDIX A**  
**LAB REPORTS**



EMSL Analytical, Inc

1800 Water Place, Suite 228, Atlanta, GA 30339

Phone: (770) 956-9150 Fax: (770) 956-9181 Email: atlantah@emsl.com

Attn: Jason Marberry
ECS, Ltd.
2815 Directors Row.Suite 500
Orlando, FL 32809

Customer ID: EC SL77
Customer PO: 24-3255
Received: 06/25/09 10:30 AM
EMSL Order: 070902492

Fax: (407) 859-9599 Phone: (407) 859-8378
Project: 24:3255/Bay Pines VA,23 Corridor

EMSL Proj:
Analysis Date: 6/30/2009

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples 23-SJM-1 tile, 23-SJM-1 mastic, 23-SJM-2, 23-SJM-3, 23-SJM-4 tile, 23-SJM-4 mastic, and 23-SJM-5 tile.

Analyst(s)

Anthony Sanaie (113)

Handwritten signature of Joe Centifonti

Joe Centifonti, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc Atlanta 1800 Water Place, Suite 228, Atlanta GA NVLAP Lab Code 101048-1



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Project: 24:3255/Bay Pines VA,23 Corridor

EMSL Proj:
Analysis Date: 6/30/2009

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples like 23-SJM-5 mastic, 23-SJM-6 tile, 23-SJM-6 mastic, 23-SJM-7, 23-SJM-8, 23-SJM-9, and 23-SJM-10.

Analyst(s)

Anthony Sanaie (113)

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Joe Centifonti, Laboratory Manager
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EMSL Proj:  
 Analysis Date: 6/30/2009

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

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
23-SJM-11 070902492-0011	Hallway-White Pipe Wrap Insulation	Brown Fibrous Homogeneous	20% Cellulose 20% Glass	60% Matrix	None Detected
23-SJM-12 070902492-0012	Hallway-White Pipe Wrap Insulation	Brown Fibrous Homogeneous	20% Cellulose 20% Glass	60% Matrix	None Detected
23-SJM-13 070902492-0013	Room 201-Carpet Mastic	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-14 070902492-0014	Room 201-Carpet Mastic	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-15 070902492-0015	Room 201-Carpet Mastic	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-16 tile 070902492-0016	Room 228-Brown FT W/Mastic	Brown Non-Fibrous Layers		100% Matrix	None Detected
23-SJM-16 mastic 070902492-0016A	Room 228-Brown FT W/Mastic	Brown Non-Fibrous Layers		100% Matrix	None Detected

Analyst(s)

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Contains 8 rows of sample analysis data.

Analyst(s)

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**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
23-SJM-22 070902492-0022	Hallway-White Firestop	White Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-23 070902492-0023	Hallway-White Firestop	White Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-24 070902492-0024	Hallway-White Firestop	White Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-25 joint compound 070902492-0025	Hallway Sheetrock	Brown Non-Fibrous Layers		100% Matrix	<1% Chrysotile
23-SJM-25 drywall 070902492-0025A	Hallway Sheetrock	Brown Non-Fibrous Layers	10% Cellulose	90% Matrix	None Detected
23-SJM-26 joint compound 070902492-0026	233 Sheetrock	Brown Non-Fibrous Layers		100% Matrix	<1% Chrysotile
23-SJM-26 drywall 070902492-0026A	233 Sheetrock	Brown Non-Fibrous Layers	10% Cellulose	90% Matrix	None Detected

Analyst(s)

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples 23-SJM-27, 23-SJM-28, 23-SJM-29, 23-SJM-30, 23-SJM-31, and 23-SJM-32.

Analyst(s)

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**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
23-SJM-33 070902492-0033	Pinhole Fissure 2x4 Ceiling Tile Hallway	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected
23-SJM-34 070902492-0034	2x4 Ceiling Tile Pinholes White Rm 209	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected
23-SJM-35 070902492-0035	2x4 Ceiling Tile Pinholes White Rm 209	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected
23-SJM-36 070902492-0036	2x4 Ceiling Tile Pinholes White Rm 209	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected
23-SJM-37 tile 070902492-0037	Grey 12x12 FT W/Mastic Rm 218	Brown Non-Fibrous Layers		90% Matrix	10% Chrysotile
23-SJM-37 mastic 070902492-0037A	Grey 12x12 FT W/Mastic Rm 218	Black Non-Fibrous Layers		97% Matrix	3% Chrysotile
23-SJM-38 070902492-0038	Grey 12x12 FT W/Mastic Rm 218				Stop Positive (Not Analyzed)

Analyst(s) \_\_\_\_\_

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**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
23-SJM-39 070902492-0039	Grey 12x12 FT W/Mastic Rm 218				Stop Positive (Not Analyzed)
23-SJM-40 070902492-0040	Grey Duct Mastic Room 210	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-41 070902492-0041	Grey Duct Mastic Room 210	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-42 070902492-0042	Grey Duct Mastic Room 210	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-43 070902492-0043	2x4 Large Pinhole Fissure	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected
23-SJM-44 070902492-0044	Ceiling Tile Rm 210 & 233	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected
23-SJM-45 070902492-0045	Ceiling Tile Rm 210 & 233	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected

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**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
23-SJM-46 070902492-0046	Ceiling Tile Rm 210 & 233				Not Submitted
23-SJM-47 070902492-0047	Green Board Duct Space Adj To Rm 219	Brown Fibrous Homogeneous	80% Cellulose	20% Matrix	None Detected
23-SJM-48 070902492-0048	Green Board Duct Space Adj To Rm 219	Brown Fibrous Homogeneous	80% Cellulose	20% Matrix	None Detected
23-SJM-49 070902492-0049	Green Board Duct Space Adj To Rm 219	Brown Fibrous Homogeneous	80% Cellulose	20% Matrix	None Detected
23-SJM-50 tile 070902492-0050	12x12 White Hall Tile	Brown Non-Fibrous Layers		100% Matrix	None Detected
23-SJM-50 mastic 070902492-0050A	12x12 White Hall Tile	Brown Non-Fibrous Layers		100% Matrix	None Detected
23-SJM-51 tile 070902492-0051	Connecting Hall 2nd Floor	Brown Non-Fibrous Layers		100% Matrix	None Detected

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

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
23-SJM-51 mastic 070902492-0051A	Connecting Hall 2nd Floor	Brown Non-Fibrous Layers		100% Matrix	None Detected
23-SJM-52 tile 070902492-0052	1st Floor	Brown Non-Fibrous Layers		100% Matrix	None Detected
23-SJM-52 mastic 070902492-0052A	1st Floor	Brown Non-Fibrous Layers		100% Matrix	None Detected
23-SJM-53 070902492-0053	Baseboard Mastic Connectors	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-54 070902492-0054	Hall 2nd Floor	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-55 070902492-0055	Hall 1st Floor	Brown Non-Fibrous Homogeneous		100% Matrix	None Detected
23-SJM-56 070902492-0056	2x2 Pinhole Fissure White	Brown Fibrous Homogeneous	40% Cellulose 20% Glass	40% Matrix	None Detected

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples 23-SJM-57 through 23-SJM-62 mastic.

Analyst(s)

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples 23-SJM-63 through 23-SJM-69 with various descriptions like Floor Tile Lobby, Blue Firestop, Hallway, and Mastic Behind Plastic Wallboard.

Analyst(s)

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Contains 8 rows of sample data.

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Attn: Jason Marberry
ECS, Ltd.
2815 Directors Row.Suite 500
Orlando, FL 32809

Customer ID: ECSSL77
Customer PO: 24-3255
Received: 06/25/09 10:30 AM
EMSL Order: 070902492

Fax: (407) 859-9599 Phone: (407) 859-8378
Project: 24:3255/Bay Pines VA,23 Corridor

EMSL Proj:
Analysis Date: 6/30/2009

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Rows include samples 23-SJM-84 through 23-SJM-89 mastic.

Analyst(s)

Anthony Sanaie (113)

Handwritten signature of Joe Centifonti

Joe Centifonti, 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.

Samples analyzed by EMSL Analytical, Inc Atlanta 1800 Water Place, Suite 228, Atlanta GA NVLAP Lab Code 101048-1



EMSL Analytical, Inc  
 1800 Water Place, Suite 228, Atlanta, GA 30339  
 Phone: (770) 956-9150 Fax: (770) 956-9181 Email: atlantalab@emsl.com

Attn: **Jason Marberry**  
**ECS, Ltd.**  
**2815 Directors Row.Suite 500**  
**Orlando, FL 32809**

Customer ID: EC5L77  
 Customer PO: 24-3255  
 Received: 06/25/09 10:30 AM  
 EMSL Order: 070902492

Fax: (407) 859-9599 Phone: (407) 859-8378  
 Project: 24:3255/Bay Pines VA,23 Corridor

EMSL Proj:  
 Analysis Date: 6/30/2009

### 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
23-SJM-90 070902492-0090	12x12 FT W/Mastic				Stop Positive (Not Analyzed)
23-SJM-91 070902492-0091	Floor Tile W/Mastic Rm 117 & 115E				Stop Positive (Not Analyzed)
23-SJM-92 070902492-0092	Mastic Ductwork Basement	Brown Non-Fibrous Homogeneous		94% Matrix	6% Chrysotile
23-SJM-93 070902492-0093	Mastic Ductwork Basement				Stop Positive (Not Analyzed)
23-SJM-94 070902492-0094	Mastic Ductwork Basement				Stop Positive (Not Analyzed)
23-SJM-95 skim 070902492-0095	Exterior Stucco	Yellow Non-Fibrous Layers		100% Matrix	None Detected
23-SJM-95 rough 070902492-0095A	Exterior Stucco	Brown Non-Fibrous Layers		100% Matrix	None Detected

Analyst(s)

Anthony Sanaie (113)

Joe Centifonti, Laboratory Manager  
 or other approved signatory

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Samples analyzed by EMSL Analytical, Inc Atlanta 1800 Water Place, Suite 228, Atlanta GA NVLAP Lab Code 101048-1



EMSL Analytical, Inc

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Phone: (770) 956-9150 Fax: (770) 956-9181 Email: atlantalab@emsl.com

Attn: Jason Marberry
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2815 Directors Row.Suite 500
Orlando, FL 32809

Customer ID: ECSL77
Customer PO: 24-3255
Received: 06/25/09 10:30 AM
EMSL Order: 070902492

Fax: (407) 859-9599 Phone: (407) 859-8378
Project: 24:3255/Bay Pines VA,23 Corridor

EMSL Proj:
Analysis Date: 6/30/2009

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Contains 8 rows of sample data.

Analyst(s)
Anthony Sanaie (113)

Signature of Joe Centifonti
Joe Centifonti, 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 Atlanta 1800 Water Place, Suite 228, Atlanta GA NVLAP Lab Code 101048-1



EMSL Analytical, Inc

1800 Water Place, Suite 228, Atlanta, GA 30339

Phone: (770) 956-9150 Fax: (770) 956-9181 Email: atlantialab@emsl.com

Attn: Jason Marberry
ECS, Ltd.
2815 Directors Row, Suite 500
Orlando, FL 32809

Customer ID: ECSL77
Customer PO: 24-3255
Received: 06/25/09 10:30 AM
EMSL Order: 070902492

Fax: (407) 859-9599 Phone: (407) 859-8378
Project: 24:3255/Bay Pines VA, 23 Corridor

EMSL Proj:
Analysis Date: 6/30/2009

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

Table with 7 columns: Sample, Description, Appearance, % Fibrous, % Non-Fibrous, Asbestos % Type. Contains 5 rows of sample data.

Analyst(s)
Anthony Sanaie (113)

Signature of Joe Centifonti
Joe Centifonti, 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 Atlanta 1800 Water Place, Suite 228, Atlanta GA NVLAP Lab Code 101048-1



# Asbestos Survey Field Data Sheet/ Chain of Custody Form

Lab Work Order ID:



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

070902492  
EMSL ANALYTICAL, INC.  
5125 ADANSON STREET  
SUITE 900  
ORLANDO FL 32804  
PHONE: (407) 599-5887

ECS Office Location: Orlando, FL  
(City, State of ECS Office)

Report via: email fax reg. mail lab-connect  
(circle)

Project Name: Day Pines VA Sampled By: Jason Marberry, Steven Muckwitz Sample Date: 6/22/09  
Project Location: Day Pines FL Project Manager: Bob McKinley Rpt. Addressed to: Jason Marberry  
Building Number: 23/corridor Project Number: 24:3255 Email@ for Rpt: jmarberry@ecslimited.com

Sample No.	Homogeneous Area	Sample Description	Quantity	Friable Y/N	Location	Accessibility/Potential for Damage
23-SJM-1		F.T. w/ Mastic white & tan Stone			Hallways and offices throughout	
2						
3						
4		Floor tile w/ Mastic white			Office 201	
5						
6						
7		Baseboard Mastic			Hallway	
8						
9						
10		White pipe insulation wrap			Hallway	
11						
12						
13		Carpet Mastic			Room 201	
14						

Relinquished By: [Signature] Date: 6/23/09 Received By: [Signature] Date: 6/25/09  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: UPS



# Asbestos Survey Field Data Sheet/ Chain of Custody Form

Lab Work Order ID: \_\_\_\_\_



EMSL ANALYTICAL, INC.  
LABORATORY • PRODUCTS • TRAINING

EMSL ANALYTICAL, INC.  
5125 ADANSON STREET  
SUITE 900  
ORLANDO FL 32804  
PHONE: (407) 599-5887

ECS Office Location: Orlando, FL  
(City, State of ECS Office)

Report via: email fax reg. mail lab-connect  
(circle)

Project Name: May Jones VA Sampled By: \_\_\_\_\_ Sample Date: \_\_\_\_\_  
 Project Location: \_\_\_\_\_ Project Manager: \_\_\_\_\_ Rpt. Addressed to \_\_\_\_\_  
 Building Number: 23/Corridor Page 2 Project Number: \_\_\_\_\_ Email@ for Rpt: \_\_\_\_\_

Sample No.	Homogeneous Area	Sample Description	Quantity	Friable Y/N	Location	Accessibility/Potential for Damage
23-SJM-15		Carpet Mastic			Room 201	
16		Brown Floor Tile w/ Mastic			Room 228	
17						
18						
19		2x4 Textured Ceilings p/hole Tile			Room 218	
20						
21						
22		White Firestop			Hallway	
23						
24						
25		Sheet rock			Hallway	
26					233	
27					209	
<del>28</del>						

Relinquished By: [Signature] Date: 6/23/09 Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_



SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
23-SJM-28	White fiberglass pipe wrap		
29	above ceiling		
30	in hallway		
31	Pinhole fissure 2x4 ceiling tile		
32	hallway		
33			
34	2x4 ceiling tile pinholes		
35	white Room 209		
36			
37	Grey 12x12 floor tile w/ Mastic		
38	Room 218		
39			
40	Grey Port Mastic Room 210		
41			
42			
43	2x4 Large Pinhole Fissure		
44	Ceiling tile Room 210 & 233		
45			
46			
47	Green Board Duct Space		
48	adjacent to Rm. 219		
49			
50	12x12 white Hall Tile		
51	Connecting Hall 2nd Floor		
52	1st Floor		
53	Base board Mastic Connectors		
54	Hall 2nd Floor		
55	1st Floor		

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Date: 6/23/09 Time: \_\_\_\_\_  
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 Date: \_\_\_\_\_ Time: \_\_\_\_\_



SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
23 - SJM - 56	2x2 Pinhole fissure whole		
57	Ceiling Tile 2nd floor		
58	connector		
59	Sheetrock 2nd floor Connector		
60			
61			
62	White & Gray streaked 2x2		
63	Floor tile throughout Lobby		
64			
65	Blue Firestop above ceiling		
66	Hallway		
67			
68	Mastic behind plastic wallboard		
69	Dentistry waiting room		
70			
71	off white dust mastic		
72	above ceiling hallway		
73			
74	Red flexible firestop		
75	above ceiling hallway		
76			
77	White Plaster Firestop		
78	above ceiling hallway		
79			
80	Leveling Compound Room 145		
81			
82			

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SAMPLE NUMBER		SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
23	SJM	83 Terrazo floor and baseboard		
		84 Room 147		
		85		
		86 Tan wall caulk above		
		87 wall ceilings hallway		
		88		
		89 White w/ Black streaks		
		90 12x12 Floor Tile w/ mastic		
		91 Floor Tile w/ Mastic Room 147 & 115 E		
		92 Mastic ductwork basement		
		93		
		94		
		95 Exterior stucco		
		96		
		97		
		98		
		99		
		100		
		101		

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6/23/09  
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Time: \_\_\_\_\_  
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EMSL Analytical, Inc.  
10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: [beltsvillelab@emsl.com](mailto:beltsvillelab@emsl.com)

Attn: **ECS, Ltd.**  
**2815 Directors Row.Suite 500**  
**Orlando, FL 32809**

Fax: (407) 859-9599 Phone: (407) 859-8378  
Project: 24-3255

Customer ID: ECSL77  
Customer PO: 24-3255  
Received: 06/22/09 10:45 AM  
EMSL Order: 190905778  
EMSL Proj:  
Analysis Date: 6/25/2009

### 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
11-SRG-7 190905778-0043	Pitch Pocket Mat	Black Fibrous Heterogeneous	25% Cellulose	75% Non-fibrous (other)	None Detected
11-SRG-8 190905778-0044	Pitch Pocket Mat	Rust/Black Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
11-SRG-9 190905778-0045	Pitch Pocket Mat	Black Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
23-SRG-1 190905778-0046	Roof Membrane	Black Fibrous Heterogeneous	5% Glass 60% Synthetic	35% Non-fibrous (other)	None Detected
23-SRG-2 190905778-0047	Roof Membrane	Black Fibrous Heterogeneous	10% Glass 50% Synthetic	40% Non-fibrous (other)	None Detected
23-SRG-3 190905778-0048	Roof Membrane	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (other)	None Detected
23-SRG-4 190905778-0049	Roof Flashing	Silver/Black Fibrous Heterogeneous	15% Glass 10% Synthetic 10% Wollastonite	65% Non-fibrous (other)	None Detected

Analyst(s)

Alexis Turner (17)  
George Malone (36)

Joe Centifonti, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Beltsville 10768 Baltimore Avenue, Beltsville MD NVLAP Lab Code 200293-0



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Received: 06/22/09 10:45 AM  
EMSL Order: 190905778  
EMSL Proj:  
Analysis Date: 6/25/2009

### 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
23-SRG-5 190905778-0050	Roof Flashing	Silver/Black Fibrous Heterogeneous	15% Glass 15% Wollastonite	70% Non-fibrous (other)	None Detected
23-SRG-6 190905778-0051	Roof Flashing	Black/Silver Fibrous Heterogeneous	15% Glass	85% Non-fibrous (other)	None Detected
23-SRG-7 190905778-0052	Pitch Pocket Mat	Black Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (other)	None Detected
23-SRG-8 190905778-0053	Pitch Pocket Mat	Rust/Black Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
23-SRG-9 190905778-0054	Pitch Pocket Mat	Black Non-Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected

Analyst(s)

Alexis Turner (17)  
George Malone (36)

Joe Centifonti, Laboratory Manager  
or other approved signatory

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2/2



107 Haddon Avenue, Westmont, New Jersey 08108

1-800-220-3675

http://www.emsl.com

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME Air (L)	Area (Inches sq.)
102-SRG-1	Roof Membrane		
↓	↓		
↓	↓		
↓	↓		
↓	Roof Flashing		
↓	↓		
↓	↓		
↓	Patch Pocket Material		
↓	↓		
↓	↓		
11-SRG-1	Roof Flashing		
↓	↓		
↓	↓		
↓	Roofing Membrane		
↓	↓		
↓	↓		
↓	Patch Pocket Material		
↓	↓		
↓	↓		
23-SRG-1	Roof Membrane		
↓	↓		
↓	↓		
↓	Roof Flashing		
↓	↓		
↓	↓		
↓	Patch Pocket Material		
↓	↓		
↓	↓		

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*[Signature]*  
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 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_



**EMSL Analytical, Inc**

1800 Water Place, Suite 228, Atlanta, GA 30339

Phone: (770) 956-9150 Fax: (770) 956-9181 Email: atlantalab@emsl.com

Attn: **Jason Marberry**  
**ECS, Ltd.**  
**2815 Directors Row.Suite 500**  
**Orlando, FL 32809**

Customer ID: ECSL77  
Customer PO: 24-3255  
Received: 06/25/09 10:30 AM  
EMSL Order: 070902492

Fax: (407) 859-9599 Phone: (407) 859-8378  
Project: 24:3255/Bay Pines VA,23 Corridor

EMSL Proj:  
Analysis Date: 7/16/2009

**Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
23-SJM-25 joint compound 070902492-0025	Hallway Sheetrock	Brown Non-Fibrous Homogeneous		100.00% Matrix	<0.25% Chrysotile
23-SJM-26 joint compound 070902492-0026	233 Sheetrock	Brown Non-Fibrous Homogeneous		100.00% Matrix	<0.25% Chrysotile
23-SJM-27 joint compound 070902492-0027	209 Sheetrock	Brown Non-Fibrous Homogeneous		100.00% Matrix	<0.25% Chrysotile

Analyst(s)

Anthony Sanaie (3)

Joe Centifonti, Laboratory Manager  
or other approved signatory

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted.

United States Department of Commerce  
National Institute of Standards and Technology



---

**Certificate of Accreditation to ISO/IEC 17025:2005**

---

NVLAP LAB CODE: 101048-1

**EMSL Analytical, Inc.**  
Atlanta, GA

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**AIRBORNE ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2009-07-01 through 2010-06-30

*Effective dates*



*Sally A. Bruce*  
For the National Institute of Standards and Technology

United States Department of Commerce  
National Institute of Standards and Technology



---

## Certificate of Accreditation to ISO/IEC 17025:2005

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NVLAP LAB CODE: 200293-0

**EMSL Analytical, Inc.**  
Beltsville, MD

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

### **BULK ASBESTOS FIBER ANALYSIS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).*

2009-01-01 through 2009-12-31

*Effective dates*



*Dally S. Bruce*  
For the National Institute of Standards and Technology

**APPENDIX B**  
**FIELD NOTES**

Inspector SSM  
JWM

Building 23/connector

Sample #	Sample Description	Location/Room #	Damage	Quantity	Notes
1	F.T. w/ Mastic	hallways	no		2nd Floor 12x12
2	white & tan	and offices	↓		
3	streaks	throughout	↓		
4	F.T. w/ Mastic	office 201	no		2nd Floor 12x12
5	white	↓	↓		
6	↓	↓	↓		
7	Baseboard Mastic	hallway	no		2nd Floor
8	↓	↓	↓		
9	↓	↓	↓		
10	White Pipe insulation	Hallway	poor		above ceiling
11	wrap	↓	↓		
12	↓	↓	↓		
13	Carpet mastic	Room 209	no		
14	↓	↓	↓		
15	↓	↓	↓		
16	Brown 12x12	Room 228	no		
17	F.T. w/ mastic	↓	↓		
18	↓	↓	↓		
19	2x2 pinhole texture	218	no		Located in several areas on 2nd Floor
20	C.T.	↓	↓		
21	↓	↓	↓		
22	white firestop	hallway	no		above ceiling
23	↓	↓	↓		
24	↓	↓	↓		
25	Sheetrock	hallway	no		
26	↓	233	↓		
27	↓	209	↓		
28	white fiberglass	above	no		
29	pipe wrap	ceiling	↓		
30	↓	hallway	↓		

Date 6/22/09

Page 1 of 4

Inspector SSM JWM Building 23 / connector

Sample #	Sample Description	Location/Room #	Damage	Quantity	Notes
31	Pinhole fissure	hall way	no		
32	2x4 C.T.	↓	↓		
33	↓	↓	↓		
34	2x4 C.T. Pinhole	Room 209	no		
35	white	↓	↓		
36	↓	↓	↓		
37	Grey 12x12 F.T.	Room 210	no		
38	w/ Mastic Rm	↓	↓		
39	218	↓	↓		
40	Grey Duct	Room 210	no		
41	mastic	↓	↓		
42	↓	↓	↓		
43	2x4 large Pinhole	Room 210	no		
44	Fissure C.T.	↓	↓		
45	↓	Room 233	↓		
<del>46</del>					
47	GREEN BOARD	Duct SPACE	NO		
48	↓	ADJACENT TO	↓		
49	↓	Rm 219	↓		
50	12x12 white Hall Tile	Connectors Hall	NO		2nd Floor Connectors Hall
51	↓	2nd Floor	↓		"
52	↓	↓	↓		
53	Brickwork Mastic	Connectors Hall	NO		2nd Floor Connectors Hall
54	↓	2nd Floor	↓		
55	↓	↓	↓		
56	2x2 Pinhole Fissure	2nd Fl. Conn.	no		
57	white CT	↓	↓		
58	↓	↓	↓		
59	sheetrock	↓	↓		
60	↓	↓	↓		
61	↓	↓	↓		

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Inspector SJM  
JWM Building 23/connector

Sample #	Sample Description	Location/Room #	Damage	Quantity	Notes
62	White & Grey		no		
63	Streaked 2x2		↓		
64	F.I.		↓		
65	Blue Firestop	above	↓		
66	↓	ceiling	↓		
67	↓	hallway	✓		
68	mastic behind		no		
69	Plastic wall		↓		
70	board		↓		
71	off-white duct	above	no		
72	mastic	ceiling	↓		
73	↓	hallway	↓		
74	Red flexible		↓		
75	Firestop		↓		
76	White Plaster		↓		
77	Firestop		↓		
78	↓		↓		
79	↓		↓		
80	Leveling Compound	Room #45	↓		
81	↓		↓		
82	↓		↓		
83	Terrazzo floor	Room #47	↓		
84	and		↓		
85	baseboard		↓		
86	tan wall caulk	above C.T.	↓		
87	↓	Hallway	↓		
88	↓		↓		
89	White w/ Black	Room #17	↓		
90	streaks 12x12	# 115 F	↓		
91	F.I. w/ mastic	↓	↓		

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