MISSISSIPPI ASBESTOS DEMOLITION/RENOVATION NOTIFICATION FORM

Mail notification to: **MDEQ Asbestos and Lead Branch, 515 E. Amite Street, Jackson, MS 39201**

MDEQ Use Only: ☒Email ☐Mail ☐ Hand Delivery	Postmark (mail only) Emailed 10-14-2024	Date Received 10-21-2024	AI Number 75184

I. **Type of Notification** (O=Original R=Revised C=Canceled A= Annual) O

II. **TYPE OF OPERATION** (D=Demo O= Ordered Demo R=Renovation E=Emer. Renovation) D

III. **FACILITY DESCRIPTION** (Include building name, number and floor or room number)

Bldg. Name: Naval Air Station Meridian

Address: PWD Meridian - 229 Allen Road

City: Meridian	State: MS	Zip: 39309	County: Lauderdale

Site Location: Bldg. 205 and Bldg. 206 - 1st & 2nd floor mechanical rooms		Tel:
Building Size: B206- 24,456sf / B206- 22,109sf	# of Floors: 2	Age in Years: 63
Present Use: Military	Prior Use: Military	

IV. FACILITY INFORMATION (Identify owner, asbestos removal contractor, and other operator)

OWNER NAME: USN - Meridian NAS

Address: PWD Meridian 229 Allen Road, Bldg. 427

City: Meridian	State: MS	Zip: 39309
Contact: PAO		Tel: 601-679-2211

ASBESTOS REMOVAL CONTRACTOR: Cross Environmental Services, Inc.

Address: 39646 Fig Avenue (PO Box 1299, Crystal Springs, FL 33524) Local office: 753 Lovejoy Rd. NW, Fort Walton Beach, FL 32548

City: Zephyrhills	State: FL	Zip: 33540
Contact: Brandon Bishop / Clyde Biston		Tel: 850-864-2200
Certification Number: ABC00002428		Expiration Date: 02/09/2025

OTHER OPERATOR: same as contractor

Address:		
City:	State:	Zip:
Contact:		Tel:

V. WAS SITE INSPECTED TO DETERMINE PRESENCE OF ASBESTOS? (Yes/No): Yes

WAS ASBESTOS PRESENT? (Yes/No): Yes		Inspection Date: 12/20/2023
Inspector: Rankin/Hirsch Older: Adam Mead	Rankin/Hirsch - TBD Certification Number: ABI- 00006853 (Mead)	Rankin/Hirsch - TBD Expiration Date: 07/09/2015 (Mead)

VI. SUSPECT MATERIALS SAMPLED AND PROCEDURES USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL:

All material sampled using PLM. See attached report

VII. QUANTITY OF RACM TO BE REMOVED:

All Cat I, NF: B205: 20 LF red fire stop and 75 LF vibration dampeners; B206 - 40 LF vibration dampeners

Pipes (LN FT): N/A	Surface Area (SQ FT): N/A	Volume of Facility Components (CU FT): N/A

VIII. QUANTITY OF NONFRIABLE ASBESTOS NOT REMOVED:

Category I: N/A	Category II: N/A

IX. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) Start: 10/28/24 Complete: 11/01/24

X. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) Start: 11/04/24 Complete: 01/04/25

XI. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHOD(S) TO BE USED:

Asbestos removal by strip and remove, wet method. Demolition by excavator using wet methods.

XII. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE:

1-1/2 inch fire hose for dust control.

XIII. WASTE TRANSPORTER #1

Name: Cross Environmental Services, Inc.

Address: 753 Lovejoy Rd. NW

City: Fort Walton Beach	State: FL	Zip: 32548
Contact Person: Brandon Bishop		Tel: 850-864-2200

WASTE TRANSPORTER #2

Name:

Address:

City	State:	Zip:
Contact Person		Tel:

XIV. WASTE DISPOSAL SITE

Name: C&D: JWC Environmental / ACM: Waste Management-Pine Ridge Landfill

Address: JWC: 1400 Willow Lake Rd. / WM-Pine Ridge: 520 Murphy Rd.

City: Toosuba / Meridian	State: MS	Zip: 39364 39301
Contact Person: Terry Davidson / Holley Gordon		Tel: (601) 693-7713 / (251) 583-0010

XV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:

Name: N/A	Title:

Authority:

Date of Order (MM/DD/YY):	Date Ordered to Begin (MM/DD/YY):

XVI. FOR EMERGENCY RENOVATIONS: N/A

Date and Hour of Emergency (MM/DD/YY):

Description of the sudden unexpected event:

Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden:

XVII. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASTESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER:

Stop work, wet RACM, notify MS DEQ immediately

XVIII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ONSITE DURING THE DEMOLITION OR RENOVATION, AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS.

Brandon Bishop		10-14-24
Type or Print Name	(Signature of Owner/Operator)	(Date)

XIX. I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT:

Brandon Bishop		10-14-24
Type or Print Name	(Signature of Owner/Operator)	(Date)

CNIC
DEMO OF VARIOUS FACILITIES
NAS Meridian, MS

December 20, 2023

Specifications – Volume 2
Hazmat Reports
Final Submittal

eProjects Work Order No.: 1755531

TOLAND • MIZELL
ARCHITECTS, INC.

BUILDING 205 – BEQ – SURVEY SUMMARY

BUILDING DESCRIPTION

Building 205 is a two-story, 24,456-square-foot building constructed in 1961. The building is located at NAS Meridian main station and is a BEQ. The building was abandoned at the time of the survey.

ASBESTOS FINDINGS AND CONCLUSIONS

The survey team assigned ten (10) homogeneous materials of suspected ACM at this building. Twenty-eight (28) samples were collected (excluding duplicate samples), none of which were identified as ACM. Two materials were not sampled and are assumed to be ACM:

- Red firestop (HM-9): This material could not be sampled because it was inaccessible.
- Vibration dampeners (HM-10): These materials could not be sampled because of risk to the integrity of the units.

The attached figures show the samples and homogeneous materials that were identified through laboratory analysis as ACM and/or non-ACM for the identified sampling locations as well as assumed materials.

RECOMMENDATIONS

It is recommended that the red firestop (HM-9) and vibration dampeners (HM-10) be considered ACM until laboratory analysis proves otherwise. They are in good condition and currently do not pose a hazard. However, it is recommended that if a material becomes damaged and friable, it should be repaired or removed. Removal of this ACM is considered Class II OSHA work, and repair is considered Class III OSHA work. Both Class II and Class III OSHA work must be performed by AHERA (or equivalent) trained workers. It is recommended that this building be included in the installation Asbestos Management Program until the identified ACM has been removed.

In addition, older building materials that may potentially be ACM could be concealed beneath newer material and/or were inaccessible during the survey. It is recommended that these materials, if encountered, be sampled and analyzed for asbestos before being disturbed by renovation or demolition activities.

REMOVAL COST ESTIMATE

TOTAL COST (ALL ACM)

	Low	High
1. Mobilization	$2,000	$4,000
2. Preparation of Asbestos Containment Area	$0	$0
3. Bulk Asbestos Removal	<$1,000	$1,000
4. OSHA (and Clearance) Testing	$0	$0
5. Decontamination of Containment	$0	$0
6. Asbestos Waste Packaging, Handling, and Disposal	$0	$0
Total	$2,500	$5,000

RED FIRE STOP (HM-9)

	Low	High
1. Cost Components 1, 3, 6, 7, 8	$1,000	$2,000
2. Bulk Asbestos Removal	<$1,000	<$1,000
Total	$1,500	$3,000

VIBRATION DAMPENERS (HM-10)

	Low	High
1. Cost Components 1, 3, 6, 7, 8	$1,000	$2,000
2. Bulk Asbestos Removal	<$1,000	<$1,000
Total	$1,500	$3,000

Asbestos Inventory Summary – NASM 205									
Building No.:	205	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned Barracks			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
1	Drywall/Joint Compound	Good	NF	NA	NASM-B0205-A-001	Room 121	2	NAD (Joint Compound) NAD (Drywall)	205-1W
1	Drywall/Joint Compound	Good	NF	NA	NASM-B0205-A-002	Room 122	1	NAD	205-1W
1	Drywall/Joint Compound	Good	NF	NA	NASM-B0205-A-003	Room 118	2	NAD (Joint Compound) NAD (Drywall)	205-1W
1	Drywall/Joint Compound	Good	NF	NA	NASM-B0205-A-004	Room117	2	NAD (Joint Compound) NAD (Drywall)	205-1W
1	Drywall/Joint Compound	Good	NF	NA	NASM-B0205-A-005	2nd Floor Lounge	3	NAD (Joint Compound) NAD (Tape) NAD (Drywall)	205-2W

Asbestos Inventory Summary – NASM 205									
Building No.:	205	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned Barracks			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
1	Drywall/Joint Compound	Good	NF	NA	NASM-B0205-A-006	2nd Floor Common Area	3	NAD (Joint Compound) NAD (Tape) NAD (Drywall)	205-2W
1	Drywall/Joint Compound	Good	NF	NA	NASM-B0205-A-007	Room 219	3	NAD (Joint Compound) NAD (Tape) NAD (Drywall)	205-2W
2	12" Gray Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0205-A-008	Room 122	2	NAD (Floor Tile) NAD (Mastic)	205-1F
2	12" Gray Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0205-A-009	Room 219	2	NAD (Floor Tile) NAD (Mastic)	205-2F
2	12" Gray Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0205-A-010	Room 121	2	NAD (Floor Tile) NAD (Mastic)	205-1F

Asbestos Inventory Summary – NASM 205									
Building No.:	205	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned Barracks			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
2	12" Gray Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0205-D-010	Room 121	2	NAD (Floor Tile) NAD (Mastic)	205-1F
3	4" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-011	Room 121	2	NAD (Covebase) NAD (Mastic)	205-1F
3	4" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-012	Room 122	2	NAD (Covebase) NAD (Mastic)	205-1F
3	4" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-013	Room 219	2	NAD (Covebase) NAD (Mastic)	205-2F
4	2' x 2' Ceiling Panels with Pinholes	Good	NF	NA	NASM-B0205-A-014	Room 121	1	NAD	205-2C
4	2' x 2' Ceiling Panels with Pinholes	Good	NF	NA	NASM-B0205-A-015	Room 122	1	NAD	205-2C
4	2' x 2' Ceiling Panels with Pinholes	Good	NF	NA	NASM-B0205-A-016	Room 219	1	NAD	205-2C
5	6" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-017	2nd Floor Stairwell	2	NAD (Covebase) NAD (Mastic)	205-2F

Asbestos Inventory Summary – NASM 205									
Building No.:	205	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned Barracks			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
5	6" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-018	2nd Floor Quarterdeck	2	NAD (Covebase) NAD (Mastic)	205-2F
5	6" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-019	2nd Floor TV Lounge	2	NAD (Covebase) NAD (Mastic)	205-2F
6	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-A-020	2nd Floor SW End	1	NAD	205-2E
6	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-D-020	2nd Floor SW End	1	NAD	205-2E
6	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-A-021	2nd Floor SE End	1	NAD	205-2E
6	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-A-022	2nd Floor NE End	1	NAD	205-2E
7	White Seam Caulk	Good	NF	NA	NASM-B0205-A-023	2nd Floor S Middle	1	NAD	205-2E
7	White Seam Caulk	Good	NF	NA	NASM-B0205-A-024	Outside Room 121	1	NAD	205-1E
7	White Seam Caulk	Good	NF	NA	NASM-B0205-A-025	Outside Room 122	1	NAD	205-1E
8	White Duct Mastic	Good	NF	NA	NASM-B0205-A-026	2nd Floor Housekeeping	1	NAD	205-2C
8	White Duct Mastic	Good	NF	NA	NASM-B0205-A-027	2nd Floor Housekeeping	1	NAD	205-2C
8	White Duct Mastic	Good	NF	NA	NASM-B0205-A-028	Room 121	1	NAD	205-1C

Asbestos Inventory Summary – NASM 205									
Building No.:	205	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned Barracks			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
9	Red Fire Stop	Good	NF	20 LF	Assumed		1st and 2nd Floor Mech Rooms	Assumed	
10	Vibration Dampeners	Good	NF	75 LF	Assumed		1st and 2nd Floor Mech Rooms	Assumed	

Notes:
These abbreviations are used throughout Appendix A. < = less than; ' = foot (feet); " = inch(es); E = east; F = friable; ft2 = square foot (feet); HVAC = heating, ventilation, and air conditioning; ID = identification; I = intact; LF = linear foot (feet); N = north; NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = northwest; S = south; SE = southeast; SW = southwest; TSI = thermal system insulation; W = west

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NORTH

APPROXIMATE SCALE

BUILDING 205
FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Ceiling Material

FIGURE
205-1C

NORTH

APPROXIMATE SCALE

BUILDING 205

FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

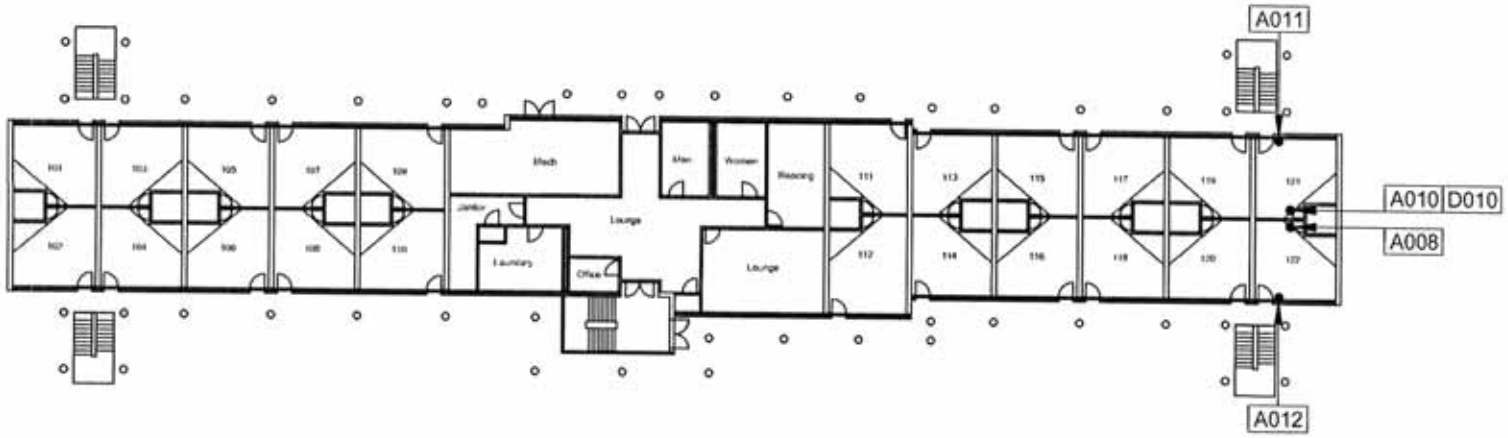
C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Exterior Material

FIGURE

205-1E



NORTH

APPROXIMATE SCALE

BUILDING 205
FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

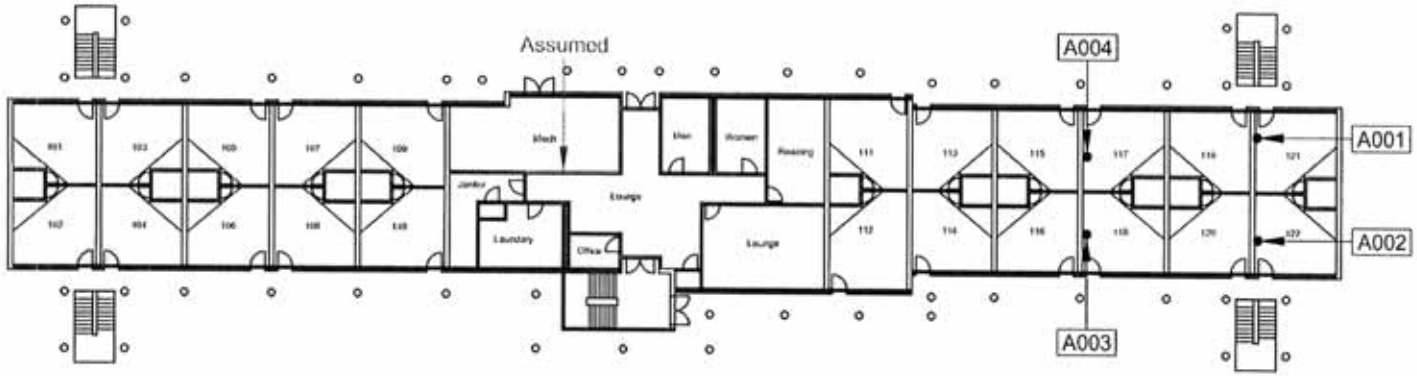
PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Floor Material

FIGURE
205-1F



NORTH

APPROXIMATE SCALE

BUILDING 205
FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

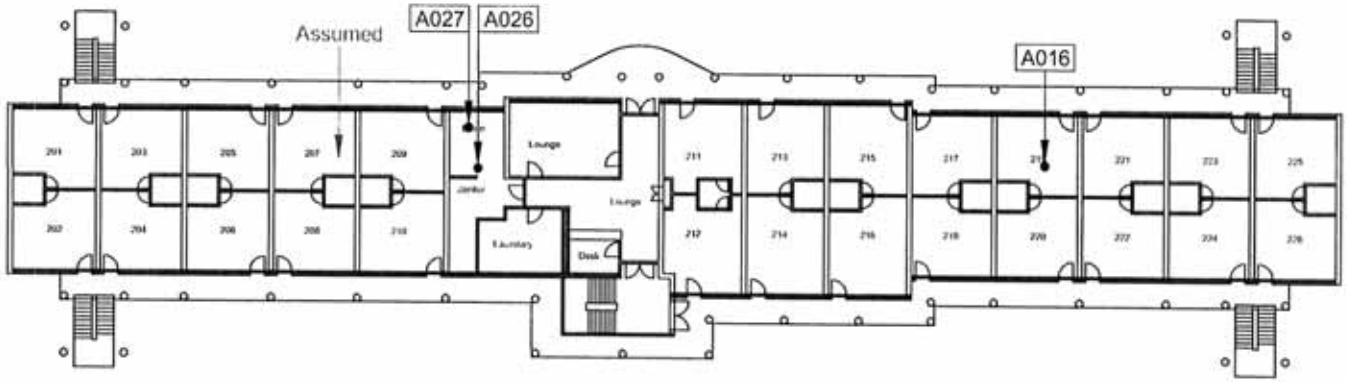
PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Wall Material

FIGURE
205-1W



NORTH

APPROXIMATE SCALE

BUILDING 205
SECOND FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

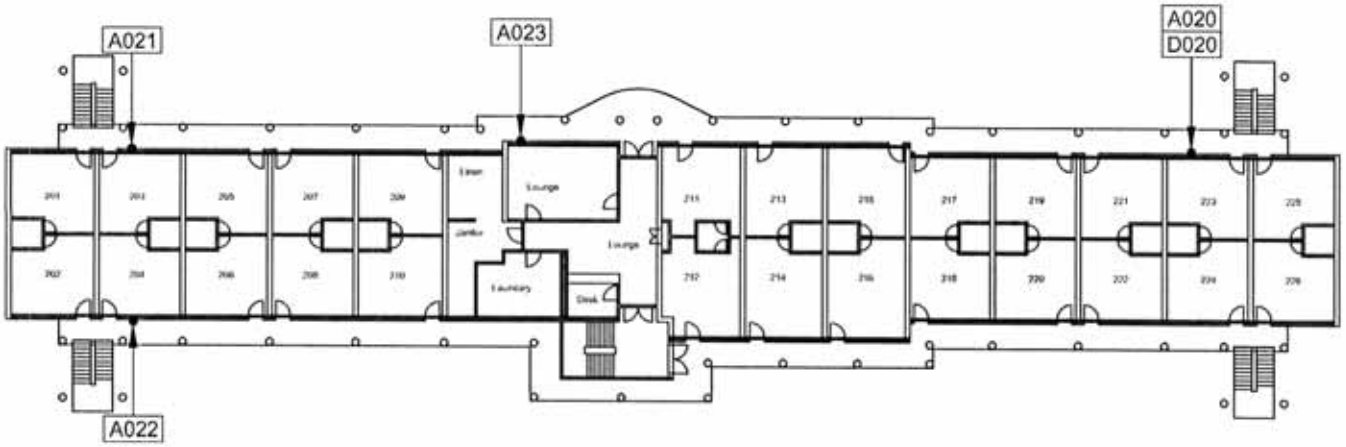
C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Ceiling Material

FIGURE

205-2C



NORTH

APPROXIMATE SCALE

BUILDING 205
SECOND FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

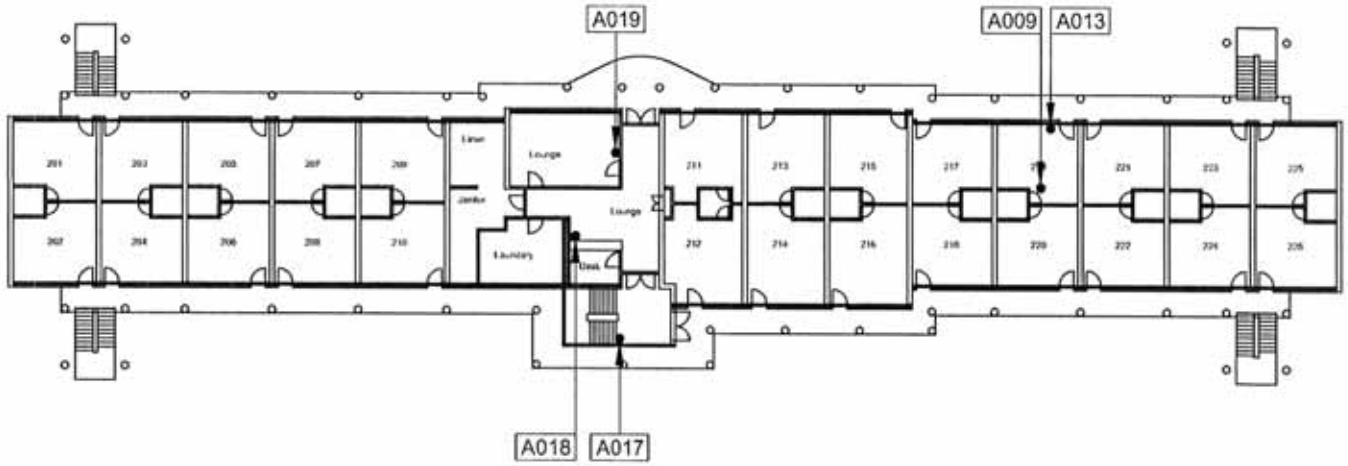
PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Exterior Material

FIGURE
205-2E



NORTH

APPROXIMATE SCALE

BUILDING 205
SECOND FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

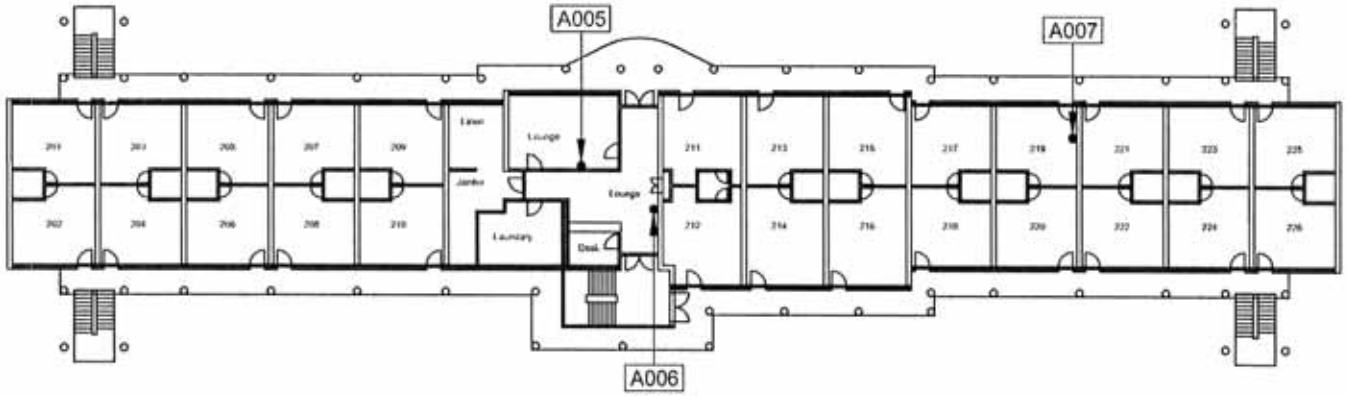
PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Floor Material

FIGURE
205-2F



NORTH

APPROXIMATE SCALE

BUILDING 205

SECOND FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO.:	5023-22-0005
DATE:	APRIL 2023
DRAWN BY:	MER
CHECKED BY:	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 205 Wall Material

FIGURE

205-2W

BUILDING 205

HM001 - Drywall/Joint Compound

HM002 - 12" Gray Mottled Floor Tile/Mastic

HM003 - 4" Beige Covebase/Mastic

HM004 - 2' x 2' Ceiling Panels with Pinholes

HM005 - 6" Beige Covebase/Mastic

HM006 - Gray Expansion Joint Caulk

HM007 - White Seam Caulk

HM008 - White Duct Mastic

HM009 - Red Fire Stop (Assumed)

HM010 - Vibration Dampeners (Assumed)

HM = Homogeneous Material

A = Asbestos

A001 Sample Location

PROJECT NO.: 5023-22-0005 DATE: APRIL 2023 DRAWN BY: MER CHECKED BY: GC	**C-AFW JV** Cardno - Amec Foster Wheeler Public Works Joint Venture	**Naval Air Station Meridian** **Meridian, Mississippi** LEGEND	FIGURE ***205***

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EMSL Analytical, Inc.
706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order:	022301229
Customer ID:	32AMEC21
Customer PO:	
Project ID:	

Attention:	Scott Brown	**Phone:**	(858) 514-7724
	WSP USA Environment & Infrastructure Inc	**Fax:**	(858) 300-4301
	9210 Sky Park Court	**Received Date:**	02/07/2023 12:00 PM
	Suite 200	**Analysis Date:**	02/17/2023 - 02/18/2023
	San Diego, CA 92123-4478	**Collected Date:**	
Project:	NAS Meridian 5023220006.04.****.5023.5730-00		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0205-A-001-Joint Compound *022301229-0001*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0205-A-001-Drywall *022301229-0001A*	Drywall/ Joint Compound	Brown/Gray Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
NASM-B0205-A-002 *022301229-0002*	Drywall/ Joint Compound	Brown/Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
NASM-B0205-A-003-Joint Compound *022301229-0003*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0205-A-003-Drywall *022301229-0003A*	Drywall/ Joint Compound	Brown/Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
NASM-B0205-A-004-Joint Compound *022301229-0004*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0205-A-004-Drywall *022301229-0004A*	Drywall/ Joint Compound	Brown/Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
NASM-B0205-A-005-Joint Compound *022301229-0005*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
NASM-B0205-A-005-Tape *022301229-0005A*	Drywall/ Joint Compound	Beige Fibrous Homogeneous	100% Cellulose		None Detected
NASM-B0205-A-005-Drywall *022301229-0005B*	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
NASM-B0205-A-006-Joint Compound *022301229-0006*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
NASM-B0205-A-006-Tape *022301229-0006A*	Drywall/ Joint Compound	Beige Fibrous Homogeneous	100% Cellulose		None Detected

Initial report from: 02/20/2023 08:14:18

EMSL Analytical, Inc.
706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 022301229
Customer ID: 32AMEC21
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0205-A-006-Drywall *022301229-0006B*	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
NASM-B0205-A-007-Joint Compound *022301229-0007*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
NASM-B0205-A-007-Tape *022301229-0007A*	Drywall/ Joint Compound	Beige Fibrous Homogeneous	100% Cellulose		None Detected
NASM-B0205-A-007-Drywall *022301229-0007B*	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
NASM-B0205-A-008-Floor Tile *022301229-0008*	12" Gray Mottled Floor Tile/ Mastic	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
NASM-B0205-A-008-Mastic *022301229-0008A*	12" Gray Mottled Floor Tile/ Mastic	Black/Yellow Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
NASM-B0205-A-009-Floor Tile *022301229-0009*	12" Gray Mottled Floor Tile/ Mastic	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
NASM-B0205-A-009-Mastic *022301229-0009A*	12" Gray Mottled Floor Tile/ Mastic	Black Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
NASM-B0205-A-010-Floor Tile *022301229-0010*	12" Gray Mottled Floor Tile/ Mastic	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
NASM-B0205-A-010-Mastic *022301229-0010A*	12" Gray Mottled Floor Tile/ Mastic	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-D-010-Floor Tile *022301229-0011*	12" Gray Mottled Floor Tile/ Mastic	White/Beige Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0205-D-010-Mastic *022301229-0011A*	12" Gray Mottled Floor Tile/ Mastic	Black/Yellow/Orange Non-Fibrous Heterogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
NASM-B0205-A-011-Cove Base *022301229-0012*	4" Beige Covebase Panels w/ Pinholes	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-011-Mastic *022301229-0012A*	4" Beige Covebase Panels w/ Pinholes	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-012-Cove Base *022301229-0013*	4" Beige Covebase Panels w/ Pinholes	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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http://www.EMSL.com / greensborolab@emsl.com

EMSL Order:	022301229
Customer ID:	32AMEC21
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0205-A-012-Mastic *022301229-0013A*	4" Beige Covebase Panels w/ Pinholes	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-013-Cove Base *022301229-0014*	4" Beige Covebase Panels w/ Pinholes	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-013-Mastic *022301229-0014A*	4" Beige Covebase Panels w/ Pinholes	Yellow Non-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
NASM-B0205-A-014 *022301229-0015*	2" x 2" Ceiling Panels w/ Pinholes	Gray/White Fibrous Homogeneous	40% Cellulose 10% Glass	30% Perlite 20% Non-fibrous (Other)	None Detected
NASM-B0205-A-015 *022301229-0016*	2" x 2" Ceiling Panels w/ Pinholes	Gray/White Fibrous Homogeneous	40% Cellulose 10% Glass	30% Perlite 20% Non-fibrous (Other)	None Detected
NASM-B0205-A-016 *022301229-0017*	2" x 2" Ceiling Panels w/ Pinholes	Gray/White Fibrous Homogeneous	45% Cellulose 10% Glass	30% Perlite 15% Non-fibrous (Other)	None Detected
NASM-B0205-A-017-Cove Base *022301229-0018*	6" Beige Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-017-Mastic *022301229-0018A*	6" Beige Covebase/ Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-018-Cove Base *022301229-0019*	6" Beige Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-018-Mastic *022301229-0019A*	6" Beige Covebase/ Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-019-Cove Base *022301229-0020*	6" Beige Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-019-Mastic *022301229-0020A*	6" Beige Covebase/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0205-A-020 *022301229-0021*	Gray Expansion Joint Caulk	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-D-020 *022301229-0022*	Gray Expansion Joint Caulk	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-021 *022301229-0023*	Gray Expansion Joint Caulk	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-022 *022301229-0024*	Gray Expansion Joint Caulk	Black Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0205-A-023 *022301229-0025*	White Seam Caulk	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0205-A-024 *022301229-0026*	White Seam Caulk	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0205-A-025 *022301229-0027*	White Seam Caulk	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0205-A-026 *022301229-0028*	White Duct Mastic	White Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
NASM-B0205-A-027 *022301229-0029*	White Duct Mastic	White/Silver Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
NASM-B0205-A-028 *022301229-0030*	White Duct Mastic	Tan/White/Silver Fibrous Heterogeneous	15% Cellulose 30% Glass	55% Non-fibrous (Other)	None Detected

Analyst(s)

Jumee West (30)
Scott Combs (19)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

Initial report from: 02/20/2023 08:14:18

BUILDING 206 – BEQ – SURVEY SUMMARY

BUILDING DESCRIPTION

Building 206 is a two-story, 22,109-square-foot building constructed in 1961. The building is located at NAS Meridian main station and is a BEQ The building was abandoned at the time of survey.

ASBESTOS FINDINGS AND CONCLUSIONS

The survey team assigned ten (10) homogeneous materials of suspected ACM at this building. Thirty-one (31) samples were collected (excluding duplicate samples), none of which were identified as ACM. One material was not sampled and is assumed to be ACM:

- Vibration dampeners (HM-10): These materials were not sampled because of risk to the integrity of the units.

The attached figures show the samples and homogeneous materials that were identified through laboratory analysis as ACM and/or non-ACM for the identified sampling locations as well as the assumed locations.

RECOMMENDATIONS

It is recommended that the vibration dampener (HM-10) be considered ACM until laboratory analysis proves otherwise. It is in good condition and currently does not pose a hazard. However, it is recommended that if the material becomes damaged and friable, it should be repaired or removed. Removal of this ACM is considered Class II OSHA work, and repair is considered Class III OSHA work. Both Class II and Class III OSHA work must be performed by AHERA (or equivalent) trained workers. It is recommended that this building be included in the installation Asbestos Management Program until the identified ACM has been removed.

In addition, older building materials that may potentially be ACM could be concealed beneath newer material and/or were inaccessible during the survey. It is recommended that these materials, if encountered, be sampled and analyzed for asbestos before being disturbed by renovation or demolition activities.

REMOVAL COST ESTIMATE

TOTAL COST (ALL ACM)

	Low	High
1. Mobilization	$1,000	$2,000
2. Preparation of Asbestos Containment Area	$0	$0
3. Bulk Asbestos Removal	<$1,000	<$1,000
4. OSHA (and Clearance) Testing	$0	$0
5. Decontamination of Containment	$0	$0
6. Asbestos Waste Packaging, Handling, and Disposal	$0	$0
Total	$1,500	$3,000

Asbestos Inventory Summary – NASM 206									
Building No.:	206	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned BEQ			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
1	Drywall/Joint Compound	Damaged	F	NA	NASM-B0206-A-001	Room 235B	2	NAD (Joint Compound) NAD (Drywall)	206-2W
1	Drywall/Joint Compound	Damaged	F	NA	NASM-B0206-A-002	2nd Floor Mechanical Room	3	NAD (Joint Compound) NAD (Tape) NAD (Drywall)	206-2W
1	Drywall/Joint Compound	Damaged	F	NA	NASM-B0206-A-003	2nd Floor Laundry	3	NAD (Joint Compound) NAD (Tape) NAD (Drywall)	206-2W
1	Drywall/Joint Compound	Damaged	F	NA	NASM-B0206-A-004	Rec Room	3	NAD (Joint Compound) NAD (Tape) NAD (Drywall)	206-2W

Asbestos Inventory Summary – NASM 206									
Building No.:	206	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned BEQ			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
1	Drywall/Joint Compound	Damaged	F	NA	NASM-B0206-A-005	Quarterdeck 1st Floor	2	NAD (Joint Compound) NAD (Drywall)	206-1W
1	Drywall/Joint Compound	Damaged	F	NA	NASM-B0206-A-006	1st Floor Mechanical Room	2	NAD (Joint Compound) NAD (Drywall)	206-1W
1	Drywall/Joint Compound	Damaged	F	NA	NASM-B0206-A-007	1st Floor Mechanical Room	2	NAD (Joint Compound) NAD (Drywall)	206-1W
2	12" Blue Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-008	Room 235A	2	NAD (Floor Tile) NAD (Mastic)	206-2F
2	12" Blue Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-009	2nd Floor Rec Room	2	NAD (Floor Tile) NAD (Mastic)	206-2F
2	12" Blue Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-010	2nd Floor Rec Room	2	NAD (Floor Tile) NAD (Mastic)	206-2F

Asbestos Inventory Summary – NASM 206									
Building No.:	206	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned BEQ			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
2	12" Blue Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0206-D-010	2nd Floor Rec Room	2	NAD (Floor Tile) NAD (Mastic)	206-2F
3	Blue-Green Covebase Mastic	Good	NF	NA	NASM-B0206-A-011	Room 235B	2	NAD (Covebase) NAD (Mastic)	206-2F
3	Blue-Green Covebase Mastic	Good	NF	NA	NASM-B0206-A-012	2nd Floor Rec Room	2	NAD (Covebase) NAD (Mastic)	206-2F
3	Blue-Green Covebase Mastic	Good	NF	NA	NASM-B0206-A-013	2nd Floor Rec Room	2	NAD (Covebase) NAD (Mastic)	206-2F
4	Exterior White Caulk	Good	NF	NA	NASM-B0206-A-014	N Side of 2nd Floor in the Middle	1	NAD	206-2E
4	Exterior White Caulk	Good	NF	NA	NASM-B0206-A-015	S Side of 2nd Floor in the Middle	1	NAD	206-2E
4	Exterior White Caulk	Good	NF	NA	NASM-B0206-A-016	S Side of 1st Floor in the Middle	1	NAD	206-1E
5	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0206-A-017	N Side of 2nd Floor in the Middle	1	NAD	206-2E

Asbestos Inventory Summary – NASM 206									
Building No.:	206	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned BEQ			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
5	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0206-A-018	S Side of 2nd Floor in the Middle	1	NAD	206-2E
5	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0206-A-019	S Side of 1st Floor in the Middle	1	NAD	206-1E
6	Red Fire Stop	Good	NF	NA	NASM-B0206-A-020	2nd Floor Mechanical Room	1	NAD	206-2W
6	Red Fire Stop	Good	NF	NA	NASM-B0206-D-020	2nd Floor Mechanical Room	1	NAD	206-2W
6	Red Fire Stop	Good	NF	NA	NASM-B0206-A-021	2nd Floor Mechanical Room	1	NAD	206-2W
6	Red Fire Stop	Good	NF	NA	NASM-B0206-A-022	2nd Floor Mechanical Room	1	NAD	206-2W
7	12" Gray Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-023	2nd Floor Laundry	2	NAD (Floor Tile) NAD (Mastic)	206-2F
7	12" Gray Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-024	2nd Floor Laundry	2	NAD (Floor Tile) NAD (Mastic)	206-2F
7	12" Gray Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-025	2nd Floor Laundry	2	NAD (Floor Tile) NAD (Mastic)	206-2F

Asbestos Inventory Summary – NASM 206									
Building No.:	206	**Inspector:**	Rankin/Hirsch			**Survey Date:**	1/25/23		
Building Name:	BEQ			**Building Description:**		Vacant/Abandoned BEQ			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
8	White Duct Mastic	Good	NF	NA	NASM-B0206-A-026	2nd Floor Laundry	1	NAD	206-2W
8	White Duct Mastic	Good	NF	NA	NASM-B0206-A-027	2nd Floor Laundry	1	NAD	206-2W
8	White Duct Mastic	Good	NF	NA	NASM-B0206-A-028	2nd Floor Laundry	1	NAD	206-2W
9	Gray Duct Mastic	Good	NF	NA	NASM-B0206-A-029	2nd Floor Mechanical Room	1	NAD	206-2W
9	Gray Duct Mastic	Good	NF	NA	NASM-B0206-A-030	2nd Floor Mechanical Room	1	NAD	206-2W
9	Gray Duct Mastic	Good	NF	NA	NASM-B0206-D-030	2nd Floor Mechanical Room	1	NAD	206-2W
9	Gray Duct Mastic	Good	NF	NA	NASM-B0206-A-031	2nd Floor Mechanical Room	1	NAD	206-2W
10	Vibration Dampeners	Good	NF	40 LF	Assumed	1st and 2nd Floor Mech Rooms		Assumed	

Notes:
These abbreviations are used throughout Appendix A. < = less than; ' = foot (feet); " = inch(es); E = east; F = friable; ft2 = square foot (feet); HVAC = heating, ventilation, and air conditioning; ID = identification; I = intact; LF = linear foot (feet); N = north; NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = northwest; S = south; SE = southeast; SW = southwest; TSI = thermal system insulation; W = west

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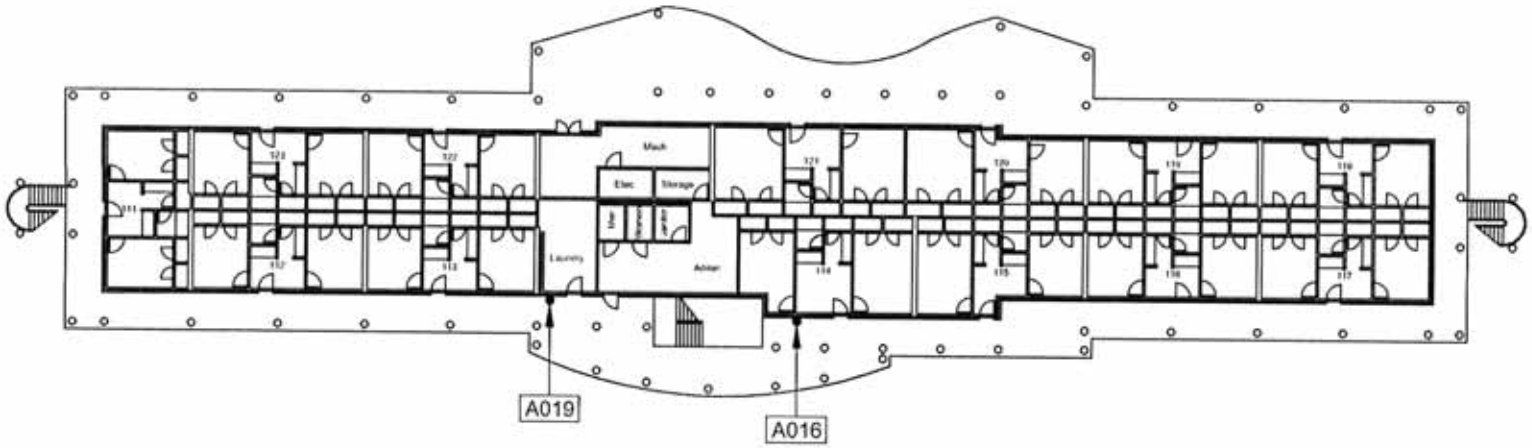


NORTH

APPROXIMATE SCALE

BUILDING 206
FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

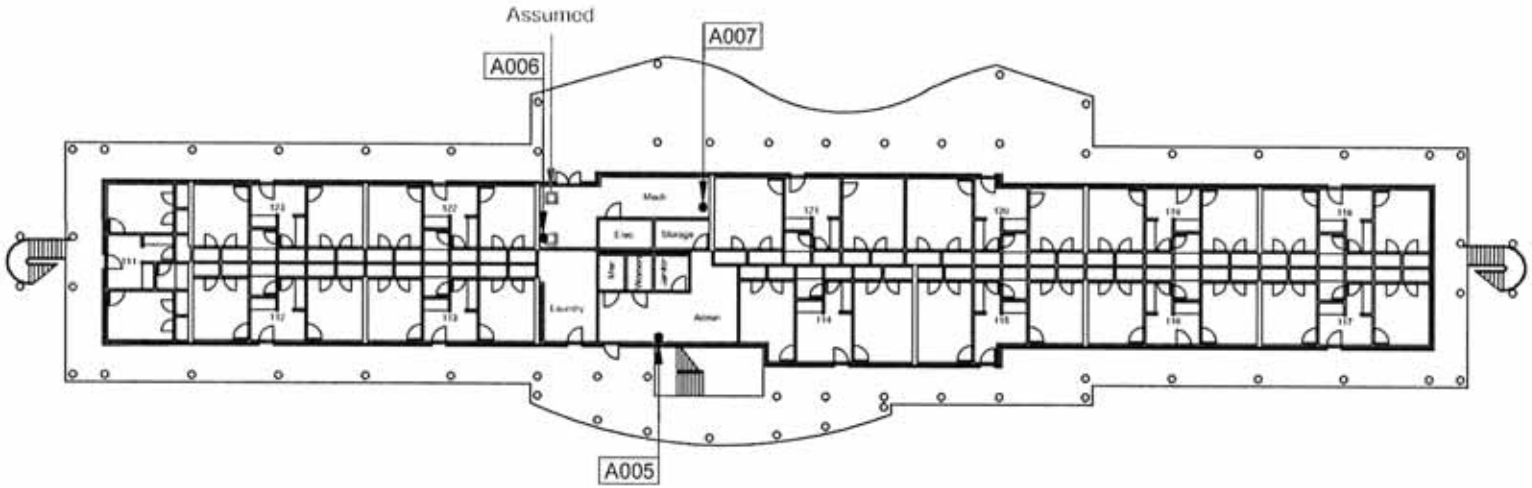
C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 206 Exterior Material

FIGURE

206-1E



NORTH

APPROXIMATE SCALE

BUILDING 206
FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

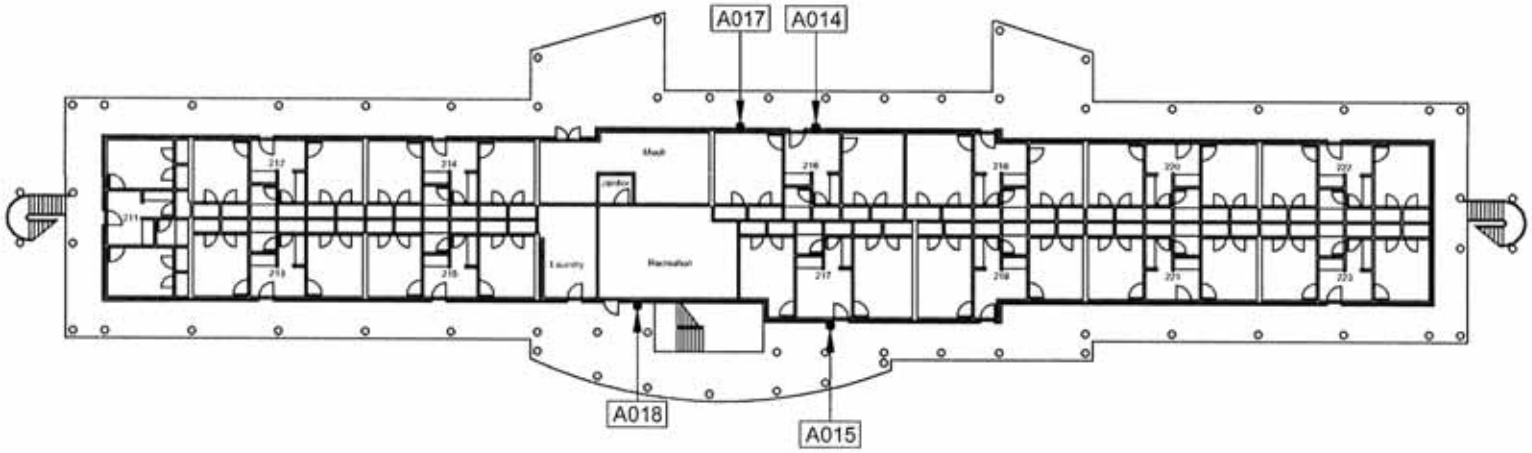
PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 206 Wall Material

FIGURE
206-1W



NORTH

APPROXIMATE SCALE

BUILDING 206
SECOND FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

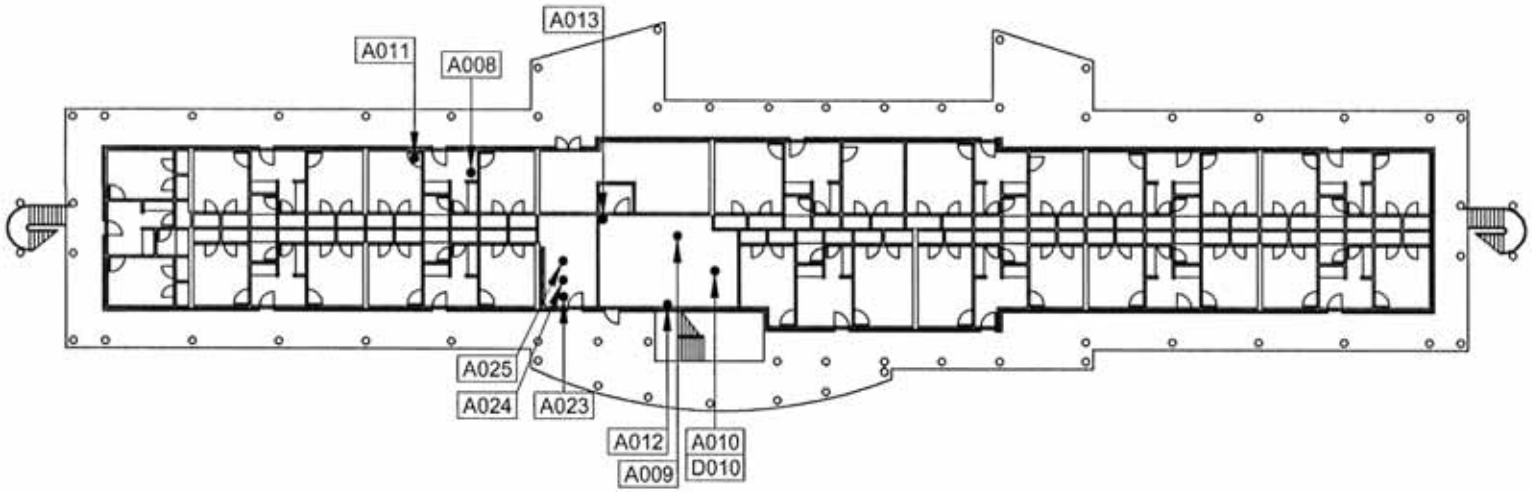
C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 206 Exterior Material

FIGURE

206-2E



NORTH

APPROXIMATE SCALE

BUILDING 206
SECOND FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

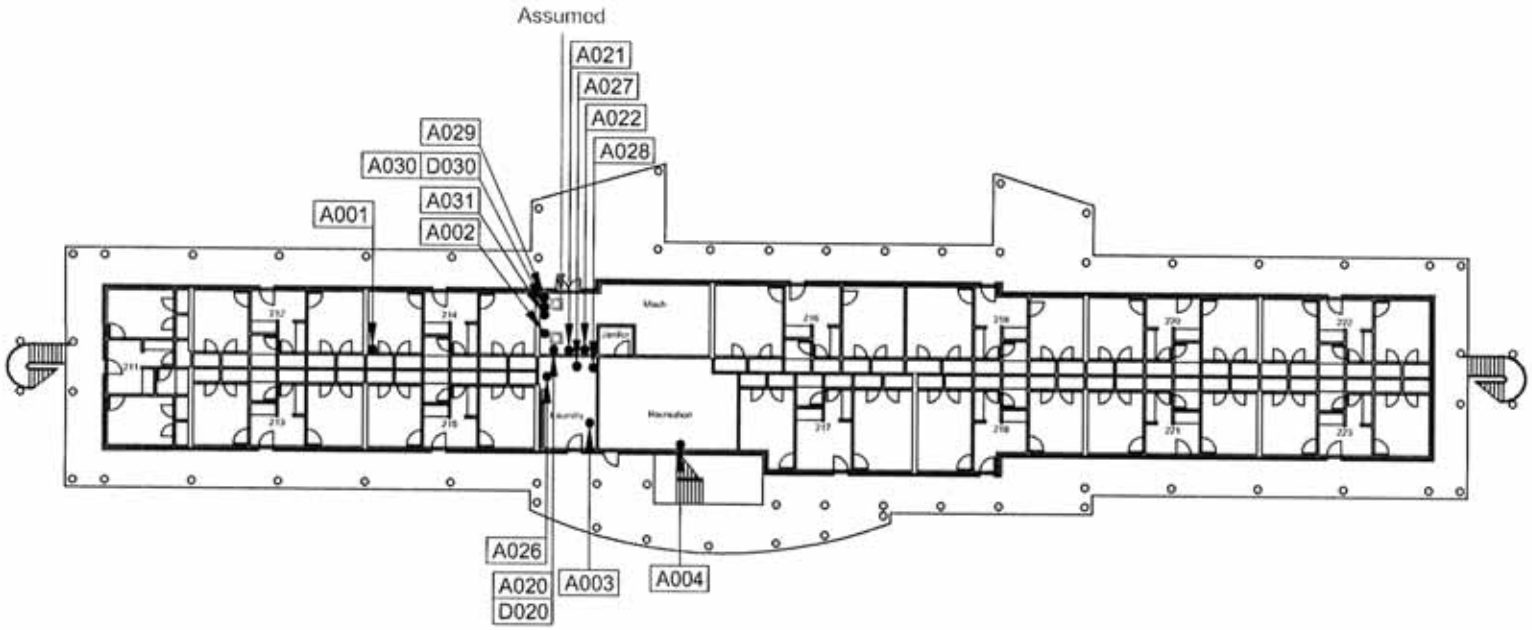
PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 206 Floor Material

FIGURE
206-2F



NORTH

APPROXIMATE SCALE

BUILDING 206

SECOND FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

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Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 206 Wall Material

FIGURE

206-2W

BUILDING 206

HM001 - Drywall/Joint Compound

HM002 - 12" Blue Mottled Floor Tile/Mastic

HM003 - Blue-Green Covebase/Mastic

HM004 - Exterior White Caulk

HM005 - Gray Expansion Joint Caulk

HM006 - Red Fire Stop

HM007 - 12" Gray Floor Tile/Mastic

HM008 - White Duct Mastic

HM009 - Gray Duct Mastic

HM010 - Vibration Dampener (Assumed)

HM = Homogeneous Material

A = Asbestos

A001 Sample Location

PROJECT NO. : 5023-22-0005 DATE : APRIL 2023 DRAWN BY : MER CHECKED BY : GC	**C-AFW JV** Cardno - Amec Foster Wheeler Public Works Joint Venture	**Naval Air Station Meridian** **Meridian, Mississippi** LEGEND	FIGURE ***206***

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EMSL Order:	022301198
Customer ID:	32AMEC21
Customer PO:	
Project ID:	

Attention: Scott Brown
WSP USA Environment & Infrastructure Inc
9210 Sky Park Court
Suite 200
San Diego, CA 92123-4478
Project: NAS Meridian 5023220006.04.****.5023.5730-00

Phone:	(858) 514-7724
Fax:	(858) 300-4301
Received Date:	02/07/2023 12:00 PM
Analysis Date:	02/17/2023 - 02/18/2023
Collected Date:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
NASM-B0206-A-001-Joint Compound *022301198-0001*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0206-A-001-Drywall *022301198-0001A*	Drywall/ Joint Compound	Gray Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
NASM-B0206-A-002-Joint Compound *022301198-0002*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0206-A-002-Tape *022301198-0002A*	Drywall/ Joint Compound	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
NASM-B0206-A-002-Drywall *022301198-0002B*	Drywall/ Joint Compound	Gray Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
NASM-B0206-A-003-Joint Compound *022301198-0003*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0206-A-003-Tape *022301198-0003A*	Drywall/ Joint Compound	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
NASM-B0206-A-003-Drywall *022301198-0003B*	Drywall/ Joint Compound	Gray Fibrous Heterogeneous	9% Cellulose	91% Non-fibrous (Other)	None Detected
NASM-B0206-A-004-Joint Compound *022301198-0004*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0206-A-004-Tape *022301198-0004A*	Drywall/ Joint Compound	Tan Fibrous Homogeneous	99% Cellulose	1% Non-fibrous (Other)	None Detected
NASM-B0206-A-004-Drywall *022301198-0004B*	Drywall/ Joint Compound	Gray Fibrous Heterogeneous	6% Cellulose 2% Glass	92% Non-fibrous (Other)	None Detected
NASM-B0206-A-005-Joint Compound *022301198-0005*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected

Initial report from: 02/20/2023 08:20:11

EMSL Analytical, Inc.
706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order: 022301198
Customer ID: 32AMEC21
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0206-A-005-Drywall *022301198-0005A*	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
NASM-B0206-A-006-Joint Compound *022301198-0006*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
NASM-B0206-A-006-Drywall *022301198-0006A*	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
NASM-B0206-A-007-Joint Compound *022301198-0007*	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
NASM-B0206-A-007-Drywall *022301198-0007A*	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
NASM-B0206-A-008-Floor Tile *022301198-0008*	12" Blue Mottled Floor Tile/ Mastic	Blue Non-Fibrous Heterogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0206-A-008-Mastic *022301198-0008A*	12" Blue Mottled Floor Tile/ Mastic	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-009-Floor Tile *022301198-0009*	12" Blue Mottled Floor Tile/ Mastic	Blue Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0206-A-009-Mastic *022301198-0009A*	12" Blue Mottled Floor Tile/ Mastic	Tan/Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-010-Floor Tile *022301198-0010*	12" Blue Mottled Floor Tile/ Mastic	Blue Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0206-A-010-Mastic *022301198-0010A*	12" Blue Mottled Floor Tile/ Mastic	Tan/Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-D-010-Floor Tile *022301198-0011*	12" Blue Mottled Floor Tile/ Mastic	Blue Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0206-D-010-Mastic *022301198-0011A*	12" Blue Mottled Floor Tile/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-011-Cove Base *022301198-0012*	Blue-Green Covebase/ Mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0206-A-011-Mastic *022301198-0012A*	Blue-Green Covebase/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0206-A-012-Cove Base *022301198-0013*	Blue-Green Covebase/ Mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0206-A-012-Mastic *022301198-0013A*	Blue-Green Covebase/ Mastic	Tan/Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-013-Cove Base *022301198-0014*	Blue-Green Covebase/ Mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0206-A-013-Mastic *022301198-0014A*	Blue-Green Covebase/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-014 *022301198-0015*	Exterior White Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0206-A-015 *022301198-0016*	Exterior White Caulk	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0206-A-016 *022301198-0017*	Exterior White Caulk	Beige Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0206-A-017 *022301198-0018*	Gray Expansion Joint Caulk	Brown/Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
NASM-B0206-A-018 *022301198-0019*	Gray Expansion Joint Caulk	Brown/Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0206-A-019 *022301198-0020*	Gray Expansion Joint Caulk	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0206-A-020 *022301198-0021*	Red Fire Stop	White/Red Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
NASM-B0206-D-020 *022301198-0022*	Red Fire Stop	Red Non-Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
NASM-B0206-A-021 *022301198-0023*	Red Fire Stop	White/Red Non-Fibrous Homogeneous	3% Cellulose	5% Ca Carbonate 92% Non-fibrous (Other)	None Detected
NASM-B0206-A-022 *022301198-0024*	Red Fire Stop	White/Red Non-Fibrous Heterogeneous	1% Cellulose	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected
NASM-B0206-A-023-Floor Tile *022301198-0025*	12" Gray Floor Tile/ Mastic	Gray Non-Fibrous Heterogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0206-A-023-Mastic *022301198-0025A*	12" Gray Floor Tile/ Mastic	Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-024-Floor Tile *022301198-0026*	12" Gray Floor Tile/ Mastic	Gray Non-Fibrous Heterogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0206-A-024-Mastic *022301198-0026A*	12" Gray Floor Tile/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-025-Floor Tile *022301198-0027*	12" Gray Floor Tile/ Mastic	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0206-A-025-Mastic *022301198-0027A*	12" Gray Floor Tile/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-026 *022301198-0028*	White Duct Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-027 *022301198-0029*	White Duct Mastic	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-028 *022301198-0030*	White Duct Mastic	Gray/Beige Non-Fibrous Homogeneous	3% Cellulose <1% Synthetic	97% Non-fibrous (Other)	None Detected
NASM-B0206-A-029 *022301198-0031*	Gray Duct Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0206-A-030 *022301198-0032*	Gray Duct Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
NASM-B0206-D-030 *022301198-0033*	Gray Duct Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
NASM-B0206-A-031 *022301198-0034*	Gray Duct Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

Analyst(s)
Cameron Evans (37)
Scott Combs (17)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

Initial report from: 02/20/2023 08:20:11

Naval Facilities Engineering Command Southeast

Asbestos and Lead-Based Paint Survey
Naval Air Station Meridian
Building 158
Meridian, Mississippi

Contract N69450-14-M-5346

September 2015

TTL associates inc
Environmental, Geotechnical Engineering & Testing

TTL associates inc
Environmental, Geotechnical Engineering & Testing

1013 North 12th Street
Toledo, OH 43604-5305
T 419-324-2222
F 419-241-1508
www.ttlassoc.com

September 14, 2015

TTL Project No. 12047.01

NAVFAC Southeast
Mr. Jason Clayton
PWD Meridian
229 Allen Road, Building 427
NAS Meridian
Meridian, Mississippi 39309-5427

Asbestos and Lead-Based Paint Survey Report
Building 158
Naval Air Station Meridian
Meridian, Mississippi
Contract N69450-14-M-5346

Dear Mr. Clayton:

The report for the Asbestos and Lead-Based Paint (LBP) Survey conducted for the Naval Facilities Engineering Command (NAVFAC) Southeast and Naval Air Station (NAS) Meridian at the above-referenced site is enclosed. TTL understands the purpose of this project is to assess Building 158 for the presence of asbestos and LBP prior to future renovation and/or demolition activities. This project was conducted in accordance with awarded contract number N69450-14-M-5346, dated September 27, 2014.

TTL appreciates the opportunity to provide NAVFAC Southeast and NAS Meridian with our consulting and testing services. Should you have any questions or require additional information, please contact Mr. Adam Mead at (419) 214-5078.

Sincerely,

TTL Associates, Inc.

Adam G. Mead
Industrial Hygienist

Sara Vogelpohl
Manager, Asbestos Services

Attachment

V:\Toledo\NAVY\NAVFAC SE\12047 MeridianAsbestos LCM Testing IDIQ\Reports\Building 158\NAS Meridian - Building 158 - Asbestos Lead Survey Report.docx

ASBESTOS AND LEAD-BASED PAINT SURVEY REPORT
BUILDING 158
NAVAL AIR STATION MERIDIAN
MERIDIAN, MISSISSIPPI

FOR

NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST
PWD MERIDIAN
229 ALLEN ROAD, BUILDING 427
NAS MERIDIAN
MERIDIAN, MISSISSIPPI

SUBMITTED

SEPTEMBER 14, 2015
TTL PROJECT NO. 12047.01

TTL ASSOCIATES, INC.
1915 NORTH 12TH STREET
TOLEDO, OHIO 43604
(419) 324-2222
(419) 321-6252 FAX

TABLE OF CONTENTS

EXECUTIVE SUMMARY

TTL Associates, Inc. (TTL) conducted an Asbestos and Lead-Based Paint (LBP) survey for the Naval Facilities Engineering Command Southeast (NAVFAC SE) at Building 158 located at Naval Air Station (NAS) Meridian in Meridian, Mississippi. The purpose of the survey was to identify asbestos-containing materials (ACM) and LBP prior to future renovation and/or demolition activities.

The survey was conducted on April 9 and April 16, 2015, by Mr. Adam Mead of TTL and Mr. Raymond Kennedy of Tioga Environmental Consultants, Inc. (Tioga).

TTL's scope of work included the following:

- Surveying the facility for suspect ACM
- Collection of suspect asbestos bulk samples for analysis by polarized light microscopy (PLM) to determine asbestos content
- LBP testing of all accessible painted surfaces by an x-ray fluorescence (XRF) analyzer
- Collection of bulk samples of identified LBP for waste characterization

Asbestos Survey

TTL identified 11 suspect ACM and collected 22 bulk samples, from which 55 sample layers were analyzed. The number of samples collected from each suspect ACM was determined by the quantity of material present. Laboratory analysis identified one sampled material as ACM, described below:

- Approximately 130 square feet (s.f.) of black glue pods behind mirrors (HSA 158-07)

Lead-Based Paint Survey

No LBP was identified during this survey. No collection of paint chip samples or waste characterization were required.

1.0 INTRODUCTION

TTL Associates, Inc. (TTL) conducted an Asbestos and Lead-Based Paint (LBP) survey for the Naval Facilities Engineering Command Southeast (NAVFAC SE) at Building 158 located at Naval Air Station (NAS) Meridian in Meridian, Mississippi.

1.1 Project Purpose and Objectives

TTL conducted the surveys in accessible areas of the interior and exterior of Building 158 to determine the presence of asbestos-containing materials (ACM) and LBP which may require removal prior to renovation or demolition activities. The asbestos survey was conducted in accordance with the National Emissions Standard for Hazardous Air Pollutants asbestos regulations (Title 40 of the Code of Federal Regulations [CFR] 61, Subpart M) (NESHAP) and the Asbestos Hazard Emergency Response Act regulation (40 CFR 76, Subpart E) (AHERA). The LBP survey was conducted in accordance with the United States Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, Chapter 7, published in June 1995 and revised in 1997.

1.2 Personnel

The survey was conducted by Mr. Adam Mead of TTL and Mr. Raymond Kennedy of Tioga Environmental Consultants, Inc. (Tioga).

Mr. Mead is a State of Mississippi Department of Environmental Quality certified Asbestos Inspector (Certification No. ABI-00006853).

Mr. Kennedy is a State of Mississippi Department of Environmental Quality certified Lead Inspector (Certification No. PBI-00001416).

Copies of their certifications are included in Appendix A.

1.3 Site Description

Building 158, constructed in 1999, is a single-story steel structure formerly housing a restaurant. The building was vacant and unoccupied at the time of the surveys.

2.0 ASBESTOS SRVEY

This section documents the methods and results of the asbestos survey conducted in accordance with the NESHAP and AHERA. Field work was conducted on April 9, 2015.

2.1 Homogenous Areas

Each accessible area was surveyed for suspect ACM and included the identification of suspect materials and the definition of homogeneous sampling areas (HSAs), assessment of the condition of each material, estimation of the approximate quantity of the suspect ACM, and collection and analysis of representative bulk samples from each identified HSA. An HSA is defined as a material that exhibits similar physical characteristics (e.g., texture, surface color, and appearance) and was applied or installed during the same construction period (if known) as determined by TTL's survey team utilizing professional judgment, experience, and historical building information.

2.2 Sampling and Analysis Methods

Suspect ACM samples were collected using a coring device or other means, as appropriate, to collect a cross section of the suspect material. The samples were placed into clean, unused sealable bags and marked with a unique sample identification number. All sampling areas were repaired or encapsulated immediately after sampling. The samples of suspect ACM were transported to TTL's asbestos laboratory and analyzed by polarized light microscopy (PLM) using United States Environmental Protection Agency (U.S. EPA) Method 600/R-93/116. The EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials" requires that all multiple, distinct layers must be analyzed individually. Sample analysis results are provided for each distinct layer of each sample submitted to the laboratory.

TTL's asbestos laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology. The laboratory accreditation number is included in the analytical report.

2.3 Asbestos Analytical Results

TTL identified 11 suspect ACM and collected 22 samples, from which 55 sample layers were analyzed. Laboratory analytical data identified one sampled material as ACM.

The U.S. EPA defines an ACM as a material that contains greater than one percent asbestos by visual estimation or weight. The following material was identified as ACM as defined by the U.S. EPA:

- Approximately 130 square feet (s.f.) of black glue pods behind mirrors (HSA 158-07)

Refer to Appendix B for a detailed list of all identified suspect materials, quantities, and analytical results. Asbestos sampling location diagrams are included in Appendix C. The

asbestos laboratory analytical report is included in Appendix D. Color photographs of each sample location are included in Appendix E.

2.4 Regulatory Requirements Summary

The U.S. EPA defines regulated ACM (RACM) as: (a) Friable asbestos material, (b) Category I Non-Friable ACM that has become friable, (c) Category I Non-Friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II Non-Friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The U.S. EPA NESHAP asbestos regulations require the removal of all RACM from a facility being demolished or renovated prior to beginning any activity that might damage or disturb the material. The U.S. EPA requires a written notification 10 business days prior to the disturbance of RACM if the combined amount of RACM to be disturbed exceeds 160 square feet, 260 linear feet, or one cubic meter of facility components where length or area could not be measured. The Mississippi Department of Environmental Quality also requires ten business day prior notification if the amount of RACM to be disturbed exceeds 160 square feet, 260 linear feet, or 35 cubic feet (one cubic meter).

3.0 LEAD-BASED PAINT SURVEY

This section documents the methods and results of the LBP survey conducted in accordance with HUD guidelines. Field work was conducted on April 16, 2015.

3.1 Survey

Each accessible interior and exterior painted surface was tested for LBP. TTL identified areas of painted surfaces of different color, substrate, and component in accordance with the Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, Chapter 7, published in June 1995 and revised in 1997.

A Niton x-ray fluorescence (XRF) analyzer was used to conduct the survey.

3.2 Survey Results

The U.S. EPA and HUD define LBP as containing more than 1.0 milligrams of lead per square centimeter (mg/cm^2) of area, as detected by XRF analysis.

No LBP was identified during this survey in the areas tested. The Niton XRF analyzer used during this survey does not have an "inconclusive" range. No subsequent verification paint chip sampling was required. Therefore, no waste characterization sampling was required.

XRF analyzer data for all tested surfaces are included in Appendix F.

4.0 CONCLUSIONS/RECOMMENDATIONS

This section presents the conclusions of the asbestos and LBP surveys and provides recommendations for future actions and safeguards.

4.1 Asbestos Survey

TTL identified 19 suspect ACM and collected 44 samples, from which 119 sample layers were analyzed. Based on laboratory analytical results, no Friable ACM or Category I non-Friable ACM were identified during this survey.

The following Category II Non-Friable ACM was identified within Building 158 and requires removal prior to demolition or renovation activities that would impact the materials:

- Approximately 130 s.f. of black glue pods behind mirrors (HSA 158-07)

TTL recommends the removal of the RACM and the ACM that might become RACM based on the project-specific renovation techniques by a licensed asbestos abatement contractor. Based on the condition of the material, the identified ACM may be expected to be a RACM. Therefore, the renovation contractor must be notified of the presence, quantity, and location of the material so as to avoid project specific renovation techniques that may render the material friable and RACM.

4.2 LBP Survey

Accessible interior and exterior painted surfaces were tested for LBP using an XRF analyzer. Based on the XRF analyzer data, no LBP was identified during this survey in the areas tested.

5.0 LIMITATIONS

TTL has made reasonable efforts to identify and quantify suspect ACM and LBP based upon the standard of care in the environmental industry existing at the time of the survey. This survey only summarizes the potential presence and estimated quantities of visually observed ACM and LBP.

Additional material disturbed during renovation or demolition activities should be evaluated on a case-by-case basis, especially materials that were previously hidden, obscured or inaccessible, to determine if the material is included in this survey. If a given material is not described in this report or cannot be identified as a non-suspect material, the material should be assumed to contain asbestos and/or LBP and renovation and/or demolition activities should be halted until sampling and analysis can be accomplished. Parties conducting renovation and/or demolition activities should follow all applicable federal, state, and local regulations in handling identified and suspect ACM and LBP.

The information contained in the report was based upon specific paramcters and regulations in force at the time of the survey. The information herein is only for the specific use of NAVFAC SE, NAS Meridian and TTL, unless written authorization is obtained from TTL. TTL accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, nor does this report represent an instrument of regulatory compliance or an asbestos or LBP abatement specification.

APPENDIX A

TTL AND TIOGA CERTIFICATIONS

State of Mississippi

Department of Environmental Quality
Office of Pollution Control

Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act,
Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Adam G Mead

Having submitted acceptable evidence of qualifications and
training and other appropriate information, is hereby granted this

Asbestos Inspector

Certification

Chief, Asbestos & Lead Certification Branch

Certificate No.: ABI-00006853
Expiration Date: Jul 9th, 2015
Training Expires on Jul 9th, 2015

66986 LIC20140001

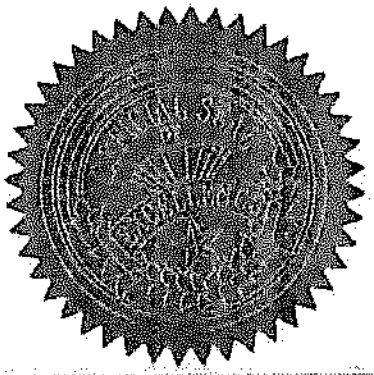
Certificate of Achievement

Raymond Kennedy III

Pickering Environmental Consultants, Inc

Has successfully completed the
Thermo Fisher Scientific NITON Analyzers Manufacturer's Training Course
and is now certified in radiation safety and monitoring, device operation,
and machine maintenance of the ***NITON XRF Analyzer.***
Certificate issued by Thermo Fisher Scientific NITON Analyzers
(CIH's – The ABIH Awards 1 CM point, approval # 07-1596)

ThermoFisher
SCIENTIFIC



Matthew Szymanski

Training Coordinator

Kenneth P. Smith

Director of Training

0033000000PLPqi

Certificate Number

2007 May 31 (Tampa, FL

Date & Site of Course

STATE OF MISSISSIPPI
PHIL BRYANT
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
GARY C. RIKARD, EXECUTIVE DIRECTOR

June 3, 2015

Raymond P. Kennedy
TIOGA Environmental Consultants Inc
357 North Main Street
Memphis, Tennessee 38103

Re: Certificate of Licensure
Lead Risk Assessor Certification

Your application for certification as a Lead Risk Assessor has been approved by the Lead Certification Branch in accordance with the Mississippi Regulations for Lead-Based Paint Activities, Miss. Code Annotated Sections 49-17-501 through 49-17-531. Your Mississippi Certification number is PRA-00001519 which is reflected on your enclosed Mississippi Certification identification card or certificate.

Your Mississippi Certification is valid through Jun 2nd, 2016. In order to maintain certification as a Lead Risk Assessor, you must renew your license on or before the expiration date stated on your card or certificate and pay the renewal fee. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Mississippi Regulations for Lead-Based Paint Activities and may be cited for non-compliance.

It is your responsibility to ensure that you have met all the requirements for renewal of your lead certification.

If you have any questions, please feel free to contact Virginia Rickels at (601) 961-5777.

Sincerely,

Mr. Connie Simmons, P.E., Chief
Asbestos & Lead Certification Branch

Enclosure

48405 LIC20150002

STATE OF MISSISSIPPI
PHIL BRYANT
GOVERNOR
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY
GARY C. RIKARD, EXECUTIVE DIRECTOR

December 31, 2014

Tioga Environmental Consultants, Inc.
2574 Sam Cooper Boulevard
2nd Floor
Memphis, Tennessee 38112

Re: Certificate of Licensure
Lead Based Abatement Firm Certification

Your application for certification as a Lead Based Abatement Firm has been approved by the Lead Certification Branch in accordance with the Mississippi Regulations for Lead-Based Paint Activities, Miss. Code Annotated Sections 49-17-501 through 49-17-531. Your Mississippi Certification number is PBF-00000035 which is reflected on your enclosed Mississippi Certification identification card or certificate.

Your Mississippi Certification is valid through Dec 30th, 2015. In order to maintain certification as a Lead Based Abatement Firm, you must renew your license on or before the expiration date stated on your card or certificate and pay the renewal fee. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Mississippi Regulations for Lead-Based Paint Activities and may be cited for non-compliance.

It is your responsibility to ensure that you have met all the requirements for renewal of your lead certification.

If you have any questions, please feel free to contact Virginia Rickels at (601) 961-5777.

Sincerely,

Mr. Connie Simmons, P.E., Chief
Asbestos & Lead Certification Branch

Enclosure

52439 LIC20140004

State of Mississippi

Department of Environmental Quality
Office of Pollution Control

Certificate of Licensure

In accordance with the Lead-Based Paint Activity Accreditation and Certification Act, Mississippi Code Annotated Sections 49-17-501 through 49-17-531

Be it known that

Tioga Environmental Consultants, Inc.

Having submitted acceptable evidence of qualifications and other appropriate information, is hereby granted this

Lead Based Abatement Firm

Certification

Certificate No.: PBF-00000035
Expiration Date: Dec 30th, 2015

Chief, Asbestos & Lead Certification Branch

STATE OF MISSISSIPPI

PHIL BRYANT

GOVERNOR

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

GARY C. RIKARD, EXECUTIVE DIRECTOR

December 31, 2014

Tioga Environmental Consultants, Inc.
2574 Sam Cooper Boulevard
2nd Floor
Memphis, Tennessee 38112

Re: Certificate of Licensure
Lead Renovator Firm Certification

Your application for certification as a Lead Renovator Firm has been approved by the Lead Certification Branch in accordance with the Mississippi Regulations for Lead-Based Paint Activities, Miss. Code Annotated Sections 49-17-501 through 49-17-531. Your Mississippi Certification number is NBF-00000035 which is reflected on your enclosed Mississippi Certification identification card or certificate.

Your Mississippi Certification is valid through Dec 30th, 2015. In order to maintain certification as a Lead Renovator Firm, you must renew your license on or before the expiration date stated on your card or certificate and pay the renewal fee. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Mississippi Regulations for Lead-Based Paint Activities and may be cited for non-compliance.

It is your responsibility to ensure that you have met all the requirements for renewal of your lead certification.

If you have any questions, please feel free to contact Virginia Rickels at (601) 961-5777.

Sincerely,

Mr. Connie Simmons, P.E., Chief
Asbestos & Lead Certification Branch

Enclosure

52439 LIC20140003

State of Mississippi

Department of Environmental Quality
Office of Pollution Control

Certificate of Licensure

In accordance with the Lead-Based Paint Activity Accreditation and Certification Act, Mississippi Code Annotated Sections 49-17-501 through 49-17-531

Be it known that

Tioga Environmental Consultants, Inc.

Having submitted acceptable evidence of qualifications and other appropriate information, is hereby granted this

Lead Renovator Firm

Certification

Certificate No.: NBF-00000035
Expiration Date: Dec 30th, 2015

Chief, Asbestos & Lead Certification Branch

APPENDIX B

ASBESTOS HOMOGENEOUS SAMPLING AREAS TABLE

Homogeneous Sampling Areas Table

Building 158

NAS Meridian

HSA No.	Material Description	Friability	Functional Area	Quantity	Units	Condition	Sample Results
158-01	Plastic Panel Covered Drywall with Associated Tan Glue	NF-II	Dining Room	128	s.f.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated Tan Glue	NF-II	Kitchen	80	s.f.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated Tan Glue	NF-II	Prep Area	832	s.f.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated Tan Glue	NF-II	Restroom	320	s.f.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated Tan Glue	NF-II	Foyer	224	s.f.	Good	NEGATIVE
			Total	1,584	s.f.		
158-02	2' x 2' Drywall Ceiling Panels	NF-II	Dining Room	774	s.f.	Good	NEGATIVE
158-02	2' x 2' Drywall Ceiling Panels	NF-II	Office	60	s.f.	Good	NEGATIVE
158-02	2' x 2' Drywall Ceiling Panels	NF-II	Kitchen	180	s.f.	Good	NEGATIVE
158-02	2' x 2' Drywall Ceiling Panels	NF-II	Prep Area	266	s.f.	Good	NEGATIVE
158-02	2' x 2' Drywall Ceiling Panels	NF-II	Restroom	96	s.f.	Good	NEGATIVE
158-02	2' x 2' Drywall Ceiling Panels	NF-II	Foyer	48	s.f.	Good	NEGATIVE
			Total	1,424	s.f.		
158-03	4" Blue Cove Base and Associated Glue	NF-II	Dining Room	16	l.f.	Good	NEGATIVE
			Total	16	l.f.		
158-04	4" Black Cove Base and Associated Glue	NF-II	Dining Room	115	l.f.	Good	NEGATIVE
158-04	4" Black Cove Base and Associated Glue	NF-II	Office	34	l.f.	Good	NEGATIVE
158-04	4" Black Cove Base and Associated Glue	NF-II	Foyer	28	l.f.	Good	NEGATIVE
			Total	177	l.f.		
158-05	White Caulk	NF-II	Prep Area	30	l.f.	Good	NEGATIVE
			Total	30	l.f		
158-06	Roof Deck Insulation	F	Throughout	1,404	s.f.	Good	NEGATIVE
			Total	1,404	s.f.		
158-07	Black Glue Pods	NF-II	Dining Mirrors	80	s.f.	Good	POSITIVE
158-07	Black Glue Pods	NF-II	Office Mirrors	45	s.f.	Good	POSITIVE
158-07	Black Glue Pods	NF-II	Restroom Mirrors	5	s.f.	Good	POSITIVE
			Total	130	s.f.		

Homogeneous Sampling Areas Table

Building 158

NAS Meridian

HSA No.	Material Description	Friability	Functional Area	Quantity	Units	Condition	Sample Results
158-08	Grey Exterior Window and Door Frame Caulk	NF-II	West Side	80	s.f.	Good	NEGATIVE
158-08	Grey Exterior Window and Door Frame Caulk	NF-II	North Side	137	s.f.	Good	NEGATIVE
158-08	Grey Exterior Window and Door Frame Caulk	NF-II	East Side	65	s.f.	Good	NEGATIVE
			Total	**282**	**s.f.**		
158-09	Roofing Materials	NF-I	Roof	1,512	s.f.	Good	NEGATIVE
			Total	**1,512**	**s.f.**		
158-10	Flashing	NF-I	Roof	164	s.f.	Good	NEGATIVE
			Total	**164**	**s.f.**		
158-11	Roofing Materials	NF-I	Freezer Roof	144	s.f.	Good	NEGATIVE
			Total	**144**	**s.f.**		

FRIABILITY:
F: Friable
NF-I: Non-Friable Category I
NF-II: Non-Friable Category II

Units:
l.f.: Linear Feet
s.f.: Square Feet

CONDITION:
Good: Little or no damage
Damaged: Less than 10% damage of total surface area, or less than 25% damage in a localized area
Significantly Damaged: Greater than 10% damage of total surface area, or greater than 25% damage in a localized area

RESULTS:
Positive: Greater than 1% asbestos
Negative: Less than 1% asbestos

APPENDIX C

ASBESTOS SAMPLE LOCATIONS DIAGRAM

	1204701-07H
	DRAWING NUMBER
	JOB NO. 1204.7.01
	REVISED
	DRAWN CLW/08-17-15 CHECKED
	APPROVED

NAVFAC SE
PREPARED FOR
MERIDIAN, MISSISSIPPI

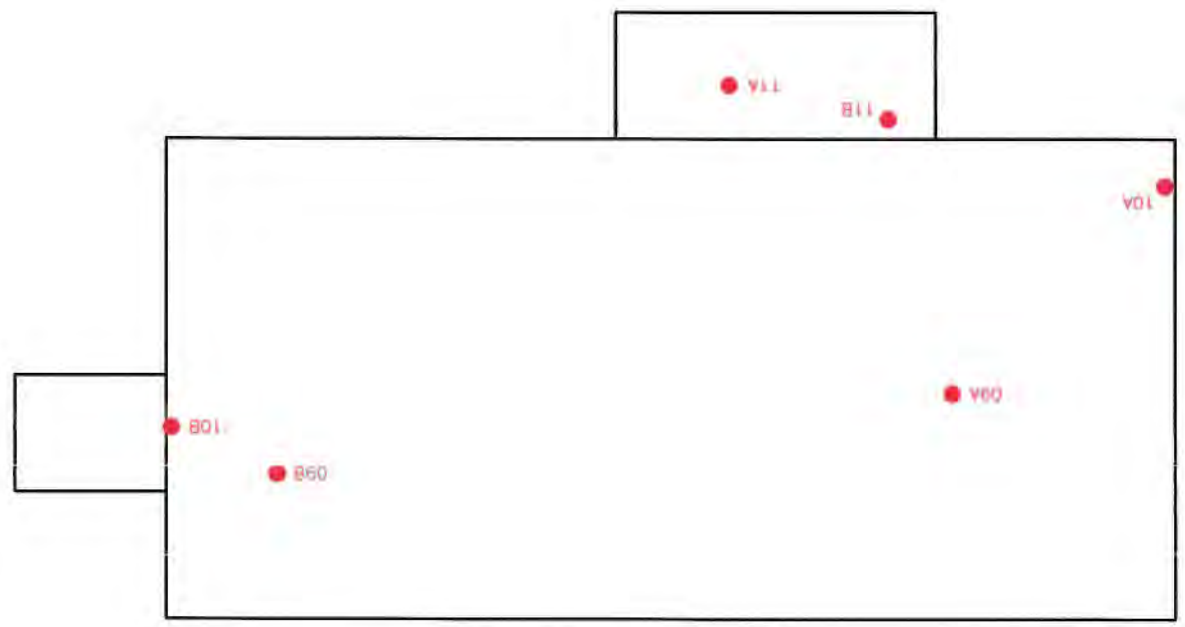
FIGURE 1.0
ASBESTOS SURVEY SAMPLE LOCATION DIAGRAM
BUILDING 158 (MOM'S DINER) – FIRST FLOOR AND ROOF
NAS MERIDIAN
MERIDIAN, MISSISSIPPI

NOT TO SCALE

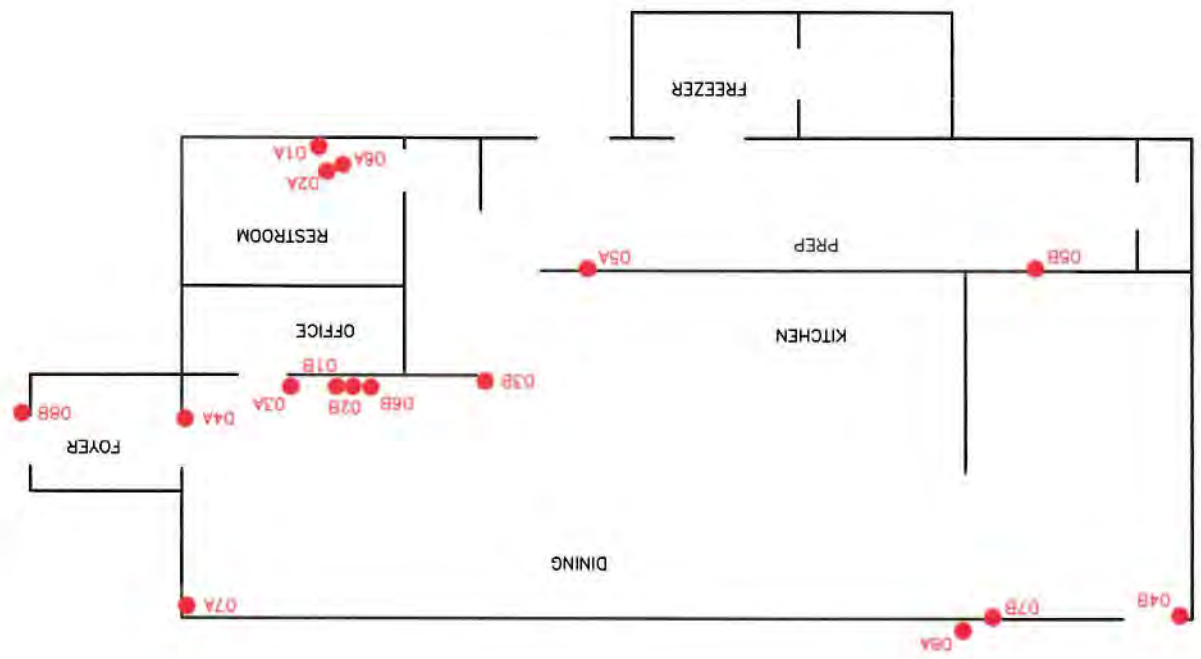
LEGEND

D1A ● APPROXIMATE SAMPLE LOCATION

ROOF



FIRST FLOOR



N

APPENDIX D

ASBESTOS LABORATORY ANALYTICAL REPORT

1915 North 12th Street
Toledo, OH 43604-5305
T 419-324-2222
F 419-241-1808
www.ttlassoc.com

CLIENT: NAVFAC Southeast
Meridian 229 Allen Road
MERIDIAN, MISSISSIPPI

DATE: April 24, 2015

ATTN: Mr. Jason Clayton

Project No.: 12047.01

Lab Receiving No.: 15-04-204384

Date Received: April 15, 2015

Date Sampled: April 9, 2015

Project Location: NAVFAC Southeast
NAS Meridian
Building 158
Meridian, Mississippi

Sample Point(s): see analytical results

Analysis Performed: Asbestos Analysis by PLM

Reviewed by: Myron V. Gasiorowski Date: 04/24/2015
Myron V. Gasiorowski, Lab Supervisor

Approved by: Sara Vogelpohl Date: 04/24/2015
Sara Vogelpohl , Technical Manager

ANALYTICAL NARRATIVE

The note(s) below pertain to the sample(s) and analytical data reported herein:

Quantitative results are listed as approximate % asbestos. Results are based on calibrated visual estimation of materials. All results <1% asbestos (Trace) have been confirmed by the analysis of a duplicate slide. As per the method, all "negative" or BDL samples have been confirmed by triplicate analyses. Due to the nature of the samples the following measurements of uncertainty may apply:

% Asbestos	Uncertainty
1%	± 2%
5%	± 4%
10%	± 5%
>20%	± 10%

Due to the complexity of analyzing floor tile by PLM, the client may want to consider having "negative" floor tiles analyzed further by an alternative method such as TEM.

Samples are archived by TTL Associates for a period of thirty days. Samples may be retained for a longer period of time or returned to the client upon written request.

Laboratory Accreditation:

U.S. Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP), Lab #101594-0. Accredited to the 1982 Interim Method for the Determination of Asbestos in Bulk Insulation Samples, 40 CFR, Part 763, Subpart E, Appendix E and the "Method of the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116, 7/93 Edition.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested, and may not be reproduced, except in full, without the written approval of the laboratory.

Report Key:

BDL = Below Detection Level
n/a = not applicable
HSA = Homogeneous Sampling Area

Detection Level: 1% asbestos fibers greater than one micrometer in length.

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM003115, 2PLM003415
DATE ANALYZED:	April 22, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
222677	1204701-158-01A Layer A	158-01	Restroom, south wall, drywall	White Gypsum Board	98% Binder, 1% Cellulose, 1% Fiberglass	BDL
222677	1204701-158-01A Layer B	158-01	same	Tan Backing	100% Cellulose	BDL
222677	1204701-158-01A Layer C	158-01	same	Yellow Glue	100% Binder	BDL
222677	1204701-158-01A Layer D	158-01	same	White Wall Covering	85% Binder, 15% Fiberglass	BDL
222678	1204701-158-01B Layer A	158-01	Dining room, south wall, east end, drywall	White Gypsum Board	98% Binder, 1% Cellulose, 1% Fiberglass	BDL
222678	1204701-158-01B Layer B	158-01	same	Green Backing	100% Cellulose	BDL
222678	1204701-158-01B Layer C	158-01	same	White Glue	100% Binder	BDL
222678	1204701-158-01B Layer D	158-01	same	White Wall Covering	85% Binder, 15% Fiberglass	BDL
222679	1204701-158-02A Layer A	158-02	Restroom, south wall, 2' x 2' ceiling tile	White Gypsum Board	98% Binder, 2% Fiberglass	BDL

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM003115, 2PLM003415
DATE ANALYZED:	April 22, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
222679	1204701-158-02A Layer B	158-02	same	Tan Backing	100% Cellulose	BDL
222679	1204701-158-02A Layer C	158-02	same	White Covering	100% Binder	BDL
222680	1204701-158-02B Layer A	158-02	Dining room, south wall, east end, 2' x 2' ceiling tile	White Gypsum Board	98% Binder, 2% Fiberglass	BDL
222680	1204701-158-02B Layer B	158-02	same	Tan Backing	100% Cellulose	BDL
222680	1204701-158-02B Layer C	158-02	same	White Covering	100% Binder	BDL
222681	1204701-158-03A Layer A	158-03	Dining room, south wall, east end, 4" blue cove base	Blue Molding	100% Binder	BDL
222681	1204701-158-03A Layer B	158-03	same	White Glue	100% Binder	BDL
222682	1204701-158-03B Layer A	158-03	Dining room, south wall, east end, 4" blue cove base	Blue Molding	100% Binder	BDL
222682	1204701-158-03B Layer B	158-03	same	White Glue	100% Binder	BDL
222683	1204701-158-04A Layer A	158-04	Dining room, east wall, 4" black cove base	Black Molding	100% Binder	BDL

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM003115, 2PLM003415
DATE ANALYZED:	April 22, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
222683	1204701-158-04A Layer B	158-04	same	White Glue	100% Binder	BDL
222684	1204701-158-04B Layer A	158-04	Dining room, northwest corner, 4" black cove base	Black Molding	100% Binder	BDL
222684	1204701-158-04B Layer B	158-04	same	Beige Glue	100% Binder	BDL
222685	1204701-158-05A	158-05	Preparation area, north wall, white caulk	White Caulk	100% Binder	BDL
222686	1204701-158-05B	158-05	Preparation area, north wall, white caulk	Clear Caulk	100% Binder	BDL
222687	1204701-158-06A Layer A	158-06	Restroom, south wall, deck insulation	Yellow Insulation	4% Binder, 96% Mineral Wool	BDL
222687	1204701-158-06A Layer B	158-06	same	Silver Foil Wrap	80% Binder, 10% Cellulose, 10% Fiberglass	BDL
222687	1204701-158-06A Layer C	158-06	same	Clear Glue	100% Binder	BDL
222688	1204701-158-06B Layer A	158-06	Dining room, south wall, east end, deck insulation	Yellow Insulation	4% Binder, 96% Mineral Wool	BDL

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM003115, 2PLM003415
DATE ANALYZED:	April 22, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
222688	1204701-158-06B Layer B	158-06	same	Tan/Silver Foil Wrap	60% Binder, 30% Cellulose, 10% Fiberglass	BDL
222688	1204701-158-06B Layer C	158-06	same	Clear Glue	100% Binder	BDL
222689	1204701-158-07A	158-07	Dining room, northeast corner, black glue pods	Black Glue	88% Binder	**12% Chrysotile**
222690	1204701-158-07B	158-07	Dining room, north wall, west end, black glue pods	Black Glue	88% Binder	**12% Chrysotile**
222691	1204701-158-08A	158-08	Exterior, north wall, grey caulk	Silver Grey Caulk	100% Binder	BDL
222692	1204701-158-08B	158-08	Exterior, east wall, grey caulk	Clear Caulk	100% Binder	BDL

ITL associates inc

1915 North 12th St., Toledo, OH 43604-5305; Voice 419-324-2222, Fax 419-241-1808
Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St., Toledo, OH 43604-5305
Sent From: ☑ Toledo ☐ Plymouth ☐ Detroit ☐ Other

Chain of Custody Record

Page 1 of 2

Project No.:		Client:	
P.O. No.:		Project/Location:	
Project Mgr.:		Sampler's Name	
Phone No.		Sampler's Signature	

Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Total No. of Containers	Parameters	Preserved Yes/No	LAB USE ONLY Lab #
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Item No.	Relinquished By:	Date / Time	Received By:	Date / Time

LAB USE ONLY

Were samples delivered ☐ in person ☐ by courier
Were samples preserved ☐ in field ☐ in lab ☐ N/A
Temp of samples ___ °C
Did samples arrive intact and sealed? ☐ yes ☐ no ☐ N/A
Were proper containers used? ☐ yes ☐ no
Was container labeled properly for contents? ☐ yes ☐ no
Were samples packaged properly for type of material? ☐ yes ☐ no
Was shipping label completed properly per regulations? (49 CFR 170, etc.) ☐ yes ☐ no
Samples were ☐ accepted ☐ rejected
Comments:

TAT

Distribution: Original plus one accompanies shipment (white and yellow); copy to coordinator field files (pink)

Rev. 09/14

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM003115, 2PLM003415
DATE ANALYZED:	April 22, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
222688	1204701-158-06B Layer B	158-06	same	Tan/Silver Foil Wrap	60% Binder, 30% Cellulose, 10% Fiberglass	BDL
222688	1204701-158-06B Layer C	158-06	same	Clear Glue	100% Binder	BDL
222689	1204701-158-07A	158-07	Dining room, northeast corner, black glue pods	Black Glue	88% Binder	**12% Chrysotile**
222690	1204701-158-07B	158-07	Dining room, north wall, west end, black glue pods	Black Glue	88% Binder	**12% Chrysotile**
222691	1204701-158-08A	158-08	Exterior, north wall, grey caulk	Silver Grey Caulk	100% Binder	BDL
222692	1204701-158-08B	158-08	Exterior, east wall, grey caulk	Clear Caulk	100% Binder	BDL

TTL Associates, Inc.

1915 North 12th St, Toledo, OH 43604-5305, Voice 419-324-2222, Fax 419-241-1808
Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St. Toledo, OH 43604-5305
Sent From: ☒ Toledo ☐ Plymouth ☐ Detroit ☐ Other

Chain of Custody Record

№ 28130 Page 1 of 2

Project No.: 1201701
Client: MAS Michigan
P.O. No.:
Project/Location: Building 158
Project Mgr.: Adam Meads
Sampler's Name: Adam [illegible]
Phone No.:
Sampler's Signature: [signature]

Parameters: [illegible]

Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Total No. of Containers	[illegible]	Preserved Yes/No	LAB USE ONLY Lab #
1	120-001-158-01A	4/5/15	NA	Bulk	Solid	Drywall Restroom South Wall	1	X		222677
2	158-01B	↓	↓	↓	↓	↓ Dining Room South Wall East Exit	1	X		222678
3	158-02A					2x2 ceiling Restroom South Wall	1	X		222679
4	158-02B					↓ Dining Room South Wall East Exit	1	X		222680
5	158-02C					12" Blue Cove Base Dining Room South Wall [illegible]	1	X		222681
6	158-03D					↓ Dining Room South Wall East Exit	1	X		222682
7	158-04A					4" Black Cove Base Dining Room East Wall	1	X		222683
8	158-04B					↓ Dining Room North of [illegible]	1	X		222684
9	158-05A					White Caulk Restroom [illegible]	1	X		222685
10	158-05B	↓	↓	↓	↓	↓ Prep Area [illegible]	1	X		222686

Rec'd 4/6/15

Item No.	Relinquished By:	Date / Time	Received By:	Date / Time
	[signature]	4/6/15 1600	[signature]	4/6/15 1600

LAB USE ONLY

- Were samples delivered ☐ in person ☒ by courier
- Were samples preserved ☐ in field ☐ in lab ☒ N/A
- Temp of samples NA °C
- Did samples arrive intact and sealed? ☒ yes ☐ no ☐ N/A
- Were proper containers used? ☒ yes ☐ no
- Was container labeled properly for contents? ☒ yes ☐ no
- Were samples packaged properly for type of material? ☒ yes ☐ no
- Was shipping label completed properly per regulations? (49 CFR 170, etc.) ☐ yes ☐ no
- Samples were ☒ accepted ☐ rejected
- Comments:

TAT: 5D

Distribution: Original plus one accompanies shipment (white and yellow); copy to coordinator field files (pink)

Rev. 09/14

TTL associates inc

1915 North 12th St., Toledo, OH 43604-5305; Voice 419-324-2222, Fax 419-241-1808
Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St., Toledo, OH 43604-5305
Sent From: ☒ Toledo ☐ Plymouth ☐ Detroit ☐ Other ______

Chain of Custody Record

28121 Page 2 of 2

Project No.: 17047.01	Client: NAS Meridian
P.O. No.:	Project/Location: Building 158
Project Mgr.: Adam Neal	Sampler's Name: [illegible]
Phone No.:	Sampler's Signature:

Parameters: [illegible] 4381; LAB USE ONLY: 116, 4/16/15

Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Total No. of Containers	[illegible]	Preserved Yes/No	Lab #
1	[illegible] 158-01A	4/[illegible]	NA	[illegible]	Solid	[illegible] [illegible] [illegible]	1	x		222687
2	158-01B	↓	↓	↓	↓	↓ [illegible]	1	x		222688
3	158-02A	↓	↓	↓	↓	[illegible] [illegible]	1	x		222689
4	158-02B	↓	↓	↓	↓	↓ [illegible]	1	x		222690
5	158-03A	↓	↓	↓	↓	[illegible] [illegible]	1	x		222691
6	158-03B	↓	↓	↓	↓	↓ [illegible]	1	x		222692
7										
8										
9										
10										

Item No.	Relinquished By:	Date / Time	Received By:	Date / Time
1-6	[signature]	4/[illegible] [illegible]	[signature]	4/16/15 1300

LAB USE ONLY

- Were samples delivered ☐ in person ☒ by courier
- Were samples preserved ☐ in field ☐ in lab ☒ N/A
- Temp of samples NA °C
- Did samples arrive intact and sealed? ☒ yes ☐ no ☐ N/A
- Were proper containers used? ☒ yes ☐ no
- Was container labeled properly for contents? ☒ yes ☐ no
- Were samples packaged properly for type of material? ☒ yes ☐ no
- Was shipping label completed properly per regulations? (49 CFR 170, etc.) ☐ yes ☐ no
- Samples were ☒ accepted ☐ rejected
- Comments: ______ TAT

1915 North 12th Street
Toledo, OH 43604-5305
T 419-324-2222
F 419-241-1808
www.ttlassoc.com

CLIENT: NAVFAC Southeast
Meridian 229 Allen Road
MERIDIAN, MISSISSIPPI

DATE: July 22, 2015

ATTN: Mr. Jason Clayton

Project No.: 12047.01

Lab Receiving No.: 15-06-204465

Date Received: June 22, 2015

Date Sampled: June 3, 2015

Project Location: NAVFAC Southeast
NAS Meridian
Building 158 Roof
Meridian, Mississippi

Sample Point(s): see analytical results

Analysis Performed: Asbestos Analysis by PLM

Reviewed by: Myron V. Gasiorowski Date: 07/21/2015
Myron V. Gasiorowski, Lab Supervisor

Approved by: Sara Vogelpohl Date: 07/22/2015
Sara Vogelpohl , Technical Manager

ANALYTICAL NARRATIVE

The note(s) below pertain to the sample(s) and analytical data reported herein:

Quantitative results are listed as approximate % asbestos. Results are based on calibrated visual estimation of materials. All results <1% asbestos (Trace) have been confirmed by the analysis of a duplicate slide. As per the method, all "negative" or BDL samples have been confirmed by triplicate analyses. Due to the nature of the samples the following measurements of uncertainty may apply:

% Asbestos	Uncertainty
1%	± 2%
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10%	± 5%
>20%	± 10%

Due to the complexity of analyzing floor tile by PLM, the client may want to consider having "negative" floor tiles analyzed further by an alternative method such as TEM.

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Report Key:

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n/a = not applicable
HSA = Homogeneous Sampling Area

Detection Level: 1% asbestos fibers greater than one micrometer in length.

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM011215
DATE ANALYZED:	July 21, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
224032	1204701-158-09A Layer A	158-09	Roofing	Black Tar Roofing	92% Binder, 8% Synthetic Fibers	BDL
224032	1204701-158-09A Layer B	158-09	same	Black Tar	80% Binder, 20% Cellulose	BDL
224032	1204701-158-09A Layer C	158-09	same	Brown Wood	100% Cellulose	BDL
224033	1204701-158-09B Layer A	158-09	Roofing	Black Tar Fabric	94% Binder, 6% Fiberglass	BDL
224033	1204701-158-09B Layer B	158-09	same	Black Tar Roofing	92% Binder, 8% Synthetic Fibers	BDL
224033	1204701-158-09B Layer C	158-09	same	Black Tar	80% Binder, 20% Cellulose	BDL
224034	1204701-158-10A Layer A	158-10	Flashing	Black Tar Roofing	90% Binder, 10% Synthetic Fibers	BDL
224034	1204701-158-10A Layer B	158-10	same	Black Tar	100% Binder	BDL
224034	1204701-158-10A Layer C	158-10	same	Black Tar	65% Binder, 35% Cellulose	BDL
224034	1204701-158-10A Layer D	158-10	same	Black Tar Roofing	90% Binder, 10% Cellulose	BDL

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM011215
DATE ANALYZED:	July 21, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
224034	1204701-158-10A Layer E	158-10	same	Black Tar Roofing	90% Binder, 10% Cellulose	BDL
224035	1204701-158-10B Layer A	158-10	Flashing	Black Tar Roofing	92% Binder, 8% Synthetic Fibers	BDL
224035	1204701-158-10B Layer B	158-10	same	Black Tar	100% Binder	BDL
224035	1204701-158-10B Layer C	158-10	same	Black Tar Paper Roofing	92% Binder, 8% Cellulose	BDL
224036	1204701-158-11A Layer A	158-11	Freezer roofing	White Coating	100% Binder	BDL
224036	1204701-158-11A Layer B	158-11	same	White Fabric Sheet	88% Binder, 12% Synthetic Fibers	BDL
224036	1204701-158-11A Layer C	158-11	same	Silver/Tan Foil Backing	40% Binder, 60% Cellulose	BDL
224036	1204701-158-11A Layer D	158-11	same	White Foam Insulation	100% Binder	BDL
224037	1204701-158-11B Layer A	158-11	Freezer roofing	White Coating	100% Binder	BDL
224037	1204701-158-11B Layer B	158-11	same	White Sheet	88% Binder, 12% Synthetic Fibers	BDL

POLARIZED LIGHT MICROSCOPY
ANALYTICAL RESULTS

METHOD NUMBER:	EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299
BATCH NUMBER:	2PLM011215
DATE ANALYZED:	July 21, 2015
ANALYST:	Myron Gasiorowski

LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
224037	1204701-158-11B Layer C	158-11	same	Silver/Tan Foil Backing	40% Binder, 60% Cellulose	BDL
224037	1204701-158-11B Layer D	158-11	same	White Foam Insulation	100% Binder	BDL

Chain of Custody Record

TTL associates, Inc.

1915 North 12th St., Toledo, OH 43604-5305; Voice 419-324-2222, Fax 419-241-1808
Ship To Address: ATTN: RECEIVING LAB, 1915 North 12th St., Toledo, OH 43604-5305
Sent From: ☒ Toledo ☐ Plymouth ☐ Detroit ☐ Other _____

NP 252B1 Page 1 of 1

Project No.: 12017.01	Client: NRG Midwest		
P.O. No.:	Project/Location: Bowline, NY		
Project Mgr.: Adam Mead	Sampler's Name: Adam Cooke		
Phone No.	Sampler's Signature:		

Parameters: RR# 4415

LAB USE ONLY: 216, 6/22/15

Item No.	Sample I.D.	Date Sampled	Time Sampled	Type	Matrix	Sample Location	Total No. of Containers	Preserved Yes/No	Lab #
1	12017.01-MW-09D	6/15/15	NA	Grab	Solid	Bowline	1	X	224032
2	MW-09D	"	"	"	"	Bowline	1	X	224033
3	MW-10I	"	"	"	"	Bowline	1	X	224034
4	MW-10D	"	"	"	"	Bowline	1	X	224035
5	MW-11D	"	"	"	"	Bowline	1	X	224036
6	MW-11S	"	"	"	"	Bowline	1	X	224037
7									
8									
9									
10									

Item No.	Relinquished By:	Date	Time	Received By:	Date	Time
1 & 6		6/22/15	0930		6/22/15	0945
	Relinquished By:	Date	Time	Received By:	Date	Time
	Relinquished By:	Date	Time	Received By:	Date	Time
	Relinquished By:	Date	Time	Received By:	Date	Time

LAB USE ONLY

Were samples delivered: ☒ in person ☐ by courier
Were samples preserved: ☐ in field ☐ in lab ☒ N/A
Temp of samples: NA °C
Did samples arrive intact and sealed? ☒ yes ☐ no ☐ N/A
Were proper containers used? ☒ yes ☐ no
Was container labeled properly for contents? ☒ yes ☐ no
Were samples packaged properly for type of material? ☒ yes ☐ no
Was shipping label completed properly per regulations? (49 CFR 170, etc.) ☐ yes ☐ no
Samples were: ☒ accepted ☐ rejected
Comments: _____

TAT: STD

Distribution: Original plus one accompanies shipment (white and yellow); copy to coordinator field files (pink)

09/14

APPENDIX E

ACM SAMPLE LOCATION PHOTOGRAPHIC DOCUMENTATION

HSA 158-01: Plastic Panel Covered Drywall with Associated Tan Glue. Sample A.

HSA 158-01: Plastic Panel Covered Drywall with Associated Tan Glue. Sample B.

HSA 158-02: 2' x 2' Drywall Ceiling Panel. Sample A.

HSA 158-02: 2' x 2' Drywall Ceiling Panel. Sample B.

HSA 158-03: 4" Blue Cove Base and Associated Glue. Sample A.

HSA 158-03: 4" Blue Cove Base and Associated Glue. Sample B.

HSA 158-04: 4" Black Cove Base and Associated Glue. Sample A.

HSA 158-04: 4" Black Cove Base and Associated Glue. Sample B.

HSA 158-05: White Caulk. Sample A.

HSA 158-05: White Caulk. Sample B.

HSA 158-06: Roof Deck Insulation. Sample A.

HSA 158-06: Roof Deck Insulation. Sample B.

HSA 158-07: Black Glue Pods. Sample A.

HSA 158-07: Black Glue Pods. Sample B.

HSA 158-08: Grey Exterior Window and Door Frame Caulk. Sample A.

HSA 158-08: Grey Exterior Window and Door Frame Caulk. Sample B.

HSA 158-09: Roofing Materials. Sample A.

HSA 158-09: Roofing Materials. Sample B.

HSA 158-10: Flashing. Sample A.

HSA 158-10: Flashing. Sample B.

HSA 158-11: Roofing Materials. Sample A.

HSA 158-11: Roofing Materials. Sample B.

APPENDIX F

XRF ANALYZER DATA TABLE

XRF Analyzer Data Table

Building 158

NAS Meridian

READING NO	TIME	COMPONENT	FEATURE	SUBSTRATE	COLOR	SIDE	CONDITION	ROOM	SITE	INSPECTOR	RESULTS	LEAD CONTENT	XRF ANALYZER ERROR (+/-)	UNITS
596	4/16/2015 15:32							CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	0.9	0.1	mg / cm ^2
597	4/16/2015 15:34							CALIBRATE	NAS MERIDIAN	KENNEDY	POSITIVE	1	0.1	mg / cm ^2
598	4/16/2015 15:36							CALIBRATE	NAS MERIDIAN	KENNEDY	POSITIVE	1	0.1	mg / cm ^2
599	4/16/2015 16:20	DOOR	CASING		WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
600	4/16/2015 16:20	DOOR	JAMB		WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
601	4/16/2015 16:20	DOOR	CASING		WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
602	4/16/2015 16:21	DOOR			WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
603	4/16/2015 16:21	DOOR			WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
604	4/16/2015 16:23	CEILING	BEAM	METAL	RED	A	INTACT	DINING ROOM	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
605	4/16/2015 16:28	PIPE		METAL	WHITE	C	INTACT	EXTERIOR	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
606	4/16/2015 16:32							CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	0.9	0.1	mg / cm ^2
607	4/16/2015 16:34							CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	0.8	0.1	mg / cm ^2
608	4/16/2015 16:36							CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	0.9	0.1	mg / cm ^2

mg / cm ^2: milligrams per square centimeter

XRF Analyzer Error (+/-): XRF Analyzer instrument analytical uncertainty range

REPORT OF
LEAD-BASED PAINT INSPECTION
AND ASBESTOS SURVEY

BUILDINGS 177, 178 & T23
NAS MERIDIAN
MERIDIAN, MISSISSIPPI

Prepared for:	NAS Meridian Public Works Department 229 Allen Road Meridian, Mississippi 39309-5003
Date of Issue:	May 7, 2007
Prepared by:	Unified Testing & Engineering Services, Inc.
UTS File Number:	E-NA02-750-002

UTS UNIFIED TESTING & ENGINEERING SERVICES, INC.
304 Canyon Park Drive · Pelham Alabama 35124 · Telephone 205.664.3641 · Facsimile 205.621.7136

UTS UNIFIED TESTING & ENGINEERING SERVICES, INC.
304 Canyon Park Drive · Pelham Alabama 35124 · Telephone 205.664.3641 · Facsimile 205.621.7136

May 7, 2007

NAS Meridian
Public Works Department
229 Allen Road
Meridian, Mississippi 39309-5003

Attention: Mr. Herbert Joyner

Subject: Lead-Based Paint and Asbestos Inspection
Buildings 177, 178 & T23
NAS Meridian, Mississippi
UTS Project Number E-NA02-750-002

Dear Mr. Joyner:

On April 26, 2007, Unified Testing & Engineering Services, Inc. (UTS) representative James A. Matthews visited the subject site. The purpose of the visit was to sample and analyze typical suspect asbestos containing materials and lead-based paint containing surfaces at the subject buildings. The asbestos survey was performed in general accordance with AHERA guidelines for asbestos inspection and the lead-based paint inspection was conducted in general accordance with EPA and HUD Guidelines. Please note that the observations and testing are not intended to meet health related requirements. They are intended to provide general locations of identified asbestos containing materials (ACMs) and lead-based paint in the subject buildings.

Lead-based paint containing surfaces were identified at the subject facilities. Asbestos containing materials were not identified in the subject facilities. This report includes a narrative summary of the testing results and actual field data for the location tested including associated calibration information.

Upon review of this report, if you have questions or if we may provide additional information, please contact our office at your convenience. We appreciate the opportunity to be of service.

Respectfully submitted,
Unified Testing & Engineering Services, Inc.

James A. Matthews
Asbestos Inspector No. I-006335
Lead-Based Paint Inspector No. 30-1000005

Judith A. Pike, P.E.
Environmental Operations Manager

TABLE OF CONTENTS

APPENDICES

REPORT OF
LEAD-BASED PAINT AND ASBESTOS SURVEY

BUILDINGS OFF FLIGHT LINE
NAS MERIDIAN, MISSISSIPPI

1.0 INTRODUCTION

Unified Testing & Engineering Services, Inc. (UTS) representatives performed a lead-based paint inspection and asbestos survey for the buildings designated as 177, 178 & T23 on April 26, 2007. The inspection was performed in an attempt to identify areas of lead-based paint and to collect and analyze typical suspect asbestos-containing materials in the facilities scheduled for demolition or renovation. The following report and enclosed data provides a summary of the findings of this survey. Please note that UTS did not inspect or survey the subject facilities for any environmental concerns other than the lead-based paint and asbestos.

2.0 SITE INFORMATION

The subject buildings are situated at the Naval Air Station (NAS) in Meridian, Mississippi. The dates of construction are unknown. The buildings were not identified by addresses but were numbered 177, 178 & T23.

3.0 LEAD-BASED PAINT INSPECTION PROCEDURES

On April 26, 2007, UTS representative James A. Matthews mobilized to the subject facilities. Utilizing a Niton XL, Model 309 XRF unit, the technician performed an inspection of the painted surfaces of the facility.

The Lead-Based Paint XRF Test Results found in Appendix B indicate the results delivered by the Niton Model 309 XRF manufacturer's programming format for positive or negative results based upon HUD guidelines for LBP. HUD considers an XRF test indicating paint in concentrations of 1.0 milligrams per square centimeter (mg/square cm) or greater as positive; concentrations less than 1.0 mg/ square cm are considered negative. The actual lead content results are provided in the column labeled PbL. In test where lead was indicated, the XRF was operated to a precision of + or - 0.1 mg/square cm. Locations of components tested are designated as sides A, B, C and D, with Side A being the side of the structure containing the main entrance. Sides B, C and D are labeled in a clockwise manner around the structure to describe testing locations of both exterior and interior components.

Upon start-up of the Niton XL, the machine performs a shutter calibration. Another shutter calibration was performed at the close of testing. A total of 2 shutter calibrations was performed. During the inspection Mr. Matthews made 2 calibration checks of the Niton XL for a total of 6 tests during the inspection. The inspection included 52 more tests, for a total of 60 XRF tests performed at the subject property. Appendix A is the calibration checklist. Appendix B includes the XRF computer printout, which lists the XRF number, location, and results of each test. A diagram of the subject area is included in Appendix D.

4.0 POSITIVE RESULTS

The following table summarizes locations of lead-based paint containing components detected in concentrations of 1.0 mg/cm squared or greater as defined by HUD. For specific test locations and results, please refer to Appendix B of this report.

TABLE 1: IDENTIFIED LEAD-BASED PAINT CONTAINING COMPONENTS

Site	XL Number	Location	Side	Source	Feature	Substrate	Color	Condition
Building 177	41	Wash Area	D	Ext Wall	Signage	Concrete	Yellow	Intact
Building 177	43	Wash Area		Ext Floor	Signage	Concrete	Yellow	Intact
Building 177	50	Outside	D	Wall	Storage Box	Metal	Yellow	Intact
T23 Cell	56	Cable Tray	D	Pan		Metal	Yellow	Intact

5.0 ASBESTOS SURVEY AND SAMPLING STRATEGY

A walk-through visual inspection for suspect Asbestos Containing Materials (SACMs) was performed within the subject buildings. Materials suspected of containing asbestos were noted as to type and location. The suspect asbestos-containing materials (ACMs) sampled are as follows:

TABLE 2: SAMPLED SUSPECT ASBESTOS MATERIALS

Sample Number	Building Designation	Location of Material	Material Identification
178-1-1	Building 178	Roof	Roofing
178-2-1	Building 178	Room 1	Drywall
178-2-2	Building 178	Bath	Drywall
178-3-1	Building 178	Room 1	12" x 12" Floor Tile
178-3-2	Building 178	Room 1	12" x 12" Floor Tile

6.0 LABORATORY ANALYSIS AND RESULTS

Suspect asbestos bulk samples obtained were shipped with a relevant chain of custody to MAS, LLC. MAS, LLC is accredited under the National Institute of Standards and Technology (NIST) National

Voluntary Laboratory Accreditation Program (NVLAP), Accreditation No. 1165. Samples were analyzed using Polarized Light Microscopy (PLM) and dispersion staining. This procedure is described in an Appendix to EPA CFR 763. Polarized light microscopy is a technique that is used to identify asbestos fibers by their shape and unique optical properties. The percentage composition of each bulk sample was visually estimated. This is EPA's preferred method for analyzing bulk material samples for asbestos.

Detailed results of the laboratory analysis for each SACM sample are attached at the end of this report. The following materials were identified or assumed to be asbestos-containing materials:

TABLE 3: IDENTIFIED ASBESTOS CONTAINING MATERIALS

Sample Number	Location of Material	Material Identification	Asbestos Content	Friable
No asbestos identified.				

7.0 RECOMMENDATIONS

Based on the results of the lead-based paint and asbestos inspection, the following actions are recommended:

Lead-based paint was identified in subject building T23 and in numerous areas of the subject building 177. Disturbance, including removal, of these components and materials should be undertaken by appropriate trained personnel in accordance with OSHA, EPA, HUD and all federal, state and local regulations.

Some painted surfaces may contain levels of lead below 1.0 mg/cm^2. These components could create lead dust or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping or sanding. If conditions of intact paint surfaces become destabilized, these conditions will need to be addressed in the future. If any construction or modernization work is done on the premises, this report should be given to the contractors as well as the employees.

8.0 NOTES AND COMMENTS

The scope of our service was limited to providing a lead-based paint inspection and asbestos survey in areas scheduled for renovation. UTS did not perform a lead-based paint risk assessment or consultation for this project. Should the testing provided indicate the presence of lead-based paint or asbestos you may contact UTS to provide additional services or you may contact one of the following for assistance:

- Local Health Department
- US Environmental Protection Agency
- US Department of Housing and Urban Development
- Nearest Poison Control Center

Please note that lead-based paint and asbestos containing materials should not be disturbed without proper training and equipment.

9.0 DISCLOSURE STATEMENT

A copy of this report must be provided to purchasers and made available to new tenants of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. Landlords and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

- END OF REPORT -

APPENDIX A

CALIBRATION CHECK TEST RESULTS

CALIBRATION CHECK TEST RESULTS

Address: Flight Line Bldgs.
NAS Meridian, Ms.

Device: Niton XL 309 XRF Serial No. ☑ U901NR7756 ☐ U611NR7972

Contractor Name: Unified Testing & Engineering Services, Inc. Date: 4/20/07

Inspector Name: James A. Matthews (LRA0706M0674) Signature: James A. Matthews

NIST SRM Used 1.0 mg/cm² Calibration Check Tolerance Used ±.1 mg/cm²

First Calibration Check

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.0	1.1	1.0		
#2	#3	#4		

Second Calibration Check

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.1	1.0	1.1		
#57	#58	#59		

Third Calibration Check (if required)

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Fourth Calibration Check (if required)

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check Test.

Rev. 7/06

APPENDIX B

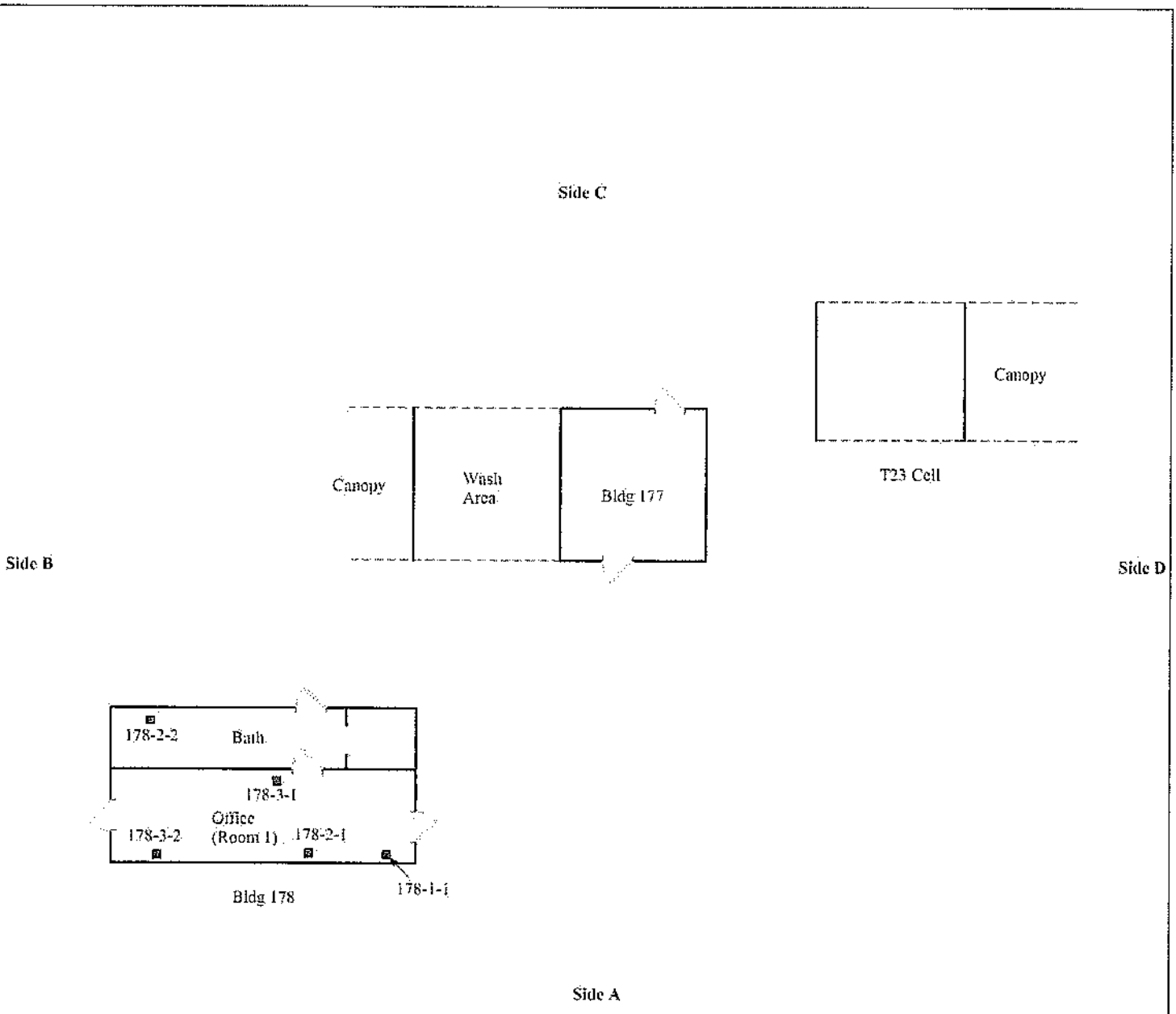
XRF COMPUTER PRINTOUT

APPENDIX C

LABORATORY ANALYSIS
AND
CHAIN OF CUSTODY RECORD

APPENDIX D

SITE DIAGRAM



Buildings 177, 178 &T23 NAS Meridian, Mississippi	Date of Inspection: April 26, 2007 UTS Project No. E-NA02-750-002 Drawing Not to Scale

UNIFIED TESTING & ENGINEERING SERVICES, INC. • 304 CANYON PARK DRIVE • PELHAM, ALABAMA 35124

APPENDIX E

PHOTOGRAPHS

PHOTOGRAPH LOG

Lead-Based Paint Inspection and Asbestos Survey

BUILDINGS 177, 178 & T23

NAS MERIDIAN, MISSISSIPPI

PHOTO NUMBER	PHOTOGRAPH REVIEW AND COMMENTS
1	Building 178
2	Building 177
3	T23Cell
4	Building 178, Roofing
5	Building 178, Drywall
6	Building 178, Floor Tile
7	Building 178, Lead Flashing at Base of Building
8	View of Area
9	Building 177, Wall, Paint Signage
10	Building 177, Floor, Paint Signage
11	Building 177, Metal Box

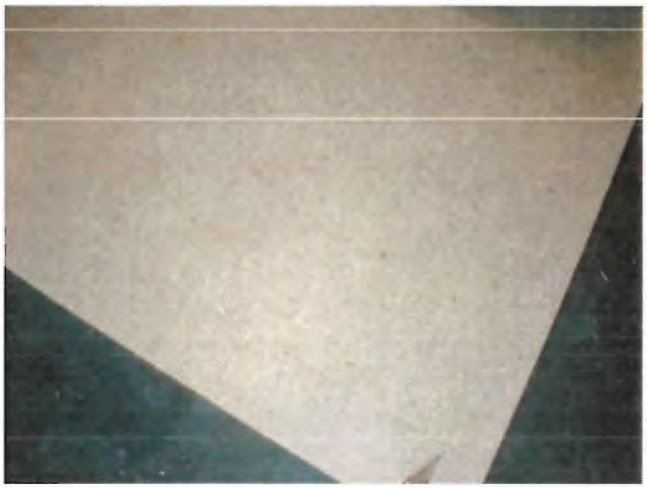
1

2

3

4

5



6

Buildings 177, 178 & T23
NAS Meridian, Mississippi

Date of Inspection: April 26, 2007
UTS Project No. E-NA02-750-002
Drawing Not to Scale

7

8

9

10

11

Buildings 177, 178 & T23 NAS Meridian, Mississippi	Date of Inspection: April 26, 2007 UTS Project No. E-NA02-750-002 Drawing Not to Scale

BUILDING 78 – ASR 8 SUPPORT FACILITY – SURVEY SUMMARY

BUILDING DESCRIPTION

Building 78 is a one-story, 1,440-square-foot building constructed in 1961. The building is located at the NAS Meridian main station and was formerly an air surveillance radar facility that is currently used for storage of equipment and furniture.

ASBESTOS FINDINGS AND CONCLUSIONS

The survey team assigned two (2) homogeneous materials of suspected ACM at this building. Seven (7) samples were collected (excluding duplicate samples), four (4) of which were identified as ACM. Collected samples identified this homogeneous material as ACM:

- 9” Green mottled floor tile (HM-1): Green mottled floor tile contains 5% chrysotile. Mastic contains 5% chrysotile.

The attached figures show the samples and homogeneous materials that were identified through laboratory analysis as ACM and/or non-ACM for the identified sampling locations.

RECOMMENDATIONS

9” Green mottled floor tile/mastic (HM-1) is in good condition and currently does not pose a hazard. However, it is recommended that if the material becomes damaged and friable, it should be repaired or removed. Removal of this material is considered Class II OSHA work, and repair is considered Class III OSHA work. Both classes of OSHA work must be performed by AHERA (or equivalent) trained workers. It is recommended that this building be included in the installation Asbestos Management Program until the identified ACM has been removed.

In addition, older building materials that may potentially be ACM could be concealed beneath newer material and/or were inaccessible during the survey. If encountered, these materials should be sampled and analyzed for asbestos before being disturbed by renovation or demolition activities.

REMOVAL COST ESTIMATE

TOTAL COST (ALL ACM)

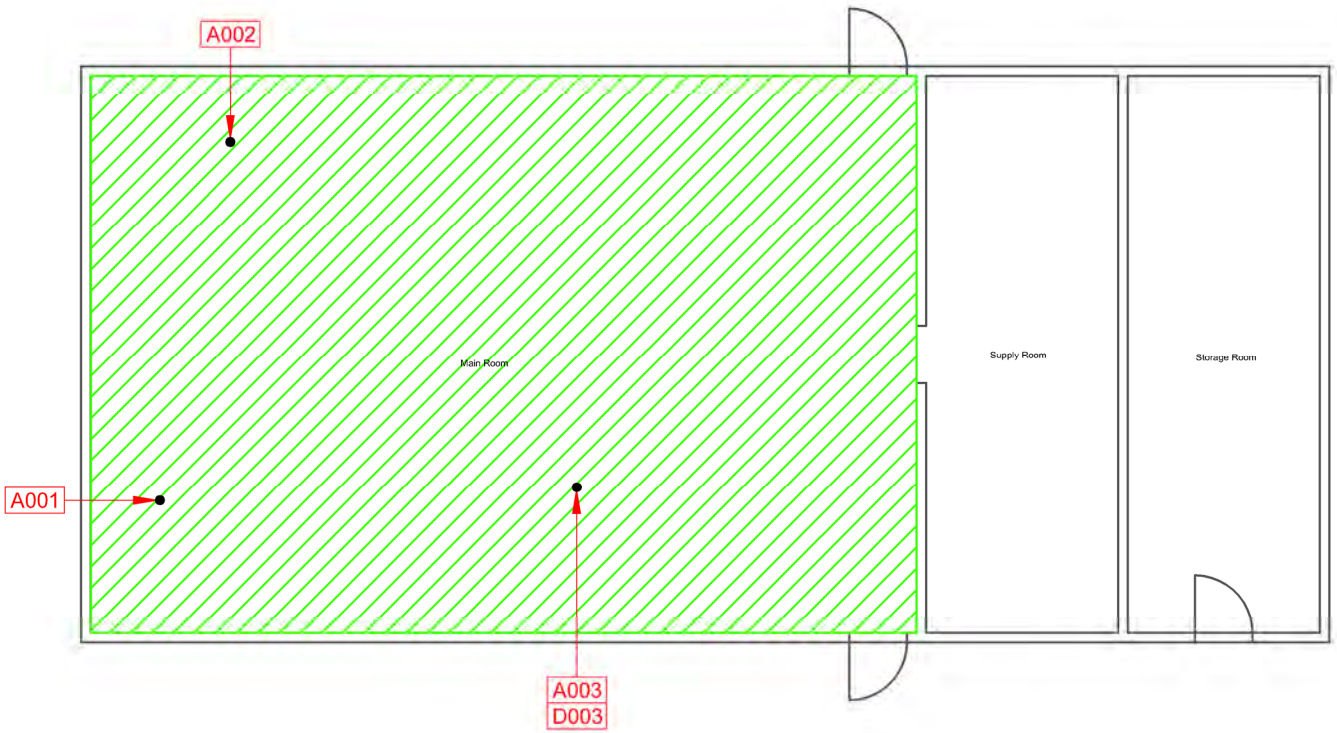
	Low	High
1. Mobilization	$1,200	$1,400
2. Preparation of Asbestos Containment Area	$2,300	$2,800
3. Bulk Asbestos Removal	$1,400	$1,700
4. OSHA (and Clearance) Testing	$2,900	$3,600
5. Decontamination of Containment	$3,900	$4,800
6. Asbestos Waste Packaging, Handling, and Disposal	$1,100	$1,400
Total	$12,800	$15,700

Asbestos Inventory Summary – NASM 78									
Building No.:	78	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	ASR8 SUPPORT FACILITY			**Building Description:**		Former Radar Support Facility currently used for storage of equipment and furniture			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
1	9" Green Mottled Floor Tile/Mastic	Good	NF	912 ft2	NASM-B0078-A-001	NW End of Room	2	**5% Chrysotile (Floor Tile)** **4% Chrysotile (Mastic)**	78-1F
1	9" Green Mottled Floor Tile/Mastic	Good	NF	See HM-1 quantity above	NASM-B0078-A-002	NE End of Room	2	**5% Chrysotile (Floor Tile)** **4% Chrysotile (Mastic)**	78-1F
1	9" Green Mottled Floor Tile/Mastic	Good	NF	See HM-1 quantity above	NASM-B0078-A-003	Middle of Room	2	**5% Chrysotile (Floor Tile)** **4% Chrysotile (Mastic)**	78-1F
1	9" Green Mottled Floor Tile/Mastic	Good	NF	See HM-1 quantity above	NASM-B0078-D-003	Middle of Room	2	**5% Chrysotile (Floor Tile)** **5% Chrysotile (Mastic)**	78-1F
2	Black Covebase Mastic	Good	NF	NA	NASM-B0078-A-005	SW End of Room Near Door	2	NAD (Covebase) NAD (Mastic)	78-1W

Asbestos Inventory Summary – NASM 78									
Building No.:	78	**Inspector:**	Rankin/Hirsch				**Survey Date:**	1/25/23	
Building Name:	ASR8 SUPPORT FACILITY			**Building Description:**		Former Radar Support Facility currently used for storage of equipment and furniture			
Homogeneous Material No.	**Sample Description**	**Condition**	**Friability**	**Quantity**	**Sample ID**	**Location**	**Sample Layers**	**Asbestos Content**	**Figure**
2	Black Covebase Mastic	Good	NF	NA	NASM-B0078-A-006	Near Door into Supply Room	2	NAD (Covebase) NAD (Mastic)	78-1W
2	Black Covebase Mastic	Good	NF	NA	NASM-B0078-A-007	SE End of Room Near Door	2	NAD (Covebase) NAD (Mastic)	78-1W

Notes: Sample A-004 Not Used

These abbreviations are used throughout Appendix A. < = less than; ' = foot (feet); " = inch(es); E = east; F = friable; ft2 = square foot (feet); HVAC = heating, ventilation, and air conditioning; ID = identification; I = intact; LF = linear foot (feet); N = north; NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = northwest; S = south; SE = southeast; SW = southwest; TSI = thermal system insulation;
W = west



NORTH

APPROXIMATE SCALE

BUILDING 78

FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

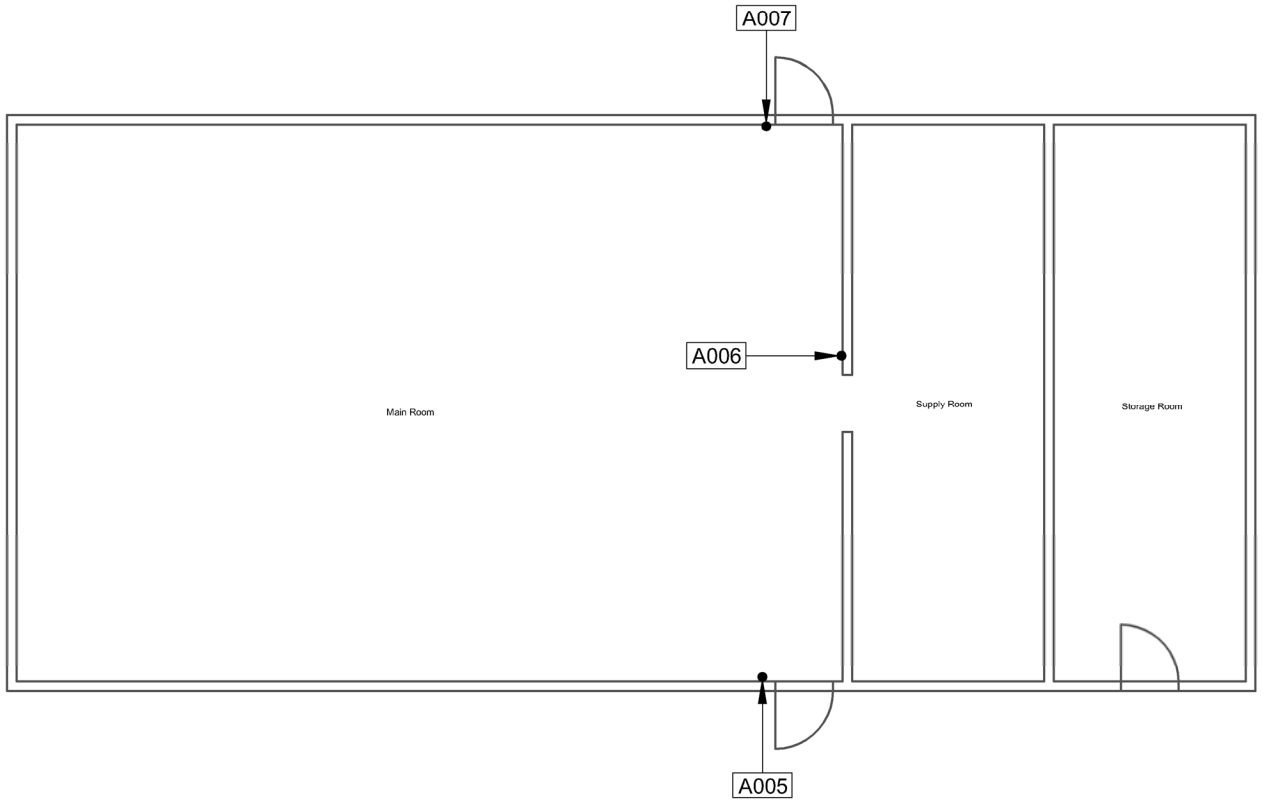
C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 78 Floor Material

FIGURE

78-1F



NORTH

APPROXIMATE SCALE

BUILDING 78
FIRST FLOOR PLAN

Note:
Sample ID numbers in red indicate samples identified as ACM through laboratory analysis.

PROJECT NO. :	5023-22-0005
DATE :	APRIL 2023
DRAWN BY :	MER
CHECKED BY :	GC

C-AFW JV
Cardno - Amec Foster Wheeler
Public Works Joint Venture

Naval Air Station Meridian
Meridian, Mississippi

Building 78 Wall Material

FIGURE
78-1W

BUILDING 78

HM001 - 9" Green Mottled Floor Tile

HM002 - Black Covebase/Mastic

HM = Homogeneous Material

A = Asbestos

A001 Sample Location

A001 Sample Location with Positive Result

PROJECT NO. : 5023-22-0005 DATE : APRIL 2023 DRAWN BY : MER CHECKED BY : GC	C-AFW JV Cardno - Amec Foster Wheeler Public Works Joint Venture	Naval Air Station Meridian Meridian, Mississippi LEGEND	FIGURE 78

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EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284
Tel/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com / greensborolab@emsl.com

EMSL Order:	022301196
Customer ID:	32AMEC21
Customer PO:	
Project ID:	

Attention:	Scott Brown	**Phone:**	(858) 514-7724
	Wood Env. & Infrastructure Solutions	**Fax:**	(858) 300-4301
	9210 Sky Park Court	**Received Date:**	02/07/2023 12:00 PM
	Suite 200	**Analysis Date:**	02/10/2023 - 02/11/2023
	San Diego, CA 92123-4478	**Collected Date:**	
Project:	NAS Meridian 5023220006.04.****.5023.5730-00		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0078-A-001-Floor Tile *022301196-0001*	9" Green Mottled Floor Tile	Green Non-Fibrous Homogeneous		10% Quartz 85% Non-fibrous (Other)	5% Chrysotile
NASM-B0078-A-001-Mastic *022301196-0001A*	9" Green Mottled Floor Tile	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
NASM-B0078-A-002-Floor Tile *022301196-0002*	9" Green Mottled Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
NASM-B0078-A-002-Mastic *022301196-0002A*	9" Green Mottled Floor Tile	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
NASM-B0078-A-003-Floor Tile *022301196-0003*	9" Green Mottled Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
NASM-B0078-A-003-Mastic *022301196-0003A*	9" Green Mottled Floor Tile	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
NASM-B0078-D-003-Floor Tile *022301196-0004*	9" Green Mottled Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
NASM-B0078-D-003-Mastic *022301196-0004A*	9" Green Mottled Floor Tile	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
NASM-B0078-A-005-Cove Base *022301196-0005*	Black Covebase/ Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0078-A-005-Mastic *022301196-0005A*	Black Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0078-A-006-Cove Base *022301196-0006*	Black Covebase/ Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0078-A-006-Mastic *022301196-0006A*	Black Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 02/13/2023 12:21:24

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EMSL Order: 022301196
Customer ID: 32AMEC21
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
NASM-B0078-A-007-Cove Base *022301196-0007*	Black Covebase/ Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0078-A-007-Mastic *022301196-0007A*	Black Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Bobby Wheatley (4)
Philip Szabo (10)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

Initial report from: 02/13/2023 12:21:24