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June 30, 2016

Mr. Sam Schrecongost
Environmental Protection Specialist
General Services Administration (GSA)
Safety, Environment, & Fire Protection Branch
7th & D Streets, SW, Room 2080
Washington, DC 20407

Subject: **Annual Asbestos Operations and Maintenance Inspection Report**
IRS Building (DC0022)
Contract No.: GS-11P-12-DC-C-007Mabbett
Order No.: GS-P-11-15-DC-5008
Mabbett Project No.: 2012011.120

Dear Mr. Sam Schrecongost:

Mabbett & Associates, Inc. (Mabbett®) received a Task Order request from GSA National Capital Region (NCR) Safety, Environmental, and Fire Protection Branch to conduct annual asbestos operations and maintenance (O&M) inspections for 90 GSA NCR facilities. This report summarizes the results of the inspection conducted at the IRS Building **(DC0022)** located at 1111 Constitution Avenue NW in Washington D.C.

The inspection was conducted between December 8, 2015 and December 10, 2015 by Mabbett Industrial Hygienists Andrew Faust and Rudolph Scipio. The inspection and sampling were performed in accordance with GSA and U.S. Environmental Protection Agency (USEPA) Asbestos Hazard and Emergency Response Act (AHERA) protocols.

Methods

Sampling documentation previously conducted in the 1111 Constitution building was provided by GSA prior to the December 2015 inspection. The locations of the previously identified asbestos-containing building materials (ACBM) were visually inspected to determine if the ACBM was still present, the estimated quantity of each material remaining, and the current condition of the materials assessed. A visual inspection of accessible portions of the main building was also conducted to identify and sample suspect materials that were not previously identified as potential ACBM or previously confirmed to be non-ACBM.

Samples collected of suspect ACBM identified during this inspection were documented on sample forms and chain-of-custody and shipped to Scientific Analytical Institute Inc. (SAI) of Greensboro,

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North Carolina. The bulk samples were analyzed for asbestos content by polarized light microscopy (PLM). SAI is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis.

Upon completion of the survey and receipt of laboratory results, the estimated quantities of asbestos containing materials were entered into the O&M Inventory and Surveillance Report Form Table. Included on the Table is the estimated cost for abatement of the known ACBM to support liability estimate reporting. This liability cost provided was based on a unit cost for the removal of the known materials using current version of RS Means with locality cost adjustments, general condition, and contingency factors. It should be noted that equipment, ACBM disposal, and third party air monitoring costs were not included in the liability cost totals.

Findings

The visual inspection of the previously identified ACBM in the IRS Building revealed seventeen (17) homogenous areas in good condition. During this inspection, forty-two (42) samples of suspect ACBM were collected and analyzed, with four (4) of these new materials found to contain asbestos. These four (4) materials consisted of black tar flooring; 4" O.D. (outside diameter) white fibrous pipe insulation with minor damage; fire door insulation; and red duct sealant. The specific descriptions, locations and condition of the ACBM inspected and newly inventoried ACBMs are included in the O&M Inventory and Surveillance Report Form in Attachment A. The Asbestos Assessment Data Forms are contained in Attachment B.

Detailed sample information is found in the Laboratory Analysis Report in Attachment C. Photographs of the newly sampled ACBM are included in Attachment D. A listing of newly sampled materials that were found not to contain asbestos is included in Attachment E.

Some areas were inaccessible during this inspection due to security restrictions. Inaccessible suspect materials not previously sampled should be assumed to contain asbestos but are not included in the liability estimates. All square and linear footage measurements are estimates only.

Conclusions & Recommendations

Consider removing, enclosing, encapsulating or repairing any ACBM that is currently damaged or may become damaged. Continue to periodically inspect existing ACBM in accordance with AHERA guidelines.

As newly identified materials are identified or materials are abated, the liabilities estimates in this report should be revised accordingly.

Mabbett appreciates this opportunity to provide these asbestos consulting services for GSA-NCR. Should you have any questions or concerns, please do not hesitate to contact us at (703) 997-6051.

Very truly yours,

MABBETT & ASSOCIATES, INC.
By:

Andrew Faust
Industrial Hygienist/Environmental Specialist

Reviewed by:

David A. Nelson, RPIH
Senior Industrial Hygienist/Environmental Consultant

Gary Morris, CIH, CSP
Senior Industrial Hygienist

Attachment A:	Asbestos Inventory and Periodic Surveillance Assessment Report
Attachment B:	Asbestos Assessment Data Forms
Attachment C:	Laboratory Analysis Results and Chain-of-Custody Form
Attachment D:	Representative Newly Identified Asbestos Containing Building Material Photographs Asbestos Containing Building Material Photos
Attachment E:	Sampled Non-Asbestos Containing Building Materials List

ATTACHMENT A

Asbestos Inventory and Periodic Surveillance Assessment Report

Attachment A - Asbestos Inventory and Periodic Surveillance Assessment Report

BUILDING NAME: IRS Building
BUILDING ADDRESS: 1111 Constitution Avenue
INSPECTOR: Mabbett AF RS
ASBESTOS PROGRAM MANAGER: Samuel Schrecongost

GSA BUILDING NUMBER: DC0022
DATE OF INSPECTION: 12/8/2015/-12/10/2015

DATE SUBMITTED TO WPMACB:

LOCATION(S) OF IDENTIFIED ACBM FLOOR/ROOM	HOMOGENEOUS MATERIAL	NEWLY IDENTIFIED DURING THIS INSPECTION/SAMPLE #	EST. QUANTITY OF ACBM	UNITS	FRIABLE YES/NO	CONDITION[1]	AVAILABLE RESULTS	EST. QUANTITY OF DAMAGE (S.F./L.F.)	RECOMMENDED RESPONSE ACTION(S)[3]	EST. ABATEMENT COST (USD 2015)
Throughout	Fire door insulation	Yes / IRS-12915-14,15	60	EA	No	Good	18% chrysotile, 2% Amosite	N/A	O&M	$1,317
Air shaft rooms throughout	Black tar flooring	Yes / IRS-12815-12,13,14	12,000	S.F.	No	Minor damage	5% chyrsotile	5,000 S.F.	Repair / O&M	$33,346
Room 2560 Interstitial Space	4" white fibrous insulation	Yes / IRS-12915-11,12,13	200	L.F.	No	Minor damage	20% chrysotile	4 L.F.	Repair / O&M	$1,672
A611	Red duct sealant	Yes / IRS-12815-08,09	50	L.F	Yes	Good	3% chrysotile	N/A	O&M	$329
Throughout	Black adhesive on fiberglass duct	No	40,000	S.F.	No	Good	15% chrysotile	N/A	O&M	$263,130
Stairwell 53 - behind radiators	Gray corrugated asbestos paper	No	42	S.F.	Yes	Good	40% chrysotile	N/A	O&M	$351
Attic	Canvas wrapped AHU Duct Insulation	No	48,000	S.F.	Yes	Good	25% chrysotile, 25% amosite	N/A	O&M	$401,335
Attic - AHU4	Mudded patching on AHU Duct	No	1	S.F.	No	Good	40% chrysotile	N/A	O&M	$22
Throughout offices - under floor tile and carpet	Black mastic associated with 9X9 Floor Tile	No	673,230	S.F.	No	Good	Assumed	N/A	O&M	Inculded in Floor tile
Throughout offices - under carpet	9"x9" floor tile (all colors/patterns)	No	673,230	S.F.	No	Good	2% chrysotile	N/A	O&M	$1,870,806
Attic	Off white mudded joints	No	5,670	EA	Yes	Good	25% chrysotile	N/A	O&M	$124,445
Attic	Gray mudded joints	No	1,120	EA	Yes	Good	20% chrysotile	N/A	O&M	$24,582
Library	Gray mudded joints	No	3	EA	Yes	Good	90% chrysotile	N/A	O&M	$66
Attic	Brown/white pipe hanger	No	990	EA	Yes	Good	10% chrysotile, 25% amosite	N/A	O&M	$21,729
Attic	Gray pipe hanger	No	930	EA	Yes	Good	8% chrysotile, 20% amosite	N/A	O&M	$20,412
Attic and risers in walls throughout	White mag insulation	No	16,600	L.F.	Yes	Good	45% chrysotile	N/A	O&M	$138,795
Room G330	Gray mudded insulation in wall penetration	No	150	L.F.	Yes	Good	40% chrysotile	N/A	O&M	$1,254
Attic	White mag insulation	No	136,000	L.F.	Yes	Good	30% amosite	N/A	O&M	$1,137,116
Attic	Gray/white fibrous pipe insulation	No	8,200	L.F.	Yes	Good	40% amosite	N/A	O&M	$68,561
Attic	White fibrous insulation with metal jackets	No	6,300	L.F.	Yes	Good	35% amosite	N/A	O&M	$52,675
Attic	White fibrous insulation on hot water lines	No	2,660	L.F.	Yes	Good	20% chrysotile, 30% amosite, 5% crocidolite	N/A	O&M	$22,241

1 GOOD, DAMAGED OR SIGNIFICANTLY DAMAGED
2 AIR EROSION, VANDALISM, VIBRATION, WATER, ETC.
3 REPAIR, REMOVE, ENCAPSULATE, ENCLOSE, OR O&M
EA-Each
S.F.-Square Feet -L.F.-Linear Feet

BUILDING TOTAL **$4,184,183**

RS Means Basis of Abatement Cost Estimates	Cost per Unit	Locality Adjustment	General Conditions Adjustment	Contingency Adjustment	Total Estimated Unit Price
Flooring	$2.26	0.972	1.15	1.1	$ 2.78
Pipe Insulation	$6.80	0.972	1.15	1.1	$ 8.36
Pipe Fittings	$17.85	0.972	1.15	1.1	$ 21.95
Caulking	$5.35	0.972	1.15	1.1	$ 6.58
Ceiling Tile/Wall Board	$1.46	0.972	1.15	1.1	$ 1.80
Thermal Insulation	$11.40	0.972	1.15	1.1	$ 14.02

Notes: Miscellaneous materials identified which do not fall into one of the categories above are not included in the liability estimate due to the high variability of cost and the lack of proper RS Means estimations. The estimated abatement unit costs provided above are based on current industry unit rate estimates and are intended to be inclusive of all abatement contractor costs. They do not include costs for waste disposal, design, monitoring, sampling, and other consultant fees.

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ATTACHMENT B

Asbestos Assessment Data Form

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 60 units

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____
(Assign HSA Number)

HSA DESCRIPTION: Fire door insulation

LOCATION(S) OF HSA IN BLDG.: 2244 - Throughout
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
IRS-12915-14		18% Chrysotile
IRS-12915-15		2% Amosite

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 12,000

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ——
(Assign HSA Number)

HSA DESCRIPTION: Black tar flooring

LOCATION(S) OF HSA IN BLDG.: Air shaft rooms throughout
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	✓Minor	__Medium
✓Miscellaneous Material	__None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
IRS-12815-12		5% Chrysotile
IRS-12815-13		
IRS-12815-14		

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 200

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____
(Assign HSA Number)

HSA DESCRIPTION: 4" white mag insulation

LOCATION(S) OF HSA IN BLDG.: 2560 Interstitial space
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	✓Minor	__Medium
__Miscellaneous Material	__None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
IRS-12915-11		20% Chrysotile
IRS-12915-12		
IRS-12915-13		

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 50

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: Red Duct Sealant

LOCATION(S) OF HSA IN BLDG.: A611
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
IRS-12815-08		3% Chrysotile
IRS-12815-09		

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT (S.F./L.F./CU. F.) 40,000

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____
(Assign HSA Number)

HSA DESCRIPTION: Black adhesive on fiberglass duct

LOCATION(S) OF HSA IN BLDG.: Throughout
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/107		15% Chrysotile
B/108		
B/109		

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT (S.F./L.F./CU. F.) 42

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: Gray corrugated asbestos paper

LOCATION(S) OF HSA IN BLDG.: Stairwell 53, behind radiators
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/112		40% Chrysotile

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT (S.F./L.F./CU. F.) 48,000

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____
(Assign HSA Number)

HSA DESCRIPTION: Canvas wrapped AHU Duct Insulation

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
B/30		25% Chrysotile +
		25% Amosite

(Include percent and type of asbestos in result, e.g. 50% Chrysotile)

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT (S.F./L.F./CU. F.) 1

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: Mudded patching on AHU Duct

LOCATION(S) OF HSA IN BLDG.: Attic - AHU 4
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/157		40% Chrysotile

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT (S.F./L.F./CU. F.) 673,230

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____ (Assign HSA Number)

HSA DESCRIPTION: Black mastic

LOCATION(S) OF HSA IN BLDG.: Under 9"x9" floor tile throughout (Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum___ (Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
✓Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
	Assumed	

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT (S.F./L.F./CU. F.) 673,230

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____ (Assign HSA Number)

HSA DESCRIPTION: 9"x9" floor tiles (all color + patterns)

LOCATION(S) OF HSA IN BLDG.: Under carpet - throughout (Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
__Thermal Systems Insulation	__Minor	__Medium
✓Miscellaneous Material	✓None	✓Low

Air Plenum N (Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
__High	__High	__High	__High
__Medium	✓Medium	__Medium	__Moderate
✓Low	__Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 1

Sample Number (Include percent and type of asbestos in result, e.g. 50% Chrysotile)	Sample location	Result
B/125		2% Chrysotile
B/126		
B/127		

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 5,670 units

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: Off white mudded joints

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/29		25% Chrysotile

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 1,120 units

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____
(Assign HSA Number)

HSA DESCRIPTION: Gray mudded joints

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/36		20% Chrysotile
B/145		
B/146		

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 3 units

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: Gray mudded joints

LOCATION(S) OF HSA IN BLDG.: Library
(Include/Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments:

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/137		90% Chrysotile
B/138		
B/139		

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 990 units

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: Brown/white pipe hangers

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/28		10% Chrysotile
		25% Amosite

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW. Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 930 units

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ——
(Assign HSA Number)

HSA DESCRIPTION: Gray pipe hanger

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	__Low	__Low	__Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/35		8% Chrysotile
		20% Amosite

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 16,600

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: White mag insulation

LOCATION(S) OF HSA IN BLDG.: Attic + risers in walls throughout
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/27		45% Chrysotile

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 150

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: Gray mudded insulation in wall penetration

LOCATION(S) OF HSA IN BLDG.: Room G330
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/93		40% Chrysotile

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 136,000

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____
(Assign HSA Number)

HSA DESCRIPTION: White mag insulation

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/94		30% Amosite

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022

ASSESSMENT DATE: 12/8/15 - 12/10/15
AMOUNT(S.F./L.F./CU. F.) 8,200

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ——
(Assign HSA Number)

HSA DESCRIPTION: Gray/white fibrous pipe insulation

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/103		40% Amosite

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 6,300

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: ____
(Assign HSA Number)

HSA DESCRIPTION: White fibrous insulation with metal jacketing

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: ____

AHERA Classification (see instructions): 1

Sample Number	Sample location	Result
(Include percent and type of asbestos in result, e.g. 50% Chrysotile)		
B/119		35% Amosite

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ASBESTOS ASSESSMENT DATA FORM

BLDG. NAME: IRS Building ASSESSMENT DATE: 12/8/15 - 12/10/15
ADDRESS: 1111 Constitution Ave. NW, Washington DC
GSA BLDG. NO.: DC0022 AMOUNT(S.F./L.F./CU. F.) 2,660

ASBESTOS INSPECTOR: Andrew Faust, Rudy Scipio

HOMOGENEOUS SAMPLING AREA #: —
(Assign HSA Number)

HSA DESCRIPTION: White fibrous insulation on hot water lines

LOCATION(S) OF HSA IN BLDG.: Attic
(Include Functional Space)

HSA Category	Damage	Accessibility
__Surfacing Material	__Significant	__High
✓Thermal Systems Insulation	__Minor	__Medium
__Miscellaneous Material	✓None	✓Low

Air Plenum N
(Y or N)

Friability	Traffic	Vibration	Potential for Air Erosion
✓High	__High	__High	__High
__Medium	__Medium	__Medium	__Moderate
__Low	✓Low	✓Low	✓Low

Comments: _____

AHERA Classification (see instructions): 1

Sample Number (Include percent and type of asbestos in result, e.g. 50% Chrysotile)	Sample location	Result
B/140		20% Chrysotile
B/141		30% Amosite
B/147		5% Crocidolite

NOTE: Use one form per homogeneous sampling area. Consult 40 CFR Part 763 for sampling and analytical protocols and definitions.

ATTACHMENT C

Laboratory Analysis Results and Chain-of-Custody Forms

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1442 Duke St
Alexandria VA 22314

Attn: David Nelson

Lab Order ID: 1524299
Analysis ID: 1524299_PLM
Date Received: 12/15/2015
Date Reported: 12/15/2015

Project: 2015 O&M - IRS Building

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
IRS-12815-01 / *1524299PLM_1*	Gray fireproofing	None Detected	90% Fiber Glass 5% Cellulose	5% Other	Gray Fibrous Heterogeneous Teased
IRS-12815-02 / *1524299PLM_2*	Gray fireproofing	None Detected	90% Fiber Glass 5% Cellulose	5% Other	Gray Fibrous Heterogeneous Teased
IRS-12815-03 / *1524299PLM_3*	Gray fireproofing	None Detected	90% Fiber Glass 5% Cellulose	5% Other	Gray Fibrous Heterogeneous Teased
IRS-12815-04 / *1524299PLM_4*	Gray fireproofing	None Detected	90% Fiber Glass 5% Cellulose	5% Other	Gray Fibrous Heterogeneous Teased
IRS-12815-05 / *1524299PLM_5*	Gray fireproofing	None Detected	90% Fiber Glass 5% Cellulose	5% Other	Gray Fibrous Heterogeneous Teased
IRS-12815-06 / *1524299PLM_6*	Gray fireproofing	None Detected	90% Fiber Glass 5% Cellulose	5% Other	Gray Fibrous Heterogeneous Teased
IRS-12815-07 / *1524299PLM_7*	Gray fireproofing	None Detected	90% Fiber Glass 5% Cellulose	5% Other	Gray Fibrous Heterogeneous Teased
IRS-12815-08 / *1524299PLM_8*	Red duct sealant	3% Chrysotile		97% Other	Red Non Fibrous Homogeneous Ashed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bobby Wheatley (42)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1442 Duke St
Alexandria VA 22314

Attn: David Nelson

Lab Order ID: 1524299
Analysis ID: 1524299_PLM
Date Received: 12/15/2015
Date Reported: 12/15/2015

Project: 2015 O&M - IRS Building

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
IRS-12815-09 / *1524299PLM_9*	Red duct sealant	**3% Chrysotile**		**97% Other**	Red, Non Fibrous, Homogeneous / Ashed
IRS-12815-10 / *1524299PLM_10*	Black tar paper on fiberglass / *sheet vinyl only*	**None Detected**	**80% Cellulose**	**20% Other**	Black, Tan, Fibrous, Heterogeneous / Teased, Dissolved
IRS-12815-11 / *1524299PLM_11*	Black tar paper on fiberglass / *sheet vinyl only*	**None Detected**	**80% Cellulose**	**20% Other**	Black, Tan, Fibrous, Heterogeneous / Teased, Dissolved
IRS-12815-12 / *1524299PLM_12*	Black tar roofing	**5% Chrysotile**		**95% Other**	Black, Non Fibrous, Heterogeneous / Dissolved
IRS-12815-13 / *1524299PLM_13*	Black tar roofing	**5% Chrysotile**		**95% Other**	Black, Non Fibrous, Heterogeneous / Dissolved
IRS-12815-14 / *1524299PLM_14*	Black tar roofing	**5% Chrysotile**		**95% Other**	Black, Non Fibrous, Heterogeneous / Dissolved
IRS-12915-01 / *1524299PLM_15*	Red fire stop	**None Detected**	**3% Fiber Glass**	**97% Other**	Red, Non Fibrous, Heterogeneous / Ashed
IRS-12915-02 / *1524299PLM_16*	Red fire stop	**None Detected**	**3% Fiber Glass**	**97% Other**	Red, Non Fibrous, Heterogeneous / Ashed

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Bobby Wheatley (42)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1442 Duke St
Alexandria VA 22314

Attn: David Nelson

Lab Order ID: 1524299
Analysis ID: 1524299_PLM
Date Received: 12/15/2015
Date Reported: 12/15/2015

Project: 2015 O&M - IRS Building

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
IRS-12915-03 / *1524299PLM_17*	Gray fire proofing	None Detected	95% Fiber Glass	5% Other	Gray Fibrous Heterogeneous / Teased
IRS-12915-04 / *1524299PLM_18*	Gray fire proofing	None Detected	95% Fiber Glass	5% Other	Gray Fibrous Heterogeneous / Teased
IRS-12915-05 / *1524299PLM_19*	Gray fire proofing	None Detected	95% Fiber Glass	5% Other	Gray Fibrous Heterogeneous / Teased
IRS-12915-06 / *1524299PLM_20*	Cementitious 1'x1' wall tile	None Detected	95% Fiber Glass	5% Other	Gray Fibrous Heterogeneous / Teased
IRS-12915-07 / *1524299PLM_21*	Cementitious 1'x1' wall tile	None Detected	95% Fiber Glass	5% Other	Gray Fibrous Heterogeneous / Teased
IRS-12915-08 / *1524299PLM_22*	Cementitious 1'x1' wall tile	None Detected	95% Fiber Glass	5% Other	Gray Fibrous Heterogeneous / Teased
IRS-12915-09 / *1524299PLM_23*	Brown sheet vinyl / *sheet vinyl only*	None Detected	40% Cellulose	60% Other	Brown Fibrous Heterogeneous / Teased, Dissolved
IRS-12915-10 / *1524299PLM_24*	Brown sheet vinyl / *sheet vinyl only*	None Detected	40% Cellulose	60% Other	Brown Fibrous Heterogeneous / Teased, Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bobby Wheatley (42)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1442 Duke St
Alexandria VA 22314

Attn: David Nelson

Lab Order ID: 1524299
Analysis ID: 1524299_PLM
Date Received: 12/15/2015
Date Reported: 12/15/2015

Project: 2015 O&M - IRS Building

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
IRS-12915-11 / *1524299PLM_25*	4" mag insulation	**20% Chrysotile**		**80% Other**	White Fibrous Heterogeneous / Teased
IRS-12915-12 / *1524299PLM_26*	4" mag insulation	**20% Chrysotile**		**80% Other**	White Fibrous Heterogeneous / Teased
IRS-12915-13 / *1524299PLM_27*	4" mag insulation	**20% Chrysotile**		**80% Other**	White Fibrous Heterogeneous / Teased
IRS-12915-14 / *1524299PLM_28*	Fire door insulation	**18% Chrysotile** **2% Amosite**		**80% Other**	White Fibrous Heterogeneous / Teased
IRS-12915-15 / *1524299PLM_29*	Fire door insulation	**18% Chrysotile** **2% Amosite**		**80% Other**	White Fibrous Heterogeneous / Teased
IRS-121015-01 / *1524299PLM_30*	Pink fire stop	**None Detected**		**100% Other**	Pink Non Fibrous Heterogeneous / Crushed
IRS-121015-02 / *1524299PLM_31*	Pink fire stop	**None Detected**		**100% Other**	Pink Non Fibrous Heterogeneous / Crushed
IRS-121015-03 / *1524299PLM_32*	Plaster patch / *single layer plaster*	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous / Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bobby Wheatley (42)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1442 Duke St
Alexandria VA 22314

Attn: David Nelson

Lab Order ID: 1524299
Analysis ID: 1524299_PLM
Date Received: 12/15/2015
Date Reported: 12/15/2015

Project: 2015 O&M - IRS Building

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
IRS-121015-04	Plaster patch	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous
1524299PLM_33	*single layer plaster*				Crushed
IRS-121015-05	Plaster patch	**None Detected**		**100% Other**	Gray Non Fibrous Heterogeneous
1524299PLM_34	*single layer plaster*				Crushed
IRS-121015-06	1'x2' wall tile	**None Detected**	**80% Fiber Glass**	**20% Other**	Gray Fibrous Heterogeneous
1524299PLM_35					Teased
IRS-121015-07	1'x2' wall tile	**None Detected**	**80% Fiber Glass**	**20% Other**	Gray Fibrous Heterogeneous
1524299PLM_36					Teased
IRS-121015-08	Adhesive	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous
1524299PLM_37					Dissolved
IRS-121015-09	Adhesive	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous
1524299PLM_38					Dissolved
IRS-121015-10	1'x1' wall tile	**None Detected**	**75% Fiber Glass** **5% Cellulose**	**20% Other**	White, Yellow Fibrous Heterogeneous
1524299PLM_39					Teased, Dissolved
IRS-121015-11	1'x1' wall tile	**None Detected**	**75% Fiber Glass** **5% Cellulose**	**20% Other**	White, Yellow Fibrous Heterogeneous
1524299PLM_40					Teased, Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bobby Wheatley (42)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

AIHA LAP, LLC ACCREDITED LABORATORY INDUSTRIAL HYGIENE ISO/IEC 17025:2005 www.aihaaccreditedlabs.org LAB #173190

NVLAP Lab Code: 200664-0

Customer: Mabbett & Associates
1442 Duke St
Alexandria VA 22314

Attn: David Nelson

Lab Order ID: 1524299
Analysis ID: 1524299_PLM
Date Received: 12/15/2015
Date Reported: 12/15/2015

Project: 2015 O&M - IRS Building

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes / Treatment
IRS-121015-12	Adhesive	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous
1524299PLM_41					Dissolved
IRS-121015-13	Adhesive	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous
1524299PLM_42					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bobby Wheatley (42)

Analyst

Approved Signatory

P-F-002 r15 1/15/2018

Scientific Analytical Institute
4604 Dundas Dr. Greensboro, NC 27407
Phone: 336.292.3888 Fax: 336.292.3313
www.sailab.com lab@sailab.com

Lab Use Only
Lab Order ID: 1524299
Client Code: _____

Company Contact Information

Company: Mabbett & Associates	Contact: David Nelson
Address: 1442 Duke Street	Phone ☑: (703) 963-5540
Alexandria, VA	Fax ☐:
22314	Email ☑: Dnelson@mabbett.com

Billing/Invoice Information

Company: Mabbett & Associates	
Contact: Kathleen Davis	
Address: 5 Alfred Circle	
Bedford, MA	
01730	

Turn Around Times

90 Min. ☐	48 Hours ☐
3 Hours ☐	72 Hours ☐
6 Hours ☐	96 Hours ☐
12 Hours ☐	120 Hours ☐
24 Hours ☑	144 Hours ☐

PO Number: 2012011.120
Project Name/Number: 2015 O&M – IRS Building

Asbestos Test Types

PLM EPA 600/R-93/116 (PLM)	☑
Positive stop ☐	
PLM Point Count 400 (PT4)	☐
PLM Point Count 1000 (PTM)	☐
PCM NIOSH 7400-A Rules (PCM)	☐
B Rules (PCB) ☐ TWA (PTA)	☐
TEM AHERA (AHE)	☐
TEM Level II (LII)	☐
TEM NIOSH 7402 (TNI)	☐
TEM Bulk Qualitative (TBL)	☐
TEM Bulk Chatfield (TBS)	☐
TEM Bulk Quantitative (TBQ)	☐
TEM Wipe ASTM D6480-05	☐
TEM Microvac ASTM D5755-02	☐
TEM Water EPA 100.2 (TW1)	☐
Other: _____	☐

Sample ID #		Volume/Area	Comments
IRS-12815-01	Gray Fireproofing		
IRS-12815-02	↓		
IRS-12815-03			
IRS-12815-04			
IRS-12815-05			
IRS-12815-06		Accepted ☑	
IRS-12815-07	↓		
IRS-12815-08	Red Duct Sealant	Rejected ☐	
IRS-12815-09	↓		
IRS-12815-10	Black tar paper on fiberglass		
IRS-12815-11	↓		

Total # of Samples _____

Relinquished by	Date/Time	Received by	Date/Time
Andrew Faust	12/14/15	[signature]	~~12~~ 12/15
			930 A

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A-F-017 EXP: 12-1-13

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Lab Use Only
Lab Order ID: _____
Client Code: _____

Sample ID #	Description/Location	Volume/Area	Comments
IRS-12815-12	Black tar flooring		
IRS-12815-13	↓		
IRS-12815-14	↓		
IRS-12915-01	Red fire stop		
IRS-12915-02	↓		
IRS-12915-03	Gray fire proofing		
IRS-12915-04	↓		
IRS-12915-05	↓		
IRS-12915-06	Cementitious 1'x1' Wall Tile		
IRS-12915-07	↓		
IRS-12915-08	↓		
IRS-12915-09	Brown sheet vinyl		
IRS-12915-10	↓		
IRS-12915-11	4" mag insulation		
IRS-12915-12	↓		
IRS-12915-13	↓		
IRS-12915-14	Fire door insulation		
IRS-12915-15	↓		
IRS-121015-01	Pink fire stop		
IRS-121015-02	↓		
IRS-121015-03	Plaster patch		
IRS-121015-04	↓		
IRS-121015-05	↓		
IRS-121015-06	1'x2' wall tile		
IRS-121015-07	↓		
IRS-121015-08	Adhesive		
IRS-121015-09	↓		
IRS-121015-10	1'x1' wall tile		
IRS-121015-11	↓		
IRS-121015-12	Adhesive		
IRS-121015-13	↓		

ATTACHMENT D

Representative Newly Identified Asbestos Containing Building Material Photographs

Photo #1: White Fibrous 4" Pipe Interstitial Space (Sample # IRS-12915-11,12&13)

Photo #2: Black Tar Flooring (Sample # IRS-12815-12,13&14)

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Photo #3: Fire Door Core Insulation (Sample # IRS-12915-14&15)

Photo #4: Red Duct Sealant (Sample # IRS-12815-08&09)

ATTACHMENT E

Newly Sampled Non-Asbestos Containing Building Materials List

Attachment E - Newly Sampled Non-Asbestos Containing Building Materials List
IRS Building

Material	Sample Location	Sample Number	Color	Results	Sample Date
Fire proofing	Attic - Annex Façade	IRS-12815-01,02,03,04,05,06,07	Gray	None Detected	12/8/2015
Tar Paper on fiberglass	Room A410	IRS-12815-10,11	Black	None Detected	12/8/2015
Red Fire stop	Mechanical space penetrations	IRS-12915-01,02	Red	None Detected	12/9/2015
Fire proofing	Exposed beams in basement to 7th floor near 700 corridor	IRS-12915-03,04,05	Gray	None Detected	12/9/2015
Cementitious 1'x1' wall tile	Room 3208	IRS-12915-06,07,08	White	None Detected	12/9/2015
Brown Sheet vinyl flooring	Room 3208	IRS-12915-09,10	Brown	None Detected	12/9/2015
Pink Fire stop	1st floor wire closet by stairwell 41	IRS-121015-01,02	Pink	None Detected	12/10/2015
Plaster patch	Room 1021	IRS-121015-03,04,05	White	None Detected	12/10/2015
1'x2' Wall tile	Room 1017	IRS-121015-06,07	White	None Detected	12/10/2015
Wall Tile adhesive	Room 1017	IRS-121015-08,09	Yellow	None Detected	12/10/2015
1'x1' Wall tile	Room 1017	IRS-121015-10,11	White	None Detected	12/10/2015
Wall Tile adhesive	Room 1017	IRS-121015-12,13	Yellow	None Detected	12/10/2015

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