DC000622

ASBESTOS AND LEAD-BASED PAINT IDENTIFICATION SURVEY CONDUCTED IN SELECTED AREAS OF THE NATIONAL ARCHIVES LOCATED AT 7TH STREET AND PENNSYLVANIA AVENUE WASHINGTON, D.C.

PRESENTED TO:

Mr. David Stabler
Project Manager
S3E, Incorporated
2700 South Quincy Street, Suite 320
Arlington, Virginia 22206

PREPARED BY:

Aerosol Monitoring & Analysis, Inc.
1340 Ashton Road, P.O Box 646
Hanover, Maryland 21076
(410) 684-3327

AMA NO: 05974 DATE: September 7, 1995

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EXECUTIVE SUMMARY

1 EXECUTIVE SUMMARY

Aerosol Monitoring & Analysis, Inc. (AMA) was contracted by S3E, Inc. to perform an asbestos containing material (ACM) and lead-based paint (LBP) identification survey of suspect materials that may be disturbed as a result of the electrical system upgrade project currently being designed. The scope of work was limited to selected areas of the National Archives which may be impacted by the electrical system upgrade. The general areas included: the southwest transformer room, the southwest transformer area, the southeast transformer area, the northeast transformer area, the northwest transformer area, the refrigeration switchboard, which are all located in the sub-basement and the panel board areas located throughout the rest of the building. These areas were graphically identified by S3E on drawings prior to the survey.

The lead-based paint survey was conducted by collecting bulk paint chip samples. During the survey, 11 paint chip samples were collected and submitted for laboratory analysis. Of the 11 paint chip samples collected, 1 was determined to contain greater than 0.5 percent lead by weight and is classified as a lead-based paint. The sample of lead-based paint was collected from the green painted metal conduit leading to panel SE1-2.

According to the General Services Administration's (GSA) Environmental Management Technical Guide, Section E401.0393, a lead-based paint as defined by the Housing and Urban Development (HUD), is "anypaint containing lead measured at 1.0 milligram per square centimeter by an x-ray fluorescence analyzer (XRF) or 0.5 percent by weight by laboratory testing.

A total of 20 bulk samples of suspect ACMs were collected from 7 homogenous materials in the building. Of the 20 bulk samples collected, 2 were observed during polarized light microscopy (PLM) analysis to be asbestos containing materials. The ACMs identified were the 9"x9" floor tile and its associated mastic in the engineer's office and the black vapor barrier tar identified in the first floor electrical closet.

The EPA defines a friable asbestos-containing material as "any material containing more containing more than one percent asbestos and determined using the method specified in Appendix A, subpart F, 40 CFR part 763 section 1, PLM, that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure".

2 METHODOLOGY

2.1 Asbestos Bulk Sampling Methodology

2.1.1 Sampling Strategy

AMA developed a strategy to evaluate selected areas of the building in the most time efficient and least disturbing method. Mr. Robert Wallace of the GSA assisted Mr. Spencer Reed and Mr. Allen Jackson-Gerwitz of AMA in accessing the required areas of the building. The evaluation involved determining if any suspect asbestos containing materials were present. Once a material was identified, the location, and condition were documented, and a sample was collected.

2.1.2 Sample Collection

The samples were collected with a metal spatula or X-Acto knife, that was driven through the suspect material to the substrate in order to obtain a representative sample containing all distinct layers. Each sample was placed into a "Whirl-Pac" bag and assigned a unique identification number. The identification number was recorded on the sample bag and the bulk sampling survey sheet.

2.1.3 Bulk Sample Analysis

The sample of bulk material was analyzed using polarized light microscopy (PLM) techniques. The sample material was mounted in dispersion oils following the Environmental Protection Agency (EPA) method 600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials."

PLM is an optical microscopic technique used to distinguish the different types of asbestos fibers by their shape and unique optical properties. The technique is based on the refraction of light from the various crystalline asbestos structures and observing the corresponding color changes through the microscope.

The bulk samples collected during the survey were submitted to AMA Analytical Services. AMA Analytical Services, Inc. is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology through the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos analysis (NVLAP #101143). AMA also has accreditation through the American Industrial Hygiene Association (#244).

2.1.4 Chain of Custody

A chain of custody form was filled out for the set of samples. The samples were logged in and assigned a unique lab number. Upon completion of analytical services, the remaining sample materials were retained by AMA Analytical Services.

2.2 Lead-based Paint Bulk Sampling Methodology

2.2.1 Sampling Strategy

AMA developed a strategy to evaluate selected areas of the building in the most time efficient and least disturbing method. Mr. Robert Wallace of the GSA assisted Mr. Spencer Reed and Mr. Allen Jackson-Gerwitz of AMA in accessing the required areas of the building. The evaluation involved determining if any surfaces were painted with suspect lead-based paint. Once a painted surface was identified, the location, and condition were documented, and a sample was collected.

2.2.2 Paint Chip Sampling

The sample was collected using a knife or scalpel, scoring the area of paint to an appropriate size and lifting the paint from the surface below, with care taken to ensure that all layers of paint were intact, and that substrate materials were not included. The paint sample was placed into a sterilized Whirl-Pac bag and assigned a unique identification number. The identification number was then recorded on the sample bag and bulk sampling survey sheet.

The sample was sent to Gascoyne Laboratories, Inc. for analysis by atomic absorption. The analysis was performed according to the American Organization of Analytical Chemists (AOAC) method 974.02M.

2.2.3 Chain of Custody

A chain of custody form was filled out for the set of samples. The samples were logged in and assigned a unique lab number.

3 RESULTS

3.1 Asbestos Bulk Sample Results

A total of 20 bulk samples of suspect ACMs were collected. Of the 20 bulk samples collected 2 were observed to contain greater than 1% asbestos by PLM analysis. The following table lists the asbestos bulk sample results:

Sample #	Location/Material	Results
5794082301A	White drywall and spackle, NE switch gear room	No asbestos observed
5794082302A	1'x1'beige and brown floor tile, Engineer's office, area 3 - switch gear #4	No asbestos observed
05794090601	1'x1'beige and brown floor tile, Engineer's office, area 3 - switch gear #4	No asbestos observed
05794090602	1'x1'beige and brown floor tile, Engineer's office, area 3 - switch gear #4	No asbestos observed
5794082303A	Black floor tile mastic, collected under sample # 5794082302A	No asbestos observed
05794090603	Black floor tile mastic, collected under sample # 5794090601	< 1% Chrysotile
05794090604	Black floor tile mastic, collected under sample # 5794090602	No asbestos observed
5794082304A	Mastic under red dotted carpet, Area #4 in engineer's office	No asbestos observed
05794090608	Mastic under red dotted carpet, Area #4 in engineer's office	No asbestos observed
05794090609	Mastic under red dotted carpet, Area #4 in engineer's office	No asbestos observed

Sample #	Location/Material	Results
5794082305A	White dry wall, Area #4, engineer's office	No asbestos observed
05794090605	White dry wall, Area #4, engineer's office	No asbestos observed
5794082306A	9"x9" floor tile and mastic, Behind AHU in engineer's office - area #4	2% Chrysotile Asbestos
5794082307A	2'x4' white drop ceiling tile, engineer's office - area #4	No asbestos observed
05794090606	2'x4' white drop ceiling tile, engineer's office - area #4	No asbestos observed
05794090607	2'x4' white drop ceiling tile, engineer's office - area #4	No asbestos observed
5794082308A	Black tar sealant, 1st floor NW electrical closet	5% Chrysotile Asbestos
05794090610	14"x 14" beige floor tile, Stack areas in tier 7, row 26	No asbestos observed
05794090611	14"x 14" beige floor tile, Stack areas in tier 7, row 26	No asbestos observed
5794082401A	14"x 14" beige floor tile, Stack areas in tier 7, row 26	No asbestos observed

3.2 Lead-based paint Sample Results

A total of 11 paint chip samples were collected. Of the 11 samples collected, one was determined to contain greater than 0.5% lead. The following table lists the paint chip sample results:

Sample #	Location/Color	Result (% lead)	Determination
5794082301L	SW transformer room, metal cabinet / Gray paint	0.09	Negative
5794082302L	SW transformer room, metal box / Black paint	0.39	Negative
5794082303L	NW transformer room, metal cabinet / Gray paint	0.16	Negative
5794082304L	SW transformer room, floor Red paint	<0.05	Negative
5794082305L	SW transformer room, walls White paint	<0.05	Negative
5794082306L	Chiller room, floor / Gray paint	0.26	Negative
5794082307L	Switch gear room in SW transformer room,wall and concrete / Beige paint	<0.05	Negative
5794082308L	NE electrical closet, metal cabinet / Green paint	<0.19	Negative
5794082401L	SE1-2, metal cabinet / Gray paint	<0.16	Negative
5794082402L	**SE1-2, conduit from panel / Green paint**	**14**	**Positive**
5794082403L	Panel W-2-2 / White paint	0.19	Negative

4 CONCLUSIONS

4.1 Asbestos Containing Materials

The results of the survey indicated that the 9"x9"floor tile and its associated mastic and the black tar vapor barrier were asbestos containing materials. The floor tile is located in the engineers office underneath a layer of non-asbestos containing floor tile and mastic. It is assumed that the asbestos containing floor tile and associated mastic is located throughout the office, however this could not be confirmed without performing destructive sampling. AMA estimated that there was approximately 70 square meters of floor tile and mastic located in this area.

The black tar waterproofing is located within the cinder blocks which are used in the construction of the walls in each electrical closet. The material was only visible in areas where the cinder blocks were damaged. AMA estimates that there is approximately 10 square meters of material in each electrical closet.

The floor tile, mastic, and black tar waterproofing material were classified as non-friable at the time of the survey.

The floor tile, mastic, and black tar waterproofing were documented as being in fair to poor condition, at the time of the sampling and were classified as Category I or II nonfriable asbestos-containing materials. A Category I or II non-friable material is usually a non-regulated asbestos-containing material, per the definition contained within the EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) Asbestos Regulations (40 CFR 61, Subpart M), which is as follows:

Regulated asbestos-containing material (RACM) means (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 regulated by this subpart.

A new OSHA regulation (29 CFR 1926.1101) will be effective beginning October 1, 1995. Any contractor disturbing ACMs must understand and comply with the stipulations set forth in this document.

4.2 Lead-based Paint

The results of the survey indicated that the green paint located on the metal conduit which leads to the panel boxes is considered a lead-based paint (it contains greater than 0.5% lead). This conduit is located in each electrical closet that was evaluated. AMA estimated that there is approximately 3 square meters of paint at each location.

5 RECOMMENDATIONS

5.1 Asbestos Containing Materials

Any asbestos containing materials that are disturbed during renovations and repairs must be removed by trained personnel using abatement techniques acceptable to the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), and the District of Columbia, and be disposed of properly, usually as asbestos waste.

AMA believes, but does not recommend, that the materials could be removed or repaired without a negative pressure, fully contained regulated area if special work procedures were performed and the material is not subject to the forces described in the definition located on page 9. However, there is a requirement to notify the landfill where the nonregulated ACM will be disposed of, that it is a non-regulated Category II non-friable asbestos-containing material and the contractor would still be responsible for OSHA personal air sampling.

The 9"x 9" floor tiles, associated mastic, and black tar waterproofing which were found to contain asbestos, are currently considered by the EPA to be a Category I and II nonfriable asbestos containing material. These materials are considered nonfriable as long as one does not cut, sand, abrade or grind them.

AMA recommends that care be taken when disturbing these materials so as not to render them friable. If these materials are cut, ground, sanded, or abraded, they must be treated as a regulated friable asbestos containing materials and removed/disposed of as such in accordance with all federal, state, and local regulations.

5.2 Lead-Based Paint Recommendations

AMA recommends that if the green painted metal conduit which contains lead-based paint will be disturbed during renovations, the conduit be handled by trained personnel certified in lead paint abatement. If the conduit will be removed and disposed of, it must be tested for lead by the Toxic Characteristics Leaching Procedure (TCLP) to determine whether it is classified as a Resource Conservation and Recovery Act (RCRA) lead hazardous waste and disposed of accordingly, or recycled.

Before beginning any construction work which may result in lead exposure, an employer must determine if employees will be exposed to airborne lead dust at or above the action level of 30 micrograms/cubic meter. The determination must be in writing and posted. If any employee may be exposed at or above the action level, the employer must conduct air sampling at the start of the operation that may involve lead exposure. Depending on the level of exposure to airborne lead, the standard requires various protective measures. All provisions for exposure monitoring, engineering and work practice controls, medical monitoring, training, job removal, and record keeping must be followed.

Should any painted surfaces outside of AMA's Scope of Work be disturbed as a result of the planned renovations, AMA recommends they be tested for lead.

It should be understood that some of the paint tested did contain some lead, but not enough to meet the regulatory definition of a lead-based paint. Whenever renovation or demolition is performed on painted surfaces, an attempt should be made to control dust. Non-regulated paint has the ability to produce lead dust when it is disturbed. AMA recommends that sanding and burning be prohibited, along with any other work practices which produce excessive dust during renovation and demolition.

APPENDIX

APPENDIX A
CERTIFICATES OF ANALYSIS

Gascoyne Laboratories, Inc.

Baltimore, MD 21224-6697

(410) 633-1800
(800) GAS-COYN
FAX NO.
(410) 633-5443

REPORT OF ANALYSIS

Report No. 95-08-446 Report Date: August 30, 1995

Report To: Aerosol Monitoring of MD Page: 1 of 1

Sample I.D. Submitted Paint Chips: National Archives, dated dated 08/23/95

Sample Description	Lead (Pb)	Detection Limits	By	Date Analyzed
05794082301L	0.09	0.05	JN	08/28/95
05794082302L	0.39	0.10	JN	08/28/95
05794082303L	0.16	0.05	JN	08/28/95
05794082304L	ND	0.05	JN	08/28/95
05794082305L	ND	0.05	JN	08/28/95
05794082306L	0.26	0.05	JN	08/28/95
05794082307L	ND	0.05	JN	08/28/95
05794082308L	ND	0.19	JN	08/28/95
05794082401L	ND	0.16	JN	08/28/95
05794082402L	14	0.05	JN	08/28/95
05794082403L	0.19	0.05	JN	08/28/95

Notes

(1) Results expressed as percent (%).
(2) Analysis performed according to method AOAC 974.02M.

(b) (6) [redacted]

William L. Lock
Laboratory Director

Printed on recycled paper.

Please see reverse side for explanation of terms and other information.

SAMPLE SUBMITTAL — CHAIN-OF-CUSTODY

Sample Type Codes:					
Air - Airbag	AB	Sludge	SL	Water	
- Air Filter	AF	Soil	SO	- Drinking	WD
- Sorbent Tubes	AT	Trip Blank	TB	- Groundwater	WG
Field Blank	FB	Waste- Liquid	LW	- Surface	WS
Oil(s)	OL	- Solid	SW	- Wastewater	WW
				Wipes	WP

GASCOYNE LABORATORIES, INC.

YOUR ON-TIME QUALITY LAB™

2101 Van Deman Street • Baltimore, MD 21224
410-633-1800 • FAX: 410-633-5443

LAB USE ONLY
Report # 9506446
Temp. Blk.____ Cooler # ____

Test Results to:

Company: AMA
Contact: David Meyer
Phone No. 410 684-3327
FAX No. ____

Sampler Allan J-Gewirtz
Sample Site/Project National Archives
Gascoyne Quote # ____
Client's P.O. # ____

MDOE Certification # ____

Page ____ of ____

SAMPLE INFORMATION

TESTS REQUIRED

SAMPLE TYPE USE CODES ABOVE if applicable	SAMPLE IDENTIFICATION (Keep brief and assign sample numbers if possible)	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	NPDES	NUMBER OF CONTAINERS	Lead Based Point								COMMENTS (i.e. Priority Service, methods, detection limits, etc.)
	05794082301L-08L	8/23/95					8									3 Day Turn Around
	05794082401L-03L						3									
							11									

Relinquished By (signature):	Printed Name/Affiliation:	Date:	Time:	Received By (signature):	Printed Name/Affiliation:	Date:	Time:
(b) (6) [redacted]	Allan Jackson-Gewirtz	8/24/95	5:00	(b) (6) [redacted]	Chip Ryan		
	Chip Ryan				[illegible]	8/24/95	1720
	[illegible]	8/24/95	1830		[illegible]	8/25/95	0830
Relinquished By (signature):	Printed Name/Affiliation:			Received By (signature):	Printed Name/Affiliation:		

WHITE COPY - LAB YELLOW - REPORT COPY PINK - CLIENT SAMPLE SUBMITTAL RECEIPT

AMA Analytical Services, Inc.

Electron & Optical Microscopy Services

CERTIFICATE OF ANALYSIS

NY ELAP
AIHA

Aerosol Monitoring & Analysis
P.O. Box 646
1340 Ashton Road
Hanover, MD 21076
ATTENTION: David Meyer

JOB SITE: National Archives
JOB NUMBER: 05794
SUBMITTED BY: Aerosol Monitoring & Analysis

DATE ANALYZED: 08/25/95
CHAIN OF CUSTODY #: 36708
PERSON SUBMITTING: Allan J-Gewirtz

SUMMARY OF POLARIZED LIGHT MICROSCOPY

CUST SAMPLE ID	AMA SAMPLE NUMBER	ANALYSIS METHOD*	ASBESTOS % TOTAL ASBESTOS	CHRYSOTILE	AMOSITE	CROCIDOLITE	OTHER	OTHER FIBROUS MATERIAL % MINERAL WOOL	FIBROUS GLASS	ORGANIC FIBERS	OTHER	NON-FIBROUS MATERIAL % PART.	OTHER	ANL. ID**	COMMENTS
5794082301A	9536736	PLMEPA93	NAD	-------	-------	-------	-------	-------	-------	2.00%	-------	98.00%	-------	RW	
5794082302A	9536737	PLMEPA93	NAD	-------	-------	-------	-------	-------	-------	TRACE	-------	100.00%	-------	RW	
5794082303A	9536738	PLMEPA93	NAD	-------	-------	-------	-------	-------	TRACE	2.00%	-------	98.00%	-------	RW	
5794082304A	9536739	PLMEPA93	NAD	-------	-------	-------	-------	-------	2.00%	TRACE	-------	98.00%	-------	RW	
5794082305A	9536740	PLMEPA93	NAD	-------	-------	-------	-------	-------	-------	5.00%	-------	95.00%	-------	RW	
5794082306A	9536741	PLMEPA93	2.00%	2.00%	-------	-------	-------	-------	-------	-------	-------	98.00%	-------	RW	
5794082307A	9536742	PLMEPA93	NAD	-------	-------	-------	-------	35.00%	-------	30.00%	-------	35.00%	-------	RW	
5794082308A	9536743	PLMEPA93	5.00%	5.00%	-------	-------	-------	-------	-------	TRACE	-------	95.00%	-------	RW	
5794082401A	9536744	PLMEPA93	NAD	-------	-------	-------	-------	-------	-------	10.00%	-------	90.00%	-------	RW	

COMMENTS: * SEE KEY FOR DESCRIPTION ** ANALYST ID CODE (SEE LAST PAGE)
NAD = No asbestos detected.
Trace = Trace quantity (<1%) of this component detected.

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples.
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AMA Analytical Services, Inc
Electron & Optical Microscopy Services

CERTIFICATE OF ANALYSIS

NVLAP
NY ELAP
AIHA

Aerosol Monitoring & Analysis
P.O. Box 646
1340 Ashton Road
Hanover, MD 21076
ATTENTION: David Meyer

JOB SITE: National Archives
JOB NUMBER: 05794
SUBMITTED BY: Aerosol Monitoring & Analysis

DATE ANALYZED: 08/25/95
CHAIN OF CUSTODY #: 36708
PERSON SUBMITTING: Allan J-Gewirtz

SUMMARY OF POLARIZED LIGHT MICROSCOPY

Analytical results reported are estimated as whole numbers with zero decimal places, rather than two decimal places.

NOTE 1: TEM RECOMMENDATION - Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that additional analytical techniques including TEM be used.

NOTE 2: MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos, which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample prior to re-analysis by PLM.

LAST PAGE OF 2 PAGE(S)

Analysis method codes:

PLMEPA93 - EPA "Test Method" - EPA/600/R-93/116 dated July 1993

(b) (6) [redacted]

Roberta Winters OPIL

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples.
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CHAIN OF CUSTODY

(Please Refer To This Number For Inquiries)

36708

MAILING ADDRESS:

1. Submittal Date: 8/24/95 — Job Name/location: National Archives
2. Client Name: AMA — Job #: 05794 — P.O. #:
3. Street/RFD/P.O. Box: 1340 Ashton Rd — Bill To: AMA
4. City, State, Zip: Aacover, MD 21076 — Phone #: 410 684 3327 — Fax:
5. Contact Person: Dave Meyer — Submitted By: Allan J-Gewirtz (Print) (b) (6) [redacted] (Signature)
6. DATE & TIME RESULTS REQUIRED: 8/ 25 / 95, Time: 2:00 AM PM ☐ IMMED. ☒ 24HR ☐ 48HR ☐ 72HR ☐ 5-DAY OTHER(Specify):

SAMPLE DATA:

1. Analysis Type: ☒ Asbestos ☐ Lead ☐ NOB - Whole (PLM/TEM) ☐ NOB Res. Ash (TEM) ☐ Other(Specify)
2. Total Number Of Samples: TEM ____ PCM ____ PLM X LEAD ____ OTHER(Specify)
3. ELECTRON MICROSCOPY SAMPLES:
   A. Filter Type: PC ☐ MCE ☐ B. Porosity: ____ Micron C. Diameter: ☐ 37mm ☐ 25mm
4. Release Critera/Analytical Sensitivity: 0.010 f/cc ☐ 0.005 f/cc ☐ AHERA ☐ % ASBESTOS ☐ S\FT² ☐ OTHER ☐
5. Field Sheet Attached? YES ☒ NO ☐ If No Then Please Complete The Following:

SAMPLE ANALYSIS INFORMATION / **ANALYSIS** / **MATRIX**

CLIENT ID NUMBER	AMA ID NUMBER	SAMPLE LOCATION	DATE	VOLUME (LITERS)	TEM	PCM	PLM	LEAD	OTHER	AIR	BLANK	BULK	WIPE	OTHER
05794082301A	9536736													
— 08A	70													
05794082401A	9536744													
AND	NO	Others												

REPORTING DATA:

1. Verbal Results To Whom? Name: ____ Phone: ____ Beeper: ____
2. Date Written Results Required ____ / ____ / ____

LABORATORY STAFF ONLY: (CUSTODY)

1. Date/Time RCVD: 8/24/95 @ 1320 Via: Dropoff By(Print): Shani Mann Sign: (b) (6) [redacted]
2. Date/Time Analyzed: 8/25/95 @ ____ By(Print): Winters Sign: Winters
3. Results Reported To: Dave Meyer Via: fax Date: 8/25/95 Time: ____ Initials: RW
4. Comments:

AMAnalytical Services, Inc.

PolariLight Microscopy Telefax

Client: Aerosol Monitoring & Analysis Act: Dave Meyer Analyst: Thomas Bioksi

Job #: 05794 C#: 3719 Date: 9/8/95

Customer Sample I.D.	AMA Sample Number	Fibrous Asbestos %: Chrysotile	Amosite	Crocidolite	Other	Other Fibrous Material %: Non-Fibrous	Fibrous Glass	Organic Fibers	Other	Non-Fibrous Material %: Particulate	Other	Physical Appearance Or Location
5A940906-01	9537700							TR		100		Recommend TEM
02	9537701									100		Recommend TEM
03	9537702	TR				TR		5		95		
04	9537703					2		8		90		
05	9537704							4		96		
06	9537705					10		40		50		
07	9537706					10		35		50		
08	9537707						5	2		93		Recommend TEM
09	9537708						5	TR		95		Recommend TEM
10	9537709							TR		100		Recommend TEM (FT)
10M	9537709M							3		97		Mastic
11	9537710							5		95		Recommend TEM (FT)
11M	9537710M							TR		100		Mastic

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An AIHA (#8863), NVLAP (#1143) & New York ELAP (#10920) Accredited Laboratory

AMA analytical services, Inc.

AIHA (#8863) NVLAP (#1143) NY ELAP (10920)
4485 Forbes Blvd. • Lanham MD, 20706
(301) 459-2640 • (800) 346-0961 • Fax(301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquiries)

37419

MAILING ADDRESS:

1. Submittal Date: 02/06/95 — Job Name/location: Natoma Archives
2. Client Name: AMA — Job #: 05794 — P.O. #:
3. Street/RFD/P.O. Box: 1340 Ashton Rd — Bill To: AMA
4. City, State, Zip: Hanover MD — Phone #: 410 684 3327 — Fax:
5. Contact Person: Dave Meyer — Submitted By: Allan J. Gewirtz (Print) (b) (6) [redacted] (Signature)
6. **DATE & TIME RESULTS REQUIRED:** 02/08/95, Time: 12:00 AM (PM) ☐ IMMED. ☐ 24HR ☒ 48HR ☐ 72HR ☐ 5-DAY OTHER(Specify):

SAMPLE DATA:

1. Analysis Type: ☒ Asbestos ☐ Lead ☐ NOB - Whole (PLM/TEM) ☐ NOB Res. Ash (TEM) ☐ Other(Specify)
2. Total Number Of Samples : TEM ___ PCM ___ PLM X LEAD ___ OTHER(Specify)
3. ELECTRON MICROSCOPY SAMPLES:
   A. Filter Type: PC ☐ MCE ☐ B. Porosity: ___ Micron C. Diameter: ☐ 37mm ☐ 25mm
4. Release Critera/Analytical Sensitivity: 0.010 f/cc ☐ 0.005 f/cc ☐ AHERA ☐ % ASBESTOS ☐ S\FT² ☐ OTHER ☐
5. Field Sheet Attached? YES ☐ NO ☐ If No Then Please Complete The Following:

SAMPLE ANALYSIS INFORMATION					ANALYSIS					MATRIX				
CLIENT ID NUMBER	AMA ID NUMBER	SAMPLE LOCATION	DATE	VOLUME (LITERS)	TEM	PCM	PLM	LEAD	OTHER	AIR	BLANK	BULK	WIPE	OTHER
057590706 01														
-01														
And	No	Other												

REPORTING DATA:

1. Verbal Results To Whom? Name: ___ Phone: ___ Beeper: ___
2. Date Written Results Required ___ / ___ / ___

LABORATORY STAFF ONLY: (CUSTODY)

1. Date/Time RCVD: 2/6/95 @ 1530 Via: drop off By(Print): Holly Turner Sign: Holly Turner
2. Date/Time Analyzed: ___ / ___ / ___ @ ___ By(Print): ___ Sign: ___
3. Results Reported To: ___ Via: ___ Date: ___ / ___ / ___ Time: ___ Initials: ___
4. Comments: ___

APPENDIX

APPENDIX B
FIELD DOCUMENTATION

ASBESTOS ASSESSMENT DATA

BLDG NAME: National Archives ASSESSMENT DATE: 8/23/85
ADDRESS: 7th + Pa. Ave
BLDG NO.: N/A AMOUNT (sq ~~ft~~ M): ≈ 10 M²
(or linear ft): N/A

Location in Bldg.: Floors 1-5
(include functional space)
HOMOGENEOUS AREA: Electrical Closet + Phone closet - North Corridor of Bldg

Type of Material	Damage	Accessibility
__ Fireproofing	__ None	__ High
__ Acoustic Plaster	__ Minor	X Medium
__ Acoustic Tile	X Low	
__ Thermal Systems Insulation (TSI)		
__ Vinyl Floor Tile		
X Other: Black Tar		

Significant Air Plenum _____ (Y or N)

Friability	Traffic	AHERA Classification*
__ High	__ High	5
__ Medium	__ Medium	
X Low	X Low	

*1. damaged or significantly damaged TSI,
2. damaged friable surfacing ACM,
3. significantly damaged friable miscellaneous ACM,
4. damaged or significantly damaged friable surfacing ACM,
5. ACBM with potential for damage,
6. ACBM with potential for significant change,
7. any remaining friable ACBM or friable suspected ACBM

Sample Number	Sample Location	Result
057540823 0XA	Electrical Closets Floors 1-5	5% CHRYSOTILE
	N3-1-16	

NOTE: Use one form per homogeneous area. Consult 40 CFR Part 763 for sampling protocols, analytical protocols and definitions. If ACM, include percent and type in result (e.g. 50 percent/Chrysotile).

ASBESTOS ASSESSMENT DATA

BLDG NAME: National Archives ASSESSMENT DATE: 5/23/85
ADDRESS: 7th + Penn Ave. D.C.
BLDG NO.: N/A AMOUNT (~~sq ft~~): 02- 70 M²
(or linear ft): N/A 03- 70 M²
06- 70 M²

Location in Bldg.: Sub-basement
(include functional space)
HOMOGENEOUS AREA: N. Refrig. Switch Board - Area 4 on Map

Type of Material	Damage	Accessibility
__ Fireproofing	__ None	X High
__ Acoustic Plaster	X Minor	__ Medium
__ Acoustic Tile	__ Significant	__ Low
__ Thermal Systems Insulation (TSI)		
X Vinyl Floor Tile	Air Plenum ____ (Y or N)	
__ Other: ____		

Friability	Traffic	AHERA Classification*
__ High	__ High	5
__ Medium	X Medium	
X Low	__ Low	

*1. damaged or significantly damaged TSI,
2. damaged friable surfacing ACM,
3. significantly damaged friable miscellaneous ACM,
4. damaged or significantly damaged friable surfacing ACM,
5. ACBM with potential for damage,
6. ACBM with potential for significant change,
7. any remaining friable ACBM or friable suspected ACBM

Sample Number	Sample Location	Result
05794 082302A FT	Area 4 F: 1-16 1'x1' BROWN & BEIGE FT	NO ASBESTOS OBSERVED
05794 082303A mastic	BLACK MASTIC UNDER SAMPLE #05794 082302A	NO ASBESTOS OBSERVED
05794082306A FT + Mastic	Area 4	2% CHRYSOTILE
	assumed F: 1-16, ch xmd F. 12, 16	
* ~~BLK~~ 057940906 04 & 03	BLACK MASTIC ENGINEERS OFFICE, AREA 3	<1% CHRYSOTILE NO ASBESTOS OBSERVED -04
	3' S OF N WALL, 2' E OF W WALL REFRIG SWITCH BOARD RM	
05794090601 & 02	1'x1' BROWN & BEIGE FT (SAME LOCATIONS AS ABOVE)	NO ASBESTOS OBSERVED

NOTE: Use one form per homogeneous area. Consult 40 CFR Part 763 for sampling protocols, analytical protocols and definitions. If ACM, include percent and type in result (e.g. 50 percent/Chrysotile).

ASBESTOS ASSESSMENT DATA

BLDG NAME: National Archives ASSESSMENT DATE: 8/23/95
ADDRESS: 7th + Penn Ave Wash DC
BLDG NO.: N/A AMOUNT (~~sq ft~~): ≈40 MLF
(or linear ft): N/A

Location in Bldg.: ~~A+E~~ Sub-basement
(include functional space)
HOMOGENEOUS AREA: NE Switch Gear Room

Type of Material	Damage	Accessibility
__ Fireproofing	X None	__ High
__ Acoustic Plaster	__ Minor	X Medium
__ Acoustic Tile __ Significant	__ Low	
__ Thermal Systems Insulation (TSI)		
__ Vinyl Floor Tile Air Plenum ____		
X Other: Dry Wall/Plaster (Y or N)		

Friability	Traffic	AHERA Classification*
__ High	__ High	
X Medium	X Medium	
__ Low	__ Low	

*1. damaged or significantly damaged TSI,
2. damaged friable surfacing ACM,
3. significantly damaged friable miscellaneous ACM,
4. damaged or significantly damaged friable surfacing ACM,
5. ACBM with potential for damage,
6. ACBM with potential for significant change,
7. any remaining friable ACBM or friable suspected ACBM

Sample Number	Sample Location	Result
06794 0823 1A	NE Switch Gear Room	NO ASBESTOS OBSERVED
	W: 1: 1-3, 5-7, 9-11, 13-15	
05794 0823 05A	Refrig. N Switch Board Room	NO ASBESTOS OBSERVED
	W: 4: 3-4, 7-8, 11-12, 15-16	
05794090605	WALL OF ENGINEERS OFFICE	NO ASBESTOS OBSERVED
	SW SWITCH~~GEAR~~ BOARD ROOM	

NOTE: Use one form per homogeneous area. Consult 40 CFR Part 763 for sampling protocols, analytical protocols and definitions. If ACM, include percent and type in result (e.g. 50 percent/Chrysotile).

ASBESTOS ASSESSMENT DATA

BLDG NAME: National Archives ASSESSMENT DATE: 8/23/95
ADDRESS: 7st + Penn Ave
BLDG NO.: N/A AMOUNT (~~sq ft~~): 15 M2
(or linear ft): N/A

Location in Bldg.: sub basement
(include functional space)
HOMOGENEOUS AREA: N Riprg Switch board Room

Type of Material	Damage	Accessibility
__ Fireproofing.	__ None	__ High
__ Acoustic Plaster	X Minor	X Medium
__ Acoustic Tile	__ Significant	__ Low
__ Thermal Systems Insulation (TSI)		
__ Vinyl Floor Tile	Air Plenum_____ (Y or N)	
X Other: Carpet Mastic		

Friability	Traffic	AHERA Classification*
__ High	__ High	N/A
__ Medium	X Medium	
X Low	__ Low	

*1. damaged or significantly damaged TSI,
2. damaged friable surfacing ACM,
3. significantly damaged friable miscellaneous ACM,
4. damaged or significantly damaged friable surfacing ACM,
5. ACBM with potential for damage,
6. ACBM with potential for significant change,
7. any remaining friable ACBM or friable suspected ACBM

Sample Number	Sample Location	Result
05794082304A	F: 12,16 Riprg Switch Board Rm	NO ASBESTOS OBSERVED
	under carpet	
05794090608	ENGINEERS OFFICE, UNDER	NO ASBESTOS OBSERVED
	CARPET, NEAR REFRIDG SB	
05794090609	"	NO ASBESTOS OBSERVED

NOTE: Use one form per homogeneous area. Consult 40 CFR Part 763 for sampling protocols, analytical protocols and definitions. If ACM, include percent and type in result (e.g. 50 percent/Chrysotile).

ASBESTOS ASSESSMENT DATA

BLDG NAME: National Archives ASSESSMENT DATE: 8/23/95
ADDRESS: 7th + Penn Ave
BLDG NO.: N/A AMOUNT (~~sq ft~~): 33 M²
(or linear ft): N/A

Location in Bldg.: Sub-basement
(include functional space)
HOMOGENEOUS AREA: Refrig Switch Board Room Area 4

Type of Material	Damage	Accessibility
__ Fireproofing	__ None	__ High
__ Acoustic Plaster	X Minor	X Medium
__ Acoustic Tile	__ Significant	__ Low
__ Thermal Systems Insulation (TSI)		
__ Vinyl Floor Tile	Air Plenum	
X Other: 2'x4' CT	(Y or N)	

Friability	Traffic	AHERA Classification*
X High	__ High	N/A
__ Medium	X Medium	
__ Low	__ Low	

*1. damaged or significantly damaged TSI,
2. damaged friable surfacing ACM,
3. significantly damaged friable miscellaneous ACM,
4. damaged or significantly damaged friable surfacing ACM,
5. ACBM with potential for damage,
6. ACBM with potential for significant change,
7. any remaining friable ACBM or friable suspected ACBM

Sample Number	Sample Location	Result
05974082307 A	C·1-16 Area #4	NO ASBESTOS OBSERVED
05974090606	IN ENGINEERS OFFICE C:3	NO ASBESTOS OBSERVED
	REFRIG SWITHGEAR RM	
05974090507	IN ENGINEERS OFFICE C:5	NO ASBESTOS OBSERVED
	REFRIG SWITCH GEAR RM	

NOTE: Use one form per homogeneous area. Consult 40 CFR Part 763 for sampling protocols, analytical protocols and definitions. If ACM, include percent and type in result (e.g. 50 percent/Chrysotile).

ASBESTOS ASSESSMENT DATA

BLDG NAME: National Archives ASSESSMENT DATE: 8/24
ADDRESS: 7st + Penn Ave
BLDG NO.: N/A AMOUNT (sq ~~ft~~ M): ≈ 20 M²
(or linear ft): N/A

Location in Bldg.: Floors 1-5
(include functional space)
HOMOGENEOUS AREA: Stack Areas

Type of Material
__ Fireproofing
__ Acoustic Plaster
__ Acoustic Tile
__ Thermal Systems Insulation (TSI)
X Vinyl Floor Tile
__ Other:

Damage
__ None
__ Minor
__ Significant
X Low

Accessibility
__ High
X Medium

Air Plenum (Y or N)

Friability
__ High
__ Medium
X Low

Traffic
__ High
__ Medium
X Low

AHERA Classification*
N/A

*1. damaged or significantly damaged TSI,
2. damaged friable surfacing ACM,
3. significantly damaged friable miscellaneous ACM,
4. damaged or significantly damaged friable surfacing ACM,
5. ACBM with potential for damage,
6. ACBM with potential for significant change,
7. any remaining friable ACBM or friable suspected ACBM

Sample Number	Sample Location	Result
057940824 01A	2nd Floor Tier 7 Row 25, 26 Fl: 1-16	NO ASBESTOS OBSERVED
057940906 10	IN ALL STACK AREAS ON FLOORS · STOCK 7W-3, ROW 26	NO ASBESTOS OBSERVED
057940906 11	SAME LOCATION AS ABOVE	NO ASBESTOS OBSERVED

NOTE: Use one form per homogeneous area. Consult 40 CFR Part 763 for sampling protocols, analytical protocols and definitions. If ACM, include percent and type in result (e.g. 50 percent/Chrysotile).

BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410-684-3327
Samples Taken By: Allen J. Gewietz
Sampling Witnessed By: ——
Date/Time Received by Lab: 8/24/95 1:20pm

Date Collected: 8/23/95
Job Site: National Archives
Job No.: 05794 Work Order No. N/A
When Needed: N/A

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05794 0823 01A	Dry Wall From Wall one	Wall one in NE Switch Gear Room Dry wall and spackle From corner ~ 40 m²	■ Yes ☐ No ☐ Potentially	■ Good ☐ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No # ____	
05794 0823 02A	1'x1' FT Beige w Brown	On Floor of Engineers Office, Area 3 - Switch Gear #4 1'x1' FT ~70 m²	☐ Yes ■ No ☐ Potentially	■ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ■ High	☐ Yes ■ No # ____	
05794 0823 03A	Mastic on FT Above	Area 4 mastic from Above ~70 m²	☐ Yes ■ No ☐ Potentially	■ Good ☐ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No # ____	
05794 0823 04A	Carpet Mastic	Area 4 Mastic under Red dotted Carpet Engineers Office ~15 m²	☐ Yes ■ No ☐ Potentially	■ Good ☐ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No # ____	
05794 0823 05A	Dry Wall	Area 4 Dry Wall From Engineer's office ~30 m²	■ Yes ☐ No ☐ Potentially	☐ Good ■ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No # ____	

Analysis Technician/Time/Date

BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410 684 3327
Samples Taken By: Allen J - Gevirtz
Sampling Witnessed By: ——
Date/Time Received by Lab: 8/24/95 1:20 pm

Date Collected: 8/23/95
Job Site: National Archives
Job No.: 05794 Work Order No. N/A
When Needed: N/A

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05794 0823 06A	9x9 FT + Mastic	Behind AHU - in Engineers Office Area 4 - possibly under 1x1 FT ~ 70 m²	☐ Yes ☒ No ☐ Potentially	☐ Good ☐ Fair ☒ Poor	☒ Low ☐ Med ☐ High	☐ Yes ☒ No # ____	
05794 0823 07A	2x4 CT worm holes Run along width	Ceiling of Engineers Office Area 4 ~ 33 m²	☒ Yes ☐ No ☐ Potentially	☒ Good ☐ Fair ☐ Poor	☐ Low ☒ Med ☐ High	☐ Yes ☒ No # ____	
05794 0823 08A	Black Tar Vapor Barrier	Tar, sealant in 1st Floor NW Electrical Closet + Phone closet ~ 10 m²	☐ Yes ☐ No ☒ Potentially	☐ Good ☒ Fair ☐ Poor	☒ Low ☐ Med ☐ High	☐ Yes ☒ No # ____	
[illegible]	[illegible]	AND NO OTHERS	☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	[illegible]
[illegible]	[illegible]	[illegible]	☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	[illegible]

Analysis: Technician/Time/Date

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BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410 684 3327
Samples Taken By: Allan J-Gewirtz
Sampling Witnessed By: ——
Date/Time Received by Lab: 8/24/95 1:20 pm

Date Collected: 8/24/95
Job Site: National Archives
Job No.: 05794 Work Order No. N/A
When Needed: N/A

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05794 0824 01A	FT + Mastic	14"x14" Beige swirl FT in all stack areas in Tier 7 row 26 ~ 20 m² for each closet	☐ Yes ☐ No ■ Potentially	☐ Good ■ Fair ☐ Poor	☐ Low ☐ Med ■ High	☐ Yes ■ No # ____	
X	X	AND NO OTHERS	☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	
			☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	
			☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	
			☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	

Analysis Technician/Time/Date

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BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410 6843327
Samples Taken By: Alan J-Gewirtz
Sampling Witnessed By: —
Date/Time Received by Lab:

Date Collected: 9/06/95
Job Site: National Archives
Job No.: 05794 Work Order No. NA
When Needed: NA

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05794 0906 01	FT 1x1 Beige w/Brn streaks	On Floor of engineers office Area 3 - Piping switch Board Pan 3' south of North wall 2' East of West Wall	☐ Yes ☒ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☐ Low ☐ Med ☒ High	☐ Yes ☒ No #	
05794 0906 02	FT 1x1 Beige w/Brn	Same area 3' East of West wall 3' south of N wall	☐ Yes ☒ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☐ Low ☐ Med ☒ High	☐ Yes ☒ No #	
05794 0906 03	Blk Mastic on above FT in 01	Same area and loc. as sampl 01	☐ Yes ☒ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☒ Low ☐ Med ☐ High	☐ Yes ☒ No #	
05794 0906 04	Blk mastic on FT in 02	Same area and loc. as sampl 02	☐ Yes ☒ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☒ Low ☐ Med ☐ High	☐ Yes ☒ No #	
05794 0906 05	Dry Wall	Dry Wall of Engineer's Office SW switch Board Pan	☒ Yes ☐ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☐ Low ☒ Med ☐ High	☐ Yes ☒ No #	

Analysis: Technician/Time/Date

BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410 684 3327
Samples Taken By: Alan J - Gewirtz
Sampling Witnessed By: —
Date/Time Received by Lab:

Date Collected: 9/6/95
Job Site: National Archives
Job No.: 05754 Work Order No. NA
When Needed: NA

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05754 0906 06	2x4 CT worn holes run along width	Ceiling in Engineers Office C: 3 Refrig Switch gear Room	☒ Yes ☐ No ☐ Potentially	☒ Good ☐ Fair ☐ Poor	☐ Low ☒ Med ☐ High	☐ Yes ☒ No #	
05754 0906 07	2x4 CT worn holes run along width	Ceiling of Engineers Office C: 5 Refrig Switch gear Room	☒ Yes ☐ No ☐ Potentially	☒ Good ☐ Fair ☐ Poor	☐ Low ☒ Med ☐ High	☐ Yes ☒ No #	
05754 0906 08	Carpet mastic	Engineers Office, under carpet near Refrig Switch Board	☐ Yes ☒ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☒ Low ☐ Med ☐ High	☐ Yes ☒ No #	
05754 0906 09	carpet mastic	Engineers Office, under carpet near Refrig. Switch Board	☐ Yes ☒ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☒ Low ☐ Med ☐ High	☐ Yes ☒ No #	
05754 0906 10	FT + mastic 14x14	in All Stack Areas on Floors stock 7w-3 Row 26	☐ Yes ☒ No ☐ Potentially	☐ Good ☒ Fair ☐ Poor	☐ Low ☒ Med ☐ High	☐ Yes ☒ No #	

Analysis Technician/Time/Date

BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410 684 3327
Samples Taken By: Allen J - Cerny
Sampling Witnessed By: ——
Date/Time Received by Lab:

Date Collected: 05/06/95
Job Site: National Archives
Job No.: 05754 Work Order No. NA
When Needed: NA

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05794 0906 11	Floortile + Mastic 14x14 FT/Mastic	14x14 Breezeswirl FT in all stacks Areas Tier 7 w-3 row 26	☐ Yes ☐ No ☒ Potentially	☐ Good ☒ Fair ☐ Poor	☐ Low ☐ Med ☒ High	☐ Yes ☒ No # ____	
		AND NO OTHERS	☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	
			☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	
			☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	
			☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No # ____	

Analysis Technician/Time/Date

BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410 684-3327
Samples Taken By: Allen J-Gewertz + Spence Rich
Sampling Witnessed By: —
Date/Time Received by Lab: N/A

Date Collected: 8/23/95
Job Site: National Archives
Job No.: 05794 Work Order No. N/A
When Needed: N/A

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05794 0823 01L	Gray Paint	NW Corner of Main Transformer Gray Paint on Metal Cabinet SW Transformer Room ~270 m²	☐ Yes ☐ No ☐ Potentially N/A	☐ Good ■ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ■ No #	
05794 0823 02L	Black Paint	on small sub stations along W2 of SW Transformer Room Left wall, metal Box ~10m²	☐ Yes ☐ No ☐ Potentially N/A	☐ Good ☐ Fair ■ Poor	☐ Low ☐ Med ☐ High	☐ Yes ■ No #	
05794 0823 03L	Grey Paint	on Substation in NW Transformer Room Switch Gear on metal Cabinet ~300m²	☐ Yes ☐ No ☐ Potentially N/A	■ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ■ No #	
05794 0823 04L	Red ~~Grey~~ Paint	on Substation Floor SW Tr Rm Red Paint on Concrete ~270m²	☐ Yes ☐ No ☐ Potentially N/A	■ Good ☐ Fair ☒ Poor	☐ Low ☐ Med ☐ High	☐ Yes ■ No #	
05794 0823 05L	white Paint	in SW Transformer Room white paint on Brick + Mortar ~400m²	☐ Yes ☐ No ☐ Potentially N/A	☒ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ■ No #	

Analysis: Technician/Time/Date

BULK SAMPLING SURVEY SHEET

Contact Person: Dave Mayer
Company: AMA
Telephone Number: 410 684-33-27
Samples Taken By: Allen J-Gewirtz + Spencer Reed
Sampling Witnessed By: —
Date/Time Received by Lab:

Date Collected: 8/23/95
Job Site: National Archives
Job No.: 05794 Work Order No. N/A
When Needed: N/A

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
05794 0823 06L	Gray Paint on Floors	Floor of chiller room, SW corner, along wall, on floor ~100m²	☐ Yes ☐ No ☐ Potentially	☐ Good ■ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No #	
05794 0823 07L	Beige Paint on Walls	SW Transformer Room, Switch gear Room, W:2, left wall, 4'F High From Plaster Wall/Concrete ~1000m²	☐ Yes ☐ No ☐ Potentially	☐ Good ■ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No #	
05794 0823 08L	Green paint on Breaker Pannel	NE Electrical Closet Basement Green Paint on Metal Cabinet of Breaker Box ~3m² on	☐ Yes ☐ No ☐ Potentially	☐ Good ■ Fair ☐ Poor	■ Low ☐ Med ☐ High	☐ Yes ■ No #	
		AND NO OTHERS	☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ■ No #	
			☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No #	

Analysis Technician/Time/Date

BULK SAMPLING SURVEY SHEET

Contact Person: Dave Meyer
Company: AMA
Telephone Number: 410 684 3527
Samples Taken By: Allen J-Gemrot 2 + Spencer Red
Sampling Witnessed By: N/A
Date/Time Received by Lab: N/A

Date Collected: 8/24/95
Job Site: National Archives
Job No.: 05794 Work Order No. N/A
When Needed: N/A

Sample No.	Type of Material Sampled	Sample Location	Friable	Condition of the Material	Accessibility	Photo	Comments
5794 0824 01L	Gray Paint	Gray Paint - On SE 1-2 metal Cabinet of stack on left side ~3m²	☐ Yes ☐ No ☐ Potentially	■ Good ☐ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No #	
5794 0824 02L	Green paint	Green paint on conduit from panel SE 1-2 ~2m²	☐ Yes ☐ No ☐ Potentially	☐ Good ■ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No #	
05794 0824 03L	white paint	white paint on top of Gray painted metal panel W-2-2 ~3m²	☐ Yes ☐ No ☐ Potentially	☐ Good ■ Fair ☐ Poor	☐ Low ■ Med ☐ High	☐ Yes ■ No #	
[illegible]	[illegible]	AND NO OTHERS	☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No #	
[illegible]	[illegible]	[illegible]	☐ Yes ☐ No ☐ Potentially	☐ Good ☐ Fair ☐ Poor	☐ Low ☐ Med ☐ High	☐ Yes ☐ No #	

Analysis: Technician/Time/Date

FILE COPY
DC000622

1 9 1997

MEMORANDUM FOR BRONSON ALCOTT
PROJECT MANAGEMENT BRANCH (WPCOG)

FROM: TIMOTHY SLEETH
SAFETY AND ENVIRONMENT BRANCH (WPMOX)

SUBJECT: SAFETY AND ENVIRONMENT REVIEW COMMENTS

PROJECT TITLE: POST-AWARD ASBESTOS ABATEMENT SUBMITTALS
GS-11P96MKC0011
REPLACE CHILLERS
NATIONAL ARCHIVES BUILDING
7TH AND PENNSYLVANIA AVENUE, N.W.
WASHINGTON, D.C.

NO: | SAFETY AND ENVIRONMENT REVIEW COMMENTS:

The February 10, 1997 Post-Award Asbestos Abatement submittal from American Combustion Industries, Inc., for Southern Insulation, Inc., was reviewed and approved as noted:

[1] Submit a work plan diagram showing the location and layout of the work area and decontamination chamber.

[2] The Asbestos Analytical Laboratory License for Compliance Environmental, Inc., had expired on September 30, 1996. Submit a current license.

Please notify this office regarding the start and finish dates of asbestos abatement. This information is required so that arrangements may be made for the GSA Independent Industrial Hygienist (IH) to monitor this project.

If you have any questions, please contact me at (202) 708-5236.

Reviewed by:_____Date_____
Mark Serio, Industrial Hygienist

cc: Official, Facility, WPMOX
Subject File: DC0006ZZ
Serio: 2/13/97
ARCH-247.DOC.97-247

Author:_____Date_____
Mark Serio, Industrial Hygienist

FILE COPY

AUG 12 1996

MEMORANDUM FOR JOY A. WALKER
CONSTRUCTION PROCUREMENT TEAM (WPCAC)

FROM: TIMOTHY SLEETH Tim Sleeth
SAFETY AND ENVIRONMENT BRANCH (WPMOX)

SUBJECT: SAFETY AND ENVIRONMENT REVIEW COMMENTS

PROJECT TITLE: PRE-AWARD ASBESTOS ABATEMENT RE-SUBMITTAL
GS-11P96MKC0011
REPLACE CHILLERS
NATIONAL ARCHIVES BUILDING
7TH AND PENNSYLVANIA AVENUE, N.W.
WASHINGTON, D.C.

The August 5, 1996 Pre-Award Asbestos Abatement re-submittal from American Combustion Industries, Inc., for Southern Insulation, Inc., has been reviewed and found to be sufficient for approval at this time.

If you have any questions, please contact me at (202) 708-5236.

Reviewed by:_____Date_____
George Abi-Nader, Industrial Hygienist

cc: Official, Facility, WPMOX
Subject File: DC0006ZZ
Abi-Nader: 8/9/96
ARCHCHLR.DOC.96-486

Author: (b)(6) [redacted] Date AUG 12 1996
pr George Abi-Nader, Industrial Hygienist

JUL 30 1996

FILE COPY

MEMORANDUM FOR EUNICE BUTLER
CONSTRUCTION PROCUREMENT TEAM (WPCAC)

FROM: TIMOTHY SLEETH (b) (6) [redacted]
SAFETY AND ENVIRONMENT BRANCH (WPMOX)

SUBJECT: SAFETY AND ENVIRONMENT REVIEW COMMENTS

PROJECT TITLE: PRE-AWARD ASBESTOS ABATEMENT SUBMITTALS
GS-11P96MKC0011
REPLACE CHILLERS
NATIONAL ARCHIVES BUILDING
7TH AND PENNSYLVANIA AVENUE, N.W.
WASHINGTON, D.C.

NO: | SAFETY AND ENVIRONMENT REVIEW COMMENTS:

The July 16, 1996 pre-award asbestos abatement submittals from American Combustion Industries, Inc., for Southern Insulation, Inc., were reviewed as noted:

Asbestos Abatement:

[1] Submit a copy of the daily log and air monitoring reports for the last five projects.

If you have any questions, please contact me at (202) 708-5236.

Reviewed by:_____Date_____
Mark Serio, Industrial Hygienist

cc: Official, Facility, WPMOX
Subject File: DC0006ZZ
Serio: 7/25/96
ARCH-CHL.DOC.96-451

Author: (b) (6) [redacted] Date JUL 30 1996
for Mark Serio, Industrial Hygienist

ARCHIVES

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 4th flr. - T-10, Copy room/phone between Main elevators

DATE OF ASSESSMENT: 2/ 7/86

SQUARE FEET Approx. 10 x 7 = 70 ft.^{2}

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
X Fireproofing/Insulation
__ Acoustical plaster
__ Other: _____

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
__ Not present
__ Present but not damaged
X Present and damaged

Activity and Movement
__ None or low activity
X Moderate activity
__ High activity

Damage or Deterioration
__ No damage or deterioration
X Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
X 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

Type of material sampled:
Insulation & ceiling plaster

Sample Number	Result
ARCHVS-02-07-B29	30-35% C 5-10% Cr
-B30	15-20% C
-B31	20-25% C
-B32	NAD

SOURCES OF MATERIAL: B29,30&31 - Vertical pipes behind metal door. B32 - Ceiling plaster.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
X Removal
X Encapsulation
X Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
X Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
X Special maintenance
X Special cleaning
X Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
X Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
4TH FLOOR, 10T, COFE/PHONE RM BETWEEN ELEVATORS PA. AVE SIDE VERT. PIPE INSUL

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B29

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 40 - 45%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	30 - 35%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	5 - 10%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 55% - 60%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 03/12/96
Phone: 523-4209

** LOCATION **
SAME AS B29

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B30

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 15 - 20%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 15 - 20%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 70% - 75%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
CARBONATES
VARIOUS OTHER MATERIALS
COMMENTS

10

Anthony M. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 03/13/96
Phone: 523-4209

** LOCATION **
SAME AS B29

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B31

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF
COMMENTS
CLOTH SWATCH INCLUDED

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 20 - 25%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 20 - 25%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 55% - 60%
ACICULAR OPAQUES (MAGNETITE) 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B29 BUT CEILING PLASTER

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B32

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE

Asbestos present is 0%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: EJK

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 4th Floor, Tier 10, 10W1

DATE OF ASSESSMENT: 2/ 7 /86

SQUARE FEET 30 x 70

TOTAL OCCUPANTS 8

EPA SITE RANKING:
__ RANK 1
X RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-07-B33	65-70% C
-B34	70-75% C
-B35	70-75% C

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
X Fireproofing/insulation
__ Acoustical plaster
__ Other: _____

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
__ Not present
X Present but not damaged
__ Present and damaged

Activity and Movement
X None or low activity
__ Moderate activity
__ High activity

Damage or Deterioration
X No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
X Material not exposed
__ 10% or less exposed
__ >10% exposed

Air Plenum
X No plenum or direct airstream
__ Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
X Removal
X Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
X During planned alteration, or
__ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
X Special maintenance
X Special cleaning
X Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
X Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 02/13/96
Phone: 523-4209

** LOCATION **
4TH FLOOR TIER RM 10W1 BEHIND DESKS ON WALLS HORIZ. PIPE

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B33

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 65 - 70%
Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 5% - 10%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK
(b) (6) [redacted]
Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS 833

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B34

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 70 - 75%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 70 - 75%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Cresmer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B33

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B35

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 70 - 75%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 70 - 75%
(Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
VARIOUS OTHER MATERIALS
OPAQUES

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 4th Flr. - Men's Room lobby closet next to Room 410

DATE OF ASSESSMENT: 2/7 /86

SQUARE FEET Approx. 3 x 4 = 12 ft.^{2}

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
X Fireproofing/Insulation
__ Acoustical plaster
__ Other: _____

Water Damage
__ No water damage
__ Minor water damage
X Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
__ Not present
__ Present but not damaged
X Present and damaged

Activity and Movement
__ None or low activity
__ Moderate activity
X High activity

Damage or Deterioration
__ No damage or deterioration
__ Moderate damage or deterioration
X Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
__ 10% or less exposed
X >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-07-B36	NAD
-B37	5-10% C
-B38	20-25% C
-B39	NAD

SOURCES OF MATERIAL: B36 - Elbow vertical pipe. B37,38&39 - Vertical pipe.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
X Removal
X Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
X Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
X Special maintenance
X Special cleaning
X Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
X Monthly
__ Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
4TH FLOOR MEN'S RM LOBBY CLOSET NEXT TO RM 410 VERT. PIPE ELBOW MUD

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-E36

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is 0%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creeger
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 03/13/96
Phone: 523-4209

** LOCATION **
SAME AS B14 BUT VERT. PIPE INSUL.

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B37

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 5 - 10%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 5 - 10%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 85% - 90%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 3% - 5%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/13/86
Phone: 523-4207

** LOCATION **
SAME AS 237

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-P38

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 20 - 25%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 20 - 25%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 60% - 65%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
CARBONATES
ADHESIVE
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Cresner OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 03/12/96
Phone: 523-4209

** LOCATION **
SAME AS B37

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B39

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 90% - 95%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
ADHESIVE
VARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: EJK

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 4th Floor, Room 406 - Storage closet

DATE OF ASSESSMENT: 2/ 7/86

SQUARE FEET 4 x 8 = 32 ft.^{2}

TOTAL OCCUPANTS 5

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Ceiling plaster

Sample Number	Result
ARCHVS-02-07-B40	NAD

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/Insulation
__ Acoustical plaster
X Other: Ceiling Plaster

Water Damage
__ No water damage
__ Minor water damage
X Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
X Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
__ None or low activity
X Moderate activity
__ High activity

Damage or Deterioration
__ No damage or deterioration
__ Moderate damage or deterioration
X Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
__ 10% or less exposed
X >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
X Controls not needed
__ Other

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 03/13/96
Phone: 523-4269

** LOCATION **
4TH FLOOR RM PLASTER OF CEILING

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B40

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is 0%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

DATE OF ASSESSMENT: 2/7 /86

EPA SITE RANKING:
__ RANK 1
__ RANK 2
X RANK 3
__ RANK 4

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

SQUARE FEET Approx. 75 x 75 = 5,625 ft.^{2}

LOCATION IN BUILDING: 4th Flr., Tier 10 - 10E1 (Stack area) Rack 13 - 1615-1994

TOTAL OCCUPANTS 5

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
X Fireproofing/insulation
__ Acoustical plaster
__ Other: _____

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
__ Not present
X Present but not damaged
__ Present and damaged

Activity and Movement
X None or low activity
__ Moderate activity
__ High activity

Damage or Deterioration
X No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
X 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

Type of material sampled:

Insulation

Sample Number	Result
ARCHVS-02-07-B1	10-15% C
	5-10% Cr
-B2	20-25% C
	5-10% Cr
-B3	20-25% C
	10-15% Cr

SOURCE OF MATERIAL: B1,2&3 - Horizontal pipe.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
X Removal
X Encapsulation
X Enclosure
__ Abatement not needed

When Recommended
X During planned alteration, or
__ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
X Special maintenance
X Special cleaning
X Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
X Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY NIERO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 03/21/96
Phone: 523-4206

** LOCATION **
10TH TIER 10E-1 STACK 5M HOT H20 PIPE RACK 13 #1615-1994

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B1

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 20 - 25%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	10 - 15%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	5 - 10%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 75% - 80%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: CB

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY HIGGO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 02/21/86
Phone: 523-4209

** LOCATION **
SAME AS B1

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B2

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 70 - 75%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	20 - 25%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	5 - 10%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 65% - 70%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/21/86
Phone: 523-4209

** LOCATION **
SAME AS B1

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B3

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	20 - 25%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	10 - 15%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 60% - 65%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 4th Flr. - Tier 10 - Hallway pipechase behind small metal door.

DATE OF ASSESSMENT: 2/ 5/86

SQUARE FEET: 8 x 75

TOTAL OCCUPANTS: >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- X RANK 3
- __ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Air duct insulation

Sample Number	Result
ARCHVS-02-05-B10	1-3% C
-B11	1-3% C
-B12	>1 % C

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- X Not present
- __ Present but not damaged
- __ Present and damaged

Activity and Movement
- X None or low activity
- __ Moderate activity
- __ High activity

Damage or Deterioration
- X No damage or deterioration
- __ Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- X Material not exposed
- __ 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- X During planned alteration, or
- __ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- X Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
4TH FLOOR TIER 10 BEHIND SMALL METAL DOOR NEAR CEILING AIRDUCT INSUL.

Number of Analysis - 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B10

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 1 - 3%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 1 - 3%
Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
VARIOUS OTHER MATERIALS
CORK

Analyst: W. Creamer OMC Analyst: CB
(b) (6) [redacted]
Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B10

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B11

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 1 - 3%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 1 - 3%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
VARIOUS OTHER MATERIALS
CORK

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 03/05/96
Date Analyzed: 03/10/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
SAME AS B10

Number of Analyses = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -03-05-B12

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN

Asbestos present is less than 1%

MICROSCOPIC ANALYSIS: Total Percent < 1%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] < 1%
(Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 4th Floor - Tier 10 North hallway

DATE OF ASSESSMENT: 2/ 5/86

SQUARE FEET 8 x 75 = 600 ft.^{2}

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Ceiling plaster

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/insulation
__ Acoustical plaster
x Other: Ceiling plaster

Water Damage
x No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
x Accessible

Friability
__ Non-friable
x Friable

Pipe or Boiler Insulation
x Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
__ None or low activity
x Moderate activity
__ High activity

Damage or Deterioration
x No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
x Material not exposed
__ 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
x Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-05-B13	NAD
-B14	NAD
-B15	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

Comments
Requested by GSA

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
x Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: --

** LOCATION **
4TH FLOOR TIER 10 HALLWAY THROUGH DOUBLE DOORS TO RIGHT OF ELEVATOR

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B13

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony N. Creamer
(b) (6) [redacted]

OMC Analyst: CB

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/96
Date Analyzed: 02/10/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
SAME AS B17

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B14

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%
WOLLASTONITE < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 02/12/86
Phone: -

** LOCATION **
SAME AS B12

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B15

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	< 1%
WOLLASTONITE	< 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony K. Creamer OMC Analyst: CB

Lab Supervisor

ARCHVS- ___

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ASBESTOS ASSESSMENT FORM

BUILDING NAME: Archives

BUILDING ADDRESS: 7th and Pennsylvania Ave.

BUILDING NUMBER: DC0006ZZ North

LOCATION IN BUILDING: 4th floor - tier 10 hallway

DATE OF ASSESSMENT: 2/5/86

SQUARE FEET 8 X 75 = 600 ft²

TOTAL OCCUPANTS >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- __ RANK 4

NO RANK

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Ceiling plaster

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- __ Fireproofing/insulation
- __ Acoustical plaster
- ✓ Other: Ceiling plaster

Friability
- __ Non-friable
- ✓ Friable

Water Damage
- ✓ No water damage
- __ Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- ✓ Not present
- __ Present but not damaged
- __ Present and damaged

Accessibility
- __ Not accessible
- __ Rarely accessible
- ✓ Accessible

Activity and Movement
- __ None or low activity
- ✓ Moderate activity
- __ High activity

Damage or Deterioration
- ✓ No damage or deterioration
- __ Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- ✓ Material not exposed
- __ 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- ✓ Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-05-B13	NAD
ARCHVS-02-05-B14	NAD
ARCHVS-02-05-B15	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

a. Abatement Actions

Type of Action
- __ Removal
- __ Encapsulation
- __ Enclosure

When Recommended
- __ During planned alteration, or
- __ Abatement action needed sooner

Comments: requested by GSA

b. Precautionary Controls

Maintenance & Operation
- __ Special maintenance
- __ Special cleaning
- __ Special alteration & demolition
- ✓ Controls not needed
- __ Other ___

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- __ Annually

NAD = NO ASBESTOS DETECTED

Assessor: Cinalli / Ruchalski

Title: Industrial Hygienist

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 5th Flr. - Tier Room 12E1

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET Approx. 25 x 50 = 1250 ft.^{2}

TOTAL OCCUPANTS 2

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- X RANK 3
- __ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK MARK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Activity and Movement
- X None or low activity
- __ Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 10% or less exposed
- __ >10% exposed

Air Plenum
- X No plenum or direct airstream
- __ Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- X During planned alteration, or
- __ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Type of material sampled:

Insulation

Sample Number	Result
ARCHVS-02-10-B51*	1-3% C
-B52	20-25% C
-B53	60-65% C

SOURCE OF MATERIAL: B51 - Horizontal pipe. B52 - Same as B51. B53 - Elbow mud.

Comments

* Next to Rack 7

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
5TH FLOOR TIER RM TIER 2 12E1 ABOVE RACK 7 HORIZ. PIPE INSUL

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B51

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 1 - 3%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 1 - 3%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 85% - 90%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
CARBONATES
ADHESIVE
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B57

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B52

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF GRAY
COMMENTS
BEIGE CLOTH SWATCH INCLUDED

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 20 - 25%
Chrysotile [Mg3 Si2 O5 (OH)4] 20 - 25%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 50% - 55%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
ADHESIVE
OPAQUES
VARIOUS OTHER MATERIALS
COMMENTS
SAMPLE CONTAINS A SLIGHTER LIGHTER COLORED LAYER WHICH CONTAINS THE CHRYSOTILE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B51

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B53

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY
COMMENTS
BEIGE CLOTH SWATCH INCLUDED

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 60 - 65%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 5% - 10%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 5th Flr. - Pipe chase in Women's room across from auditorium

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET Approx. 15 x 20 = 300 ft.^{2}

TOTAL OCCUPANTS >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

Sample Number	Result
ARCHVS-02-10-B48	1-3% C
-B49	1-3% C
-B50	NAD

SOURCE OF MATERIAL: Vertical pipe behind metal door.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Activity and Movement
- __ None or low activity
- X Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- X During planned alteration, or
- __ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
5TH FLOOR PIPE CHASE IN WOMENS RM ACROSS FROM AUDITORIUM VERT. PIPE INSUL.

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B48

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 1 - 3%
Chrysotile [Mg3 Si2 O5 (OH)4] 1 - 3%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 75% - 80%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

COMMENTS
ANALYSIS WAS MADE FROM A SMALL AMOUNT OF DEBRIS IN THE BOTTOM OF THE VIAL. IT APPEARS THAT THE SAMPLE ITSELF WAS LOST.

Anthony W. Creamer OMC Analyst: EJK
(b) (6) [redacted]
Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B48

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B49

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 1 - 3%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 1 - 3%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 90% - 95%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
CARBONATES
ADHESIVE
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B48

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B50

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF GRAY

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 85% - 90%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
CARBONATES
ADHESIVE
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 5th floor - AHU room next to auditorium

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET Approx. 10 x 50 = 500 $ft.^2$

TOTAL OCCUPANTS 2

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
x RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
x Fireproofing/Insulation
__ Acoustical plaster
__ Other: _____

Water Damage
x No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
x Accessible

Friability
__ Non-friable
x Friable

Pipe or Boiler Insulation
__ Not present
__ Present but not damaged
x Present and damaged

Activity and Movement
__ None or low activity
__ Moderate activity
x High activity

Damage or Deterioration
__ No damage or deterioration
__ Moderate damage or deterioration
x Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
__ 10% or less exposed
x >10% exposed

Air Plenum
__ No plenum or direct airstream
x Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-10-B45	45-50% C
	10-15% A
-B46	45-50% C
	3-5 % A
-B47	65-70% C

SOURCES OF MATERIAL: B45&47 - Horizontal pipe. B46 - Elbow mud.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
x Removal
x Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
x Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
x Special maintenance
x Special cleaning
x Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
x Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
5TH FLOOR AHU FOR AUDITORIUM HORIZ. PIPE INSUL.

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B45

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	45 - 50%
Amosite	[$(Fe,Mg)_7 Si_8 O_{22} (OH)_2$]	10 - 15%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B45

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B46

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 50 - 55%

Chrysotile	[Mg3 Si2 O5 (OH)4]	45 - 50%
Amosite	[(Fe,Mg)7 Si8 O22 (OH)2]	3 - 5%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 45% - 50%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B45

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B47

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY WHITE
COMMENTS
PIECE OF CHEESE CLOTH INCLUDED

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 65 - 70%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
ADHESIVE
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 5th Auditorium

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET Approx. 50 x 1000 = 5000 ft.^{2}

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Ceiling tile

Sample Number	Result
ARCHVS-02-10-B42	NAD
-B43	NAD
-B44	NAD

SOURCE OF MATERIAL: Spare tile behind stage.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/Insulation
__ Acoustical plaster
X Other: Ceiling tile

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
X Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
X None or low activity
__ Moderate activity
__ High activity

Damage or Deterioration
X No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
__ 10% or less exposed
X >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
X Controls not needed
__ Other

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
5TH FLOOR AUDITORIUM CEILING TILES

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B42

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY BUFF
COMMENTS
WHITE PAINTED SURFACE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	35% - 40%
MINERAL WOOL	40% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
GLASS
FOAM
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B42

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B43

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF LIGHT GRAY
COMMENTS
WHITE PAINTED SURFACE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	40% - 45%
MINERAL WOOL	35% - 40%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
GLASS
FOAM
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B42

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B44

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF LIGHT GRAY

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	40% - 45%
MINERAL WOOL	35% - 40%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
FOAM
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 5th Floor - Tier 12 - Hallway air vent

DATE OF ASSESSMENT: 2/5/86

SQUARE FEET 8 x 75 = 600 ft.^{2}

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Air vent insulation

Sample Number	Result
ARCHVS-02-05-B16	90-95% C
-B17	90-95% C
-B18	90-95% C

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
X Fireproofing/insulation
__ Acoustical plaster
__ Other: _____

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
X Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
__ None or low activity
__ Moderate activity
X High activity

Damage or Deterioration
__ No damage or deterioration
X Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
__ 10% or less exposed
X >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
X Removal
X Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
X Special maintenance
X Special cleaning
X Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
X Monthly
__ Quarterly
__ Annually

Comments

This material is in a direct air-stream, it is possible it will be transported through the surrounding offices.

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/96
Date Analyzed: 02/10/96
Date Reported: 07/12/96
Phone: -

** LOCATION **
5TH FLOOR TIER 12 HALLWAY TO RIGHT OF ELEV. AFTER SINGLE DOOR INSUL.

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-D16

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present in greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 90 - 95%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 90 - 95%
Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB
(b) (6) [redacted]
Sec Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY HISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B16

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B17

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 90 - 95%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 90 - 95%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MIECO

Date Received: 02/05/96
Date Analyzed: 02/10/96
Date Reported: 02/12/96
Phone: -

** LOCATION **
ZONE 2S B16

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B16

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 90 - 95%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 90 - 95%
*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Author: K. Greer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 5th floor - Tier 12 - Hallway

DATE OF ASSESSMENT: 2/ 5/86

SQUARE FEET: 8 x 75 = 600 ft.^{2}

TOTAL OCCUPANTS: >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:

Ceiling plaster

Sample Number	Result
ARCHVS-02-05-B19	NAD
-B20	NAD
-B21	NAD

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/Insulation
__ Acoustical plaster
x Other: Ceiling plaster

Water Damage
x No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
x Accessible

Friability
__ Non-friable
x Friable

Pipe or Boiler Insulation
x Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
__ None or low activity
x Moderate activity
__ High activity

Damage or Deterioration
x No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
x Material not exposed
__ 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
x Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
x Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
5TH FL. TIER 12 HALLWAY TO RT. OF ELEVA. LFT. CORNER AFTER SINGLE DR.

Number of Analysis - 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B19

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present in 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

[redacted] OMC Analyst: CB

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Client: THE ARCHITECT BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 02/12/86
Phone: -

** LOCATION **
SAME AS B10

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B20

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Cressmer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 700 2ND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY HIRCO

Date Received: 03/05/96
Date Analyzed: 03/10/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
SAME AS SIP

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-P31

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 95% - 99%
CARBONATES
SILICATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony R. Cressmer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 13th Tier in SE stairwell outside 13E pipe chase

DATE OF ASSESSMENT: 2/11/86

SQUARE FEET 4 x 2

TOTAL OCCUPANTS 0

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- X RANK 3
- __ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- __ Not present
- X Present but not damaged
- __ Present and damaged

Activity and Movement
- X None or low activity
- __ Moderate activity
- __ High activity

Damage or Deterioration
- X No damage or deterioration
- __ Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- X Material not exposed
- __ 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-11-B28*	5-10% C
-B29	3-5% C
-B30	5-10% C

SOURCE OF MATERIAL: B28,29&30 - Vertical pipe in pipe chase

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- X During planned alteration, or
- __ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- X Annually

Comments

* Runs throughout the building.

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/11/86
Date Analyzed: 02/14/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B29

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B28

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 5 - 10%
Chrysotile [Mg3 Si2 O5 (OH)4] 5 - 10%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 75% - 80%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
CARBONATES
ADHESIVE
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB
(b) (6) [redacted]

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/11/86
Date Analyzed: 02/14/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
13TH TIER STAIRWELL PIPE CHASE OUTSIDE RM 13E-2 VERTICAL PIPE INSUL.

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B29

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 3 - 5%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 3 - 5%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 85% - 90%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
ADHESIVE
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/11/86
Date Analyzed: 02/14/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B29

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B30

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 5 - 10%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 5 - 10%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 75% - 80%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
CARBONATES
ADHESIVE
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ARCHVS-

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 6th floor - Tier 13 Hallway NE

DATE OF ASSESSMENT: 2/5/86

SQUARE FEET 4 x 75 = 300 ft.^{2}

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/Insulation
__ Acoustical plaster
X Other: Ceiling plaster

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
X Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
__ None or low activity
X Moderate activity
__ High activity

Damage or Deterioration
X No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
X Material not exposed
__ 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

Type of material sampled:

Ceiling plaster

Sample Number	Result
ARCHVS-02-05-B22	NAD
-B23	NAD
-B24	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
X Controls not needed
__ Other

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Comments
Samples requested by GSA

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MIECE

Date Received: 03/05/96
Date Analyzed: 03/10/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
SIXTH FLOOR FIES 13 N-S HALLWAY CEIMING PLASTER OUTSIDE RM 606

Number of Analysis = 51
Job I.D.: ASCHUS
Lab I.D.: ARCHUS -03-05-B22

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 95% - 99%
CARBONATES
SILICATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony M. Crescer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/96
Date Analyzed: 02/10/96
Date Reported: 02/12/96
Phone: -

** LOCATION **
SAME AS ABOV

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B23

GROSS SAMPLE APPEARANCE:
The sample is Heterogeneous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 94% - 99%
CARBONATES
SILICATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 02/12/86
Phone: -

** LOCATION **
SAME AS B22

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B24

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Cremer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 6th Floor - Tier 13 Room 13E

DATE OF ASSESSMENT: 2/5/86

SQUARE FEET 15 x 15 = 225 ft.^{2}

TOTAL OCCUPANTS 1

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/Insulation
__ Acoustical plaster
X Other: Ceiling tile

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
X Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
X None or low activity
__ Moderate activity
__ High activity

Damage or Deterioration
X No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
X Material not exposed
__ 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

Type of material sampled:

Ceiling plaster

Sample Number	Result
ARCHVS -02-05-B25	NAD
-B26	NAD
-B27	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
X Controls not needed
__ Other

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Comments

Samples requested

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
6TH FLOOR TIER 17 RM B-13 CEILING TILE ABOVE 1ST SET OF LIGHTS

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B25

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: BUFF AND WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 95% - 99%
CARBONATES
SILICATES
OPAQUES
VARIOUS OTHER MATERIALS

Author: W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MIECO

Date Received: 02/05/96
Date Analyzed: 02/10/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
SAME AS 925

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-924

GROSS SAMPLE APPEARANCE:
The sample is Heterogeneous Friable
Color: BUFF AND WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony E. Creamer

OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/96
Date Analyzed: 02/15/96
Date Reported: 07/15/96
Phone: -

** LOCATION **
SAME AS BOE

Number of Analysis - 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -01-05-B27

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE AND BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 94% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Pothen, K. Creamer DMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 6th floor - Tier 13 near exit to Rm. 13E

DATE OF ASSESSMENT: 2/5/86

SQUARE FEET 15 x 5 = 75 ft.^{2}

TOTAL OCCUPANTS 2

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/insulation
__ Acoustical plaster
X Other: Ceiling plaster

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
X Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
X None or low activity
__ Moderate activity
__ High activity

Damage or Deterioration
X No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
X Material not exposed
__ 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

Type of material sampled:

Ceiling plaster

Sample Number	Result
ARCHVS-02-05-B28	NAD
-B29	NAD
-B30	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
X Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Comments
Samples requested by GSA.

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
6TH FLOOR TIER 13 RM TO RIGHT OF 13E CEILING TILE ABOVE ENTRANCE

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B28

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE AND BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

[redacted] OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MIZCO

Date Received: 02/05/86
Date Analyzed: 03/10/86
Date Reported: 03/11/86
Phone: -

** LOCATION **
SAME AS P29

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-P29

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE AND BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 2%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/96
Date Analyzed: 02/10/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
SAME AS B38

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B30

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE AND BUFF

[illegible] present [illegible]

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

DATE OF ASSESSMENT: 2/ 5/86

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

SQUARE FEET 15 x 5 = 75 ft.^{2}

LOCATION IN BUILDING: 6th Floor, 13th Tier, Room to right of Rm. 13W

TOTAL OCCUPANTS 3

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Ceiling plaster

Sample Number	Result
ARCHVS-02-05-B31	NAD
-B32	NAD
-B33	NAD

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
__ Fireproofing/insulation
__ Acoustical plaster
X Other: _____

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
X Not present
__ Present but not damaged
__ Present and damaged

Activity and Movement
X None or low activity
__ Moderate activity
__ High activity

Damage or Deterioration
X No damage or deterioration
__ Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
X Material not exposed
__ 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
X Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 07/25/96
Date Analyzed: 02/10/96
Date Reported: 07/12/96
Phone: -

** LOCATION **
6TH FLOOR RM TO LEFT OF 17-W CEILING PLATER

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -07-05-E71

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON FIBROUS MATERIAL PRESENT Total Percent: 34% 99%
CARBONATES
FOAM
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MIECO

Date Received: 02/05/94
Date Analyzed: 02/10/94
Date Reported: 03/12/94
Phone: -

** LOCATION **
SAME AS ST1

Number of Analysis = 51
Job I.D.: ARCHVE
Lab I.D.: ARCHVS -02-05-ES2

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE AND BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Cremmer

OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/86
Date Analyzed: 02/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B31

Number of Analysis - 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B33

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 97% - 99%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony M. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 17th Tier - Stack 17E2

DATE OF ASSESSMENT: 2/11/86

SQUARE FEET 75 x 50

TOTAL OCCUPANTS 1

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Activity and Movement
- X None or low activity
- __ Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:

Sample Number	Result
ARCHVS-02-11-B31	70-75% C
-B32	20-25% C
	40-45% Cr
-B33	20-25% C
	35-40% Cr

SOURCE OF MATERIAL: B31,32&33 - Horizontal pipe between rooms R1&R2.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Comments

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/11/86
Date Analyzed: 02/14/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
17TH TIER STACK 17E2 HOR. PIPE INSUL. NEXT TO R1 +R2

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B31

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 70 - 75%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 70 - 75%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB
(b) (6) [redacted]
Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/11/86
Date Analyzed: 02/14/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B31 EXCEPT PIPE INSUL.

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B32

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	20 - 25%
Crocidolite	[$Na (Fe^{3})_2^{+} (Fe^{2})_3^{+} Si_8 O_{22} (OH)_2$]	40 - 45%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 10% - 15%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

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** LOCATION **
SAMKE AS B32

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B33

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%

Chrysotile	[Mg3 Si2 O5 (OH)4]	20 - 25%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 O22 (OH)2]	35 - 40%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 15% - 20%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 19th Tier - Stack area 19W1

DATE OF ASSESSMENT: 2/11/86

SQUARE FEET 50 x 25 = 1250

TOTAL OCCUPANTS 2

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-11-B37	15-20% C
-B38	35-40% C
-B39	70-75% C

SOURCE OF MATERIAL: B37,38&39 - Horizontal pipe along wall elbow

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
X Fireproofing/insulation
__ Acoustical plaster
__ Other: _____

Water Damage
X No water damage
__ Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
__ Not present
__ Present but not damaged
X Present and damaged

Activity and Movement
__ None or low activity
X Moderate activity
__ High activity

Damage or Deterioration
__ No damage or deterioration
X Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
X 10% or less exposed
__ >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
X Removal
X Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
X Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
X Special maintenance
X Special cleaning
X Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
X Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
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** LOCATION **
19TH TIER STACK RM 19W1 HORIZ. PIPES ALONG OUTSIDE WALL

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B37A

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: GRAY AND BUFF
COMMENTS
B37A, GRAY, 50%; B37B, BUFF, 50%

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 1 - 3%
Chrysotile [Mg3 Si2 O5 (OH)4] 1 - 3%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 75% - 80%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
ADHESIVE
VARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B37(A+B)=15-20% CHRYSOTILE

Anthony W. Creamer OMC Analyst: CB
(b) (6) [redacted]
Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
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Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
19TH TIER STACK RM 19W1 HORIZ. PIPES ALONG OUTSIDE WALL

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B37B

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: GRAY AND BUFF
COMMENTS
B37A, GRAY, 50%; B37B, BUFF, 50%

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 35 - 40%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 15% - 20%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 40% - 45%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B37 (A+B)=15-20% CHRYSOTILE

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
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WASHINGTON DC
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Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B37

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B38

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY, BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 35 - 40%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 25% - 30%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
VARIOUS OTHER MATERIALS
OPAQUES

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/11/86
Date Analyzed: 02/14/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B37 BUT ELBOW MUD

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B39

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 70 - 75%
Chrysotile [Mg3 Si2 O5 (OH)4] 70 - 75%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: 20th Tier - East side access via 19E3-Lockerrooms

DATE OF ASSESSMENT: 2/11/86

SQUARE FEET 75 x 50 = 3750

TOTAL OCCUPANTS 3

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:

Insulation

Sample Number	Result
ARCHVS-02-11-B34	45-50% C
-B35	25-30% A
-B36	30-35% A

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- X Present but not damaged
- __ Present and damaged

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- X Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Comments

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
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Phone: 523-4209

** LOCATION **
20 TIER AHU UNIT WEST

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B34

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 45 - 50%
Chrysotile [Mg3 Si2 O5 (OH)4] 45 - 50%
*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6)
[redacted]
Lab Supervisor

OMC Analyst: CB

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

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Phone: 523-4209

** LOCATION **
20TH TIER HORIZ. PIPE ELBOW MUD

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B35

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 25 - 30%
Amosite [(Fe,Mg)7 Si8 O22 (OH)2] 25 - 30%
*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 70% - 75%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
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Contact: JERRY MISCO

Date Received: 02/11/86
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Phone: 523-4209

** LOCATION **
SAME AS B35

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-11-B36

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 30 - 35%
Amosite [$(Fe,Mg)_7 Si_8 O_{22} (OH)_2$] 30 - 35%
*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 65% - 70%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Attic - AHU #8 Mixed air & Reheat 8A

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET 30 x 50

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
x RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
x Fireproofing/insulation
__ Acoustical plaster
__ Other: _____

Friability
__ Non-friable
x Friable

Damage or Deterioration
__ No damage or deterioration
__ Moderate damage or deterioration
x Severe damage or deterioration

Water Damage
__ No water damage
x Minor water damage
__ Major water damage

Pipe or Boiler Insulation
__ Not present
__ Present but not damaged
x Present and damaged

Exposed Surface Area
__ Material not exposed
__ 10% or less exposed
x >10% exposed

Accessibility
__ Not accessible
__ Rarely accessible
x Accessible

Activity and Movement
__ None or low activity
__ Moderate activity
x High activity

Air Plenum
__ No plenum or direct airstream
x Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
x Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
x Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
x Special maintenance
x Special cleaning
x Special alteration & demolition
__ Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
x Monthly
__ Quarterly
__ Annually

Assessor: Cinalli/Ruchalski

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-10-B28	45-50% C
-B29	70-75% C
-B30	70-75% C
-B31	25-30% C
	10-15% Cr
-B32	15-20% C
	45-50% Cr
-B33	25-30% C
	25-30% Cr
-B34	70-75% C

SOURCE OF MATERIAL: B28,29&30 - AHU cover of AHU. B31&32 - Horizontal pipe inside AHU. B33 - Horizontal pipe inside. B34 - Elbow mud.

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

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Phone: 523-4209

** LOCATION **
21ST TIER ATTIC AHU #8 OUTSIDE INSUL. NEXT TO WHERE NEM WERE WORKING

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B28

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GREEN GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 45 - 50%
Chrysotile [Mg3 Si2 O5 (OH)4] 45 - 50%
*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
VARIOUS OTHER MATERIALS
CORK

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: CB

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

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** LOCATION **
SAME AS B28

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B29

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 70 - 75%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 70 - 75%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS
CORK

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B28

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B30

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 70 - 75%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 70 - 75%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS
CORK

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
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Date Received: 02/10/86
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Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B28 BUT HORIZ. PIPE INSUL. FROM INSIDE THE AHU

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B31

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 40 - 45%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	25 - 30%
Crocidolite	[$Na (Fe^{3+})_2 (Fe^{2+})_3 Si_8 O_{22} (OH)_2$]	10 - 15%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 55% - 60%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

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** LOCATION **
SAME AS B31

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B32

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	15 - 20%
Crocidolite	[$Na (Fe^{3+})_2 (Fe^{2+})_3 Si_8 O_{22} (OH)_2$]	45 - 50%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
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Contact: JERRY MISCO

Date Received: 02/10/86
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** LOCATION **
SAME AS B28 BUT HORIZ. PIPE OUTSIDE UNIT

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B33

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 55 - 60%

Chrysotile	[Mg3 Si2 O5 (OH)4]	25 - 30%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 O22 (OH)2]	25 - 30%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 40% - 45%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B33 BUT ELBOW MUD

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B34

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 70 - 75%
Chrysotile [Mg3 Si2 O5 (OH)4] 70 - 75%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Attic - Inside return air duct for AHU #8

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET 40 x 30 = 1200

TOTAL OCCUPANTS >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Water Damage
- __ No water damage
- __ Minor water damage
- X Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-10-B35	60-65% C
-B36	30-35% C
	30-35% Cr
-B37	30-35% C
	30-35% Cr
-B38	35-40% A

SOURCE OF MATERIAL: B35 - Horizontal pipe elbow mud.
B36 - Horizontal pipe. B37 - Loose on floor. B38 - Same as B36.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Comments

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
RETURN AIR SUPPLY DUCT TO AHU 8A, INSIDE HORIZ. PIPE ELBOW MUD

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B35A

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BROWN AND GRAY
COMMENTS
B35A, BROWN 50% OF SAMPLE; B35B, GRAY, 50% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 75 - 80%
Chrysotile [Mg3 Si2 O5 (OH)4] 75 - 80%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
ADHESIVE
TAR
OPAQUES
VARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B35 (A+B)=60-65% CHRYSOTILE

Anthony W. Creamer OMC Analyst: CB
(b) (6) [redacted]
Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
RETURN AIR SUPPLY DUCT TO AHU 8A, INSIDE HORIZ. PIPE ELBOW MUD

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B35B

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BROWN AND GRAY
COMMENTS
B35A, BROWN, 50% OF SAMPLE; B35B, GRAY, 50% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 45 - 50%
Chrysotile [Mg3 Si2 O5 (OH)4] 45 - 50%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 45% - 50%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B35(A+B)=60-65% CHRYSOTILE

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B35 HORIZ. PIPE INSUL.

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B36

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	30 - 35%
Crocidolite	[$Na (Fe^{3})_2 (Fe^{2})_3 Si_8 O_{22} (OH)_2$]	30 - 35%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B36 BUT INSUL. IN LAYING IN CLUMPS ON FLOOR

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B37

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	30 - 35%
Crocidolite	[$Na (Fe^{3})^{2+} (Fe^{2})^{3+} Si_8 O_{22} (OH)_2$]	30 - 35%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B35 BUT DIFF. HOR. PIPE (YELLOW ONE NEAR FRONT OF INTAKE

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B38

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%
Amosite [$(Fe,Mg)_7 Si_8 O_{22} (OH)_2$] 35 - 40%
*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 60% - 65%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Attic - AHU #9

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET 20 x 30 = 600

TOTAL OCCUPANTS >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- x RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

Sample Number	Result
ARCHVS-02-10-B39	65-70% C
-B40	65-70% C
-B41	75-80% C

SOURCE OF MATERIAL: B39&40 - AHU #9 outside insulation.
B41 - Horizontal pipe next to AHU #9.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- x Fireproofing/insulation
- __ Acoustical plaster
- __ Other: ____

Water Damage
- x No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- x Accessible

Friability
- __ Non-friable
- x Friable

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- x Present and damaged

Activity and Movement
- __ None or low activity
- __ Moderate activity
- x High activity

Damage or Deterioration
- __ No damage or deterioration
- x Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- x 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- x Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- x Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- x Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- x Special maintenance
- x Special cleaning
- x Special alteration & demolition
- __ Controls not needed
- __ Other ____

Visual Inspection and Air Monitoring
- __ Monthly
- x Quarterly
- __ Annually

Comments

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
ATTIC AHU #9 INSUL. FROM UNIT ITSELF

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B39

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%
Chrysotile [Mg3 Si2 O5 (OH)4] 65 - 70%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB
(b) (6) [redacted]
Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B39

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B40

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%
Chrysotile [Mg3 Si2 O5 (OH)4] 65 - 70%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B39 BUT HORIZ. PIPE INSUL. FROM FLOOR LEVEL NEXT TO WALL

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B41

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 75 - 80%
Chrysotile [Mg3 Si2 O5 (OH)4] 75 - 80%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCT 17 1996

FILE COPY

MEMORANDUM FOR KENT HOWARD
PROJECT MANAGEMENT BRANCH (WPCOG)

FROM: TIMOTHY SLEETH (b) (6) [redacted]
SAFETY AND ENVIRONMENT BRANCH (WPMOX)

SUBJECT: SAFETY AND ENVIRONMENT REVIEW COMMENTS

PROJECT TITLE: POST-AWARD ASBESTOS ABATEMENT SUBMITTAL
GS-11P96MKC0010
ELECTRICAL SYSTEMS UPGRADE
NATIONAL ARCHIVES BUILDING
7TH AND PENNSYLVANIA AVENUE, N.W.
WASHINGTON, D.C.

The October 9, 1996 Post-Award Asbestos Abatement submittal from Wm. D. Euille & Assoc., Inc., for Wayne Insulation Company, Inc., has been reviewed and found to be insufficient for approval as noted:

[1] Submit a plan showing the location and layout of the containment and decontamination areas.

[2] Submit the Certificates of Compliance for the personal respirators that will be used.

If you have any questions, please contact me at (202) 708-5236.

Reviewed by:_____ Date_____
Mark Serio, Industrial Hygienist

cc: Official, Facility, WPMOX
Subject File: DC0006ZZ
Serio: 10/17/96
ARCHELCT.DOC.97-21

Author: (b) (6) [redacted] Date 10-17-96
Mark Serio, Industrial Hygienist

FILE COPY

MEMORANDUM FOR KENT HOWARD
PROJECT MANAGEMENT BRANCH (WPCOG)

FROM: TIMOTHY SLEETH (b) (6) [redacted]
SAFETY AND ENVIRONMENT BRANCH (WPMOX)

SUBJECT: SAFETY AND ENVIRONMENT REVIEW COMMENTS

PROJECT TITLE: POST-AWARD ASBESTOS ABATEMENT RESUBMITTAL
GS-11P96MKC0010
ELECTRICAL SYSTEMS UPGRADE
NATIONAL ARCHIVES BUILDING
7TH AND PENNSYLVANIA AVENUE, N.W.
WASHINGTON, D.C.

The October 22, 1996 Post-Award Asbestos Abatement Resubmittal from Wm. D. Euille & Assoc., Inc., for Wayne Insulation Company, Inc., has been reviewed and found to be sufficient for approval at this time.

If you have any questions, please contact me at (202) 708-5236.

Reviewed by:_____Date_____
George Abi-Nader, Industrial Hygienist

cc: Official, Facility, WPMOX
Subject File: DC0006ZZ
Abi-Nader: 10/30/96
ARCELCT.DOC.97-50

Author:_____Date_____
George Abi-Nader, Industrial Hygienist

DC00062

5

MEMORANDUM FOR DAVID LINGRELL
CHIEF, PROJECT OPERATION BRANCH (WPCO)

ATTN: RICHARD JUDSON
MANAGER, NORTH CONSTRUCTION DISTRICT (NPCCM)

FROM: FREDERICK J. SISSON FRED J. SISSON
CHIEF, ENVIRONMENTAL MANAGEMENT BRANCH (WPXP)

SUBJECT: ASBESTOS ABATEMENT MONITORING, NATIONAL ARCHIVES

The purpose of this memorandum is to formally transmit the results of the air sampling performed by SaLut, Inc. on October 1 to October 5, 1990 during the asbestos abatement project that was being conducted in the southeast part of the sub-basement.

The samples were collected and analyzed using NIOSH Method 7400. The analysis was performed by using Phase Contrast Microscopy (PCM). Only five (5) of the samples warranted additional consideration by means of transmission electron microscopy (TEM). The data on those samples is as follows:

SAMPLE ID	STRUCTURES/mm2	STRUCTURES/ml
41-37-10-1-3	125.8	.1353
41-37-10-1-6	195.5	.1945
41-37-10-1-7	NONE DETECTED	NONE DETECTED
41-37-10-2-7	365.5	.1405
41-37-10-3-7	44.8	.0936

The first two days of the project, there was an apparent problem with the negative air flow for the containment area. This was corrected on October 3, 1990, by dividing the containment area into two smaller containment areas with their own negative air systems. This is reflected by the layout draws and the sample results which indicate the change. Sample number 41-37-10-3-7 which was collected on October 3, 1990 and incorporated into SaLut's October 12, 1990 report initially appeared to be questionable. However, after the TEM results were received in Salut's report of February 6, 1991 the structures per square millimeter (s/mm2) was only 44.8 s/mm2. Readings are considered acceptable whenever levels are less than 70 s/mm2.

The results of final visual inspection on clearance air tests were satisfactory. If you have any further questions regarding this matter please contact Mr. Mike Baker on (202)708-5256.

ATTACHMENT

cc:
Official, Reading, Facility
<MIKE>MEM.NATIONAL.ARCHIVES-(91-0580)
WPXR:MBAKER:2/28/91

Author _____ Date _____
Mike Baker

Concur: _____ Date _____
Marian S. Nockolls

DC000622

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

March 6, 1990

GSA National Capital Region
Safety & Environmental Management Division (WPX)
7th & D Streets, S.W., Room 2034
Washington, D.C. 20407

Attn: Ms. Normajean Eleazer

Re: National Archives Ladies Locker Room
Washington, D.C.
SaLUT #SL89-41-15
Act # P71916754

Dear MS. Eleazer:

In response to Order Number P1190DC9183, SaLUT, Inc. monitored asbestos abatement activities at the above-referenced project on February 28, 1990.

Our services included providing hygiene services, including collection of background area samples, monitoring abatement and analyzing air samples, and a final inspection and clearance. All air samples were collected and analyzed in accordance with NIOSH Method 7400. All daily activities along with air sample results and final inspection reports are documented in the attached daily field reports.

We appreciate the opportunity to provide these services. If you have any questions or need additional information, please contact us.

Very truly yours,

(b) (6)
[redacted]

Todd M. Woerner
Project Manager

TLT:381

SaLUT

DAILY INSPECTION

SaLUT

Project: National Archives, Women's Locker Room

Job No.: SL-89-41-15

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-15-2-2-8-1	BG	136	1360	WEST SIDE OF LOCKER ROOM	<0.01
41-15-2-2-8-2	BG	136	1360	EAST SIDE OF LOCKER ROOM	<0.01
41-15-2-2-8-3	EV	88	352	ON SUB-BASEMENT LEVEL STAIRWELL NEAR WA	<0.01
41-15-2-2-8-4	EV	81	324	IN HALLWAY ABOVE WA	<0.01
41-15-2-2-8-5	WA	96	336	MIDDLE OF WORK AREA	<0.01
41-15-2-2-8-6	EV	97	388	BESIDE WORK AREA ENTRANCE TO LADIES LOCKER ROOM	<0.01 <0.01
41-15-2-2-8-7	EV	95	380	ON BASEMENT LEVEL STAIRWELL NEAR WORK AREA	<0.01
41-15-2-2-8-9	FB				0/100
41-15-2-2-8-10	FB				1/100
41-15-2-2-8-11	FC	196	1960	EAST SIDE OF WORK AREA	<0.01
41-15-2-2-8-12	FC	196	1960	N.E SIDE OF WORK AREA	<0.01

BG - BACKGROUND
EV - ENVIRONMENTAL
WA - WORK AREA
FC - FINAL CLEARANCE
PS - PERSONAL
FB - FIELD BLANK

(b) (6) [redacted]

Analyst

TLT:381

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives, women's locker room
Client: GSA
Job No: SL-89-41-15
Date: 02-28-90 Time on-site: 1800 to 0630
Name: Randy Gordon
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-15-022801	BG	10 / 2158	10 / 0014	136	1360	West side of Locker room	4/100	< 0.01	SH-25
41-15-022802	BG	10 / 2158	10 / 0014	136	1360	East side of Locker room	4/100	<0.01	SH-18
41-15-022803	EV	4 / 0120	4 / 0248	88	352	on Sub-basement level stairwell near WA	½/100	<0.01	SL-7
41-15-022804	EV	4 / 0131	4 / 0252	81	324	in hallway above WA	0/100	<0.01	SL-20
41-15-022805	WA	3.5 / 0105	3.5 / 0241	96	336	middle of work area	½/100	<0.01	SL-5*
41-15-022806	EV	4 / 0110	4 / 0247	97	388	beside WA entrance to Ladies' locker Room	0/100	<0.01	SL-18
41-15-022807	EV	4 / 0110	4 / 0245	95	380	on basement level stairwell near WA	2½/100	<0.01	SL-2
41-15-022808	EV	10 / 0137	10 / 0250	73	730	on stairwell near work area entrance	0/100	<0.01	SH-25
41-15-022809	FB	– / –	– / –	–	–	–	0/100	–	–
41-15-022810	FB	– / –	– / –	–	–	–	0/100	–	–
41-15-022811	FC	10 / 0313	10 / 0629	196	1960	East side of work area	1/100	<0.01	SH-18
41-15-022812	FC	10 / 0313	10 / 0629	196	1960	N.E. side of work area	0/100	<0.01	SH-7

COMMENTS: All pumps were calibrated before and after use with rotometers SR-7 or SR-9.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

1800: I arrived on site and met Tim Edward, the mechanical inspector for the National Archives. Mr. Edwards introduced me to the work area in the Ladies' Locker room located at the landing between the basement and sub-basement stairway.

2000: Mr. Edward called Marcor, the removal contractors, office to remind them of the floor tile removal to be done today. The job will be cancelled if Marcor is not on site by 2030.

2200: Tim and I are returning from another site which Marcor is working at with three workers and equipment for floor tile removal. The area (~280' x 8' high) is being prepared with polyethylene on the walls and over all openings into the work area.

0000: The area is nearly ready for floor tile removal of the remaining 2/3 of the ACM tiles (9x9 gray). Some of the material was removed on a previous day without containment.

0100 ~~0001~~: Removal of the floor tile has begun by Marcor. Scrapers are being used. According to the analysis of a tile sample, the tile is 2-5% cry. and the mastic is negative. Based on that analysis some of the mastic will be left behind after removal.

0200 ~~0002~~: Removal is continuing.

(Continued; Pg 2 of 2)

(b) (6) [redacted]
Salut Asbestos Technician

02-28-90
Date

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

0300 0003: Removal has been completed. I am inspecting the area. The area will be wiped down and all loose material will be collected as waste along with an additional amount of mastic.

0310: The floor has been wiped down and encapsulant is being sprayed on the floor surface and perimeter barriers from a 'Hudson' type sprayer. The microtrap is still in operation at ~2000 cfm. The area should be experiencing over one air change every two minutes.

0313: Final air samples are being deployed. Only two samples can be run since there are no electrical outlet on this floor and the extension cords being used can only afford outlets for two pumps and the negative air unit.

0630: The final air samples are being analyzed. The working samples and prelims all show a concentration of less than 0.01 fibers per cm³.

0635: The samples have passed and the containment is being dismantled. Five bags of waste are being stored in the sub-basement under a plastic sheeting to be removed by Marcor after 1400 hrs on 03-01-90.

(b) (6) [redacted]
Salut Asbestos Technician

02-28-90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: Ladies Locker room

Location: _____ Date: 02-28-90

Removal Contractor: Marcor Time Started: 0100

Monitoring Contractor: Salut Time Stopped: 0242

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ.	NA	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"		① undetermined
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	NA	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	NA	(2)
	b. Soap and Towels?	NA	
	c. Used Each Departure?	NA	
6. Work Habits In Work Area	a. No Smoking		
	b. No Eating/Drinking		

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

(1) the negative pressure was not measured quantitatively but was evident qualitatively

(2) double suits were used.

Report Prepared By: (b) (6) [redacted] Date: 02-28-96

SaLUT

FINAL INSPECTION

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Project: Ladies Locker room

Location: _____ Date: 02-28-90

Removal Contractor: Mercer Time Inspected: 0300-0310

Monitoring Contractor: Salut Time Completed: 0313

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes *	
	h. Registers	yes *	
	i. Lights.	yes	

* were sealed outside of perimeter barriers

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-15-022811	41-15-022812			
Location:	E. gwA	N.E. gwA			
Volume (Liters):	1960	1960			
Flow rate: (Liters/Minute)	10.0	10.0			
Fibers/Filter:	1/100	0/100			
Fibers/Cubic Cm:	<0.01	<0.01			

ANALYST ANALYZING SAMPLES: Fondy Gordon DATE: 02-28-90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 02-28-90

REPORT REVIEWED BY: [redacted] DATE:

DC000622

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

June 11, 1990

RECEIVED
GSA-NCR
SAFETY & ENVIRONMENTAL
MANAGEMENT DIV. (WPX)
JUN 15 3 26 PM '90

GSA National Capital Region
Safety & Environmental Management Division (WPX)
7th & D Streets, S.W., Room 2034
Washington, D.C. 20407

Attn: Ms. Normajean Eleazer

Re: National Archives Sub-Basement Southeast & Room 503
Washington, D.C.
SaLUT # SL89-41-26
ACT # 72093430

Dear Ms. Eleazer:

In response to Order Number P91190DC9049, SaLUT, Inc. monitored asbestos abatement activities at the above-referenced project from May 4, 1990 to June 7, 1990.

Our services included providing hygiene services, including collection of background area samples, monitoring abatement and analyzing air samples, and a final inspection and clearance. All air samples were collected and analyzed in accordance with NIOSH Method 7400. All daily activities along with air sample results and final inspection reports are documented in the attached daily field reports.

We appreciate the opportunity to provide these services. If you have any questions or need additional information, please contact us.

Very truly yours,

(b) (6) [redacted]

Todd M. Woerner,
Project Manager

TMW/tlt/614

SaLUT

Project: NATIONAL ARCHIVES; SE SUB-BASEMENT

Job No.: SL90-41-26

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-26-5-31-1	BG	105	420	SOUTH CONTAINMENT	.01
41-26-5-31-3	BG	105	420	WEST CONTAINMENT	.02
41-26-5-31-4	BG	105	420	EAST CONTAINMENT	.01
41-26-5-31-5	FB				1/100
41-26-5-31-6	FB				2/100
41-26-6-1-1	FB				0/100
41-26-6-1-2	FB				0/100
41-26-6-1-3	EV	240	960	NEAR MANOMETER	.003
41-26-6-1-4	EV	240	1008	OUTSIDE IN WORKERS AREA	.002
41-26-6-1-5	EV	240	1008	CLEAN ROOM	.007
41-26-6-1-6	WA	95	247	MIDDLE CONTAINMENT IN WA	OVERLOAD
41-26-6-1-7	EV	130	1300	NEAR DOOR TO DECON	.002
41-26-6-1-8	WA	100	260	MIDDLE OF CONTAINMENT	.05
41-26-6-4-1	FB				0/100
41-26-6-4-2	FB				0/100
41-26-6-4-3	EV	270	1080	OUTSIDE CLEAN ROOM	.005
41-26-6-4-4	WA	95	237.5	MIDDLE AREA OF CONTAINMENT	.04
41-26-6-4-6	EV	240	960	CLEAN ROOM OF DECON	.005
41-26-6-4-7	EV	240	960	WORKER BREAK AREA	.004
41-26-6-4-8	WA	120	300	MIDDLE OF CONTAINMENT	.01
41-26-6-6-1	FB				0/100
41-26-6-6-2	FB				0/100
41-26-6-6-3	WA	120	300	MIDDLE OF CONTAINMENT	.01
41-26-6-6-4	EV	240	960	BREAK AREA	.004
41-26-6-6-5	EV	240	960	IN CLEAN ROOM	.006
41-26-6-6-6	EV	240	960	NEAR MANOMETER	.004
41-26-6-6-7	EV	240	960	OUTSIDE DECON	.003

SaLUT

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-26-6-7-1	FC	196	1960	CONTAINMENT (-1) AIR	<.01
41-26-6-7-2	FC	196	1960	NORTH END	<.01
41-26-6-7-3	FC	196	1960	EAST END	<.01
41-26-6-7-4	FB				1/100
41-26-6-7-5	FB				1/100
41-26-6-7-6	WA/FC	95	475	GLOVE BAG IN AIR HANDLER	.035
41-26-6-7-7	WA/FC	95	475	GLOVE BAG IN AIR HANDLER	<.01

BG - BACKGROUND
EV - ENVIRONMENTAL
WA - WORK AREA
FC - FINAL CLEARANCE
PS - PERSONAL
FB - FIELD BLANK

Analyst

TLT:614

SaLUT

Initial Inspection

SE Sub-Basement

EXHIBIT A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: National Archives Project: _____

Location: 800 Pennsylvania Ave Date: 5/31/90

Removal Contractor: Marcox Time Inspected: 18:30-19:15

Monitoring Contractor: Salt Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	on site Not yet.	
	f. Negative pressure > .02"	—	
2. Signage	a. Caution Signs at vestibule entry.	Not yet	
	b. OSHA SIGN (ASBESTOS)	✓	~~None~~
	c. Dumpster, ducts, drums, and bags labelled		

Joyce Hix Saint I. H.

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	on site	
	e. Material Kept Wetted Until Bagged.	N/A	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators. TC-21C-496	Disp ___ HEPA ___ PAPR ✓ MSA TYP"C" ___	
	c. Proper Decontamination Sequence Followed	N/A	
5. Showers	a. Functioning?	Not set up	
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking		
	b. No Eating/Drinking		

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: (b) (6) [redacted] Date: 5/31/90

SaLUT Soil and Land Use Technology, Inc.
302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: NATIONAL ARCHIVES; SE SUB-BASEMENT
Client: GSA
Job No: SL90-41-26
Date: 5/31/90 Time on-site: 6:00 to 2:45
Name: JOYCE HIX
Analyzed On-site: yes Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-26-5-31-5	FB	—	—	—	—	—	1/100	—	BLANK
41-26-5-31-6	FB	—	—	—	—	—	2/100	—	BLANK
41-26-5-31-1	BG	4/6:15	4/8:00	105	420	SOUTH CONTAINMENT	8/100	.01	SL6
41-26-5-31 2	BG	4/6:15	—	—	—	VOID-	—	—	SL7
41-26-5-31 3	BG	4/6:15	4/8:00	105	420	WEST CONTAINMENT	14/100	.02	SL13
41-26-5-31 4	BG	4/6:15	4/8:00	105	420	EAST CONTAINMENT	5.5/100	.01	SL17

COMMENTS: Pumps were calibrated by rotameter # SR4

Key: BG - Background WA - Work Area PS - Personal
EV - Environmental FC - Final Clearance FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

0600 ARRIVED ON MET WITH TIM EDWARDS FROM NATL ARCH. & LOOKED AT AREA TO BE ABATED

0630 DR BANKS, FROM DMB, INC ARRIVED. A THOROUGH WALK THROUGH WAS COMPLETED. A CORK DUCT COVERING STILL NEEDS TO BE COVERED BEFORE REMOVAL BEGINS AND SEVERAL PENETRATIONS IN THE WALLS.

0700 DISCUSSED ABATEMENT PLAN WITH KIN FROM MARCOR. THEY HAVE 6 WORKERS & 1 FORMAN.

0800 WORKERS CONTINUE PRECLEANING & SEALING DUCT WITH CORK ON IT.

830 - 900 BREAK.

900 CONTINUE.

11:00 - 12 Break

12:00 Inspected area cleaned so far. Shower had been installed & the majority of the debris on the floor had been removed. Workers were starting to put poly on the cork duct area.

1:00 Left the site for the evening as workers continued to finish cleaning.

(b) (6) [redacted]

SaLUT Industrial Hygientist

5/31/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: NATIONAL ARCHIVES Project: SL90-41-26

Location: SE SUB-BASEMENT Date: 5/31/90

Removal Contractor: MARCOR Time Inspected: _____

Monitoring Contractor: SaLUT Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"		manometer not able to reach area yet
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA X PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	X	
	b. Soap and Towels?		
	c. Used Each Departure?	X	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Manometer cord was too far from containment at this time. Will bring another one tomorrow 6/1/90.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: (b) (6) [redacted] Date: 5/31/90

SaLUT

Daily Inspection

S.E. Sub-Basement

SaLUT
Soil and Land Use Technology, Inc.
302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: NATIONAL ARCHIVES SE SUB BASEMENT
Job No: SL90-41-26
Name: TODD WOERNER

Client: GSA
Date: 6/1/90 Time on-site: 4:00 to 12:30
Analyzed On-site: X Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-25-61-1	FB	—	—	—	—	—		—	BLANK
41-25-61-2	FB	—	—	—	—	—		—	BLANK
41-25-61-3	EV	4.0/7:45	4.0/11:45	240	960	NEAR MANOMETER	5/100	.003	SL-13
41-25-61-4	EV	4.2/7:50	4.2/11:50	240	1008	OUTSIDE IN WORKER'S BREAK AREA	4.5/100	.002	SL-17
41-25-61-5	EV	4.2/7:40	4.2/11:40	240	1008	CLEAN ROOM	14.5/100	.007	SL-6
41-25-61-6	WA	2.6/7:25	2.6/9:00	95	247	MIDDLE OF CONTAINMENT IN WORK AREA	OVER LOAD		SL-15
41-25-61-7	EV	10/7:30	10/9:40	130	1300	NEAR DOOR TO DECON. OUTSIDE CONTAINMENT	5.5/100	.002	SH15
41-25-61-8	WA	2.6/9:05	2.6/10:45	100	260	MIDDLE OF CONTAINMENT	25/100	.05	SL-15

COMMENTS: Pumps calibrated by Rotometer SR22 & SR23

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:00 ARRIVED ON SITE.

INSPECTED CONTAINMENT PREPARATION FROM LAST NIGHT. FOUND THAT (-) AIR MACHINE EXHAUST TUBING HAD BROKEN LOOSE DURING THE NIGHT. NO REMOVAL HAS BEEN DONE AT THIS POINT. THE AREA WAS PRE-CLEANED THE NIGHT BEFORE. (-) AIR HAS NOT YET BEEN ESTABISHED.

4:30 WORKER FROM MARCOR ENTER CONTAINMENT TO REPAIR (-) AIR EXHAUST AND MAKE FINAL PREPARATION FOR THE INITIAL INSPECTION.

6:30-7 Break.

7:00 (-) air was established, so workers began abatement

9:00 Entered Containment to change cassettes. Discovered water on floor which was coming out of a pipe in the far corner. Notified maintenance, Larry Pickeral, who shut off what he thought was the right water pipe. Workers took their break at this time until from 9:30 to 10:30. Buckets were put under pipe leak until we can be sure it's off.

10:30 Foreman (Ken) entered Containment

SaLUT Industrial Hygientist

Date

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

and informed me that the leak had been shut off. Workers re-entered containment to resume abatement & clean water off the floor.

11:00 I entered Containment to remove pump & inspect area. Found they weren't spraying water & hadn't turned it on again. Informed foreman & he turned it on

12:00 Checked Containment as workers began to clean up. Majority of removal has been done, but advised them to clean more water off of floor.

2:30 Everyone out of Containment for weekend. Manometer still below -.02

(b) (6) [redacted]

SaLUT Industrial Hygienist

6-1-90

Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES Project: SL90-41-25

Location: SE SUB BASEMENT Date: 6/1/90

Removal Contractor: MARCOR Time Started: 4:00

Monitoring Contractor: SaLUT Time Stopped: 12:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	Z	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	YES	
	b. OSHA SIGN (ASBESTOS)	YES	
	c. Dumpster, ducts, drums, and bags labelled	YES	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	YES	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	YES (2)	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	YES	
	b. Proper NIOSH respirators.	Disp ___ HEPA X PAPR X TYP"C" ___	
	c. Proper Decontamination Sequence Followed		
5. Showers	a. Functioning?		X
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Workers couldn't find a shower head for hose in shower. Made sure each one used the hose from containment to use in shower room.

Report Prepared By: (b) (6) [redacted] Date: 6/1/90

SaLUT Soil and Land Use Technology, Inc.
02 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: NATIONAL ARCHIVES; SE SUB-BASEMENT
Job No: SL90-41-26
Name: JOYCE HIX

Client: GSA
Date: 6/4/90 Time on-site: 3:45 to 1:00
Analyzed On-site: X Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-26-6-4-1	FB	—	—	—	—	—	—	—	BLANK
41-26-6-4-2	FB	—	—	—	—	—	—	—	BLANK
41-26-6-4-3	EV	4/5:30	4/10:00	270	1080	JUST OUTSIDE OF CLEAN ROOM	11/100	.005	SH15
41-26-6-4-4	WA	2.5/5:55	2.5/7:30	95	237.5	MIDDLE AREA OF CONTAINMENT	19.5/100	.04	SL6
41-26-6-4-5	EV	4/7:30				NEAR MANOMETER	*VOID	—	SL3
41-26-6-4-6	EV	4/7:30	4/11:30	240	960	CLEAN ROOM OF DECON.	10/100	.005	SL8
41-26-6-4-7	EV	4/7:30	4/11:30	240	960	WORKER BREAK AREA	7.5/100	.004	SL21
41-26-6-4-8	WA	2.5/10:00	2.5/12:00	120	300	MIDDLE OF CONTAINMENT	9.5/100	.01	SL30

COMMENTS: Pumps were calibrated using Rotometer #SR23

* Pump fell & shut off

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:00 Arrived on site at the National Archives
5:00 2 workers & 1 foreman enter containment & start abatement
6:30 Three more workers arrive.
6:45 Break
7:15 Resume abatement
9:00 Workers start to bring out bags into storage area & prepare to clean containment. Removal of asbestos has ceased & should be completed according to Ken, the foreman. Met with Jim Edwards, V.A. Mechanical Inspector & Jerry Misko, Chief of facilities manager. Discussed progress of abatement crew.
12:00 Checked containment as crew cleaned. Probably one good night of cleaning left before final inspection.
1:00 Left site

(b) (6) [redacted]

SaLUT Industrial Hygientist

6/14/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES Project: SL 90-41-26

Location: SE SUB-BASEMENT Date: 6-4-90

Removal Contractor: MARCOR Time Started: 4:00

Monitoring Contractor: SaLUT Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____ HEPA X PAPR ____ TYP"C" ____	
	c. Proper Decontamination Sequence Followed		
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 6/4/90

SaLUT Soil and Land Use Technology, Inc.

uth Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

ject: NATIONAL ARCHIVES; SE SUB-BASEMENT

No: SL90-41-26

e: Joyce Hix

Client: GSA

Date: 6/5/90 Time on-site: 5:30 to 1:00

Analyzed On-site: X Laboratory:

mple ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
26-6-5-1	FB	—	—	—	—	—		—	BLANK
-26-6-5-2	FB	—	—	—	—	—		—	BLANK
-26-6-5-3	WA	2.6/7:00	2.6/9:30	270	702	MIDDLE OF CONTAINMENT	13.5/100	.009	SL6
-26-6-5-4	EV	4/6:45	4/10:45	240	960	NEAR MANOMETER	12/100	.006	SL8
-26-6-5-5	EV	4.2/6:45	4/10:45	240	960	BREAK AREA	5.5/100	.003	SL21
-26-6-5-6	EV	4/6:45	4/10:45	240	960	CLEAN ROOM	5/100	.003	SL30
-26-6-5-7	EV	4/6:45	4/10:45	240	960	OUTSIDE OF CLEAN ROOM	2.5/100	.002	SH15

COMMENTS: Pumps calibrated by rotameter #SR23

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

5:30 Arrived on site
6:00 Workers arrived & entered containment 20 minutes later
7:00 I entered containment when I noticed manometer reading was too low. Upon inspection, one of the microtaps had shut off & part of the containment had pulled away. Work stopped until this was fixed at about 7:20.
8:00 Power outage — work ceased. Jim Edward, maintenance supervisor, was called in & power was restored. Negative pressure was unsatisfactory again, so workers took their break as containment in equipment room was repaired where it had pulled away from the floor
8:30 Continue

(b) (6) [redacted]

SaLUT Industrial Hygientist

Date

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

10:30 Periodic power surge caused in containment made manometer show a low negative pressure reading. Duct by the back wall had to be retaped again also.
12:30 Stop for the evening.

(b) (6) [redacted]

SaLUT Industrial Hygientist

4/5/90
Date

SaLUT. Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES; SE SUB-BASEMENT Project: SL90-411-26

Location: SE SUB-BASEMENT Date: 6/5/90

Removal Contractor: MARCOR Time Started: 5:30

Monitoring Contractor: SaLUT Time Stopped: 3:00

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors		yes
	e. "Negative air machine" in use		yes
	f. Negative pressure > .03"		yes
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA Y PAPR ___ TYP"C" ___	
	c. Proper Deconcamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	yes	
	b. [redacted]ting/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Part of containment near microtraps had pulled a[redacted] & microtraps shut off temporarily.

Report Prepared By: (b) (6) [redacted] Date: 6/5/90

SaLUT
Soil and Land Use Technology, Inc.
302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: NATIONAL ARCHIVES; SE SUB-BASEMENT
Client: GSA
Job No: SL90-41-26
Date: 6/6/90 Time on-site: 3:30 to 1:00
Name: JOYCE HIX
Analyzed On-site: X Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-26-6-6-1	FB	—	—	—	—	—		—	
41-26-6-6-2	FB	—	—	—	—	—		—	
41-26-6-6-3	WA	2.5/7:00	2.5/9:00	120	300	MIDDLE OF CONTAINMENT	7.5/100	.01	SL6
41-26-6-6-4	EV	4/6:45	4/10:45	240	960	BREAK AREA	7.5/100	.004	SL8
41-26-6-6-5	EV	4/6:45	4/10:45	240	960	IN CLEAN ROOM	11.5/100	.006	SL21
41-26-6-6-6	EV	4/6:45	4/10:45	240	960	NEAR MANOMETER	8/100	.004	SL30
41-26-6-6-7	EV	4/6:45	4/10:45	240	960	OUTSIDE DECON.	6.5/100	.003	SH15

COMMENTS: Pumps Calibrated by rotometer # SR33

Key: BG - Background WA - Work Area PS - Personal
EV - Environmental FC - Final clearance FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

3:30 Arrived on site
4:00 5 workers & 1 foreman arrive. Inspection done before work can begin.
5:00 Workers prepare to enter containment. No clean filters for water today after warning foreman to bring them. He calls his boss from MarCor & is supposed to bring them down.
6:30 Loss in negative pressure due to a microtrap coming unplugged. Slight water leakage from one of the removal bags in storage area. Foreman cleans it & repairs bag. Denied glove bag on a pipe because they didn't bring enough to do the job.
6:45 Break
7:30 Continue
10:30 - Edwin (Salut), Ken (foreman) & I did a usual inspection. One piece of wood with insulation on it had to be removed & partial cleaning

SaLUT Industrial Hygientist

Date

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

left before encapsulation.
11:45 3 men started encapsulating the pipes.
12:45 Completed encapsulation. Finished for the evening. Hogl to give final clearance tomorrow.

SaLUT Industrial Hygientist

Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES Project: SL90-41-26

Location: SE SUB-BASEMENT Date: 6/6/90

Removal Contractor: MARCOR Time Started: 3:30

Monitoring Contractor: SaLUT Time Stopped: 1100

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	no	yes
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"		yes
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ___ HEPA X PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	___	
	c. Used Each Departure?	___	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Denied glove bag due to lack of bags for the amount of pipe. 1 Microtrap was unplugged for 15 minutes. Other one still worked.

Report Prepared By: (b) (6) [redacted] Date: ___

SaLUT

Final Inspection

S.E. Sub-Basement

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NATIONAL ARCHIVES Project: SL90-41-26

Location: SE SUB-BASEMENT Date: 6/7/90

Removal Contractor: MARCOR Time Inspected: 4:00

Monitoring Contractor: SALUT Time Completed: 4:30

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	YES	
	b. Horizontal Surfaces.	YES	
	c. Pipes.	YES	
	d. Ventilation Equipment.	YES	
(above eye level)	e. Horizontal surfaces.	YES	
	f. Pipes.	YES	
	g. Ductwork.	YES	
	h. Registers	YES	
	i. Lights.	YES	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-26-67-1	41-26-67-2	41-26-67-3		
Location:	CENTER	NORTH END	EAST END		
Volume (Liters):	1960	1960	1960		
Flow rate: (Liters/Minute)	10	10	10		
Fibers/Filter:	10/100	9/100	10/100		
Fibers/Cubic Cm:	<.01	<.01	<.01		

ANALYST ANALYZING SAMPLES: [illegible] DATE: 6/7/90.

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: _____ Date: _____

REPORT REVIEWED BY: _____ DATE: _____

SaLUT
Soil and Land Use Technology, Inc.
02 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: NATIONAL ARCHIVES SUB-BASEMENT
Job No: SL90-41-26
Name: TODD M. WOERNER.

Client: GSA
Date: 6/7/90 Time on-site: 3:45 to 8:30
Analyzed On-site: X Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-26-67-1	FC	10/4:17	10/7:31	196	1960	CONTAINMENT (-) AIR	10/100	<.01	
41-26-67-2	FC	10/4:17	10/7:31	196	1960	NORTH END	9/100	<.01	
41-26-67-3	FC	10/4:17	10/7:31	196	1960	EAST END.	10/100	<.01	
41-26-67-4	FB	—	—	—	—	—	1/100	—	
41-26-67-5	FB	—	—	—	—	—	1/100	—	
41-26-67-6	WA/FC	5/5:15	5/6:50	95	475	GLOVE BAG IN AIR HANDLER	34/100	.035	
41-26-67-7	WA/FC	5/5:15	5/6:50	95	475	GLOVE BAG IN AIR HANDLER.	5/100	<.01	

COMMENTS:

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

3:45 ARRIVED ON SITE

4:17 FINAL CLEARANCE SAMPLE ARE RUNNING IN SUB-BASEMENT CONTAINMENT.

5:15 AREAS INSIDE AIR HANDLER BEING PREPPED FOR GLOVE BAGGING

7:00 GLOVE BAGGING COMPLETE.

8:00 ALL FINALS PASSED

ALL GLOVE BAGS WERE SMOKE TESTED PRIOR TO REMOVAL & ALL PASSED.

(b) (6) [redacted]

SaLUT Industrial Hygientist

Date 6/7/20

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES Project: 5L90-41-26

Location: SUB-BASEMENT Date: 6/7/90

Removal Contractor: MARCOR Time Started: 3:45

Monitoring Contractor: SaLUT Time Stopped: 8:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	✓	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR ✓ TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 6/7/90

SaLUT

Room 503

SaLUT

Project: National Archives/Rm 503

Job No.: SL90-41-25

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-25-5-9-1	FB				2/100
41-25-5-9-2	FB				.5/100
41-25-5-9-3	WA	75	187.5	CENTER OF CONTAINMENT	.11
41-25-5-9-4	EV	130	325	CLEAN ROOM	<.02
41-25-5-9-5	EV	129	322.5	OUTSIDE DOOR OF RM 504	<.02
41-25-5-9-6	EV	129	322.5	OUTSIDE DOOR TO RM 503	<.02
41-25-5-9-7	EV	129	322.5	10' FROM DECON	<.02
41-25-5-9-8	WA	25	62.5	CENTER OF CONTAINMENT	.08
41-25-5-10-1	FB				1/100
41-25-5-10-2	FB				2.5/100
41-25-5-10-3	WA	170	425	CENTER OF CONTAINMENT	.05
41-25-5-10-4	EV	438	1095	CLEAN ROOM	<.01
41-25-5-10-5	EV	438	1095	OUTSIDE DOOR TO RM 504	<.01
41-25-5-10-6	EV	438	1095	OUTSIDE DOOR TO RM 503	<.01
41-25-5-10-7	EV	438	1095	10' FROM DECON	<.01
41-25-5-10-8	WA	80	200	CENTER OF CONTAINMENT	.06
41-25-5-10-9	WA	110	275	CENTER OF CONTAINMENT	.06
41-25-5-11-1	FB				3/100
41-25-5-11-2	FB				2.5/100
41-25-5-11-3	WA	90	225	SMALL ROOM E WALL	<0.01
41-25-5-11-4	EV	300	750	IN HALLWAY OUTSIDE RM 503	<0.01
41-25-5-11-5	EV	300	750	3' ON WALL	<0.01
41-25-5-11-6	EV	300	750	ON TOP OF CONTAINMENT	<0.01
41-25-5-11-7	FC	196	1960	SMALL ROOM	<0.01
41-25-5-11-8	FC	196	1960	RM 504	<0.01
41-25-5-11-9	FC	196	1960	RM 504	<0.01
41-25-5-11-10	FC	196	1960	ABOVE CEILING	<0.01

BG - BACKGROUND
EV - ENVIRONMENTAL
WA - WORK AREA
FC - FINAL CLEARANCE
PS - PERSONAL
FB - FIELD BLANK

Analyst

TLT:551

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

May 8, 1990

Mr. Tim Edwards
National Archives and Records Administration
Facilities Management Branch NAFF Rm-B21
7th and Pennsylvania, NW
Washington, D.C. 20408

Re: National Archives
Room 503, Inspection for ACM

Dear Mr. Edwards:

As per your request, SaLUT, Inc., performed visual inspections on May 4, 1990 and May 8, 1990 at the above referenced project for the purpose of removal and decontamination. The area in question was found to contain asbestos pipe insulation that was, in some places, deteriorating. The material was discovered above a plaster ceiling after some demolition had occurred, but no evidence of asbestos was found on the floor.

After cutting an inspection hole in the ceiling of Room 503 entrance hall, approximately 15 linear feet of undamaged pipe insulation was found.

The adjacent projection room contained asbestos pipe insulation in the wall, but none was found above the ceiling.

The contractor shall set up Room 503 as a full containment allowing for the removal of remaining ceiling plaster, pipe insulation and contaminated carpet, plaster and other materials. The adjacent entrance, which contained 15 linear feet of pipe insulation, is to be glove bagged outside the main containment. The projection room, which contained asbestos, was decided by the National Archives not to be abated because it would not be within the work area.

We appreciate the opportunity to provide service. If you have any further questions, please contact us.

Very truly yours,
SaLUT, Inc.

(b) (6) [redacted]

Gary L. Urban
Project Manager

SaLUT

DAILY INSPECTION

SaLUT

May 9, 1990

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives / Rm 503
Job No: SL90-41-25
Name: Ron Stallard

Client: GSA
Date: 5/9/90 Time on-site: 6:00 PM to 12:30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-25-5-9-1	FB	—	—	—	—	—	2/100	—	BLANK
41-25-5-9-2	FB	—	—	—	—	—	.5/100	—	BLANK
41-25-5-9-3	WA	2.5/9:45	2.5/11:00	75	187.5	Center of Containment	43.5/100	.11	SL-13
41-25-5-9-4	EV	2.5/9:50	2.5/12:00	130	325	Clean Rm	8/100	<.02	SL-14
41-25-5-9-5	EV	2.5/9:51	2.5/12:00	129	322.5	outside Door of Rm 504	6.5/100	<.02	SL-15
41-25-5-9-6	EV	2.5/9:51	2.5/12:00	129	322.5	Outside Door to Rm 503	9/100	<.02	SL-16
41-25-5-9-7	EV	2.5/9:51	2.5/12:00	129	322.5	10' from Decon	5.5/100	<.02	SL-17
41-25-5-9-8	WA	2.5/11:35	2.5/12:00	25	62.5	Center of Containment	11/100	.08	SL-13

COMMENTS: Rotometer 1 SL-2 & SL-16 were used to calibrate pumps.

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00PM- arrived on site and met w/ Tim Edwards & looked over work area. Workers were cleaning up debris inside work area. also carpet on floor was being removed.
7:00- Lunch
8:00- Continued set-up of containment i.e. dbl. poly floor was placed on floor
9:45- Gross removal began i.e. plaster ceiling was being removed.
11:00- Break
11:30- Continued removal of ceiling
12:00- Most of ceiling down so workers showered out for evening.
12:30- Left Site.

(b) (6) [redacted]
Salut Asbestos Technician

5/9/90
Date

SoLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: 5th floor

Location: Rm 503 Date: 5/9/90

Removal Contractor: Marcor Time Started: 6:00

Monitoring Contractor: Salut Time Stopped: 12:00

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 5/9/90

SaLUT

May 10, 1990

SaLUT
Soil and Land Use Technology, Inc.
203 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives / Rm 503
Job No: SL90-041-25
Name: Ron Stallard

Client: GSA
Date: 5/10/90 Time on-site: 4:30 PM to 12:30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-25-5-10-1	FB	—	—	—	—	—	1/100	—	BLANK
41-25-5-10-2	FB	—	—	—	—	—	2.5/100	—	BLANK
41-25-5-10-3	WA	2.5/4:40	2.5/7:30	170	425	Center of Containment	43/100	.05	SL-13
41-25-5-10-4	EV	2.5/4:42	2.5/12:00	438	1095	Clean Room	10/100	<.01	SL-14
41-25-5-10-5	EV	2.5/4:42	2.5/12:00	438	1095	outside Door to Rm 504	8.5/100	<.01	SL-15
41-25-5-10-6	EV	2.5/4:42	2.5/12:00	438	1095	outside Door to Rm. 503	7/100	<.01	SL-16
41-25-5-10-7	EV	2.5/4:42	2.5/12:00	438	1095	10' from Decon	9/100	<.01	SL-17
41-25-5-10-8	WA	2.5/7:30	2.5/8:50	80	200	Center of Containment	23.5/100	.06	SL-13
41-25-5-10-9	WA	2.5/10:08	2.5/11:58	110	275	Center of Containment	31/100	.06	SL-13

COMMENTS: Rotameters SR-2 & SR-16 were used to calibrate pumps

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Blank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:30 - Arrived on site and looked over containment and everything O.K. Workers began bagging out @ this time.

5:00 - Bag-Out complete and appr. 150 bags were removed from containment. Material was ceiling plaster. Workers began fine cleaning @ this time.

6:30 - Lunch

7:30 - All of ceiling down at this time so workers removed ACM from pipes.

8:30 - All ACM removed from pipes so workers began fine cleaning of pipes

9:00 - Break.

10:00 - Continued fine cleaning of pipes also, poly was removed from floor and carpet was being removed.

11:00 - Continued fine cleaning on pipes and most of carpet up @ this time.

12:00 - Workers began cleaning up & showering out.

12:30 - Work Day Done.

(b) (6) [redacted]

SaLUT Industrial Hygientist

Date 5/10/90

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: 5th floor

Location: Rm 503 Date: 5/10/90

Removal Contractor: Marcor Time Started: 4:30 PM

Monitoring Contractor: Salut Time Stopped: 12:30 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ.	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____	
		HEPA yes	
		PAPR ____	
		TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 5/10/90

SaLUT

May 11, 1990

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: U.S. ARCHIVES
Client: GSA
Job No: SL90-41-25 (Room 503-504 - TRAINING Room)
Date: 5-11-90 Time on-site: 3:30 Pm to 1:30 Pm
Name: WALTER DIXON
Analyzed On-site: X Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-25-5-9-1	FB	—	—	—	—	—	3/100	—	BLANK
41-25-5-9-2	FB	—	—	—	—	—	2.5/100	—	BLANK
41-25-5-9-3	WA	2.5/6:00	2.5/7:30	90 m	225 L	"SMALL Room" E. WALL	5/100	<0.01	SL 3
41-25-5-9-4	EV	2.5/6:00	2.5/11:00	300 m	750 L	IN HALLWAY OUTSIDE Rm 505	4/100	<0.01	SL 7
41-25-5-9-5	EV	2.5/6:00	2.5/11:00	300 m	750 L	3' ON WALL IN FRONT OF CONTAINMENT	11.5/100	<0.01	SL 20
41-25-5-9-6	EV	2.5/6:00	2.5/11:00	300 m	750 L	ON TOP OF CONTAINMENT UNDER CEILING OPENING	13/100	<0.01	SL 30
41-25-5-9-7	FC	10/8:00	10/11:16	196 m	1960 L	"SMALL Room"	2.5/100	<0.01	SH 18
41-25-5-9-8	FC	10/8:00	10/11:16	196 m	1960 L	Rm 504	6.5/100	<0.01	SH 8
41-25-5-9-9	FC	10/8:00	10/11:16	196 m	1960 L	Rm 504	7.5/100	<0.01	SH 6
41-25-5-9-10	FC	10/8:00	10/11:16	196 m	1960 L	ABOVE CEILING	4/100	<0.01	SH 20

COMMENTS: Pumps CALIBRATED WITH ROTOMETERS SR10 & SR13.

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

3:30 ARRIVED AT ARCHIVES BUILDING.

4:00 CREW OF MARCOR ON SITE. WILL FINE CLEAN CONTAINMENT IN ROOM 503, ALSO IN SAME ROOM WILL GLOVE BAG 10 FOOT PIPE LINE ABOVE CEILING, AND IN "SMALL ROOM" REMOVE PIPE INSULATION BEHIND WALL. WILL HAVE TO KNOCK OUT WALL WITH SLEDGE HAMMER. 5 PERSONNEL.

5:00 CONTAINMENT BEING BUILT FOR "SMALL ROOM", IN ROOM 503, FOR PIPE INSULATION BEHIND WALL. 1 MAN ABOVE CEILING GLOVE BAGGING, OTHER CREW FINE CLEANING CONTAINMENT SET-UP IN ROOM 503-504.

6:00 CONTAINMENT FINISHED BEING BUILT; WALL WILL NOW BE KNOCKED DOWN WITH SMALL SLEDGE HAMMER. GLOVE BAGGING ABOVE CEILING STILL IN PROGRESS.

7:00 INSPECTION OF CONTAINMENT IN ROOM 504 PERFORMED. AREA IS SUFFICIENTLY CLEAN. DECONTAMINATION STARTED. "SMALL ROOM" REMOVAL STILL IN PROGRESS. GLOVE BAGGING COMPLETED ABOVE CEILING.

(b) (6) [redacted]
Salut Asbestos Technician

5-11-90
Date

(OVER)

SaLUT Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

7:20 "SMALL ROOM" COMPLETED. INSPECTION PERFORMED. CLEAN ENCAPSULATION STARTED.

8:00 FC'S STARTED IN ALL AREAS.

9:00 FC'S STILL RUNNING.

10:30 TRUCK FROM MARCOR COMES. PERSONNELL STARTS LOADING BAGS.

11:16 FC'S STOPPED + ANALYZED.

11:40 ALL FC'S HAVE CLEARED. CREW STARTS TEARING DOWN CONTAINMENTS.

12:30 ALL CONTAINMENTS TORE DOWN. CREW STARTS TO GO OFF SITE.

1:30 OFF SITE AFTER ANALYZING REMAINING SAMPLES.

(b) (6) [redacted]

Salut Asbestos Technician

5-11-90

Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: U.S. ARCHIVES Project: PIPE INSULATION

Location: Room 503-TRAINING Room Date: 5-11-90

Removal Contractor: MARCOR Time Started: 6:30 Pm

Monitoring Contractor: SaLUT Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ.	✓	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.		✓
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.		
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 5-11-90

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: U.S. ARCHIVES Project: PIPE INSULATION

Location: Rm 503-504 Date: 5-11-90

Removal Contractor: MARCOR Time Inspected: 7:00 Pm

Monitoring Contractor: SaLUT Time Completed: 7:30 Pm

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.		
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.		N/A

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	7	8	9	10	
Location:	"Small Room"	Rm 504	Rm 504	Above Ceiling	
Volume (Liters):	1960L	1960L	1960L	1960L	
Flow rate: (Liters/Minute)	10 Lpm	10 Lpm	10 Lpm	10 Lpm	
Fibers/Filter:	2.5/100	6.5/100	7.5/100	4/100	
Fibers/Cubic Cm:	<0.01	<0.01	<0.01	<0.01	

ANALYST ANALYZING SAMPLES: W. Dixon DATE: 5-11-90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 5-11-90

REPORT REVIEWED BY: _____ DATE: _____

OCCUPATIONAL
MEDICAL CENTER, INC.

Seventh and D Streets, S.W.
P.O. Box 23580
Washington, D.C. 20026
202-488-7990

200 Hospital Drive
Empire Medical Building
Glen Burnie, MD 21061
301-760-7560

June 7, 1985

Mr. Peter Gillson
General Services Administration
Accident and Fire Prevention Branch
7th and D Streets, S.W., Room 2034
Washington, D.C. 20407

**RE: National Archives Building
Asbestos Abatement Monitoring**

Dear Mr. Gillson:

At the request of the General Services Administration's Accident and Fire Prevention Branch, the Occupational Medical Center (OMC) monitored an asbestos removal operation at the National Archives Building. This building is located at 7th Street and Pennsylvania Avenue, NW, Washington, D.C. The work was performed between the dates of April 4 and 12, 1985, inclusive.

Personnel from T and T Construction, Inc. were to remove insulation from an air handler in the southeast corner of the sub-basement of the building. The air handler was insulated with sheets of cork which were coated with a cementitous material containing forty five to fifty percent (45-50%) chrysotile asbestos (Sample A-2). In order to safely perform work upon the air handler, the insulation first had to be removed.

On the first day of work, April 4, 1985, OMC visited the worksite containment, and found several inadequacies in the safety measures being taken. Jesse Walter of GSA Accident and Fire Prevention was notified and all containment deficiencies were presented in writing. Scott Lokey of T and T Construction was notified. Asbestos removal work was halted and workers spent the balance of the day correcting the noted problems. The following day

work proceeded normally. On Tuedsay, April 9, a final inspection failed due to the presence of residual material throughout the containment. On Friday, April 12, the work area passed both the visual examination and the test for airborne fibers of asbestos. It should be noted that during removal operations, recorded fiber levels outside the work area were at no time in excess of NIOSH recommended levels of 0.1 fibers per cubic centimeter.

Air samples were collected on site on a daily basis using a Gilian or SKC Hi-flow pump. Samples were drawn through a 37 millimeter Millipore sampling cassette at a calibrated rate of 2.5 liters of air per minute. Analysis was performed by Biospherics, Inc. of Rockville, Maryland. Biospherics is an American Industrial Hygiene Association accredited laboratory for asbestos analysis. Method of analysis was phase contrast microscopy per NIOSH Method P&CAM 239. A summary of samples and results is attached hereto.

If you have any questions concerning this matter, please do not hesitate to contact this office.

Sincerely yours,

(b) (6)

[redacted]

Michael J. Larsen, C.I.H.
Director of Industrial Hygiene

MJL/caw

NATIONAL ARCHIVES BUILDING
Asbestos Abatement Monitoring Air Results
Stated in fibers per Cubic Centimeter (f/cc)

Sample Number	Location	Result
A-4-4-A1	Outside containment door on top of Fan F-27-5	0.01
A-4-4-A2	On top of flood light panel	<0.01
A-4-4-A3	Near panel E-27-80	<0.01
NA-4-5-1A	On wall box outsdie the chamber	<0.01
NA-4-5-2A	On electrical box near door	<0.01
NA-4-5-3A	On switchbox on side opposite entry	<0.01
NA-4-5-4A	Outside entrance to containment	<0.01
NA-4-5-5A	Inside containment on wall locker	0.12
A-4-8-A1	On cement pad near microtrap exhaust	<0.01
A-4-8-A2	On electrical box outside containment entrance	<0.01
A-4-8-A3	Inside containment on box marked "Pimp #8"	0.11
AR-4-9-1	Outside shower of containment	<0.01
AR-4-9-2	Inside containment on top of microtrap	0.02
AR-4-9-3	Inside containment	0.02
AR-4-12-1	Inside containment on cement ledge	<0.005
AR-4-12-2	Over stripped pipe area by doorway	<0.005

OCCUPATIONAL
MEDICAL CENTER, INC.

490 L'Enfant Plaza East, S.W., Suite 4300, P.O. Box 23580, Washington, D.C. 20026 (202) 488-7990

74850

40-43

October 17, 1986

Bulk Samples
National Archives (DC006ZZ) **DC0006ZZ**

PERFORMED FOR:

General Services Administration
Safety and Environmental Management
ROB Room 2034
7th and D Sts., S.W.
Washington, D.C. 20407

Contract #GS-11C-40323 Work Request #234-292

ATTN: Peter Gillson

At the request of GSA's Safety and Environmental Management Division, the Occupational Medical Center (OMC) collected bulk samples of suspected asbestos containing pipe insulation at the National Archives Building located at 7th Street and Constitution Avenue, Washington, D.C.

The samples were collected on August 22, 1986 from a 10" east-west running pipe line in the basement garage at the Constitution Street side. The specific area of sample collection was pointed out by Mr. Bob Hufford, Facilities Manager for the Archives.

Sampling was performed according to the NIOSH recommended method for bulk sampling asbestos containing materials. Analysis of the samples was performed according to the EPA Interim Method for Identification of asbestos in bulk samples.

The results are listed in the following table.

Should you have any questions concerning this matter, please do not hesitate to contact this office.

Sincerely,

(b) (6) [redacted]

Michael A. Cecil
Supervisory Industrial Hygienist

(b) (6) [redacted]

Michael J. Larsen, C.I.H.
Director, Industrial Hygiene Services

cc: Jim Ruchalski

Results

Sample Number	Location	Result
ARCHOS0822-B1	Pipe insulation, garage Constitution Street side	30-35% CH
ARCHOS0822-B2	Pipe insulation, garage Constitution Street side	NAD
ARCHOS0822-B3	Elbow mud, garage Constitution Street side	40-45% CH

CH = Chrysotile

NAD = No Asbestos Detected

10" diameter, east/west running horizontal pipe - approx. 75' long

Sample B1 - taken at West end of pipe.

Sample B2 - taken at Middle section of pipe.

DC0006ZZ

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

October 12, 1990

RECEIVED
GSA-NCR
SAFETY & ENVIRONMENTAL
MANAGEMENT DIV. (WPX)
OCT 29 8 51 AM '90

GSA National Capital Region
Safety & Environmental Management Division (WPX)
7th & D Streets, S.W., Room 2034
Washington, D.C. 20407

Attn: Ms. Normajean Eleazer

Re: National Archives SE **SubBasement**
North Hall, **ACU7**, Engineering Room
Washington, D.C.
SaLUT #: SL-89-41-37
Act # **P72097038**

Dear Ms. Eleazer:

In response to order Number **P1190DC9494**, SaLUT, Inc. monitored asbestos abatement activities at the above-referenced project from October 1, 1990 to October 5, 1990.

Our services included providing industrial hygiene services, including , monitoring and analyzing air samples, and a final inspection and clearance. All air samples were collected and analyzed in accordance with NIOSH Method 7400. All daily activities along with air samples results and final inspection reports are documented in the attached daily field reports.

We appreciate the opportunity to provide these services. If you have any questions or need additional information, please contact us.

Very truly yours,

(b) (6)
[redacted]

Todd M. Woerner
Project Manager

dm/111

SaLUT

Project: National Archives - Sub Basement

Job No.: SL-90-41-37

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-37-10-1-01	FB				0/100
41-37-10-1-02	FB				2/100
41-37-10-1-03	EV	161	402.5	STEAM ROOM	0.022
41-37-10-1-04	EV	157	392.5	COMPUTER ROOM	0.006
41-37-10-1-05	EV	164	410.0	OUTSIDE COMPUTER ROOM	0.010
41-37-10-1-06	EV	160	400.0	OUTSIDE CONTAINMENT, LEFT	0.014
41-37-10-1-07	EV	162	405.0	CLEAN ROOM	0.011
41-37-10-1-08	WA	96	240.0	OUTSIDE OF OUTSIDE CORNER OF BATTERY ROOM	0.063
41-37-10-2-01	FB				1/100
41-37-10-2-02	FB				1/100
41-37-10-2-03	EV	416	1040.0	CLEAN ROOM	0.009
41-37-10-2-04	EV	416	1040.0	OUTSIDE LEFT SIDE ENTRANCE	0.010
41-37-10-2-05	EV	415	1037.5	COMPUTER ROOM	0.006
41-37-10-2-06	EV	414	1035.0	BY DESKS OUTSIDE COMPUTER RM	0.005
41-37-10-2-07	EV	414	1035.0	STEAM ROOM	0.016
41-37-10-2-08	WA	92	230.0	BY DOOR TO N. HALLWAY-VOID OVERLOAD	
41-37-10-2-09	WA	75	187.5	INSIDE CONTAINMENT BY LEFT SIDE DOOR (SEALED)	0.073
41-37-10-3-01	FB				0/100
41-37-10-3-02	FB				0/100
41-37-10-3-03	WA	170	425.0	CORNER OF ROOM BY DOOR TO N. HALLWAY	VOID
41-37-10-3-04	EV	453	1132.5	IN CLEAN ROOM	0.008
41-37-10-3-05	EV	446	1115.0	ENGINEER'S DESK NEAR COMPUTER ROOM	0.006
41-37-10-3-06	EV	445	1112.5	IN COMPUTER ROOM	0.003
41-37-10-3-07	EV	77	192.5	OUTSIDE LEFT SIDE CONTAINMENT	0.023
41-37-10-3-08	FC	198	1980.0	N. HALL BY MICRO-TRAP	*VOID
41-37-10-3-09	FC	197	1970.0	N. HALL TOWARD ENGINEER'S RM	0.003

* CAUSE UNKNOWN

BG - BACKGROUND
EV - ENVIRONMENTAL
WA - WORK AREA
FC - FINAL CLEARANCE
PS - PERSONAL
FB - FIELD BLANK

SaLUT

Project: National Archives - Sub Basement

Job No.: SL-90-41-37

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-37-10-3-01B	FB				0/100
41-37-10-3-02B	FB				0/100
41-37-10-3-03B	WA	165	660	IN WORK AREA, ACU7	0.067
41-37-10-3-04B	EV	185	925	NEAR COLUMN #307	0.002
41-37-10-3-05B	EV	185	925	IN CLEAN ROOM	0.005
41-37-10-3-06B	EV	185	925	ON COLUMN #306	0.004
41-37-10-3-07B	FC	197	1970	BACK OF WORK AREA, ACU7	0.001
41-37-10-3-08B	FC	196	1960	FRONT OF WORK AREA, ACU7	0.003
41-37-10-4-01	FB				2/100
41-37-10-4-02	FB				1/100
41-37-10-4-03	WA	82	205.0	BY N. HALL ENTRANCE	0.203
41-37-10-4-04	EV	446	1115.0	CLEAN ROOM	0.006
41-37-10-4-05	EV	445	1112.5	BY SIDE ENTRANCE CONST. AREA	0.006
41-37-10-4-06	EV	445	1735.5	DESK NEAR COMPUTER ROOM	0.002
41-37-10-4-07	EV	444	1110.0	COMPUTER ROOM	0.006
41-37-10-4-08	WA	83	207.5	BY CENTER OF CONTAINMENT	VOID
41-37-10-4-09	FC	196	1960.0	BY ENGINEERING RM, N. HALL	0.003
41-37-10-4-10	FC	196	1960.0	BY STEAM RM, N. HALL	0.003
41-37-10-5-01	FB				0/100
41-37-10-5-02	FB				0/100
41-37-10-5-03	WA	212	530.0	OUTSIDE WALL OF COMPUTER RM	0.007
41-37-10-5-04	EV	VOID - PUMP FAILURE		CLEAN ROOM	
41-37-10-5-05	EV	422	1470.0	BY SIDE DOOR (SEALED) OF CONT. AREA	0.003
41-37-10-5-06	EV	422	1055.0	ON DESK BY COMPUTER RM	0.001
41-37-10-5-07	EV	421	1052.5	COMPUTER ROOM	0.008
41-37-10-5-08	EV	145	1450.0	OUTSIDE BATTERY ROOM	0.002
41-37-10-5-09	WA	135	1350.0	IN BATTERY ROOM	0.009
41-37-10-5-10	WA	75	187.5	CONTAINMENT SIDE WALL OF COMPUTER ROOM	0.034
41-37-10-5-11	FC	196	1960.0	ENGINEER'S RM AROUND CORNER BEHIND P.S.	0.002
41-37-10-5-12	FC	196	1960.0	ACROSS ROOM FROM DECON	0.002
41-37-10-5-13	FC	196	1960.0	NEAR END OF POWER SUPPLY	0.002
41-37-10-5-14	FC	196	1960.0	AHEAD OF DECON 12'	0.003

BG - BACKGROUND WA - WORK AREA PS - PERSONAL
EV - ENVIRONMENTAL FC - FINAL CLEARANCE FB - FIELD BLANK

10-01-90

SaLUT Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823 Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives - Sub Basement
Client: GSA
Job No: SL-90-41-37
Date: 10/1/90 Time on-site: 3:45 to 12:30
Name: Matt Cramer
Analyzed On-site: Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-37-10/1-01	FB						0/100		
41-37-10/1-02	FB						2/100		
41-37-10/1-03	EV	9:50 2.5 l/min	12:31 2.5 l/min	161 min	402.5 l	Steam room	18/100	0.022	SL-26
41-37-10/1-04	EV	9:55 2.5 l/min	12:32 2.5 l/min	157 min	392.5 l	Computer room	4.5/100	0.006	SL-4
41-37-10/1-05	EV	9:51 2.5 l/min	12:35 2.5 l/min	164 min	410 l.	Outside ~~computer room~~	8.5/100	0.010	SL-8
41-37-10/1-06	EV	9:53 2.5 l/min	12:34 2.5 l/min	160 min	400 l.	outside left side of containment.	11.5/100	0.014	SL-6
41-37-10/1-07	EV	9:54 2.5 l/min	12:36 2.5 l/min	162 min	405 l.	Clean room	9/100	0.011	SL-21
41-37-10/1-08	WA	10:10 2.5 l/min	11:46 2.5 l/min	96 min	240 l.	outside the outside corner of battery room	31/100	0.063	SL-23

COMMENTS: Used rotameter SR-25 to calibrate pumps

Key: BG – Background
EV – Environmental
WA – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court. Suite E, Linthicum. Maryland 21090

Telephone: (301) 354-2823
Fax: (301)354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

3:45 On site. Familiarized myself with abatement area, workers sealing containment.

4:30 Marcor Safety personell DOP tests microtraps to ensure against leaks due to moving.

6:30 Workers break for lunch return at 7:30

7:30 workers continuing to prepare abatement area.

9:00 Inspect containment. Find it acceptable. workers preparing to enter for [redacted]. Abatement.

1000 E.V. Samples started prepare to enter ~~abat~~ enclosure Workers have begun abatement after ½ hour break at 9:15

10:10 Entered enclosure to inspect work area/practices. start work area samples. Exit enclosure at 10:40

11:40 Enter enclosure, take work area samples off line. observe progress and work practices.

12:00 leave Containment, workers were in process of removing all debris.

12:30 leave site; workers, finished clean up, also leave

(b) (6) [redacted]

SaLUT Industrial Hygientist

10/1/90

Date

SaLUT

Soil and Land Use Technology, Inc.

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EXHIBIT B

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: SL-90-41-37

Location: Sub-Basement Date: 10/1/90

Removal Contractor: Marcor Time Started: 3:45

Monitoring Contractor: Salut Time Stopped: 12:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.		See Notes
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

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ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ✓ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Hammers were needed to remove parts of drop ceiling. NON ACM and used in conjunction with water

Report Prepared By: [redacted] (b) (6) Date: 10/1/90

10-02-90

SaLUT Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E. Linthicum, Maryland 21090 Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives - Sub Basement
Client: GSA
Job No: SL-90-41-37
Date: 10/2/90 Time on-site: 4:30 to 12:45
Name: M. Cramer
Analyzed On-site: Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-37-10/2-01	FB						1/100		
41-37-10/2-02	FB						1/100		
41-37-10/2-03	EV	5:04 2.5 l/min	12:00 2.5 l/min	416 min	1040 l.	Clean room	19/100	0.009	SL-26
41-37-10/2-04	EV	5:07 2.5 l/min	12:03 2.5 l/min	416 min	1040 l.	Outside left side entrance	21/100	0.010	SH-17
41-37-10/2-05	EV	5:10 2.5 l/min	12:05 2.5 l/min	415 min	1037.5 l.	Computer room	13.5/100	0.006	SL-6
41-37-10/2-06	EV	5:11 2.5 l/min	12:05 2.5 l/min	414 min	1035 l.	Near desks outside computer room	9.5/100	0.005	SL-4
41-37-10/2-07	EV	5:13 2.5 l/min	12:07 2.5 l/min	414 min	1035 l.	Steam room	34/100	0.016	SH-32
4 3 7 -	WA	600 2.5 l/min	7:42 2.5 l/min	92 min	230 l.	By door to North Hallway	VOID	overloaded	SL-23
41-37-10/2-09	WA	11:00 2.5 l/min	12:15 2.5 l/min	75 min	187.5 l.	Wide containment by left side door (sealed)	28/100	0.073	SL-8

COMMENTS: Used Rotometer SR-25 to calibrate pumps
41-37-10/2-07 was in steam room with Microtraps and a great deal of loose pipe insulation.

Key: BG – Background
EV – Environmental
WA – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

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Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:30 Arrive on site. Workers entering containment.
Start setting up pumps. Start Manometer.
Neg air is too low, at -0.013, inform Marcor
supervisor and David Clawson operations manager for Marcor
5:00 Try sealing any spots previously missed. up to 0.017
6:00 Enter containment. find plastic off on air feed in ceiling
find cracks in masonry, and around 1 large duct, a small gap.
Have all sealed.
6:45 Negative air at -0.022, workers on break.
7:45 workers back in containment; take W.A. sample off line.
8:30 Momometer still holding at ~~-0.0~~ -0.02+
10:00 workers take break;
11:00 workers back in containment I also enter; start
another W.A. sample. Observing work practices I note
that material is not wet enough. Workers cannot use an
appropriate amount of water due to high voltage used
to feed necessary equipment. (Computers.)
12:15 Workers finished cleaning for day, exit containment
12:45 leave site

(b) (6) [redacted]

SaLUT Industrial Hygientist

10/2/90
Date

SaLUT

Soil and Land Use Technology. Inc.

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EXHIBIT B

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives project: SL-90-41-37

Location: Sub-basement Date: 10/2/90

Removal Contractor: Marcor Time Started: 4:30

Monitoring Contractor: Salut Time Stopped: 12:45

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curteins	✓	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓ (4)	
	f. Negative pressure > .03"		See Notes
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.		See Notes
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

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ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

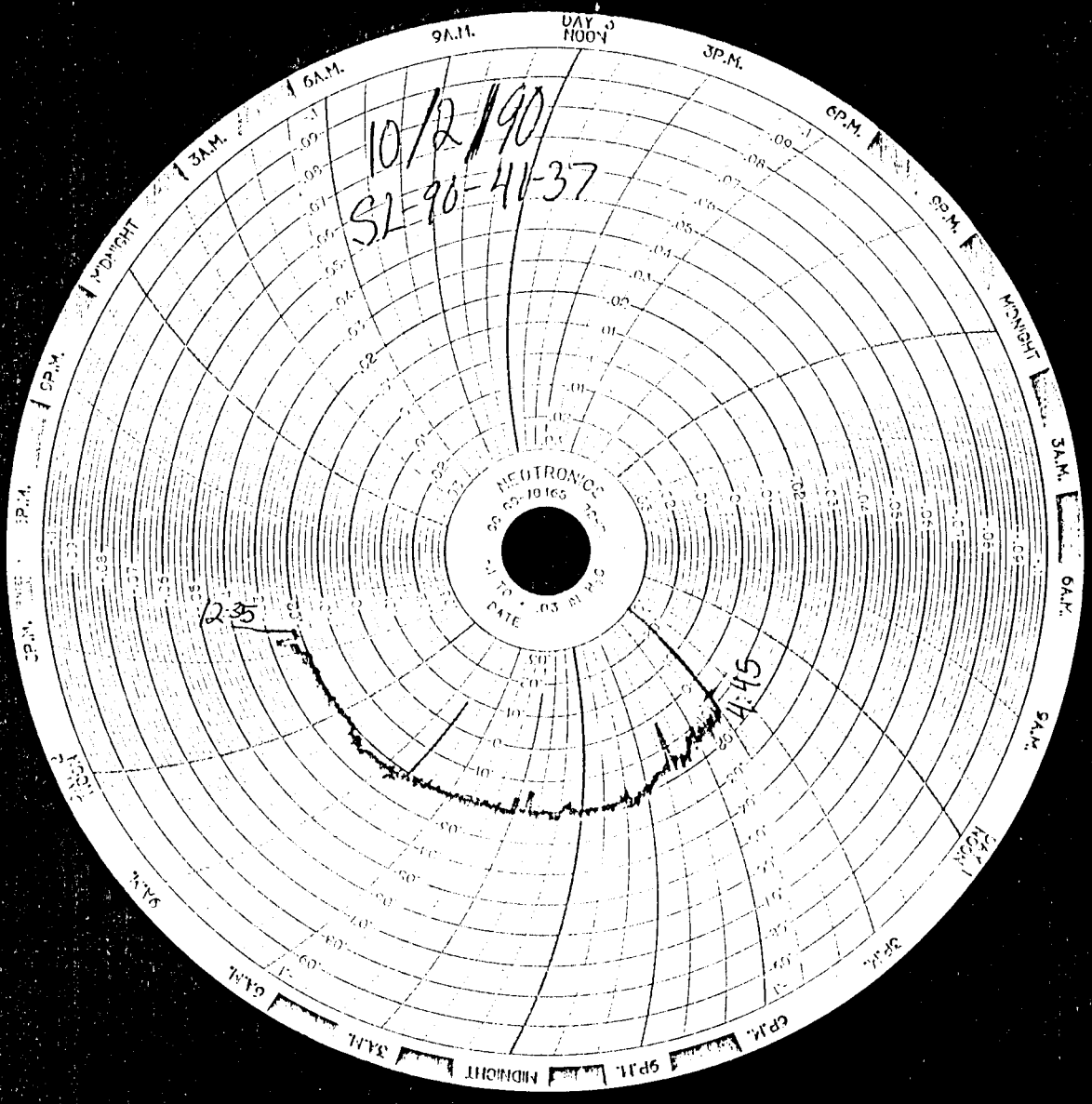
Inspection Category	Activity. to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ____ HEPA ✓ PAPR ✓ TYP"C" ____	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Unable to achieve -0.03" Neg pressure. Recomend another Neg Air device be installed on site.

Some Hand tools used on site to cut tie wire from pipe insulation

Report Prepared By: (b)(6) [redacted] Date: 10/2/90


10/2/90
SL-90-41-37
12:35
4:45
NEUTRONICS
DATE
DAY 3
NOON
9A.M.
3P.M.
6P.M.
9P.M.
MIDNIGHT
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6A.M.
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NOON
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NOON

10-03-90

SaLUT Soil and Land Use Technology, Inc.
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AIR TEST SAMPLING DATA SHEET

Project: National Archives
Client: GSA
job No: SL-90-41-37
Date: 10/3/90 Time on-site: 4:30 to 2:45
Name: Matt Cramer
Analyzed On-site: Laboratory:

Sample ID	Type	Flow Time O N	Flow Time OFF	Flow Time	Volume	Locatron	Fibers/ Fields	Fibers/ cc	Remarks
41-37-10/3-01	FB						0/100		
41-37-10/3-02	FB						0/100		
41-37-10/3-03	A	4:50 2.5 l/min	7:40 2.5 l/min	170 min	425 l.	On corner of room by door to North Hallway	VOID		SL-23
41-37-10/3-04	EV	457 2.5 l/min	12:30 2.5 l/min	453 min	1132.5 l.	in clean room	18/100	0.008	SL-4
41-37-10/3-05	EV	505 a 5 l/min	12:31 2.5 l/min	446 min	1115 l.	Engineers desk near computer room	13/100	0.006	SL-5
41-37-10/3-06		506 2.5 l/min	12:31 2.5 l/min	445 min	1112.5 l.	In Computer room	7/100	0.003	SL-6
41-37-10/3-07	EV	503 2.5 l/min	620 2.5 l/min	77 min	192.5 l.	Outside left side containment	9/100	0.023	SL-26
41-37-10/3-08	FC	10:22 10 l/min	1:40 10 l/min	198 min	1980 l.	North Hall near Micro-trap	VOID	cause unknown	SH-17
41-37-10/3-09	FC	10:23 10 l/min	1:40 10 l/min	197 min	1970 l.	North Hall toward Engineers room	10½/100	0.003	SH-8

COMMENTS: Used Rotometers SR-24 and SR-25 to Calibrate pumps

Key: BG – Background
EV – Environmental
WA – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

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SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:30 Arrive on site, Set up Monometer, registers [redacted] 0.021
Workers Start Bagging out of containment, and continue
fine cleaning of Abatement area - Set out and Start EV Samples

4:45 Enter containment, still much cleaning to do in larger
area. North Hallway, a small area off main room will
be sealed from main containment area and go through
final clearance seperately. Seperate Decon will be set up.
Another containment area is also set up to remove a
section of pipe ~~close~~ insulation and will be completed this evening (see
report B for data on this area i.e. 41-37-10/3B. B will follow date.)

6:30 Workers take lunch break, back at 7:15

7:40 Enter containment to visual North passage.

8:15 Give go-ahead, A encapsulation, after A, is added,
and it is sealed from main room. Fine cleaning and Bag-out
still occuring in main room.

9:30 - Ecapsulation is complete.

10:20 Start final samples

2:00 1 sample fails, cause unknown

2:45 leave site.

(b) (6) [redacted]

SaLUT Industrial Hygientist

10/3/90
Date

SaLUT

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EXIIIBIT B

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: SL-90-41-37

Location: S.B. Date: 10/3/90

Removal Contractor: Marcor Time Started: 4.30

Monitoring Contractor: Salut Time Stopped: 2.45

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		See notes
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.		See notes
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

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ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wettecl Until Bagged.	✓	
4. Worker Protection	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp ___ HEPA ✓ PAPR ✓ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Have not succeeded in getting 0.03". Lower than usual today due to bag out.
Some handtools necessary to remove asbestos.

Report Prepared By: (b) (6) [redacted] Date: 10/3/90

SaLUT Soil and Land Use Technology, Inc

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: Nat'l Archives North Hall Project: SL-90

Location: Sub-basement - Engineering Pool of Date: 10/3/90

Removal Contractor: Marcor Time Inspected: 4:30

Monitoring Contractor: Salut Time Completed: 2:45

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

SaLUT Soil and Land Use Technology, Inc

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-37-10/3-08	41-37/0-3-09			
Location:	North Hall	North Hall			
Volume (Liters):	1980 l.	1970 l.			
Flow rate: (Liters/Minute)	10 l/min	10 l/min			
Fibers/Filter:	VOID	10½/100			
Fibers/Cubic Cm:		0.003			

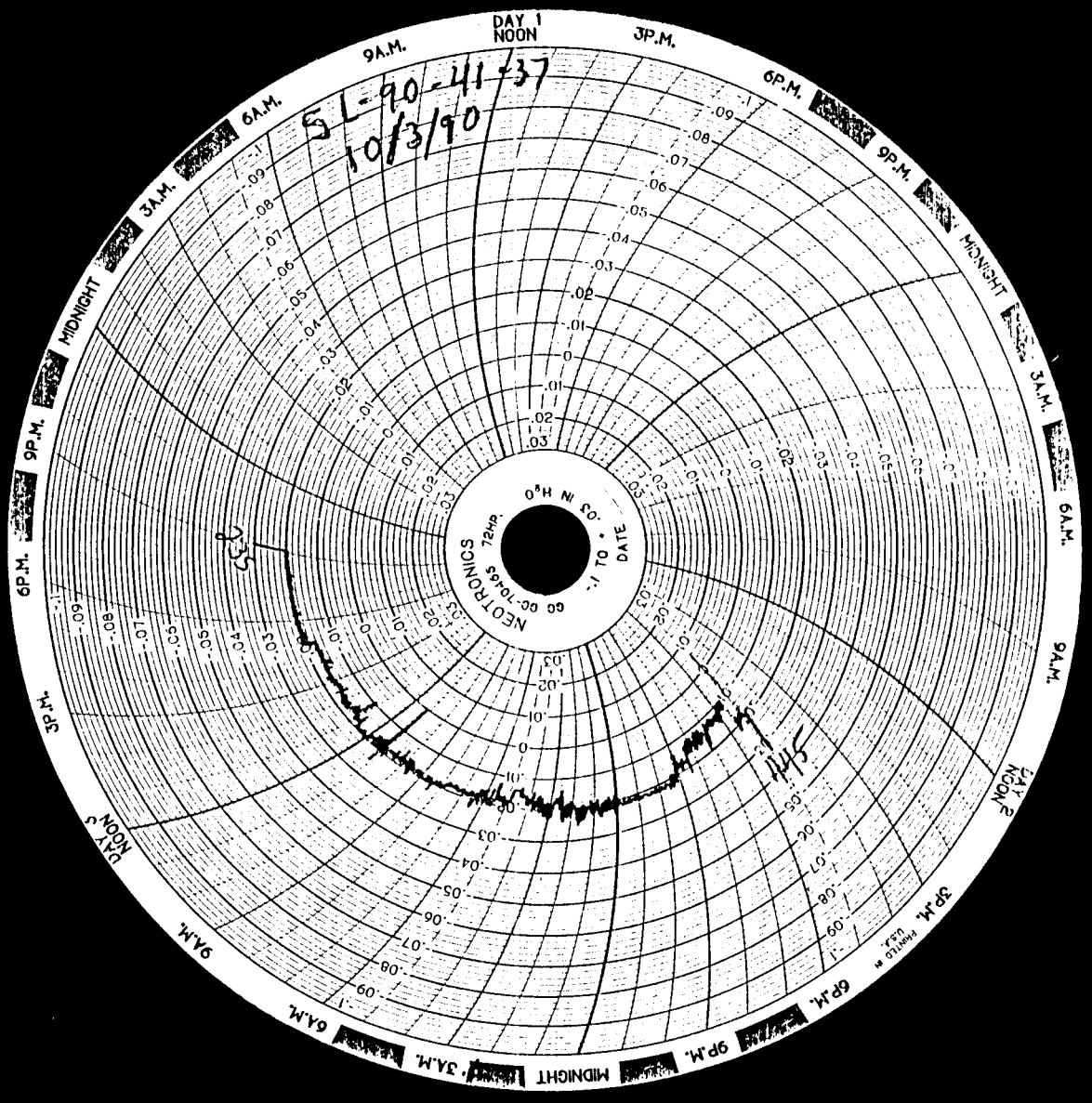
ANALYST ANALYZING SAMPLES: (b) (6) [redacted] DATE: 10/3/90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Fine particulate Made sample unreadable (41-37-10-3-08)

Report Prepared By: (b) (6) [redacted] Date: 10/3/90

REPORT REVIEWED BY: _____ DATE: _____


DAY 1
NOON
3P.M.
6P.M.
9P.M.
MIDNIGHT
3A.M.
6A.M.
9A.M.
DAY 2
NOON
3P.M.
6P.M.
9P.M.
MIDNIGHT
3A.M.
6A.M.
9A.M.
DAY 3
NOON
3P.M.
6P.M.
9P.M.
MIDNIGHT
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NEOTRONICS
GG GC-70465
72HP.
DATE
.03 IN H2O
.1 TO .03
235
445
SL-90-41-37
10/3/90

SaLUT Soil and Land Use Technology, Inc.
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AIR TEST SAMPLING DATA SHEET

Project: National Archives
Job No: SL-90-41-37
Name: M. Cramer

Client: GSA
Date: 10/3/90-B Time on-site: 4:30 to 2:45
Analyzed On-site: Laboratory:

Sample ID	Type	Flow Time O N	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-37-10/3-01B	FB								
41-37-10/3-02B	FB								
41-37-10/3-03B	WA	6:30 4 l/min	9:05 4 l/min	165 min	660 l.	IN Work Area, ACU7	89.5/100	0.067	SL-26
41-37-10/3-04B	EV	6:30 5 l/min	9:35 5 l/min	185 min	925 l.	Near Column #307	3.5/100	0.002	SH-2
41-37-10/3-05B	EV	6:31 5 l/min	9:36 5 l/min	185 min	925 l.	In clean room	8.5/100	0.005	SH-32
41-37-10/3-06B	EV	6:32 5 l/min	9:37 5 l/min	185 min	925 l.	On Column #306	7/100	0.004	SH-17
41-37-10/3-07B	FC	10:35 10 l/min	1:52 10 l/min	197 min	1970 l.	Back of workarea ACU7	3/100	0.001	SH-2
41-37-10/3-08B	FC	10:36 10 l/min	1:52 10 l/min	196 min	1960 l.	Front of work Area ACU7	10½/100	0.003	SH-32

COMMENTS: Used rotometers SR-25 and SR-24 to calibrate pumps

Key: BG – Background
EV – Environmental
W A – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

SaLUT

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SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:30 Arrived on site.
5:30 learned I needed to cover this 2nd abatement area - A.C.V.-7
6:30 Started FV and WA samples in area.
8:00 Bag out and Fine cleaning underway
9:00 reenter abatement area for final inspection
9:10 Area Cleared for encapsulation.
10:15 Encapsulation Complete.
10:30 Started finals.
12:30 Clear area
245 leave site.

(b) (6) [redacted]
SaLUT Industrial Hygientist

10/3/90
Date

SaLUT

Soil and Land Use Technology, Inc.

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Fax: (301) 354-2032

EXHIBIT B

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: SL-90-41-37

Location: Sub basement ACU7 Date: 10/3/90

Removal Contractor: Marcor Time Started: 4:30

Monitoring Contractor: Salut Time Stopped: 245

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curteins	✓	
	c. GLOVE BAG PROJ	NO	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

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Telephone: (301) 351-2023
Fax: (301) 351-2032

ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity. to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR ✓ TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 6/3/90

-10

SaLUT Soil and Land Use Technology. Inc

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Project: SL-90-41-37 B

Location: ACU7 Date: 10/3/90

Removal Contractor: Marcor Time Inspected: 4:30

Monitoring Contractor: Salut Time Completed: 2:45

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	NA	

YE [redacted]

Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal'areais likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the .final air tests will be taken.

Serial Number:	41-37-10/3-7B	41-37-10/3-8B		
Location:	ACU7	ACU7		
volume (Liters):	197dl.	1960l.		
Flow rate: (Liters/Minute)	10 l/min	10 l/min		
Fibers/Filter:	3/100	10½/100		
Fibers/Cubic Cm:	0.001	0.003		

ANALYST ANALYZING SAMPLES: (b) (6) [redacted] DATE: 10/3/90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 10/3/90

REPORT REVIEWED BY: _____ DATE: _____

10-04-90

SaLUT Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: SL-90-41-37 NATIONAL ARCHIVES
Client: GSA
job No: SL-90-41-37
Date: 10/4/90 Time on-site: 4:15 to 7:45
Name: Matt Cramer
Analyzed On-site: Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-37-10/4-01	FB						2/100		
41-37-10/4-02	FB						1/100		
41-37-10/4-03	WA	550 2.5 l/min	7:12 2.5 l/min	82 min	205 l.	Near entrance of North Hall	85/100	0.203	SL-33
41-37-10/4-04	EV	4:59 2.5 l/min	12:25 2.5 l/min	446 min	1115 l	Clean room	14/100	0.006	SL-24
41-37-10/4-05	EV	5:03 2.5 l/min	12:28 2.5 l/min	445 min	1112.5 l.	Near side entrance Cont. Area	13.5/100	0.006	SL-37
41-37-10/4-06	EV	5:03 3.9 l/min	12:28 3.9 l/min	445 min	1735.5 l. 1735.5 l.	Desk near computer room	8/100	0.002	SL-31
41-37-10/4-07	EV	5:02 2.5 l/min	12:26 2.5 l/min	444 min	1,110 l.	computer room		0.006	SH-17
41-37-10/4-08	WA	7:32 2.5 l/min	8:55 2.5	83 min	207.5 l.	Near center of Containment	VOID	overloaded	SL-33
41-37-10/4-09	FC	9:50 10 l/min	1:06 10 l/min	196 min	1960 l.	Near engineering room N.H.	10/100	0.003	SH-32
41-37-10/4-10	FC	9:50 10 l/min	6 10 l/min	196 min	1960 l.	Near Steam room N. Hall	11/100	0.3	SH-2

COMMENTS: Used rotometers SR-24 and SR-25 to calibrate pumps

Key: BG – Background
EV – Environmental
WA – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 351-2023
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:15 Arrive on Site, inspect enclosure. Find 1 Negative air machine off due to Blown circuit breaker, Restore power

4:30 Start manometer, registers 0.021" H_2O. Set out pumps

5:00 Start EV samples

5:15 Enter containment, inspect work progress, and practices. Fine cleaning underway. Also sealing imperfections around pipe chases where insulation had been removed.

Neg pressure now at 0.032"

6:40 workers leave containment for lunch break.

7:10 return to work. North Hallway has been recleaned

8:00 Problems with neg-air machines overloading circuits. Continues to blow circuit breaker. Asked job supervisor to run cords to different area

8:30 All Neg-air machines going. Now at -0.031"

8:45 Still not enough Amps in Sub-basement outlets to carry 4 machines. 1 machine out again.

10:00 Start finals in North Hallway - Recleaned and encapsulated

1:30 Finals Pass

1:45 Leave Site

(b) (6) [redacted]

SaLUT Industrial Hygientist

10/4/90

Date

SaLUT

Soil and Land Use Technology, Inc.

003 Barkwood Court, Suite E. Linthicum, Maryland 21090

Telephone: (301)351-2023
Fax: (301) 351-2032

EXHIBIT B

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: SL-90-41-37

Location: Subbasement Date: 10/4/90

Removal Contractor: Marcor Time Started: 4:15

Monitoring Contractor: Sal Time Stopped: 1:45

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	ALL?	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"		See Notes
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

SaLUT

Soil and Land Use Technology, Inc

003 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR ✓ TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Had some difficulty maintaining 0.03" H_2O due to low amp-rated wall outlets ~~with~~ which would blow circuit breakers. (See Manometer printout.)

Report Prepared By: (b) (6) [redacted] Date: 10/4/90

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Project: SL-90-41-32

Location: North Hall Date: 10/4/90

Removal Contractor: Marcor Time Inspected: 445

Monitoring Contractor: Salut Time Completed: 1:45

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

SoLUT Soil and Land Use Technology, Inc

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-37-10/4-09	41-37-10/4-10			
Location:	North Hall	North Hall			
volume (Liters):	1960 L.	1960 L.			
Flow rate: (Liters/Minute)	10 l/min	10 l/min			
Fibers/Filter:	10/100	11/100			
Fibers/Cubic Cm:	0.003	0.003			

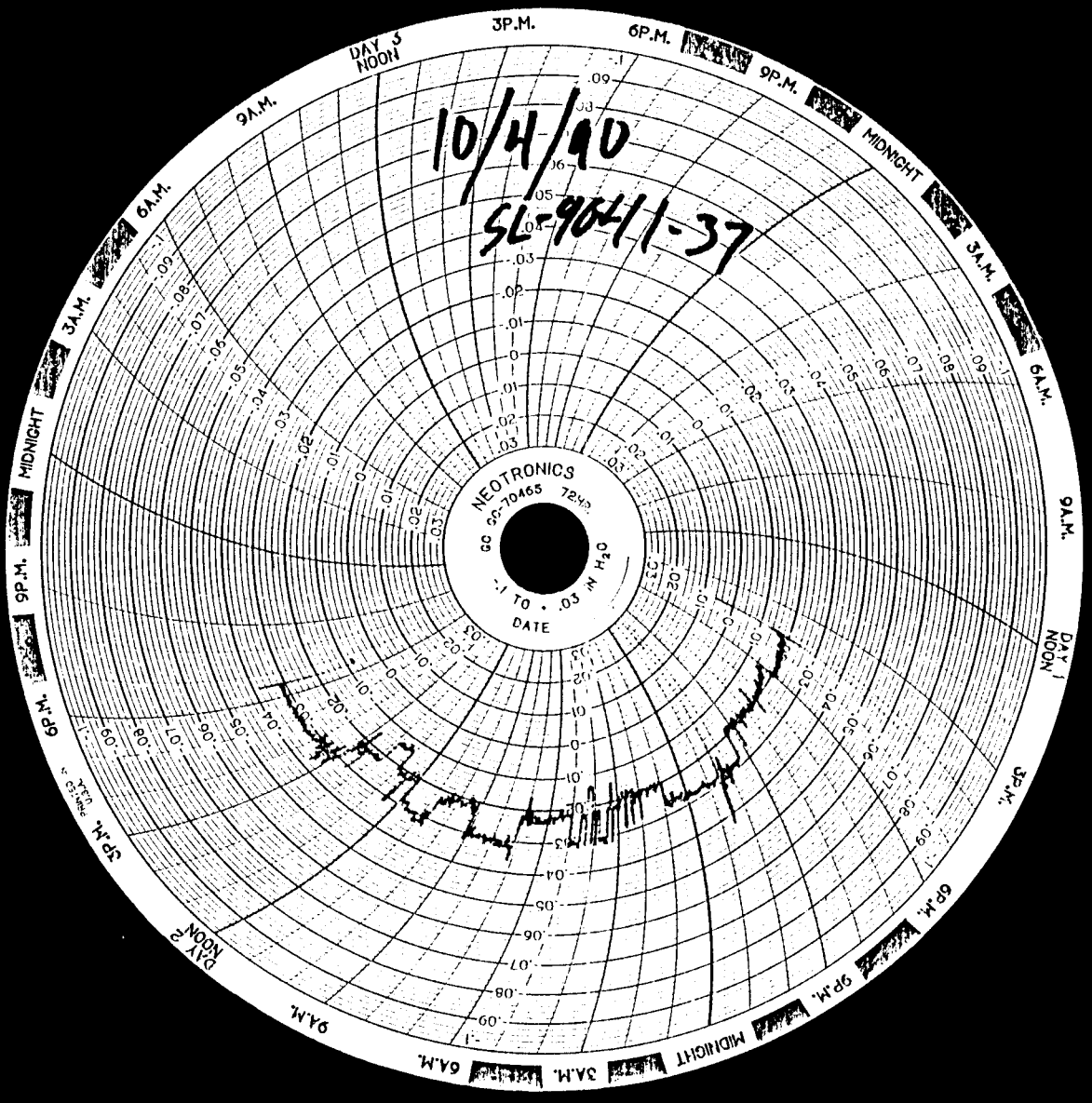
ANALYST ANALYZING SAMPLES: Matt Cramer DATE: 10/4/90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Retest of area failed previous day, reclaimed, recencapsulated. Passed on second final clearance test.

Report Prepared By: (b) (6) [redacted] Date: 10/4/90

REPORT REVIEWED BY: _____ DATE: _____


10/4/90
SL-90411-37
NEOTRONICS
GC GC-70465 72HR
-.1 TO +.03 IN H_2O
DATE
DAY 3 NOON
3P.M.
6P.M.
9P.M.
MIDNIGHT
3A.M.
6A.M.
9A.M.
DAY 1 NOON
3P.M.
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MIDNIGHT
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6A.M.
9A.M.
DAY 2 NOON
3P.M.
6P.M.
9P.M.
MIDNIGHT
3A.M.
6A.M.
9A.M.

10-05-90

SaLUT Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives
Job No: SL-90-41-37
Name: Matt Cramer

Client: GSA
Date: 10/5/90 Time on-site: 400 to 430
Analyzed On-site: Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-37-10/5-01	FB								
41-37-10/5-02	FB								
41-37-10/5-03	WA	5:18 2.5 l/min	8:50 2.5 l/min	212 min	530 l.	outside wall of computer room	7.5/100	0.007	SL-33
41-37-10/5-04	E	4:44 2.5 l/min	VOID pump failure			Clean room			SL-26
41-37-10/5-05	EV	4:48 3.5 l/min	11:50 3.5 l/min	422 min	1470 l.	Near side door of (sealed) com. area	10/100	0.003	SL-31
41-37-10/5-06	EV	4:49 2.5 l/min	11:51 2.5 l/min	422 min	1055 l.	on desk Near computer room	3/100	0.001	SL-
41-37-10/5-07	EV	4:50 2.5 l/min	11:51 2.5 l/min	421 min	1052.5	computer room	17/100	0.008	SL-37
41-37-10/5-08	E.V.	6:35 3.5 l/min	9:00 3.5 l/min	145 min	1450 l.	Outside battery room	4.5/100	0.002	SL-23
41-37-10/5-09	WA	6:45 10 l/min	9:00 10 l/min	3	1350 l.	In	25.5/100	0.009	SH-32
41-37-10/5-10	WA	8:50 2.5 l/min	10:05 2.5 l/min	75 min	187.5	containment side wall of comp. room	13/100	0.034	SL-33
41-37-10/5-11	FC	12:15 10 l/min	3:31 10 l/min	196 min	1960 l.	Engineers room Around corner behind PS.	7/100	0.002	SH-2
41-37-10/5-12	FC	12:16 10 l/min	3:32 10 l/min	196 min	1960 l.	Across room from Decon	9/100	0.002	SH-8
41-37-10/5-13	FC	12:17 10 l/min	3:33 10 l/min	196 min	1960 l.	Near end of Power supply	6/100	0.002	SH-17
41-37-10/5-14	FC	12:18 10 l/min	3:34 10 l/min	196 min	1960 l.	Ahead of Decon 12'	10.5/100	0.003	SH-32

COMMENTS: Used SR-24 and SR-25 to calibrate pumps.

Key: BG – Background
EV – Environmental
WA – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

SaLUT

Soil and Land Use Technology, Inc.

003 Barkwood Court, Suite E. Linthicum, Maryland 21090

Telephone: (301) 354-2023
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:00 Arrive on site 4:20 workers enter containment, Set up Monometer set up EV pumps. Workers Fine cleaning Abatement Area others are preparing glove bag operation in Battery room

4:50 Start EV Samples

5:15 Enter Containment Start WA sample, observe Progress. out at 5:30

6:45 Start Samples on glove bag operation, Inspect Bags for leaks ect.

7:00-7:30 lunch break.

7:40 Enter Containment, inspect areas where fine cleaning is complete, inform Supervisor of problems found.

9:45 Reinspect work area, point out more problems (walls, floor)

9:05 Glove bag finished, passed air tests.

10:30 Passed final Clearance workers begin encapsulation.

11:30 Encapsulation complete

12:20 Start Final clearance cassettes

3:35 Samples all line.

4:10 All samples clear - pack up equipment

4:30 leave site.

(b) (6) [redacted]

SaLUT Industrial Hygientist

10/5/90

Date

SaLUT

Soil and Land Use Technology, Inc

003 Barkwood Courl, Suite E. Linthicum, Maryland 21090

Telephone: (301)351-2023
Fax: (301) 351-2032

EXHIBIT B

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: SL-90-41-37

Location: Sub Basement Date: 10/5/90

Removal Contractor: Marcor Time Started: 400

Monitoring Contractor: Salut Time Stopped: 4:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curteins	✓	
	c. GLOVE BAG PROJ	✓	
	d. Seals around ducts, windows and doors	✓	
	e. "Negative air machine" in use	✓	
	f. Negative pressure > .03"	✓	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)	✓	
	c. Dumpster, ducts, drums, and bags labelled	✓	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	✓	
	b. Removed Material Promptly Bagged.	✓	
	c. Debris Stored in removal area.	✓	

SoLUT

Soil arid Land Use Technology, Inc.

003 Barkwood Courl. Suile E. Linthicum, Maryland 21090,

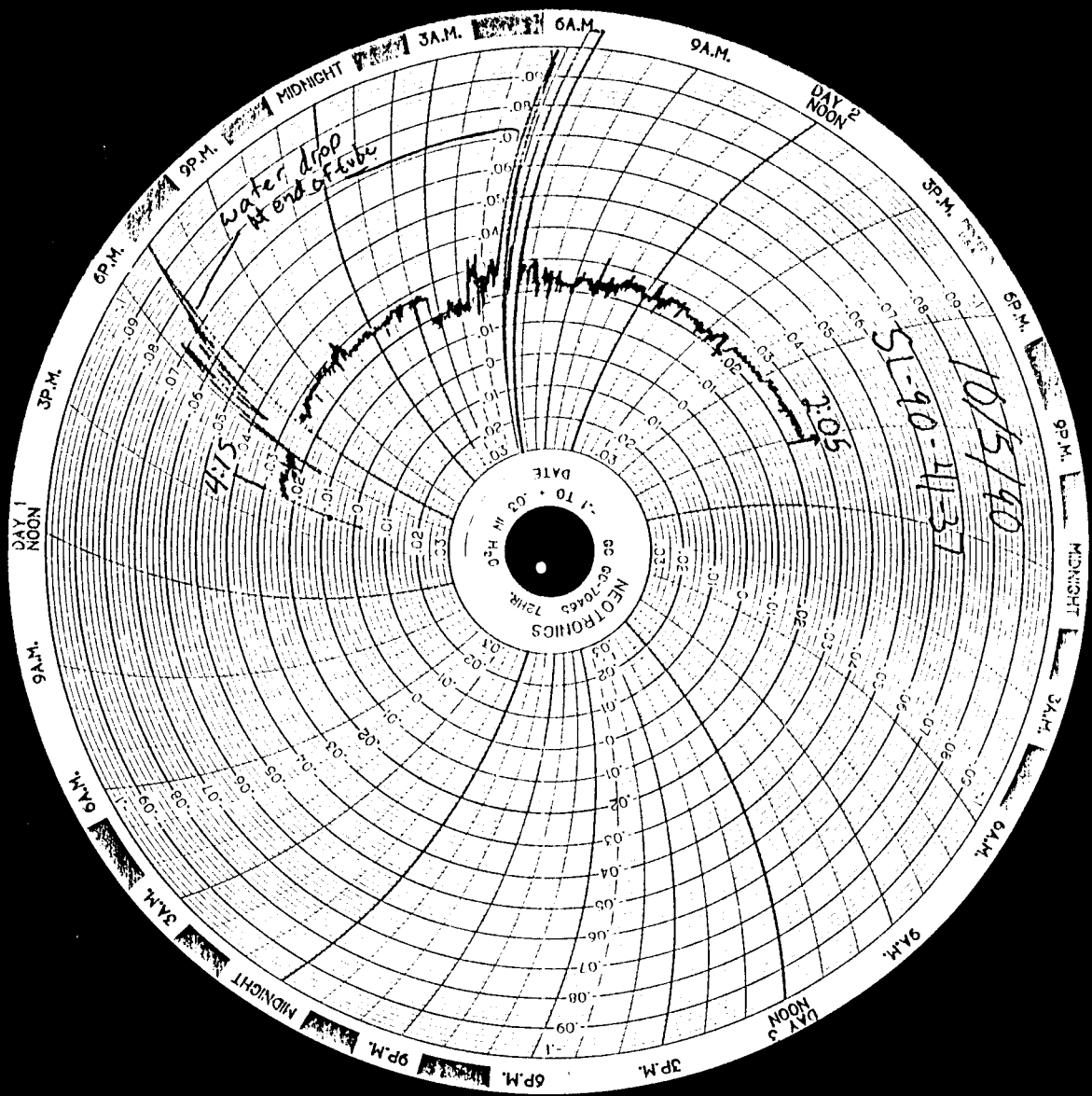
Telephone: (301) 351-2823
Fax: (301) 354-2832

ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity. to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	✓	
	e. Material Kept Wetted Until Bagged.	✓	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	✓	
	b. Proper NIOSII respirators.	Disp HEPA ✓ PAPR ✓ TYP"C"	
	c. Proper Decontamination Sequence Followed	✓	
5. Showers	a. Functioning?	✓	
	b. Soap and Towels?	✓	
	c. Used Each Departure?	✓	
6. Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating/Drinking	✓	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered-"

Report Prepared By: _____ Date: _____



6A.M.
9A.M.
DAY 2 NOON
3P.M.
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MIDNIGHT
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9A.M.
DAY 3 NOON
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6P.M.
9P.M.
MIDNIGHT
3A.M.
6A.M.
9A.M.
DAY 1 NOON
3P.M.
6P.M.
9P.M.
MIDNIGHT
3A.M.
6A.M.
water drop at end of tube
4:15
2:05
10/5/90
SL-90-41-37
NEOTRONICS
GC-70465
72HR.
DATE

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Project: SL-90-42-4

Location: Sub Basement, Engineering room Date: 10/5/90

Removal Contractor: Marcor Time Inspected: 4:00

Monitoring Contractor: Salut Time Completed: 4:30

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	✓	
	b. Horizontal Surfaces.	✓	
	c. Pipes.	✓	
	d. Ventilation Equipment.	✓	
(above eye level)	e. Horizontal surfaces.	✓	
	f. Pipes.	✓	
	g. Ductwork.	✓	
	h. Registers	✓	
	i. Lights.	✓	

SaLUT Soil and Land Use Technology, Inc

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-37-10/3-11	41- 7 3	41-37-10-3-13	41-37-10/3-14
Location:				
Volume (Liters):				
Flow rate: (Liters/Minute)	10/min	10/min	10/min	10/min
Fibers/Filter:				
Fibers/Cubic Cm:				

ANALYST ANALYZING SAMPLES: Matt Cramer DATE: 10/5/90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Had walls and floor reclaimed due to presence of residual dust.

Report Prepared By: (b) (6) [redacted] Date: 10/5/90

REPORT REVIEWED BY: _____ DATE: _____

RECEIVED 3/9/88
85569
DC000622

ENVIRONMENTAL • MEDICAL • ANALYTICAL

490 L'Enfant Plaza East, S.W.
Suite 4300
Washington, D.C. 20024
202/488-7990

Plymouth Greene Office Campus A-1
801 E. Germantown Pike
Norristown, PA 19401
215/277-4520

200 Hospital Drive
Suite LL-10
Glen Burnie, MD 21061
301/760-7560

March 8, 1988

Bulk Sampling
National Archives Building Room 410
OMC Project: #001-ARCHVS-06

PERFORMED FOR:

General Services Administration
Safety and Environmental Management
ROB Room 2034
7th and D Streets, S.W.
Washington, D.C. 20407

Contract #GS-11C-40323 Work Request #88-33-070

Attn: Roy Thomas

On February 12, 1988, OMC performed asbestos bulk sampling in Room 410 at the National Archives Building, 7th and Constitution Avenue, N.W., Washington, D.C. Samples were collected from tile and plaster on the ceiling.

The bulk samples collected were submitted to and analyzed by OMC Laboratories in accordance with the EPA's Interim Method for the Determination of Asbestos in Bulk Samples. This method employs polarized light microscopy to identify a sample's fibrous components. Sample locations and analytical results are found in the attached sheets.

Should you have any questions concerning this matter, please do not hesitate to contact this office.

Sincerely,

(b) (6) [redacted]

Randy Sadler
Industrial Hygienist

(b) (6) [redacted]

Michael A. Cecil, C.I.H.
Manager, Industrial Hygiene Services

O M C ANALYTICAL LABORATORY

LAB	CLIENT
O M C, Inc. 490 L'Enfant Plaza Suite 4300 Washington, DC 20024 (202) 488-7990	*

02/17/88 PAGE 001

POLARIZED LIGHT MICROSCOPY ANALYSIS

Sample taken on 02/12 at *

Sample Number : 001-ARCHVS-06-02/12-B001

Location: 1'5" X 1'5" TILE IN ROOM 410

ANALYSIS

APPEARANCE : Fibrous Friable Homogeneous
Color is buff

FIBROUS MATERIALS

Organic Fibers	70.0 % -	75.0 %
Fibrous Concentration is	70.0 % -	75.0 %

NON-FIBROUS MATERIALS

Adhesive Carbonate Silicates Various other materials

Non-Fibrous Concentration is	25.0 % -	30.0 %

****
* ASBESTOS CONCENTRATION IS 0% *
****

Reference : 046 RECEIVED: 02/12/88 ANALYZED: 02/15/88

Michael A. Cecil C.I.H.
LAB DIRECTOR

Analyzed By : CB (b) (6) [redacted] 2-18-88

Reviewed By : (b) (6) [redacted] 2/18/88

O M C LABORATORY IS ACCREDITED BY THE A.I.H.A.

O M C ANALYTICAL LABORATORY

LAB	CLIENT
O M C, Inc. 490 L'Enfant Plaza Suite 4300 Washington, DC 20024 (202) 488-7990	*

02/17/88 PAGE 001

POLARIZED LIGHT MICROSCOPY ANALYSIS

Sample taken on 02/12 at *

Sample Number : 001-ARCHVS-06-02/12-B002

Location: GRAY FIBEROUS TILE IN 410

ANALYSIS

APPEARANCE : Fibrous Friable Homogeneous
Color is grey

FIBROUS MATERIALS

Organic Fibers	60.0 % -	65.0 %
Fibrous Concentration is	60.0 % -	65.0 %

NON-FIBROUS MATERIALS

Adhesive Carbonate Silicates Various other materials

Non-Fibrous Concentration is	35.0 % -	40.0 %

****
* ASBESTOS CONCENTRATION IS 0% *
****

Reference : 046 RECEIVED: 02/12/88 ANALYZED: 02/15/88

Michael A. Cecil C.I.H.
LAB DIRECTOR

Analyzed By : CB [redacted] (b) (6) 2-18-88

Reviewed By : [redacted] (b) (6) 2/18/88

O M C LABORATORY IS ACCREDITED BY THE A.I.H.A.

O M C ANALYTICAL LABORATORY

LAB	CLIENT
O M C, Inc. 490 L'Enfant Plaza Suite 4300 Washington, DC 20024 (202) 488-7990	*

02/17/88 PAGE 001

POLARIZED LIGHT MICROSCOPY ANALYSIS

Sample taken on 02/12 at *

Sample Number : 001-ARCHVS-06-02/12-B003

Location: WHITE PLASTER MATERIAL ABOVE GRAY TILES IN 410

ANALYSIS

APPEARANCE : Fibrous Friable Homogeneous
Color is buff

FIBROUS MATERIALS
Organic Fibers < 1.0%

Fibrous Concentration is < 1.0%

NON-FIBROUS MATERIALS
Carbonate Silicates Various other materials

Non-Fibrous Concentration is 95.0 % - 100.0 %

****
* ASBESTOS CONCENTRATION IS 0% *
****

Reference : 046 RECEIVED: 02/12/88 ANALYZED: 02/15/88

Michael A. Cecil C.I.H.
LAB DIRECTOR

Analyzed By : CB (b) (6) [redacted] 2-18-88

Reviewed By : (b) (6) [redacted] 2/18/88

O M C LABORATORY IS ACCREDITED BY THE A.I.H.A.

FACILITY FILE
DC 000 622

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

December 27, 1989

GSA National Capital Region
Safety & Environmental Management Division (WPX)
7th & D Streets, S.W., Room 2034
Washington, D.C. 20407

Attn: Ms. Normajean Eleazer

Re: National Archives Area B-4
Washington, D.C.
SaLUT #SL89-41-4
ACT #72093430

Dear Ms. Eleazer:

In response to Order Number P1190DC9046, SaLUT, Inc. monitored asbestos abatement activities at the above-referenced project from November 14 to November 29, 1989. This report encompasses the first phase of this project.

Our services included providing hygiene services, including collection of background area samples, monitoring abatement and analyzing air samples, and a final inspection and clearance. All air samples were collected and analyzed in accordance with NIOSH Method 7400. All daily activities along with air sample results and final inspection reports are documented in the attached daily field reports.

We appreciate the opportunity to provide these services. If you have any questions or need additional information, please contact us.

Very truly yours,

Todd M. Woerner
Project Manager

SES:198
Enclosures

SaLUT

Project: National Archives Building
Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/cc
41-4-11-14-1	FB				2 Fib/100 Flds
41-4-11-14-2	FB				1.5 Fib/100 Flds
41-4-11-14-3	BG	257	771	Room B-3 (w/sink)	.01
41-4-11-15-3	BG	192	576	Center of office against N.E. corner of Room B-4	<.01
41-4-11-15-4	BG	195	585	Center of Room B-5	<.01
41-4-11-15-5	BG	198	594	Center of Room B-4	<.01

SaLUT

INITIAL INSPECTIONS

11/14 - 11/15

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Building
Job No: SL89-041-4
Name: Ron Stallard

Client: GSA
Date: 11/14/89 Time on-site: 5:00 PM to 2:00 AM
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-14-1	FB	—	—	—	—	—	2/100	—	BLANK
41-4-11-14-2	FB	~~3.0/~~	—	—	—	—	1.5/100	—	BLANK
41-4-11-14-3	BG	3.0/6:40	3.0/10:57	257	771	Rm B-3 (w/sink)	21.5/100	.01	SL-13
41-4-11-15-3	BG	3.0 / 8:52	3.0 / 8:52	192	576	CENTER OF OFFICE AGAINST NE CORNER OF RM B-4	1.5 /100	<.01	SL-12
41-4-11-15-4	BG	3.0 / 8:52	3.0 / 8:52	195	585	CENTER OF RM B-5	3.0/ 100	<.01	SL-15
41-4-11-15-5	BG	3.0/ 8:52	3.0/ 8:52	198	594	CENTER OF RM B-4	2.5 /100	<.01	SL-13

COMMENTS: Rotameter SR-7 was used to calibrate pump

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SoLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

5:00 PM - Arrived on Site and looked over areas to be abated.
5:30 - Marcor arrived on Site ; began bringing in equipment
6:40 - Background sample ran in Rm B-3 w/ Sirk.
11:00 - Background Sample finished ; workers continued prep-work for removal
12:30 - Continued prep-work
1:00 - Workers went up-into ceiling ; began pre-cleaning for glove bag removal.
2:15 - Work day finished.

(b) (6) [redacted]

11/14/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: National Archives Building Project: Rm-B-9

Location: Rm B-9 Date: 11/15/89

Removal Contractor: Marcor Time Inspected: _____

Monitoring Contractor: Salut Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	N/A	N/A
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/15/89

SaLUT

DAILY INSPECTIONS

11/15 - 11/27

SaLUT

Project: National Archives Building
Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/cc
41-4-11-15-1	FB				.5 Fib/100 Flds
41-4-11-15-2	FB				1 Fib/100 Flds
41-4-11-15-3	BG	192	576	Center of office against N.E. corner of Room B-4	<.01
41-4-11-15-4	BG	195	585	Center of Room B-5	<.01
41-4-11-15-5	BG	198	594	Center of Room B-4	<.01
41-4-11-15-6	WA	97	242.5	Center of office above N.E. corner of Rm B-4	.06
41-4-11-15-7	EV	122	305	Center of Room B-3	<.01
41-4-11-15-8	EV	122	305	Center of Room B-4	<.01
41-4-11-15-9	EV	119	297.5	Center of Room B-5	<.01
41-4-11-15-10	EV	118	295	In hall by B-4 entrance	<.01
41-4-11-15-11	EV	118	295	By microtrap exhaust	<.01
41-4-11-16-1	EV	446	1093	Near HEPA unit	<.01
41-4-11-16-2	EV	444	1110	Center of Room B-4	<.01
41-4-11-16-3	EV	441	1103	Near center of Rm B-5	<.01
41-4-11-16-4	EV	429	1051	In South Hall	<.01
41-4-11-16-5	EV	423	1058	West side of B-3	<.01
41-4-11-16-6	WA	186	465	Above Room B-3	<.01
41-4-11-16-7	WA	216	529	Above Room B-3	<.01
41-4-11-16-8	FB				1 Fib/100 Flds
41-4-11-16-9	FB				0 Fib/100 Flds
41-4-11-17-1	WA	257	643	In west side of B-4 WA	<.01
41-4-11-17-2	EV	486	1094	By HEPA filtration unit	<.01
41-4-11-17-3	EV	464	1044	In middle of B-4	<.01
41-4-11-17-4	EV	461	1153	Near center of B-5	<.01
41-4-11-17-5	EV	457	1143	In elevator hallway	<.01
41-4-11-17-6	EV	467	1168	In B-1 Mike Hutchinson's	<.01
41-4-11-17-7	WA	230	518	In west side of B-4 WA	<.01
41-4-11-17-8	FB				0 Fib/100 Flds
41-4-11-17-9	FB				0 Fib/100 Flds

SaLUT

Project: National Archives Building
Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/cc
41-4-11-20-1	WA	288	720	In B-4 work area	<.01
41-4-11-20-2	EV	575	1438	In clean room from WA	<.01
41-4-11-20-3	EV	572	1430	In M. Hutchinson's office	<.01
41-4-11-20-4	EV	568	1420	In elevator hallway	<.01
41-4-11-20-5	EV	560	1400	In B-4 on side	<.01
41-4-11-20-6	EV	549	1373	In B-5 near center	<.01
41-4-11-20-7	EV	547	1368	By HEPA unit	<.01
41-4-11-20-8	FB				.5 Fib/100 Flds
41-4-11-20-9	FB				0 Fib/100 Flds
41-4-11-20-10	WA	291	728	In B-4 work area	<.01
41-4-11-21-1	EV	548	1370	In clean room of WA	<.01
41-4-11-21-2	EV	546	1365	In elevator hallway	<.01
41-4-11-21-3	EV	535	1338	In B-4 center of room	<.01
41-4-11-21-4	EV	525	1313	In B-5 near center of rm	<.01
41-4-11-21-5	EV	516	1290	Near negative pres. unit	<.01
41-4-11-21-6	EV	515	1288	In M. Hutchinson's office	<.01
41-4-11-21-7	WA	161	403	In B-4 work area	.016
41-4-11-21-8	FB				0 Fib/100 Flds
41-4-11-21-9	FB				.5 Fib/100 Flds
41-4-11-27-1	FB				2.5 Fib/100 Flds
41-4-11-27-2	FB				1.5 Fib/100 Flds
41-4-11-27-3	WA	160	400	Above ceiling in Room B-5	<.01
41-4-11-27-4	EV	166	415	In south hallway by entrance to B-4	<.01
41-4-11-27-5	EV	166	415	By microtrap exhaust	<.01
41-4-11-27-6	EV	167	417.5	B-3 (Decon room)	<.01
41-4-11-27-7	EV	166	415	Room B-5	<.01
41-4-11-27-8	EV	167	417.5	Office by right hand corner of Room B-4	<.01
41-4-11-27-9	WA	56	140	4-E stairwell	.01
41-4-11-27-10	EV	56	140	4-E stairwell	<.01
41-4-11-27-11	FC	300	3000	4-E stairwell	<.01

SaLUT

Project: National Archives Building
Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/cc
41-4-11-27-9	WA	56	140	4-E Stairwell	.01
41-4-11-27-10	EV	56	140	4-E Stairwell	<.01
41-4-11-27-11	FC	300	3000	4-E Stairwell	<.01

SaLUT Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg.
Job No: SL89-041-4
Name: Ron Stallard

Client: GSA
Date: 11/15/89 Time on-site: 5:00PM to 2:00 am
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-15-1	FB	—	—	—	—	—	.5/100	—	BLANK
41-4-11-15-2	FB	—	—	—	—	—	1/100	—	BLANK
41-4-11-15-3	BG	3.0/5:40	3.0/8:52	192	576	center of office against NE Corner of Rm B-4	1.5/100	<.01	SL-12
41-4-11-15-4	BG	3.0/5:37	3.0/8:52	195	585	center of Rm B-5	3/100	<.01	SL-15
41-4-11-15-5	BG	3.0/5:39	3.0/8:52	198	594	center of Rm B-4	2.5/100	<.01	SL-13
41-4-11-15-6	WA	2.5/12:24	2.5/2:01	97	242.5	Center of office above NE corner of Rm B-4	33/100	.06	SL-4
41-4-11-15-7	EV	2.5/12:08	2.5/2:10	122	305	Center of [redacted] of Rm B-3	3/100	<.01	SL-12
41-4-11-15-8	EV	2.5/12:08	2.5/2:10	122	305	center of Rm B-4	1/100	<.01	SL-13
41-4-11-15-9	EV	2.5/12:10	2.5/2:09	119	297.5	center of Rm B-5	1.5/100	<.01	SH-3
41-4-11-15-10	EV	2.5/12:10	2.5/2:08	118	295	In Hall by B-4 Entrance	.5/100	<.01	SL-15
41-4-11-15-11	EV	2.5/12:10	2.5/2:08	118	295	By Microtrap Exhaust	1.5/100	<.01	SH-16

COMMENTS: Rotometers SR-7 & SR-9 was used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

5:00 pm - arrived on site
5:30 - 4 Workers arrived and began continued prepping of work area i.e. hooking up micro-trap; sealing off rest of vents.
7:30 - continued pre-cleaning of work area in preparation for glove-bagging
8:30 - Lunch
9:30 - Continued pre-cleaning of work area
11:30 - Break
12:00 - Workers began hanging glove-bags; removing (Random smoketests were given)
1:30 - Continued glove-bag removal above ceiling over Rm B-3
2:15 - Work day done

(b) (6) [redacted]

11/15/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: Rm B-4

Location: Rm B-4 Date: 11/15/89

Removal Contractor: Marcor Time Started: 12:00 AM

Monitoring Contractor: Salut Time Stopped: 2:15 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/15/89

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg.
Client: GSA
Job No: SL-89-041-4
Date: 11-16-89 Time on-site: 1830 to 0247
Name: Randy Gordon
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-16-1	EV	1855 /2.5	0221 /2.4	446	1093	near ~~Negative Pres.~~ HEPA unit	2/100	< 0.01	SL-13
41-4-11-16-2	EV	1859 /2.5	0223 /2.5	444	1110	center of rm B-4	0.5/100	< 0.01	SL-4
41-4-11-16-3	EV	1905 /2.5	0226 /2.5	441	1103	near center of rm B-5	0/100	< 0.01	SL-15
41-4-11-16-4	EV	1918 /2.5	0227 /2.4	429	1051	in South Hall	2/100	< 0.01	SL-12
41-4-11-16-5	EV	1927 /2.5	0230 /2.5	423	1058	westside of B-3	2.5/100	< 0.01	SL-7
41-4-11-16-6	WA	1936 /2.5	2242 /2.5	186	465	above rm B-3	2.5/100	< 0.01	SL-17
41-4-11-16-7	WA	2242 /2.5	0218 /2.4	216	529	above rm B-3	4/100	< 0.01	SL-17
41-4-11-16-8	FB	—	—	—	—	—	1/100	—	—
41-4-11-16-9	FB	—	—	—	—	—	0/100	—	—

COMMENTS: Pumps calibrated before and after use with SR-7 calibration rotometer.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

I arrived at 1835.

1850 - Samples were being initiated

1930 - I inspected the work area and observed removal (glove bag) technique until 2025.
I noted that some ducts were covered with cork insulation and that the work space is very restricted. The work area samples may reflect this ~~area~~ area by having a higher fiber concentration than the environmental samples being collected simultaneously.

2130 - Mr. Tim Edwards of the National Archives Facilities Dept. inspected the area and took two photos of the work in progress. His inspection ended around 2300 hours.

2240 - I checked the sampling pumps and changed the filter for the work area sample. Work is continuing.

0215 - Work has concluded for the day (11-16/17-89)

(b) (6) [redacted]

11-16-89
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: Rm B-4

Location: Rm B-4, overhead Date: 11-16-89

Removal Contractor: Marcor Time Started: 1800

Monitoring Contractor: Salut Time Stopped: 0215

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	~~Disp~~	
		½ Face HEPA /	
		PAPR	
		TYP "C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11-16-89

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg.
Job No: SL-89-041-4
Name: Randy Gordon

Client: GSA
Date: 11-17-89 Time on-site: 1700 to 0300
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-17-1	WA	1803 /2.5	2220 /2.5	257	643	in W. Side of B-4 WA	9 /100	<0.01	SL-4
41-4-11-17-2	EV	1806 /2.5	0212 /2.0	486	1094	by HEPA filtration unit	—0 /100	<0.01	SL-13
41-4-11-17-3	EV	1830 /2.5	0214 /2.0	464	1044	in middle of B-4	0.5 /100	<0.01	SL-15
41-4-11-17-4	EV	1835 /2.5	0216 /2.5	461	1153	near center of B-5	—0 /100	<0.01	SL-17
41-4-11-17-5	EV	1837 /2.5	0214 /2.5	457	1143	in elevator hallway	1.5 /100	<0.01	SH-7
41-4-11-17-6	EV	1840 /2.5	0227 /2.5	467	1168	in B-1 in Mike Hutchesons	0.5 /100	<0.01	SH-16
41-4-11-17-7	WA	2220 /2.5	0210 /2.0	230	518	in W. Side of B-4 WA	7.5 /100	<0.01	SL-4
41-4-11-17-8	FB	—	—	—	—	—	—0 /100	—	—
41-4-11-17-9	FB	—	—	—	—	—	—0 /100	—	—

COMMENTS: Pumps Calibrated before and after use with rotameter #SR-7

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

1700 - I arrived on site

1800 - Marcor crew had arrived

1830 - Work is beginning for 11-17-89. Plywood sheets have been taken into the work area to cover the exposed upper ~~side~~ surface of the suspended ceiling. The sheeting was passed through a ceiling access panel in room B-4. The panel was then resealed with tape and polyethylene before work began. Mr. Tim Edwards is going to leave the building at 2000 hrs. He has given me his beeper # and the home and work phone numbers for the COR, Jerry Misko.

2200-2330 I entered the work area to change the work area sample filter, take photographs of the work area and to observe Marcor's work practices. Seven photographs were taken for Tim Edwards of the National Archives (with a camera provided by him).

0130 - The Marcor foreman moved the unused plywood sheets from room B-4 below the work area.

0230 The removal company employees have left after confirming the start-up time for 11-20-89 as 1600 hours. Mr. Jerry Pickerel will be the Archives' representative in Tim Edwards' absence. The tentative completion date is expected, by Marcor, to be on or before 11-29-89.

0300 I have left the job site for the day. Work will resume on monday 11-20-89.

(b) (6) [redacted]

11-17-89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: rm B-4

Location: B-4 work area Date: 11-17-89

Removal Contractor: Marcor Time Started: 1830

Monitoring Contractor: Salut Time Stopped: 0210

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	~~Disp~~	
		½ face HEPA ✓	
		PAPR	
		TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11-17-89

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg.
Client: GSA
Job No: SL-89-041-4
Date: 11-20-89 Time on-site: 1600 to 0300
Name: Randy Gordon
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-20-1	WA	1659 / 2.5	2147 / 2.5	288	720	in B-4 work area	5/100	< 0.01	SL-17
41-4-11-20-2	EV	1703 / 2.5	0238 / 2.5	575	1438	in clean room from WA	5/100	< 0.01	SL-12
41-4-11-20-3	EV	1710 / 2.5	0242 / 2.5	572	1430	in M. Hutchinson's office	2.5/100	< 0.01	SL-4
41-4-11-20-4	EV	1716 / 2.5	0244 / 2.5	568	1420	in elevator hallway	1.5/100	< 0.01	SH-16
41-4-11-20-5	EV	1725 / 2.5	0245 / 2.5	560	1400	in B-4 on side	0.5/100	< 0.01	SH-7
41-4-11-20-6	EV	1739 / 2.5	0248 / 2.5	549	1373	in B-5 near center	3/100	< 0.01	SL-15
41-4-11-20-7	EV	1742 / 2.5	0249 / 2.5	547	1368	by HEPA unit	0/100	< 0.01	SL-13
41-4-11-20-8	FB	—	—	—	—	—	0.5/100	—	—
41-4-11-20-9	FB	—	—	—	—	—	0/100	—	—
41-4-11-20-10	WA	2147 / 2.5	0238 / 2.5	291	728	in B-4 work area	12.5/100	< 0.01	SL-17

COMMENTS:

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg Project: rm-B-4

Location: B-4 work area Date: 11-20-89

Removal Contractor: Marcor Time Started: 1700

Monitoring Contractor: Salut Time Stopped: 0230

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	NA	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	~~Disp~~	
		½ face HEPA ✓	
		PAPR	
		TYP "C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11-20-89

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

1600 I arrived on site. The Marcor workers were already on site and were covering all of the furniture and equipment in room B-3, B-4, ~~or~~ B-5 and the adjoining office spaces with plastic sheeting. The ceiling has cracks in some places and Robert Menoche of the National Archives, Mech. Contract Insp. wished to protect the equipment and furniture from ~~and~~ any dust and debris that might fall from the ceiling during work activities. I spoke with concerning the strong possibility of asbestos being present in both a fume hood and a hydraulic press used in ~~B-5~~ B-4.

1700 - Work began

2130 - I went into the area to change the work area filter and observe the work in progress. The gross removal has been completed and the workers are vacuuming up any loose ACM debris left from previous renovations and installations.

~ 2300 - I left work area

0230 - Marcor ceased activities for 11-20-89.

0300 - I left the site for the day.

(b) (6) [redacted]

11-20-89

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg.
Job No: SL-89-041-4
Name: Randy Gordon

Client: GSA
Date: ~~11-20-89~~ 11-21-89 Time on-site: 1600 to 0230
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-21-1	EV	1715 /2.5	0223 /2.5	548	~~1365~~ 1370	in clean room & WA	5 /100	<0.01	SL-12
41-4-11-21-2	EV	1718 /2.5	0224 /2.5	546	1365	in elevator hallway	0.5/100	<0.01	SL-7
41-4-11-21-3	EV	1725/2.5	0220 /2.5	535	1338	in B-4 center grm	0.5 /100	<0.01	SL-17
41-4-11-21-4	EV	1734 /2.5	0219 /2.5	525	1313	in B-5, near center grm	1 /100	<0.01	SL-16
41-4-11-21-5	EV	1741 /2.5	0217 /2.5	516	1290	near Negative Pres. unit	0 /100	<0.01	SL-4
41-4-11-21-6	EV	1750 /2.5	0225 /2.5	515	1288	in M. Hutchinson's office	1.5 /100	<0.01	SL-13
41-4-11-21-7	WA	~~2246~~ 2095 /2.5	2246 /2.5	161	403	in B-4 work area	13 /100	0.016	SL-15
41-4-11-21-8	FB	—						—	—
41-4-11-21-9	FB	—						—	—
41-4-11-21-10	WA	2246 /2.5	0215 /2.5	209	523	in B-4 work area	/100		SL-15

COMMENTS: Sample pumps calibrated before and after use with rotometer SR#7.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

1600- I arrived on site. The Marcor crew had arrived and were beginning to recover the equipment and furniture with polyethylene in the same areas as on 11-20-89.

1700- Work has begun

1730- bagging out (removing the sealed, double-bagged waste materials from the enclosure)
The Marcor foreman is looking for a large HEPA unit that was relocated by the Archives' staff since 11-20-89.

2005 Work area ~~samples were started~~ sample was started. Robert Menoche has asked Marcor to take the measurements of the pipes to be reinsulated. Marcor is to reinsulate the areas that have be removed from. The encapsulation will be done with Foster's 32-60 after final cleaning has be completed and approved.

0215 - Work has stopped for today (11-21-89). 176 bags of waste have been removed and loaded onto Marcor's truck, which arrived at ~ 2000.

(b) (6) [redacted]

11-21-89
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: rm B-4

Location: Room B-4 work area Date: 11-21-89

Removal Contractor: Marcor Time Started: ~1700

Monitoring Contractor: Salut Time Stopped: 0215

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	N/a	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	~~Disp~~	
	½ face	HEPA ✓	
		PAPR	
		TYP "C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 8-21-89

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg.
Job No: SL89-041-4
Name: Ron Stallard

Client: GSA
Date: 11/27/89 Time on-site: 4:00 PM to 7:30
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-27-1	FB	—	—	—	—	—	2.5/100	—	BLANK
41-4-11-27-2	FB	—	—	—	—	—	1.5/100	—	BLANK
41-4-11-27-3	WA	2.5/6:43	2.5/9:23	160	400	Above Ceiling in Rm B-5	5/100	<.01	#4
41-4-11-27-4	EV	2.5/6:44	2.5/9:30	166	415	In S. Hallway by Entrance to B-4	3/100	<.01	SL-12
41-4-11-27-5	EV	2.5/6:44	2.5/9:30	166	415	by Microtrap Exhaust	1.5/100	<.01	SL-13
41-4-11-27-6	EV	2.5/6:44	2.5/9:31	167	417.5	B-3 (Decon Room)	3/100	<.01	SL-15
41-4-11-27-7	EV	2.5/6:45	2.5/9:31	166	415	Rm B-5	1/100	<.01	SL-17
41-4-11-27-8	EV	2.5/6:45	2.5/9:32	167	417.5	office by Right Hand-corner of Rm B-4	2.5/100	<.01	SH-7
41-4-11-27-9	WA	2.5/9:54	2.5/10:50	56	140	4-E Stair well	3.5/100	.01	SL-12
41-4-11-27-10	EV	2.5/9:54	2.5/10:50	56	140	4-E Stair well	1/100	<.01	SL-13
41-4-11-27-11	FC	10/11:00	10/12:20	300	3000	4-E Stair well	2/100	<.01	SH-7

Also See Other 11/27/89 Exhibit for Report for Abatement Activities

COMMENTS: Rotometer SR-7 was used to calibrate pumps
Rotometer SR-9 was used also

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:00 - Arrived on Site ; examined critical barriers
4:30 - 3-Marcor workers arrived on site
5:00 - examined other areas of Bldg. for future removal.
6:00 - 1 other Marcor workers arrived on-site ; began to cover all tables ; desks in lab area ; offices in B-4 area to prevent ceiling plaster from dirtying desks ; tables.
6:45 - Workers began removal of debris above Rm - B-5, glove removal also performed. [8:00 - 8:30 break]
9:30 - Workers finished w/ all removal ; final clean-up above Rm B-4 final visual was given and it was ok to encapsulate. Also @ this time 2-workers constructed a containment on 4-E Stairwell.
10:00 - Workers began emergency removal on 4-E Stairwell which consisted of appx. 3 linear ft. of ACM piping. Also 2-workers began encapsulating Ceiling of Rm B-4.
10:50 - 4-E Stair-well completed ; final visual given ; O.K. was given to encapsulate. all waste taken away (3-bags). 1-worker encapsulated at this time.
11:00 - Break.
11:30 - Continued encapsulation on B-4 ceiling
2:20 - final samples finished in 4-E stairwell ; O.K. to tear down Containment
2:30 - Work day Done

(b) (6) [redacted]

11/27/89
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: Rm-B4

Location: Rm B-4 Date: 11/22/89

Removal Contractor: Marcor Time Started: 4:00 PM

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/27/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Bldg. Project: Rm B-4 (ceiling)

Location: B-4 (ceiling) Date: 11/27/89

Removal Contractor: Marcor Time Inspected: 9:30

Monitoring Contractor: Salut Time Completed: 10:00

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-4-11-28-3	41-4-11-28-4	41-4-11-28-5	41-4-11-28-6	
Location:	Above Rm B-5	Above Rm B-4	Above Rm B-4	Above Rm B-3	
Volume (Liters):	2150 [redacted]	2170 [redacted]	2000	2050	
Flow rate: (Liters/Minute)	10(l/m)	10(l/m)	10(l/m)	10(l/m)	
Fibers/Filter:	2/100	1/100	2.5/100	1/100	
Fibers/Cubic Cm:	<.01	<.01	<.01	<.01	

ANALYST ANALYZING SAMPLES: (b) (6) [redacted] DATE: 11/28/89

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/28/89

REPORT REVIEWED BY: (b) (6) [redacted] DATE: 12/26/89

SaLUT

DAILY & FINAL INSPECTION

STAIRWELL 4-E

11/27

SaLUT Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (4E-Stairwell)
Client: GSA
Job No: SL89-041-4
Date: 11/27/89 Time on-site: 10:00 to 11:00
Name: Ron Stallard
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-27-9	WA	2.5/9:54	2.5/10:50	56	140	4E-Stairwell	3.5/100	.01	SL-12
41-4-11-27-10	EV	2.5/9:54	2.5/10:50	56	140	4E-Stairwell	1/100	<.01	SL-13
41-4-11-27-11	FC	10/11:00	10/2:20	300	3000	4E-Stairwell	2/100	<.01	SH-7

COMMENTS: Rotometers SR-7 & SR-9 were used to calibrate pumps.
* See other 11/27/89 Report for field blank information

Key: BG - Background EV - Environmental WA - Work Area FC - Final clearance PS - Personal FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

9:30- 2-workers constructed containment in 4-E Stairwell
10:00- workers began gross removal in 4E-Stairwell (appo 3-4 linear ft. of Cal. Mg. piping insulation)
10:50- gross removal complete in 4E Stairwell. final visual given @ this time & OK was given to encapsulate.
11:00- final clearence Samples began in 4-E Stairwell
2:20- final clearence samples finished in 4-E Stairwell. samples were read & OK to tear down containment.
7:30- Work Day Done

(b) (6) [redacted]

11/27/89
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: 4E-Stairwell

Location: 4E-stairwell Date: 11/27/89

Removal Contractor: Marcor Time Started: 10:00

Monitoring Contractor: Salut Time Stopped: 10:50

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	N/A	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?		
	b. Soap and Towels?	N/A	
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/27/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Bldg (4E-Stairwell) Project: 4-E Stairwell

Location: 4-E Stair Well Date: 11/27/89

Removal Contractor: Marcor Time Inspected: 10:55

Monitoring Contractor: Salut Time Completed: 11:00

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	N/A	
	i. Lights.	N/A	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-4-11-27-11				
Location:	4-E Stairwell				
Volume (Liters):	1960(l)				
Flow rate: (Liters/Minute)	10(l/m)				
Fibers/Filter:	2/100				
Fibers/Cubic Cm:	<.01				

ANALYST ANALYZING SAMPLES: Ron Stallard DATE: 11/27/89

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

This additional work was done at the request of Tim Edwards. Due to smallness and short duration of this project only one final clearence sample was taken.

Report Prepared By: (b) (6) [redacted] Date: 11/27/89

REPORT REVIEWED BY: _____ DATE: _____

SaLUT

DAILY & FINAL INSPECTION

ROOM B-4

ABOVE & BELOW CEILING

11/28

SaLUT

Project: National Archives Building
Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/cc
41-4-11-28-1	FB				1.5 Fib/100 Flds
41-4-11-28-2	FB				2 Fib/100 Flds
41-4-11-28-3	FC	215	2150	Above Room B-5	<.01
41-4-11-28-4	FC	217	2170	Above Room B-4 (left corner)	<.01
41-4-11-28-5	FC	200	2000	Above Room B-4 (lower right corner)	<.01
41-4-11-28-6	FC	205	2050	Above Room B-3	<.01
41-4-11-28-7	WA	177	442.5	Dark room	<.01
41-4-11-28-8	WA	70	175	Storage room	<.01
41-4-11-28-9	WA	180	450	M. Hutchinson's office	<.01
41-4-11-28-10	EV	177	442.5	Outside dark room	<.01
41-4-11-28-11	EV	71	177.5	Outside storage room	<.01
41-4-11-28-12	EV	180	450	Outside M. Hutchinson's office	<.01
41-4-11-28-13	FC	209	2090	Dark room	<.01
41-4-11-28-14	FC	205	2050	Storage room	<.01
41-4-11-28-15	FC	210	2100	M. Hutchinson's room	<.01
41-4-11-28-17	WA	35	87.5	Room B-4	<.01
41-4-11-28-18	WA	30	75	Room B-5	.01
41-4-11-28-19	EV	84	210	Outside Room B-4	<.01
41-4-11-28-20	EV	60	150	South hallway	<.01
41-4-11-28-21	EV	75	187.5	S. Bechtold's office	<.01
41-4-11-28-22	FC	200	2000	Mr. Flores' office	<.01
41-4-11-28-23	FC	200	2000	Room B-4	<.01
41-4-11-28-24	FC	200	2000	Room B05	<.01

SaLUT Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

(finals for B-4-Ceiling on this Report)

Project: National Archives Bldg. (Rm B-4) **Client:** GSA
Job No: SL89-041-4 **Date:** 11/28/89 **Time on-site:** 4:15 to 2:30
Name: Ron Stallard **Analyzed On-site:** / **Laboratory:**

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-28-1	FB	—	—	—	—	—	1.5/100	—	BLANK
41-4-11-28-2	FB	—	—	—	—	—	2/100	—	BLANK
41-4-11-28-3	FC	10/4:35	10/8:00	215	2150	Above Rm B-5	2/100	<.01	SH-7
41-4-11-28-4	FC	10/4:37	10/8:00	217	2170	Above Rm B-4 (left Corner)	1/100	<.01	SH-3
41-4-11-28-5	FC	10/4:43	10/8:03	200	2000	Above Rm B-4 (Lower Right corner)	2.5/100	<.01	SH-11
41-4-11-28-6	FC	10/4:45	10/8:10	205	2050	Above Rm B-3	1/100	<.01	SH-13
41-4-11-28-7	WA	2.5/6:50	2.5/9:47	177	442.5	Dark Rm	5/100	<.01	SL-11
41-4-11-28-8	WA	2.5/6:50	2.5/8:00	70	175	Storage Rm	3.5/100	<.01	SL-12
41-4-11-28-9	WA	2.5/6:51	2.5/9:51	180	450	Mike Hutchinsons office	2/100	<.01	SL-13
41-4-11-28-10	EV	2.5/6:50	2.5/9:47	177	442.5	Outside Dark Rm	3.5/100	<.01	SL-14
41-4-11-28-11	EV	2.5/6:49	2.5/8:00	71	177.5	outside Storage Rm	1/100	<.01	SL-17
41-4-11-28-12	EV	2.5/6:51	2.5/9:51	180	450	outside M. Hutchinsons office	2.5/100	<.01	SH-16
41-4-11-28-13	FC	10/9:51	10/1:20	209	2090	Dark Rm	3/100	<.01	SH-11
41-4-11-28-14	FC	10/8:20	10/11:45	205	2050	Storage Rm	2.5/100	<.01	SH-7
41-4-11-28-15	FC	10/10:00	10/1:30	210	2100	Mr. Hutchinsons Rm	1.5/100	<.01	SH-13
41-4-11-28-16	WA	2.5/8:25	2.5/9:47	82	205	Mr. Flores office	1.5/100	<.01	SL-11

finals for B-4 Ceiling

finals for A Area Below Ceiling

COMMENTS: Rotometers SR-7 & SR-9 were used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (Rm B-4 Area)
Job No: SL89-041-4
Name: Ron Stallard

Client: GSA
Date: 11/28/89 Time on-site: 4:15 to
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-28-17	WA	7.5/10:00	7.5/10:35	35	87.5	Rm B-4	1.5/100	<.01	SL-12
41-4-11-28-18	WA	7.5/10:15	7.5/10:45	30	75	Rm B-5	2/100	<.01	SL-13
41-4-11-28-19	EV	7.5/8:26	7.5/9:50	84	210	Outside Rm B-4	1/100	<.01	SL-13
41-4-11-28-20	EV	7.5/9:45	7.5/10:45	60	150	South Hallway	2.5/100	<.01	SL-14
41-4-11-28-21	EV	7.5/9:45	7.5/11:00	75	187.5	Sue Bechtolds office	1.5/100	<.01	SH-16
41-4-11-28-22	FC	10/9:55	10/1:15	200	2000	Mr. Flores office	2/100	<.01	SH-11 } Finals for B-4 Area Below ceiling
41-4-11-28-23	FC	10/10:55	10/2:15	200	2000	Rm. B-4	3/100	<.01	SH-7 }
41-4-11-28-24	FC	10/11:00	10/2:20	200	2000	Rm. B-5	3.5/100	<.01	SH-13 }

COMMENTS: Rotometers SR-7 & SR-9 were used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:15 - arrived on site ; began placing pumps in ceiling of Rm B-4 for final clearence samples.

5:30 - 2 - Marco workers arrived on site and began setting up for glove-bagging for Rm B-4. i.e putting up critical barriers

6:45 - 4 - workers completed hanging critical barriers in B-4 area (Dark Rm, Storage Rm ; M. Hutchinson's office) ; began glove bagging in each of these rooms.

8:00 - Storage Room glove-bagging complete ; inspected so final air test began. Continued removal in Dark Rm ; M. Hutchinson's office (also B-4 ceiling finals done read ok to tear down decon)

8:30 - Break

8:15 - 1 - worker began glove-bagging in R. flores office.

9:45 - M. flores office finished, inspected ; final clearence started

11:00 - all rooms finished of glove bagging, all rooms inspected ; finals ran. all rooms for glove bagging include (Dark room, Storage room, M. Hutchinson Room, Rm B-5, Rm B-4, Mr. flores office) Workers took break @ this time

11:30 - Workers began tearing down decon in B-4 ceiling area.

2:00 - All finals finished in B-4 above & below ceiling ; permission to take down containment

7:30 - Work Day done

(b) (6) [redacted]

11/28/89
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: B-4

Location: Rm B-4 (Below ceiling various offices) Date: 11/28/89

Removal Contractor: Marco Time Started: _____

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	N/A	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection			
	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ✓ HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	N/A	
	b. Soap and Towels?	N/A	
	c. Used Each Departure?	N/A	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/28/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Bldg. Project: Rm B-4 Area (Below ceiling)

Location: B-4 Area (Dark Rm, Storage Rm, & M. Hutchinsons Office) Date: 11/28/89

[* Also Rooms B-4, B-5, & R. Flores office]

Removal Contractor: Marcor Time Inspected: _____

Monitoring Contractor: Salut Time Completed: _____

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-4-11-28-13	41-4-11-28-14	41-4-11-28-15	41-4-11-28-22	41-4-11-28-23	41-4-11-28-24
Location:	Dark Rm	Storage Rm	M. Hutchinson Rm	M. Flores office	Rm B-4	Rm-B5
Volume (Liters):	2090	2050	2100	2000	2000	2000
Flow rate: (Liters/Minute)	10(l/m)	10(l/m)	10(l/m)	10(l/m)	10(l/m)	10(l/m)
Fibers/Filter:	3/100	2.5/100	1.5/100	2/100	3/100	3.5/100
Fibers/Cubic Cm:	<.01	<.01	<.01	<.01	<.01	<.01

ANALYST ANALYZING SAMPLES: Fran Stallard DATE: 11/28/89

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Due to size of each different room on this project, only one final clearance sample was taken in each room.

Report Prepared By: (b) (6) [redacted] Date: 11/28/89

REPORT REVIEWED BY: _____ DATE: _____

SaLUT

DAILY & FINAL INSPECTION

B-4 AREA

11/29

SaLUT

Project: National Archives Building
Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/cc
41-4-11-29-1	FB				0 Fib/100 Flds
41-4-11-29-1	FB				1 Fib/100 Flds
41-4-11-29-3	WA	47	117.5	Dark room	<.01
41-4-11-29-4	WA	42	105	Room B-3	.016
41-4-11-29-5	EV	50	125	Outside dark room	<.01
41-4-11-29-6	EV	50	125	Outside Room B-3	<.01
41-4-11-29-7	FC	200	2000	Dark room	<.01
41-4-11-29-8	FC	200	2000	Room B-3	<.01
41-4-11-29-1	FB				0 Fib/100 Flds
41-4-11-29-2	FB				1 Fib/100 Flds
41-4-11-29-3	WA	197	492.5	Men's Room (9-E)	.01
41-9-11-29-4	EV	192	480	Hall outside Men's Room (9-E)	<.01
41-4-11-29-5	FC	207	2070	Men's Room (9-E)	<.01

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (B-4 Area)
Job No: SL89-041-4
Name: Ron Stallard

Client: GSA
Date: 11/29/89 **Time on-site:** 4:45 **to** 7:30
Analyzed On-site: / **Laboratory:**

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-79-1	FB	—	—	—	—	—	0/100	—	BLANK
41-4-11-79-2	FB	—	—	—	—	—	1/100	—	BLANK
41-4-11-79-3	WA	2.5/6:03	2.5/6:50	47	117.5	Dark Rm	2/100	<.01	SL-19
41-4-11-79-4	WA	2.5/6:03	2.5/6:45	42	105	Rm B-3	3.5/100	.016	SL-11
41-4-11-79-5	EV	2.5/6:02	2.5/6:52	50	125	outside Dark Rm	2.5/100	<.01	SL-12
41-4-11-79-6	EV	2.5/6:02	2.5/6:52	50	125	outside Rm B-3	1.5/100	<.01	SL-13
41-4-11-79-7	FC	10/7:00	10/10:20	200	2000	Dark Rm	3/100	<.01	SH-15
41-4-11-79-8	FC	10/7:00	10/10:20	200	2000	Rm B-3	8.5/100	<.01	SH-4

COMMENTS: Rotometers SR-7 & SR-9 were used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:45 - arrived on site ; looked over sub-basement project.
5:15 - 2 - Marcor workers arrived on site
5:30 - 2 - other Marcor workers arrived on site
6:00 - Workers began setting up glove-bags in B-3 ; Dark Rm.
6:45 - Glove bagging complete in B-3, final visual given and final air sample began.
6:50 - Glove bagging in Dark Rm complete, final visual given ; final air sample began.
10:30 - All finals finished ; OK to tear down containment
11:00 - All work in B-4 area complete

(b) (6) [redacted]

11/29/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: B-1 area

Location: Dark Rm i Rm B-3 Date: 11/29/89

Removal Contractor: Marco Time Started: 6:00 PM

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	N/A	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____ HEPA yes PAPR ____ TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	N/A	
	b. Soap and Towels?	N/A	
	c. Used Each Departure?	N/A	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Due to short duration of glove-bagging on this project, only 2-environmental samples were taken and 2-final clearence samples as well (1-final clearence sample per room)

Report Prepared By: (b) (6) [redacted] Date: 11/29/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Bldg. (B-9 area) Project: RM B-9 area (Dark Rm, Rm B-3)

Location: Dark Rm, Rm B-3 Date: ~~11/28/89~~ 11/29/89

Removal Contractor: Marcor Time Inspected: 6:45

Monitoring Contractor: Salut Time Completed: 7:00

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-4-11-29-8	41-4-11-29-7			
Location:	Dark Rm	Rm B-3			
Volume (Liters):	2000	2000			
Flow rate: (Liters/Minute)	10 (l/m)	10 (l/m)			
Fibers/Filter:	1.5/100	3/100			
Fibers/Cubic Cm:	<.01	<.01			

ANALYST ANALYZING SAMPLES: Ron Stallard DATE: 11/29/89

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Due to smallness of each Room, only one final air sample was taken in each Room.

Report Prepared By: (b) (6) [redacted] Date: 11/29/89

REPORT REVIEWED BY: _____ DATE: _____

SaLUT

DAILY & FINAL INSPECTION

9-E MEN'S ROOM

11/29

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (9E - Mens Rm)
Job No: SL89-041-A
Name: Ron Stallard

Client: GSA
Date: 11/29/89 **Time on-site:** 4:45 **to** 7:30
Analyzed On-site: ✓ **Laboratory:**

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
9E 41-9-11-29-1	FB	—	—	—	—	—	0/100	—	BLANK
9E 41-9-11-29-2	FB	—	—	—	—	—	1/100	—	BLANK
9E 41-9-11-29-3	WA	7.5/6:30	7.5/9:47	197	492.5	Mens Rm (9E)	12.5/100	.01	SL-17
9E 41-9-11-29-4	EV	7.5/6:30	7.5/9:42	192	480	Hall outside Mens Rm (9E)	4.5/100	<.01	SH-4
9E 41-9-11-29-5	FC	10/10:18	10/1:45	207	2070	Mens Rm (9E)	7.5/100	<.01	SH-9

COMMENTS: Rotometers SR-9 & SR-7 were used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:15 - 7 Workers began setting up for removal in plumbing access hole in mens stall.

8:00 - Break

8:30 - Continued removal on pipes (glove bagging)

10:00 - Work completed ; final visual given. Also final air sample taken at this time

1:55 - final sample read ; OK to tear down containment.

(b) (6) [redacted]

Salut Asbestos Technician

11/29/89

Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: QE -Mens Rm

Location: QE MENS Room Date: 11/29/89

Removal Contractor: Marcor Time Started: 9:45

Monitoring Contractor: Salut Time Stopped: 2:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	N/A	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____ HEPA yes PAPR ____ TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	N/A	
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Due to size of room, only one final sample was taken.

Report Prepared By: (b) (6) [redacted] Date: 11/29/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Bldg. Project: 9E-Mens Room

Location: 9E-Mens Room Date: 11/29/89

Removal Contractor: Marcor Time Inspected: 10:00

Monitoring Contractor: Salut Time Completed: 10:15

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-9-11-29-5(9E)				
Location:	9E-Mens Rm				
Volume (Liters):	2070				
Flow rate: (Liters/Minute)	10(l/m)				
Fibers/Filter:	2.5/100				
Fibers/Cubic Cm:	<.01				

ANALYST ANALYZING SAMPLES: Ron Stallard DATE: 11/29/89

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Due to size of Room only one final clearence sample was taken

Report Prepared By: (b) (6) [redacted] Date: 11/29/89

REPORT REVIEWED BY: (b) (6) [redacted] DATE: 12/26/89

FACILITY FILE
DC 000622

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

February 7, 1990

GSA National Capital Region
Safety & Environmental Management Division (WPX)
7th & D Streets, S.W., Room 2034
Washington, D.C. 20407

Attn: Ms. Normajean Eleazer

Re: National Archives Sub-Basement Northwest
Washington, D.C.
SaLUT #SL89-41-4
ACT #72093430

Dear Ms. Eleazer:

In response to Order Number P1190DC9046, SaLUT, Inc. monitored asbestos abatement activities at the above-referenced project from November 29, 1989 to February 3, 1990. This report encompasses the final phase of this project.

Our services included providing hygiene services, including collection of background area samples, monitoring abatement and analyzing air samples, and a final inspection and clearance. All air samples were collected and analyzed in accordance with NIOSH Method 7400. All daily activities along with air sample results and final inspection reports are documented in the attached daily field reports.

We appreciate the opportunity to provide these services. If you have any questions or need additional information, please contact us.

Very truly yours,

Todd M. Woerner
Project Manager

DLB:317

SaLUT

SUB-BASEMENT

EAST ELEVATOR PIT

11/29/89 - 12/4/89

SaLUT

Project: National Archives Bldg.
[Sub-Basement (East Elevator Pit)]
Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-4-11-29-1	FB				
41-4-11-29-2	FB				
41-4-11-39-3	WA	216	540	Elevator Pit	.02
41-4-11-29-4	EV	215	537.5	2' left of pit door	< .01
41-4-11-29-5	EV	216	540	10' right of pit door	<.01
41-4-11-29-6	EV	213	532.5	By union office	<.01
41-4-11-29-7	EV	213	532.5	5' left of union office door	< .01
41-4-11-29-8	EV	214	535	By room No. 2	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT

Soil and Land Use Technology, Inc.

AIR TEST SAMPLING DATA SHEET

302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

[SB ⇒ Sub-Basement]

Project: National Archives Bldg. [SB (East Elevator Pit)]

Client: GSA

Job No: SL89-041-4

Date: 11/29/89 Time on-site: 9:45 to 2:30

Name: Ron Stallard

Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-29-1 (SB)	FB	—	—	—	—	—	0/100	—	BLANK
41-4-11-29-2 (SB)	FB	—	—	—	—	—	1/100	—	BLANK
41-4-11-29-3 (SB)	WA	2.5 / 9:28	2.5 / 1:52	216	540	Elevator Pit	30/100	.02	SL-11
41-4-11-29-4 (SB)	EV	2.5 / 9:27	2.5 / 1:52	215	537.5	2' Left of Pit Door	3.5/100	<.01	SL-12
41-4-11-29-5 (SB)	EV	2.5 / 9:27	2.5 / 1:53	216	540	10' right of Pit Door	4/100	<.01	SL-13
41-4-11-29-6 (SB)	EV	2.5 / 9:26	2.5 / 1:53	213	532.5	by union office	2.5/100	<.01	SL-14
41-4-11-29-7 (SB)	EV	2.5 / 9:26	2.5 / 1:53	213	532.5	6' Left of union office Door	2/100	<.01	SH-15
41-4-11-29-8 (SB)	EV	2.5 / 9:26	2.5 / 1:54	214	535	by Room No. 2	3/100	<.01	SH-13

COMMENTS: Rotometers SL-9 & SR-7 were used to calibrate Rotometers.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

7:30 - Workers began setting up for glove bag removal in Sub-Basement East Elevator pit.
8:00 - Break
8:30 - Continued set-up in Sub Basement East Elevator Pit
9:25 - finished with set-up ; workers began glove-bagging
11:30 - Break
12:00 - Continued Glove-bagging
2:15 - Work Day Done

(b) (6) [redacted]

11/29/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: National Archives Bldg (Sub-Basement)

Location: Sub-Basement (East Elevator Shaft) Date: 11/29/89

Removal Contractor: Marcor Time Started: 4:45

Monitoring Contractor: Salut Time Stopped: 2:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	N/A	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?		
	b. Soap and Towels?	N/A	
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/29/89

SaLUT Soil and Land Use Technology, Inc.

302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. (SubBasement - East Elevator Pit) Date 11-29-89

Project # SL89-91-9 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SMH

Microscope Field Area .00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL) 1-3 ALL

4-5 SOME

6-7 NONE

QC Reference Slide # 7 433.12 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 91-9-11-29-1(SB) thru 91-9-11-29-B(SB)

QC Check Sample # 91-9-11-29-3(SB 1st Read 382 f/mm2

2nd Read 318 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 11-29-89

Samples Analyzed by Ron Stallard Date 11-29-89

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (Sub-Basement East Elevator Pit)
Client: GSA
Job No: SL89-041-4
Date: 11/30/89 Time on-site: 5:55 to 2:30
Name: Ron Stallard
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-11-30-1(SB)	FB	—	—	—	—	—	1.5/100	—	BLANK
41-4-11-30-2(SB)	FB	—	—	—	—	—	0/100	—	BLANK
41-4-11-30-3(SB)	WA	2.5/6:25	2.5/1:45	440	1100	Elevator Pit	33.5/100	.014	SL-11
41-4-11-30-4(SB)	EV	2.5/6:23	2.5/1:44	441	1102.5	2' Left of Pit Door	3/100	<.01	SL-12
41-4-11-30-5(SB)	EV	2.5/6:22	2.5/1:44	442	1105	10' right of Pit Door	4/100	<.01	SL-13
41-4-11-30-6(SB)	EV	2.5/6:22	2.5/1:44	442	1105	by union office	5.5/100	<.01	SL-14
41-4-11-30-7(SB)	EV	2.5/6:22	2.5/1:43	441	1102.5	5' Left of Union office Door	3.5/100	<.01	SL-17
41-4-11-30-8(SB)	EV	2.5/6:22	2.5/1:42	440	1100	by Room No. 2	4/100	<.01	SH-4

COMMENTS: Rotometers SR-7 & SR-9 were used to calibrate pumps.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00 arrived on site. 4- Marcor workers began glove-bagging in Sub-Basement East elevator shaft.

8:00 Continued glove-bagging in Sub-Basement East Elevator Shaft

8:15- Break

10:00- Continued glove-bagging in East Elevator Pit

11:30- Break

12:00- Continued glove-bagging in East Elevator pit.

2:00- all work complete in Sub-Basement (East elevator pit).

2:30- Work Day Done.

(b) (6) [redacted]

11/30/89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: National Archives Bldg. (Sub Basement)

Location: Sub-Basement (East Elevator Shaft) Date: 11/30/89

Removal Contractor: Marcor Time Started: 6:00 PM

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	N/A	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	/	
	b. Soap and Towels?	N/A	
	c. Used Each Departure?	/	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/30/87

SaLUT
Soil and Land Use Technology, Inc.
302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. (Sub-Basement East Elevator Shaft) Date 11-30-89

Project # SL89-091-9 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 SOME
6-7 NONE

QC Reference Slide # 7 562.71 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-4-11-30-1 (SB) thru 41-4-11-30-8 (SB)

QC Check Sample # 41-4-11-30-4 (SB) 1st Read 3.82 f/mm2

2nd Read 3.82 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 11-30-89

Samples Analyzed by Ron Stallard Date 11-30-89

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

SUB -BASEMENT

EAST ELEVATOR PIT

FINAL INSPECTION

12/4/90

SaLUT

Project: National Archives Bldg.
Sub-basement East Elevator Pit

Job No.: SL189-41-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-4-12-4-1	FB				
41-4-12-4-2	FB				
41-4-12-4-3	FC	196	1960	Center of pit	<.01
41-4-12-4-4	FC	196	1960	By entrance of pit	<.01
41-4-12-4-5	FC	196	1960	Right rm by pit	<.01
41-4-12-4-6	FC	196	1960	Left rm by pit	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: [redacted] National Archives Bldg. (Sub-Basement East Elevator Pit) Client: GSA
Job No: 5C89-41-4 (SB) Date: 12/4/89 Time on-site: 6:00 to 12:30
Name: Ron Stallard Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-12-4-1(SB)	FB	—	—	—	—	—	1/100	—	BLANK
41-4-12-4-2(SB)	FB	—	—	—	—	—	0/100	—	BLANK
41-4-12-4-3(SB)	FC	10/7:02	10/10:18	196	1960	center of Pit	2.5/100	<.01	SH-4
41-4-12-4-4(SB)	FC	10/7:02	10/10:18	196	1960	by entrance of Pit	3/100	<.01	SH-15
41-4-12-4-5(SB)	FC	10/7:02	10/10:18	196	1960	Right Rm by Pit	2/100	<.01	SH-13
41-4-12-4-6(SB)	FC	10/7:02	10/10:18	196	1960	Left Rm by Pit	.5/100	<.01	SH-16

COMMENTS: Rotometer SR-9 was used to calculate pump.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00 - arrived on site ; inspected new area to be abated (North West Corner sub-Basement)

7:00 - Began running final air samples in East Elevator pit of sub-Basement. also workers began pre-cleaning North-West Corner of sub-Basement.

7:30 - Break

8:00 - Continued pre-cleaning in North-West Corner of sub-Basement.

10:00 - final Clearence samples finished in East elevator pit, continued pre-cleaning in North west corner

10:30 - all final clearence samples analyzed for East elevator pit ; ok. to tear down containment.

12:30 - Work Day Done

(b) (6) [redacted]

12/4/89
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: National Archives Bldg. (Sub-Basement East Elevator Pit)

Location: Sub-Basement East Elevator Pit Date: 12/9/89

Removal Contractor: Marcor Time Started: 6:00

Monitoring Contractor: Salut Time Stopped: 12:30

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	N/A	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?		
	b. Soap and Towels?	N/A	
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 12/4/89

SaLUT Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. (Sub-Basement East Elevator Pit) Date 12-4-89

Project # SC89-041-4 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL)

1-3	ALL
4-5	SOME
6-7	NONE

QC Reference Slide # 7 632.41 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-4-12-4-1(SB) thru 41-4-12-4-6(SB)

QC Check Sample # 41-4-12-4-4(SB) 1st Read 3.82 f/mm2

2nd Read 3.82 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 12-4-89

Samples Analyzed by Ron Stallard Date 12-4-89

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Bldg. Project: SB (E. Elevator Pit)

Location: Sub-Basement (East Elevator Pit) Date: 12/4/89

Removal Contractor: Marcor Time Inspected: 6:00

Monitoring Contractor: Salut Time Completed: 6:15

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-4-12-4-3(SB)	41-4-12-4-4(SB)	41-4-12-4-5(SB)	41-4-12-4-6(SB)	
Location:	Center of Pit	by entrance of Pit	Right Rm by Pit	Left Rm by Pit	
Volume (Liters):	1960(l)	1960(l)	1960(l)	1960(l)	
Flow rate: (Liters/Minute)	10(l/m)	10(l/m)	10(l/m)	10(l/m)	
Fibers/Filter:	2.5/100	3/100	2/100	.5/100	
Fibers/Cubic Cm:	<.01	<.01	<.01	<.01	

ANALYST ANALYZING SAMPLES: Ron Stallard DATE: 12/4/89

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: _____ Date: _____

REPORT REVIEWED BY: _____ DATE: _____

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: National Archives Project: Engineering wing

Location: Sub-basement Date: 12-04-89

Removal Contractor: MARFOR Time Inspected: ~ 1620-1735

Monitoring Contractor: Salut Inc. Time Work Started: 1600

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	NA	
	b. Decontamination Curtains	NA	
	c. Seals around ducts, windows and doors	NA	
	d. Vertical and Horizontal Openings	NA	
	e. "Microtrap" in use	NA	
	f. Negative pressure > .02"	NA	
2. Signage	a. Caution Signs at vestibule entry.	NA	
	b. OSHA SIGN (ASBESTOS)	NA	
	c. Dumpster, ducts, drums, and bags labelled	NA	

SoLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	NA	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	~~Disp~~	
		½ face HEPA ✓	
		PAPR	
		TYP"C"	
	c. Proper Decontamination Sequence Followed	NA	
5. Showers	a. Functioning?	NA	
	b. Soap and Towels?	NA	
	c. Used Each Departure?	NA	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

All work done was in preparation of the area before ACM removal. Suits and respirators were worn as a precaution against small quantities of debris that are, or may be present during the pre-cleaning.

Report Prepared By: (b) (6) [redacted] Date: 12-04-89

SaLUT

Project: National Archives Bldg.
(Rm. 13W-3)

Job No.: SL89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-4-11-30-1	BG	215	2150	Row-12, stack area	<.01
41-4-11-30-2	BG	210	2100	Office area	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (Rm 13W-3) ([redacted])
Client: GSA ?
Job No: SC89-041-4
Date: 11/30/89 Time on-site: 7:45 to 10:30
Name: Ron Stallard
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
91-4-11-30-1(EX)	BG	10/7:50	10/11:25	215	2150	Rm 13 W-3 (Stack Area Row-17)	4/100	<.01	SH-13
91-4-11-30-2(EX)	BG	10/7:53	10/11:23	210	2100	Rm 13 W-3 (office Area)	2/100	<.01	SH-15

COMMENTS: Rotometer SR-9 was used to calibrate pumps.

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

7:45 - Entered 13w-3 area ; Set up samples
11:25 - samples removed ; analyzed ; below .01

(b) (6) [redacted]

11/30/89
Date

SaLUT

GLOVE BAG JOB

LOADING DOCK AREA

12-7-89

SaLUT

Project: National Archives

Job No.: SL-89-041-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC	
41-4-120701	WA	100	250	By WA on gas chamber	2.5/100	<.01
41-4-120702	EV	295	738	On desk by HEPA exhaust	1 /100	<.01
41-4-120703	FC	192	1920	On WA barrier by pipe	13.5/100	<.01
41-4-12074	FB					
41-4-12075	FB					

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives
Job No: SL-89-041-4
Name: Randy Gordon

Client: GSA
Date: 12-07-89 Time on-site: 1700 to 0030
Analyzed On-site: / Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-4-120701	WA	1902 / 2.5	2042 / 2.5	100	250	by WA on gas chamber	0.005	2½/100	SL-12
41-4-120702	EV	1907 / 2.5	2402 / 2.5	295	738	on desk by HEPA exhaust	< 0.001	1/100	SL-14
41-4-120703	FC	2048 / 10.0	2400 / 10.0	192	1920	on WA barrier by pipe	0.003	13½/100	SH-4
41-4-120704	FB	—	—	—	—	—		—	—
41-4-120705	FB	—	—	—	—	—		—	—

COMMENTS: Pumps calibrated before and after use with either rotometer SR-7 or SR-9.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

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802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

1700 - arrived on site. Spoke with Tim Edwards and toured the area to be worked on.

1900 - glove bag removal was set up in area. The procedure of set up and removal ~~or~~ is very well done.

2040 - glove bag work of two vertical pipes completed (~2" and 4" diameters) and final clearance sample set up and running.

0000 - Samples taken down and analyzed

0030 - final sample clearance + clean up to leave the work site for 12-07-89. Four bags of waste were generated.

(b) (6) [redacted]

12-07-89

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: _____

Location: _____ Date: 12-07-89

Removal Contractor: Marcor Time Started: ~1900

Monitoring Contractor: Salut Inc. Time Stopped: 2040

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	*
	b. Decontamination Curtains	NA	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	NA	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	NA	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted ~~Until~~ while Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	~~Disp~~ ½ face HEPA ✓	
		PAPR	
		TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	NA	
	b. Soap and Towels?	NA	
	c. Used Each Departure?	NA	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

The perimeter barrier consisted of a polyethylene sheet taped to the wall and the floor extending greater than 1 foot, at least, beyond work piece.

Report Prepared By: (b) (6) [redacted] Date: 12-07-89

SaLUT Soil and Land Use Technology, Inc.

302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Date 12-07-89

Project # SL-89-041-4 SaLUT Technician Randy Gordon

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area 0.00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL) 1-3 all

4-5 Some

6-7 none

QC Reference Slide # 7 882.17 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-4-120701 thru 41-4-120705

QC Check Sample # 41-4-120701 1st Read 3.18 f/mm2

2nd Read 6.37 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by [redacted] (b) (6) Date 12-07-89

Samples Analyzed by [redacted] (b) (6) Date 12-07-89

SaLUT Technician Signature [redacted] (b) (6)

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

SUB-BASEMENT

NORTHWEST

1/18/90 - 2/1/90

INITIAL INSPECTION

SaLUT

Project: National Archives Bldg.
Northwest Area of Sub-basement

Job No. SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-18-1A	FB				
41-5-1-18-2A	FB				
41-5-1-18-3A	BG	200	2000	8' West of Decon	< .01
41-5-1-18-4A	BG	200	2000	Southeast corner	< .01
41-5-1-18-5A	BG	205	2050	South side of containment	< .01
41-5-1-18-6A	BG	205	2050	Northwest corner	< .01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg./North west Area of Sub-Basement
Client: GSA
Job No: SLB9-041-5
Date: 1/18/90 **Time on-site:** 4:00 PM to 11:15
Name: Roy Stallard
Analyzed On-site: ✓ **Laboratory:**

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-18-1A	FB	—	—	—	—	—	1/100	—	BLANK
41-5-1-18-2A	FB	—	—	—	—	—	3.5/100	—	BLANK
41-5-1-18-3A	BG	10/4:10	10/7:30	200	2000	8' west of Decon	22.5/100	<.01	SH-9
41-5-1-18-4A	BG	10/4:10	10/7:30	200	2000	SouthEast Corner	18.5/100	<.01	SH-11
41-5-1-18-5A	BG	10/7:35	10/11:00	205	2050	South Side of Containment	25/100	<.01	SH-9
41-5-1-18-6A	BG	10/7:35	10/11:00	205	2050	North west Corner	14.5/100	<.01	SH-11

COMMENTS: Rotometer SR-12 was used to Calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:00PM- arrived on site; looked over unfinished containment everything O.K. as of this time Background samples began @ this time within the containment area.

6:00- Continued Containment Set-up.

8:00- Continued Containment Set-up.

11:00- Workers Still Setting up; background samples finished @ this time.

11:15- Left site, but workers still setting up until 12:30.

(b) (6) [redacted]

1/18/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: National Archives Bldg. Project: SB (North West Area)

Location: Sub-Basement/North-West Area Date: 1/18/90

Removal Contractor: Marcor Time Inspected: 4:30 pm

Monitoring Contractor: Salut Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. Seals around ducts, windows and doors	yes	
	d. Vertical and Horizontal Openings	yes	
	e. "Microtrap" in use	yes	
	f. Negative pressure > .02"	>.03	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____ HEPA ____ PAPR yes TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By: [redacted] (b) (6) Date: 1/19/90

SaLUT

SUB-BASEMENT

NORTHWEST

DAILY INSPECTIONS

1/19/90 - 2/1/90

SaLUT

Project: National Archives Bldg.
Northwest Sub-basement

Job No.: SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-18-1	FB				
41-5-1-18-2	FB				
41-5-1-18-3	WA	70	175	S central in containment	.37
41-5-1-18-4	EV	70	175	By neg air #3 exhaust	< .01
41-5-1-18-5	EV	70	175	By air handling unit #2	< .01
41-5-1-18-6	EV	70	175	Clean room	<.01
41-5-1-18-7	EV	70	175	By main door to WA	<.01
41-5-1-18-8	EV	70	175	By steam rm door	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (N.W. Sub-Basement)
Client: GSA
Job No: SL89-041-5
Date: 1/19/90 **Time on-site:** 4:00 PM to 12:30 AM
Name: Ron Stallard
Analyzed On-site: ✓ **Laboratory:**

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-18-1	FB	—	—	—	—	—	1/100	—	BLANK
41-5-1-18-2	FB	—	—	—	—	—	3.5/100	—	BLANK
41-5-1-18-3	WA	2.5/10:50	2.5/12:00	70	175	S. Central in Containment	101/75	.37	SH-9
41-5-1-18-4	EV	2.5/10:45	2.5/11:55	70	175	by Neg. Air #3 Exhaust	3/100	<.01	SL-6
41-5-1-18-5	EV	2.5/10:45	2.5/11:55	70	175	by Air Handling Unit #2	1.5/100	<.01	SL-5
41-5-1-18-6	EV	2.5/10:45	2.5/11:55	70	175	Clean Room	2.5/100	<.01	SL-3
41-5-1-18-7	EV	2.5/10:45	2.5/11:55	70	175	by Main Door to W.A.	2/100	<.01	SL-14
41-5-1-18-8	EV	2.5/10:45	2.5/11:55	70	175	by Steam Rm. Door	3/100	<.01	SL-12

COMMENTS: Rotometer SR-6 was used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:00 PM - arrived on site w/ Project Manager Todd Woerner; inspected entire Containment. Everything was ok except for Neg. air. So 4 more micro-traps were requested. Workers continued final set-up at this time

6:00 - Break until 7:00

7:00 - Continued final set up of North-West area.

9:00 - 4 - Microtraps arrived; workers began placing them in needed areas of containment

10:45 - Workers entered containment; began gross removal in area appr. 20' from Decon. area. Manometer was @ 7 - .03.

12:00 - Workers ended gross removal for the evening; all waste was bagged up; stored for the weekend.

(b) (6) [redacted]

Salut Asbestos Technician

1/19/90

Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: Sub-Basement

Location: North West Sub-Basement Date: 1/19/90

Removal Contractor: Marcor Time Started: 10:45

Monitoring Contractor: Salut Time Stopped: 12:00

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA ✓ PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 1/19/90

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. Date 1-19-90

Project # SL89-041-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 SOME
6-7 NONE

QC Reference Slide # 6 457.35 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-1-19-1 thru 41-5-1-19-8

QC Check Sample # 41-5-1-19-9 1st Read _____ f/mm2

2nd Read _____ f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-19-90

Samples Analyzed by Ron Stallard Date 1-19-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archives Bldg.
NW Sub-basement

Job No.: SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-22-1	FB				
41-5-1-22-2	FB				
41-5-1-22-3	WA	118	295	By supfan A11-1B	.23
41-5-1-22-4	EV	420	1050	Outside steam rm	<.01
41-5-1-22-5	EV	420	1050	In steam rm by exhaust	<.01
41-5-1-22-6	EV	419	1047.5	By supfan A11-1B	<.01
41-5-1-22-7	EV	420	1050	Clean room	<.01
41-5-1-22-8	EV	420	1050	By carpenter shop	<.01
41-5-1-22-9	WA	88	220	By exit to Decon	.14
41-5-1-22-10	WA	45	112.5	By exit to Decon	.32
41-5-1-22-11	WA	63	157.5	By exit to Decon	.06

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (N.W. Sub-Basement)
Client: GSA
Job No: SL89-041-5
Date: 1/22/90 Time on-site: 6:00 AM to 2:30 AM
Name: Ron Stallard
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-22-1	FB	—	—	—	—	—		—	BLANK
41-5-1-22-2	FB	—	—	—	—	—		—	BLANK
41-5-1-22-3	WA	2.5/6:47	2.5/8:45	118	295	by Sup fan A-11-1B	103/74	.23	SL-5
41-5-1-22-4	EV	2.5/6:47	2.5/1:47	420	1050	Outside ~~Gauge~~ Steam Rm	10.5/100	<.01	SL-26
41-5-1-22-5	EV	2.5/6:47	2.5/1:47	420	1050	In ~~Gauge~~ Steam Rm by Exhaust	8.5/100	<.01	SL-27
41-5-1-22-6	EV	2.5/6:48	2.5/1:47	419	1047.5	by sup fan A11-1B	9.5/100	<.01	SL-28
41-5-1-22-7	EV	2.5/6:48	2.5/1:48	420	1050	Clean Room	6.5/100	<.01	SH-8
41-5-1-22-8	EV	2.5/6:48	2.5/1:48	420	1050	by Carpenter Shop	7/100	<.01	SH-2
41-5-1-22-9	WA	2.5/9:15	2.5/10:43	88	220	by Exit to Decon	63/100	.14	SL-5
41-5-1-22-10	WA	2.5/12:00	2.5/12:45	45	112.5	by Exit to Decon	75/100	.32	SL-5
41-5-1-22-11	WA	2.5/12:45	2.5/1:48	63	157.5	by Exit to Decon	20.5/100	.06	SL-5

COMMENTS: Rotometer SR-6 was used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00- arrived on site w/ 8-Marco workers ; inspected containment w/ Tim Edwards ; Containment o.k. for removal. Neg. pressure was @ -.03

6:30- Workers began gross removal by air handling unit #1 ; air handling unit #2 just inside decon

8:30- All work (gross removal) complete in area of air handling unit # 1. Still more to remove around air handling unit #2. Workers took 1/2 hour break at this time. Neg. air was @ -.03 @ this time.

9:15- Workers entered containment from break at this time. Gross removal continued around air-handling unit # 2.

10:45- Workers began bagging up all debris on floor in preparation for lunch break. Some workers began showering out @ this time also.

11:00- lunch break.

12:00- Workers began more gross removal & clean-up of debris on floor in area of air handling unit #2. Neg. air was @ -.03 at this time.

1:30- Continued gross removal ; bagging of debris around air handling unit # 2. Neg. pressure was @ -.03.

2:00- All workers began showering out @ this time all debris bagged up

2:30- Work Day Done

(b) (6) [redacted]

1/22/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: North west Sub-Basement

Location: North-west Sub-Basement Date: 1/22/90

Removal Contractor: Marcor Time Started: 6:30 pm

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA PAPR ✓ TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 1/22/90

SaLUT Soil and Land Use Technology, Inc.

South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. (North-West Sub-Basement) Date 1-22-90

Project # SL89-091-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL) 1-3 ALL

4-5 SOME

6-7 NONE

QC Reference Slide # 6 323.25 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-1-22-1 thru 41-5-1-22-11

QC Check Sample # 41-5-1-22-6 1st Read 12.10 f/mm2

2nd Read 14.01 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-22-90

Samples Analyzed by Ron Stallard Date 1-22-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archives Bldg.
NW Sub-basement

Job No.: SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-23-1	FB				
41-5-1-23-2	FB				
41-5-1-23-3	WA	230	575	By exit to Decon	.04
41-5-1-23-4	EV	452	1132.5	In steam rm by exh	<.01
41-5-1-23-5	EV	453	1132..5	Outside steam rm	<.01
41-5-1-23-6	EV	453	1132.5	By supfan All-1B	<.01
41-5-1-23-7	EV	453	1132.5	Clean rm	<.01
41-5-1-23-8	EV	453	1132.5	By carpenter shop	<.01
41-5-1-23-9	WA	223	557.5	By exit to Decon	.02

BG - Background WA - Work Area PS - Personal
EV - Environmental FC - Final Clearance FB - Field Blank

SaLUT Soil and Land Use Technology, Inc.
802 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: Natl. Archives Bldg. (N.W. Sub-Basement)
Job No: SL89-041-5
Name: Ron Stallard

Client: GSA
Date: 1/23/90 Time on-site: 5:45 to 2:30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-23-1	FB	—	—	—	—	—	2/100	—	BLANK
41-5-1-23-2	FB	—	—	—	—	—	1.5/100	—	BLANK
41-5-1-23-3	WA	2.5/6:27	2.5/10:17	230	575	by Exit to decon	53/100	.04	SL-5
41-5-1-23-4	EV	2.5/6:27	2.5/2:00	453	1132.5	In Steam Rm by Exhausts	4.5/100	<.01	SL-26
41-5-1-23-5	EV	2.5/6:27	2.5/2:00	453	1132.5	outside Steam Rm	9/100	<.01	SL-27
41-5-1-23-6	EV	2.5/6:27	2.5/2:00	453	1132.5	by Supfan A11-1B	10.5/100	<.01	SL-28
41-5-1-23-7	EV	2.5/6:27	2.5/2:00	453	1132.5	Clean Rm	8/100	<.01	SH-8
41-5-1-23-8	EV	2.5/6:27	2.5/2:00	453	1132.5	by Carpenter Shop	9.5/100	<.01	SH-7
41-5-1-23-9	WA	2.5/10:17	2.5/2:00	223	557.5	by Exit to Decon	26/100	.02	SL-5

COMMENTS: Rotometer SL-6 was used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

5:45PM - arrived on site ; inspected containment ; Neg. air was @ -.035 ; everything O.K.

6:15 - Workers entered containment ; began gross removal in unit #3 ; unit #2 areas.

8:00 - Continued gross removal around unit #3. Neg. air was -.03 during this time.

8:30 - Break, workers showered out

9:00 - Workers re-entered containment ; continued gross removal around unit #3 ; Duct by steam room.

11:00 - Lunch

12:00 - Workers reentered containment ; began removing around unit #3 ; Duct work by Steam Rm. Neg. air was -.03 at this time. Also entered containment w/ Supervisor (Marcor) Scott ; inspected work up to this point ; all removal O.K.

2:00 - Workers bagged up all debris on floor ; showered out.

2:30 - Work Day Done. (Signed out ; left site)

(b) (6) [redacted]

11/23/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: N.W. Sub-Basement

Location: North West Sub-Basement Date: 1/23/90

Removal Contractor: Marcor Time Started: 6:00 pm

Monitoring Contractor: Salut Time Stopped: 7:00

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA PAPR yes TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 1/23/90

SaLUT
Soil and Land Use Technology, Inc.
2 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. (N.W. Sub-Basement) Date 1-23-90

Project # SL89-091-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2
Phase Ring Alignment
Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 SOME
6-7 NONE

QC Reference Slide # 6 652.38 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-1-23-1 thru 41-5-1-23-9

QC Check Sample # 41-5-1-23-5 1st Read 11.46 f/mm2

2nd Read 12.73 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-23-90

Samples Analyzed by Ron Stallard Date 1-23-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archives Bldg.
NW Sub-basement

Job No.: SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-24-1	FB				
41-5-1-24-2	FB				
41-5-1-24-3	WA	135	337.5	By exit to Decon	.054
41-5-1-24-4	EV	435	1087.5	In steam rm by exh	<.01
41-5-1-24-5	EV	435	1087.5	Outside steam rm	<.01
41-5-1-24-6	EV	435	1087.5	By supfan All-1B	<.01
41-5-1-24-7	EV	435	1087.5	Clean rm	<.01
41-5-1-24-8	EV	435	1087.5	By carpenter shop	<.01
41-5-1-24-9	WA	300	750	By exit to Decon	.04

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT Soil and Land Use Technology, Inc.
302 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (N.W. Sub-Basement)
Job No: SL89-041-5
Name: Ron Stallard

Client: GSA
Date: 1/24/90 Time on-site: 6:00 PM to 2:30 AM
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-24-1	FB	—	—	—	—	—	2/100	—	BLANK
41-5-1-24-2	FB	—	—	—	—	—	2.5/100	—	BLANK
41-5-1-24-3	WA	2.5/6:25	2.5/8:40	135	337.5	by Exit to Decon	37.5/100	.05	SL-5
41-5-1-24-4	EV	2.5/6:25	2.5/1:40	435	1087.5	In Steam Rm by Exhaust	4/100	<.01	SL-26
41-5-1-24-5	EV	2.5/6:25	2.5/1:40	435	1087.5	outside Steam Room	7/100	<.01	SL-27
41-5-1-24-6	EV	2.5/6:25	2.5/1:40	435	1087.5	by Sup fan A11-1B	12/100	<.01	SL-28
41-5-1-24-7	EV	2.5/6:25	2.5/1:40	435	1087.5	Clean Room	6.5/100	<.01	SH-8
41-5-1-24-8	EV	2.5/6:25	2.5/1:4	435	1087.5	by Carpenter Shop	5.5/100	<.01	SH-2
41-5-1-24-9	WA	2.5/8:40	2.5/1:40	300	750	by Exit to Decon	75/100	.04	SL-5

COMMENTS: Rotometer SR-6 was used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT

Soil and Land Use Technology, Inc.

802 South Broadway, Rear Suite B Baltimore, Maryland 21231

Telephone 301-327-1788
Fax #: 301-466-7371

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00 PM - Arrived on site & inspected containment before workers entered; everything o.k. Neg. air was @ -.03.

6:20 - Workers entered containment & began working (removing) around Duct work by Steam Rm. & unit #2.

8:00 - Break (workers showered out for ½ hr. break)

8:30 - Workers entered containment & continued removal on duct around unit #2 & steam Rm. Neg air was -.03 at this time.

10:00 - Continued removal in unit #2 area & Steams Rm. area.

11:00 - Lunch.

12:00 - Workers entered containment & continued removal in area around unit #2. & Steam Rm (Duct removal.) Neg. air was @ -.03

1:45 - all removal ceased & workers began bagging material on floor.

2:00 - all workers began showering out

2:30 - Work Day Done (signed out & left site)

(b) (6) [redacted]

1/24/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: N.W. Sub-Basement

Location: N.W. Sub-Basement Date: 1/24/90

Removal Contractor: Marcor Time Started: 6:00 PM

Monitoring Contractor: Salut Time Stopped: 2:00 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA PAPR yes TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 1/24/90

SaLUT
Soil and Land Use Technology, Inc.
8 South Broadway, Rear Suite B, Baltimore, Maryland 21231 Telephone 301-327-1788

QUALITY CONTROL / CHAIN OF CUSTODY

Project Natl. Archives Bldg. (N.W. Sub-Basement) Date 1-24-90

Project # SL89-041-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2
Phase Ring Alignment
Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 SOME
6-7 NONE

QC Reference Slide # 6 541.25 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-1-24-1 thru 41-5-1-24-9

QC Check Sample # 41-5-1-24-6 1st Read 15.28 f/mm2

2nd Read 19.10 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-24-90

Samples Analyzed by Ron Stallard Date 1-24-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archives Bldg
NW Sub-basement

Job No.: SLL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-25-1	FB				
41-5-1-25-2	FB				
41-5-1-25-3	WA	240	600	By exit to Decon	.03
41-5-1-25-4	EV	440	1100	In steam rm by exhausts	<.01
41-5-1-25-5	EV	440	1100	Outside stm rm	<.01
41-5-1-25-6	EV	440	1100	By Sup fan A11-1B	<.01
41-5-1-25-7	EV	440	1100	Clean rm	<.01
41-5-1-25-8	EV	440	1100	By carpenter shop	<.01
41-5-1-25-9	WA	200	500	By exit to Decon	.02

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. (N.W. Sub-Basement)
Job No: SL89-041-5
Name: Ron Stallard

Client: GSA
Date: 1/25/90 Time on-site: 6:00 PM to 2:30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-25-1	FB	—	—	—	—	—	1.5/100	—	BLANK
41-5-1-25-2	FB	—	—	—	—	—	2/100	—	BLANK
41-5-1-25-3	WA	2.5/6:25	2.5/10:25	240	600	by Exit to Decon	33/100	.03	SL-5
41-5-1-25-4	EV	2.5/6:25	2.5/1:45	440	1100	In Steam Rm by Exhausts	4/100	<.01	SL-26
41-5-1-25-5	EV	2.5/6:25	2.5/1:45	440	1100	Out Side Steam Rm	6/100	<.01	SL-27
41-5-1-25-6	EV	2.5/6:25	2.5/1:45	440	1100	by Sup. Fan A11-1B	4.5/100	<.01	SL-28
41-5-1-25-7	EV	2.5/6:25	2.5/1:45	440	1100	Clean Rm	9/100	<.01	SH-8
41-5-1-25-8	EV	2.5/6:25	2.5/1:45	440	1100	by Carpenter Shop	8.5/100	<.01	SH-2
41-5-1-25-9	WA	2.5/10:25	2.5/1:45	200	500	by Exit to Decon	27/100	.02	SL-5

COMMENTS: Rotameter SL-6 was used to calibrate pumps

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Bank

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00- arrived on site: inspected containment: everything O.K. Marcor workers arrived @ this time also. Neg. air was @ -.03
6:15- Marcor workers entered containment: began gross removal in back part of containment i.e. all crawl spaces on West wall.
8:30- Workers showered out for break. Neg. Air was -.03 at this time.
9:00- 4-workers entered containment: began finishing up last of gross removal. 4-other workers began bagging out thru decon. All bags were washed off in containment: then dbl. bagged: stored by Sup. fan A11-18.
11:00- Lunch
12:00- 4-workers entered containment: finished up last of gross removal while other workers continued to remove waste bags out through decon. Neg. air was -.03 @ this time.
1:45- All gross removal complete at this time so, workers showered out: helped others w/ bag-out.
2:00- Bagout complete for the nite. A total of 475 bags were removed from containment.
2:30- Work Day Done.

(b) (6) [redacted]
Salut Asbestos Technician

1/25/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: N.W. Sub-Basement

Location: N.W. Sub-Basement Date: 1/25/90

Removal Contractor: Mascor Time Started: 6:15

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA PAPR yes TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 1/25/90

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. (N.W. Sub-Basement) Date 1-25-90

Project # SL89-041-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 SOME
6-7 NONE

QC Reference Slide # 6 413.75 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-1-25-1 thru _____

QC Check Sample # _____ 1st Read _____ f/mm2

2nd Read _____ f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-25-90

Samples Analyzed by Ron Stallard Date 1-25-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archive Bldg
NW Sub-basement

Job No.: SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-26-1	FB				
41-5-1-26-2	FB				
41-5-1-26-3	WA	90	225	By Decon exit	.05
41-5-1-26-4	EV	435	1087.5	By carpenter shop	<.01
41-5-1-26-5	EV	435	1087.5	Clean room	<.01
41-5-1-26-6	EV	435	1087.5	Area by Decon	<.01
41-5-1-26-7	EV	335	837.5	In Mech rm by exit	<.01

BG - Background WA - Work Area PS - Personal

EV - Environmental FC - Final Clearance FB - Field Blank

SoLUT Soil and Land Use Technology, Inc.
303 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: Natl. Archives Bldg. (N.W. Sub-Basement)
Job No: SL89-041-5
Name: Ron Stallard

Client: GSA
Date: 1/26/90 Time on-site: 4:00 PM to 12:00
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-26-1	FB	—	—	—	—	—	2/100	—	BLANK
41-5-1-26-2	FB	—	—	—	—	—	1.5/100	—	BLANK
41-5-1-26-3	WA	2.5/4:30	2.5/6:00	90	225	by Decon Exit	25.5/100	.05	SL-26
41-5-1-26-4	EV	2.5/4:30	2.5/11:45	435	1087.5	by Carpenter Shop	12/100	<.01	SL-27
41-5-1-26-5	EV	2.5/4:30	2.5/11:45	435	1087.5	Clean Rm	9.5/100	<.01	SH-8
41-5-1-26-6	EV	2.5/4:30	2.5/11:45	435	1087.5	Area by Decon	10/100	<.01	SH-2
41-5-1-26-7	EV	2.5/6:10	2.5/11:45	335	837.5	In Mech. Rm by Exit	4.5/100	<.01	SL-26

COMMENTS: Rotometer SR-6 was used to calibrate pumps.

Key: BG - Background; EV - Environmental; WA - Work Area; FC - Final clearance; PS - Personal; FB - Field Blank

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:00 - Arrived on site w/ Marcon workers : inspected containment everything o.k. Neg. air was -.03. Workers began arranging waste bags for delivery to truck.

6:00 - Marcon truck arrived and workers began taking bags out to loading dock to truck. Several carts were used : each cart lined w/ poly.

8:00 - Continued waste transport to loading dock.

10:00 - Lunch.

11:00 - Continued waste transport to loading dock.

12:00 - all waste transported to truck. a total of 1003 bags were removed from Containment.

12:30 - Work Day Done.

(b) (6) [redacted]
Salut Asbestos Technician

1/26/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: Natl. Archives Project: N.W. Sub-Basement

Location: N.W. Sub-Basement Date: 1/26/90

Removal Contractor: Marcor Time Started: 4:00

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	N/A	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____	
		HEPA ____	
		PAPR yes	
		TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 1/26/90

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QUALITY CONTROL / CHAIN OF CUSTODY

Project Natl. Archives Bldg. Date 1-26-90

Project # S/89-041-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2
Phase Ring Alignment
Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 SOME
6-7 NONE

QC Reference Slide # 6 818.23 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-1-26-1 thru 41-5-1-26-7

QC Check Sample # 41-5-1-26-7 1st Read 5.73 f/mm2

2nd Read 8.91 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-26-90

Samples Analyzed by Ron Stallard Date 1-26-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archives Bldg

Job No.: SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-29-1	FB				
41-5-1-29-2	FB				
41-5-1-29-3	WA	430	1075	By Decon exit	<.01
41-5-1-29-4	EV	430	1075	By carpenter shop	<.01
41-5-1-29-5	EV	430	1075	Clean room	<.01
41-5-1-29-6	EV	430	1075	Area by Decon	<.01
41-5-1-29-7	EV	430	1075	In mech rm by exit	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

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Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg
Job No: SL89-091-5
Name: Ron Stallard

Client: GSA
Date: 1/29/90 Time on-site: 6:00 to 7:30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-29-1	FB	—	—	—	—	—	3/100	—	BLANK
41-5-1-29-2	FB	—	—	—	—	—	2.5/100	—	BLANK
41-5-1-29-3	WA	2.5/6:25	2.5/1:35	430	1075	by Decon Exit	18/100	<.01	SL-2
41-5-1-29-4	EV	2.5/6:25	2.5/1:35	430	1075	by carpentershop	7.5/100	<.01	SL-10
41-5-1-29-5	EV	2.5/6:25	2.5/1:35	430	1075	Clean Rm	9.5/100	<.01	SL-20
41-5-1-29-6	EV	2.5/6:25	2.5/1:35	430	1075	Area by Decon	4.5/100	<.01	SL-23
41-5-1-29-7	EV	2.5/6:25	2.5/1:35	430	1075	In Mech. Rm by Exit	6/100	<.01	SL-29

COMMENTS: Rotometer SR-6 was used to calibrate pumps.

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Blank

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SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00 PM - Arrived on site w/ 12 - Marcor workers : inspected containment : everything O.K.
6:15 - 12 - Marcor workers entered containment : began fine cleaning in area around unit #2.
8:30 - Workers showered out for 1/2 hr break.
9:00 - Continued fine cleaning around unit #2.
10:00 - Entered containment : inspected completed fine cleaned areas : everything was O.K.
11:00 - Lunch
12:00 - Continued fine cleaning around unit #7 area.
2:30 - Work Day Done

(b) (6) [redacted]
Saluc Asbestos Technician

1/29/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: Natl. Archives Bldg. Project: N.W. Sub-Basement

Location: N.W. Sub-Basement Date: 1/19/20

Removal Contractor: Marcor Time Started: 6:15 PM

Monitoring Contractor: Salut Time Stopped: 7:00 AM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____	
		HEPA ____	
		PAPR yes	
		TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 1/29/90

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QUALITY CONTROL / CHAIN OF CUSTODY

Project Nat'l Archives Bldg. Date 1-29-90

Project # S/89-091-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2
Phase Ring Alignment
Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 DOME
6-7 NONE

QC Reference Slide # 6 532.71 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-1-29-1 thru 41-5-1-29-7

QC Check Sample # 41-5-1-29-6 1st Read 5.73 f/mm2

2nd Read 8.91 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-29-90

Samples Analyzed by Ron Stallard Date 1-29-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archives

Job No.: SL-89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-0013001	FB				
41-5-0013002	FB				
41-5-013003	EV	321	1605	By access to M at exhaust	<.01
41-5-013004	EV	322	1610	By entrance to clean room	<.01
41-5-013005	EV	392	980	By A-H-1B	<.01
41-5-013006	EV	397	993	In store rm	<.01
41-5-013007	EV			In clean rm	
41-5-013008	WA	268	670	Below duct work	.02
41-5-013009	EV	72	360	Near 4 neg air exhausts	<.01
41-5-013010	EV	69	345	By entrance to clean rm	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SaLUT
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Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives
Job No: SL-89-041-5
Name: Randy Gordon

Client: GSA
Date: 01-30-90 Time on-site: ~~0600~~ 1800 to 0230
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-013001	FB	—	—	—	—	—	0/100	—	—
41-5-013002	FB	—	—	—	—	—	0/100	—	—
41-5-013003	EV	1854 / 5.0	0015 / 5.0	321	1605	by access to moat exhausts	1/100	<0.01	SH-3
41-5-013004	EV	1858 / 5.0	0020 / 5.0	322	1610	by entrance to clean rm.	1/2/100	<0.01	SH-7
41-5-013005	EV	1900 / 2.5	0132 / 2.5	392	980	by A-H-1B	0/100	<0.01	SL-17
41-5-013006	EV	1859 / 2.5	0136 / 2.5	397	993	in Store room	1/100	<0.01	SL-29
41-5-013007	EV	1905/2.5	faulted / 0	?		in clean room	0/100		SL-21
41-5-013008	WA	2116/2.5	0144 / 2.5	268	670	below duct work	27/100	0.02	SL-20
41-5-013009	EV	0015/5.0	0127/ 5.0	72	360	near 4 neg. air exhausts	0/100	<0.01	SH-3
41-5-013010	EV	0020 / 5.0	0129/5.0	69	345	by entrance to clean rm	0/100	<0.01	SH-7

COMMENTS: All pumps were calibrated before and after use with either rotometer SR-7 or SR-9.

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Blank

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SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

~~0600~~ 1800 - Randy Gordon arrived on site and began taking equipment into the building.
~~0700~~ 1900 - Air sampling pumps have begun collecting the samples.
2030 - LVI workers have begun taking a ½ hour break.
2100 - Re-entered containment after break.
I inspected the work area until 2200 hrs.
2115 - The foreman, Scott and Tim Edwards, of N.A.R.A. inspected the work area.
The work being done is final cleaning of tar adhesive on the ductwork and pipe insulation. The work area is reasonably clean. More water will be used tomorrow (01-31-90) to assist in the final cleaning process.
2200 - A supper break is being taken for one hour.
2300 - Workers are reentering the area after the break.
2400 - The environmental samples have been rechecked and two filters have been changed.
0130 - LVI workers are preparing to leave the work area for today (01-30-90).
0230 - The removal crew, myself and T. Edwards left the building.

(b) (6) [redacted]
Salut Asbestos Technician

01-30-90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Project: Sub basement

Location: 7th and Pennsylvania Date: 01-30-90

Removal Contractor: LVI Time Started: ~~06~~ 1800

Monitoring Contractor: SALUT inc. Time Stopped: 0230

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	NA	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"		
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	NA	①
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators. ½ face	Disp ___ HEPA yes PAPR ___ TYP"C" ___	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

① No gross removal was performed, the majority of material being removed was tar-like mastic and spot cleaning of ACM pipe insulation

Report Prepared By: (b) (6) [redacted] Date: 01-30-90

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Date 01-30-90

Project # SL-90-41-5 SaLUT Technician Randy Hordor

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area 0.00785 f/mm2
Phase Ring Alignment
Phase Shift Test Slide (HSE/NPL) 1-3 all
4-5 some
6-7 none

QC Reference Slide # 7 _____ f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-013001 thru 41-5-013010

QC Check Sample # 41-5-013008 1st Read _____ f/mm2

2nd Read _____ f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by [redacted] (b) (6) Date 01-30-90

Samples Analyzed by [redacted] Date 01-30-90

SaLUT Technician Signature [redacted] (b) (6)

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National ARchives Bldg.
NW Sub-basement

Job No.: SL89-041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-1-31-1	FB				
41-5-1-31-2	FB				
41-5-1-31-3	WA	440	1100	By exit to Decon	<.01
41-5-1-31-4	EV	440	1100	In steam rm by exhaust	<.01
41-5-1-31-5	EV	440	1100	Outside steam rm	<.01
41-5-1-31-6	EV	440	1100	By sup fan A11-1B	<.01
41-5-1-31-7	EV	440	1100	Clean room	<.01
41-5-1-31-8	EV	440	1100	By carpenter shop	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SoLUT Soil and Land Use Technology, Inc.
303 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
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AIR TEST SAMPLING DATA SHEET

Project: Natl. Archives Bldg. (N.W. Sub-Basement)
Job No: SL89-041-5
Name: Ron Stallard

Client: GSA
Date: 1/31/90 Time on-site: 6:00 to 7:30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-1-31-1	FB	—	—	—	—	—	2/100	—	BLANK
41-5-1-31-2	FB	—	—	—	—	—	1/100	—	BLANK
41-5-1-31-3	WA	2.5/7:33	2.5/1:53	440	1100	by Exit to Decon	12/100	<.01	SL-29
41-5-1-31-4	EV	2.5/7:33	2.5/1:53	440	1100	In Steam Rm by Exhaust	4/100	<.01	SL-17
41-5-1-31-5	EV	2.5/7:33	2.5/1:53	440	1100	outside Steam Rm	3.5/100	<.01	SL-23
41-5-1-31-6	EV	2.5/7:33	2.5/1:53	440	1100	by Sup Fan A11-1B	5/100	<.01	SL-20
41-5-1-31-7	EV	2.5/7:33	2.5/1:53	440	1100	Clean Rm	2/100	<.01	SL-10
41-5-1-31-8	EV	2.5/7:33	2.5/1:53	440	1100	by Carpenter Shop	5/100	<.01	SL-2

COMMENTS: Rotometer SR-6 was used to calibrate rotometer

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Blank

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803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00 PM - arrived on site w/ 15 - workers from Marcon : inspected exterior of containment : everything O.K.
6:20 - Workers entered containment : began fine cleaning in area opposite decon in W. side of containment. neg. air was -.03 at this time.
8:00 - Dinner
9:00 - Workers re-entered containment : began continued fine cleaning. neg. air was -.03 at this time.
11:00 - Break
12:00 - Continued fine cleaning in all areas of containment.
2:00 - Workers showered out for evening.
2:30 - Work Day Done.

(b) (6) [redacted]
Salut Asbestos Technician

1/31/90
Date

SoLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: Nat'l Archives Bldg. Project: N.W. Sub-Basement

Location: N.W. Sub-Basement Date: 1/31/90

Removal Contractor: Marcor Time Started: 6:30 AM

Monitoring Contractor: Salut Time Stopped: 2:00 PM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp HEPA yes PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Note: No abatement performed only tiny cleaning

Report Prepared By: (b) (6) [redacted] Date: 1/31/90

SaLUT Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823

QUALITY CONTROL / CHAIN OF CUSTODY

Project National Archives Bldg. Date 1-31-90

Project # 3089-091-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM-1

Microscope Field Area .00785 f/mm2

Phase Ring Alignment

Phase Shift Test Slide (HSE/NPL) 1-3 ALL

4-5 SOME

6-7 NONE

QC Reference Slide # 6 63.29 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 91-5-1-31-1 thru 91-5-1-31-8

QC Check Sample # 91-5-1-31-6 1st Read 5.09 f/mm2

2nd Read 7.69 f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 1-31-90

Samples Analyzed by Ron Stallard Date 1-31-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

Project: National Archives Bldg

Job No.: SL 89- 041-5

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-5-2-1-1	FB				
41-5-2-1-2	FB				
41-5-2-1-3	WA	249	622.5	By exit to decon	<.01
41-5-2-1-4	EV	249	622.5	In steam rm by exh	<.01
41-5-2-1-5	EV	249	622.5	Outside steam rm	<.01
41-5-2-1-6	EV	249	622.5	By subfan A11-1B	<.01
41-5-2-1-7	EV	249	622.5	Clean rm	<.01
41-5-2-1-8	EV	249	622.5	By carpenter shop	<.01

BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

SoLUT Soil and Land Use Technology, Inc.
03 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

roject: Natl. Archives Bldg.
ob No: SL89-041-5
ame: Ron Stallard

Client: GSA
Date: 2/1/90 Time on-site: 6:00 PM to 7:30 AM
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-5-2-1-1	FB	—	—	—	—	—	1.5/100	—	BLANK
41-5-2-1-2	FB	—	—	—	—	—	3/100	—	BLANK
41-5-2-1-3	WA	2.5/6:31	2.5/10:40	249	622.5	by Exit to Decon	4/100	<.01	SL-29
41-5-2-1-4	EV	2.5/6:31	2.5/10:40	249	622.5	In Steam Rm by Exhaust	3.5/100	<.01	SL-17
41-5-2-1-5	EV	2.5/6:31	2.5/10:40	249	622.5	outside Steam Rm	1/100	<.01	SL-20
41-5-2-1-6	EV	2.5/6:31	2.5/10:40	249	622.5	by Subfan A11-1B	4.5/100	<.01	SL-10
41-5-2-1-7	EV	2.5/6:31	2.5/10:40	249	622.5	Clean Rm	3.5/100	<.01	SL-23
41-5-2-1-8	EV	2.5/6:31	2.5/10:40	249	622.5	by Carpenter Shop	2/100	<.01	SL-2

COMMENTS: Rotometer SR-6 was used to calibrate pumps

ey: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Bank

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SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00PM - Arrived on site w/15 Marcon workers & inspected containment; everything O.K.
6:30 - Workers entered containment for last of fine cleaning. Neg. air was -.03
8:00 - Break
9:00 - Workers re-entered containment & continued last of fine cleaning
10:45 - fine cleaning all complete so, final visual began along w/ Supervisor "Scott." All pipes, elbows, hangers & duct work was very clean. Some debris was found in crawl space in W. side of containment so, one worker wet wiped & area was O.K.
11:00 - final visual complete & O.K. was given to encapsulate. Workers took 1hr. break @ this time.
12:00 - Workers entered containment & picked up all tools, towels, etc.
1:00 - Workers began encapsulation
3:15 - All encapsulation complete
3:45 - final air clearance samples began.
7:05 - final samples ~~one~~ taken off & analyzed & below .01 so, permission to tear down containment given
7:30 - Work Day Done

(b) (6) [redacted]
Saltt Asbestos Technician

2/1/90
Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: National Archives Bldg. Project: N.W. Sub-Basement

Location: N.W. Sub-Basement Date: 2/1/90

Removal Contractor: Marcor Time Started: 6:15

Monitoring Contractor: Salut Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	N/A	
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts, drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____ HEPA yes PAPR ____ TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking	yes	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 2/1/90

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823

QUALITY CONTROL / CHAIN OF CUSTODY

Project Nat'l. Archives Bldg. Date 2-1-90

Project # SL89-041-5 SaLUT Technician Ron Stallard

MICROSCOPE CALIBRATION

Microscope ID Number SM1

Microscope Field Area .00785 f/mm2
Phase Ring Alignment
Phase Shift Test Slide (HSE/NPL) 1-3 ALL
4-5 SAME
6-7 NONE

QC Reference Slide # 6 493.76 f/mm2

Lab Reference Value _____ f/mm2

FIELD SAMPLE CONTROL

Samples Collected ID#'s 41-5-2-1-1 thru 41-5-2-1-8

QC Check Sample # _____ 1st Read _____ f/mm2

2nd Read _____ f/mm2

Laboratory Analyst _____ Lab Read _____ f/mm2

Samples Collected by Ron Stallard Date 2-1-90

Samples Analyzed by Ron Stallard Date 2-1-90

SaLUT Technician Signature (b) (6) [redacted]

Relinquished by: _____ Date - -

Relinquished by: _____ Date - -

SaLUT

SUB-BASEMENT

NORTHWEST

FINAL INSPECTION

2/1/90

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Project: N.W. Sub-Basement

Location: N.W. Sub-Basement Date: 2/1/90

Removal Contractor: Marcor Time Inspected: 10:45 PM

Monitoring Contractor: Salut Time Completed: 11:30 PM

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-S-2-1-1A	41-S-2-1-2A	41-S-2-1-3A	41-S-2-1-4A	41-S-2-1-5A
Location:	by unit #3	by Crawl Spaces W.	by Decon Exit	by Unit #1	by unit #2
Volume (Liters):	1960(l)	1960(l)	1960(l)	1960(l)	1960(l)
Flow rate: (Liters/Minute)	10(l/m)	10(l/m)	10(l/m)	10(l/m)	10(l/m)
Fibers/Filter:	2/100	2.5/100	4/100	3/100	2/100
Fibers/Cubic Cm:	<.01	<.01	<.01	<.01	<.01

ANALYST ANALYZING SAMPLES: Ron Stallard DATE: 2/1/90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 2/1/90

REPORT REVIEWED BY: _____ DATE: _____

SaLUT

ELEVATOR SHAFT

GLOVE BAG REMOVAL

2/3/90

SaLUT

Project: National Archives
Job No.: SL89-41-4

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
2-3-41-4-1	FB				
2-3-41-4-2	FB				
2-3-41-4-3	PS	215	537.5	SSP Phanh	Overloaded
2-3-41-4-4	WA	210	525	Inside pipe case	.01
2-3-41-4-5	EV	120	300	In locker rm 6' off floor	<.01
2-3-41-4-6	FC	100	1500	Elevator shaft 11-12 east	<.01
2-3-41-4-7	FC	100	1500	Elevator shaft 13-14 west	<.01
2-3-41-4-8	WA	55	137.5	In elevator rm W 13-14	<.01
2-3-41-4-9	WA	60	180	In elevator shaft 11-12 east	.01
2-3-41-4-10	FC	100	1500	Mens locker rm	<.01
2-3-41-4-11	PS	105	315	Acu #1 return	<.01
2.3-41-4-12	WA	110	385	Overhead steam line 1A	<.01
2-3-41-4-13	FC	100	1500	Inside air handler unit	<.01
2-3-41-4-14	FC	100	1500	Overhead above 1A	<.01

BG - Background WA - Work Area PS - Personal
EV - Environmental FC - Final Clearance FB - Field Blank

SaLUT
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AIR TEST SAMPLING DATA SHEET

Project: NATIONAL ARCHIVES
Job No: SL 89-41-4
Name: TIM LONG

Client: GSA
Date: 2-3-90 Time on-site: 8 30 to 1 30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
2-3-41-4-1	FB	—	—	—	—	—	.5/100	—	FIELD BLANK
2-3-41-4-2	FB	—	—	—	—	—	0/100	—	FIELD BLANK
2-3-41-4-3	PS	10 25 / 2.5	2 00 / 2.5	215	537.5	WORN BY SOM SOUK PHIM PHANH	OVERLOADED WITH DEBRIS		SL-28 / MENS LOCKER ROOM
2-3-41-4-4	WA	10 30 / 2.5	2 00 / 2.5	210	525	INSIDE PIPE CHASE	15/100	.01	SL-15 / MENS LOCKER ROOM
2-3-41-4-5	EV	10 30 / 2.5	12 30 / 2.5	120	300	IN LOCKER ROOM 6' OFF FLOOR	4/100	<.01	SL-19 / MENS LOCKER ROOM
2-3-41-4-6	FC	2 35 / 15.0	4 15 / 15.0	100	1500	ELEVATOR SHAFT 11-12 EAST	3/100	<.01	SH-6 / MENS ~~LOCKER ROOM~~
2-3-41-4-7	FC	2 00 / 15.0	3 40 / 15.0	100	1500	ELEVATOR SHAFT 13-14 WEST	6/100	<.01	SH-16 / MENS ~~LOCKER ROOM~~
2-3-41-4-8	WA	12 35 / 2.5	1 30 / 2.5	55	137.5	IN ELEVATOR ROOM W. 13-14	1.5/100	<.01	SL-19
2-3-41-4-9	WA	1 35 / 3.0	2 35 / 3.0	60	180	IN ELEVATOR SHAFT 11-12 EAST	3.5/100	.01	SL-19
2-3-41-4-10	FC	2 10 / 15.0	3 50 / 15.0	100	1500	MENS LOCKER ROOM	4.5/100	<.01	SH-13
2-3-41-4-11	PS	2 30 / 3.0	4 15 / 3.0	105	315	ACU #1 RETURN	2/100	<.01	SL-28
2-3-41-4-12	WA	3 10 / 3.5	5 00 / 3.5	110	385	OVER HEAD STEAM LINE 1A	6.5/100	<.01	SL-15
2-3-41-4-13	FC	4 30 / 15.0	6 10 / 15.0	100	1500	INSIDE AIR HANDLER UNIT	2/100	<.01	SH-16
2-3-41-4-14	FC	5 00 / 15.0	6 40 / 15.0	100	1500	OVERHEAD ABOVE 1A	6/100	<.01	SL-6

COMMENTS: Low Volume pumps Calibrated using Rotometer SR #16
High Volume pumps Calibrated using SR # 2

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final clearance
PS - Personal
FB - Field Blank

SaLUT
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Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

8:30 ARRIVED ON SITE
850 WORKERS ARRIVE
9:00 AT WORK AREA AND START TEARING DOWN PREVIOUS CONTAINMENT
9:30 SUPERVISOR ARRIVES FROM MARCOR
9:45 VISUALLY INSPECT GLOVE BAG AREAS IN THREE AREAS FLOORS MUST BE HEPA VACCUMED
10:00 START PREPING AREAS FOR ABATEMENT Vaccuming and laying poly on the floor
11:00 BREAK FOR LUNCH
12:00 Continue work start cleanup in elevator Rooms
12:35 START GLOVEBAG PROCEEDURE ELE 13-14
1:30 finish 13-14 start ON ELE 11-12
2:00 START FINALS IN ELE 13-14 / AND IN MENS LOCKER ROOM
2:30 START FINALS IN ELE 11-12
2:30 START PERSONAL IN ACU #1 RETURN
3:10 / 3:40 START WORK AREA SAMPLE ON LINE 1A / ELE SHAFT 13-14 OKED
4:15 FINAL CLEARENCE GIVEN ELE SHAFT 11-12
3:50 WOMANS LOCKER ROOM OKED CLEARENCE → ~~ON BACK~~ NEXT PAGE

(b) (6) [redacted]
Salut Asbestos Technician

2-3-90
Date

SaLUT
Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090
Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

5:00 Removal finished on Line 1A also
Encapsulation finished and visually inspected
Start Final Air samples
6:10 Air samples are within limits on
Air Handler Unit
6:40 Air samples are within limits on
Overhead Line above fan 1A
7:00 Leave Site

(b) (6) [redacted]

Salut Asbestos Technician

2-3-90

Date

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES Project: GSA

Location: SUB BASEMENT Date: 2-3-90

Removal Contractor: MARCOR Time Started: 9^00

Monitoring Contractor: SALUT Time Stopped: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	YES	
	b. Decontamination Curtains	N/A	
	c. GLOVE BAG PROJ	YES	
	d. Seals around ducts, windows and doors	N/A	
	e. "Negative air machine" in use	YES	
	f. Negative pressure > .03"	N/A	
2. Signage	a. Caution Signs at vestibule entry.	N/A	
	b. OSHA SIGN (ASBESTOS)	ON BAGS	
	c. Dumpster, ducts, drums, and bags labelled	YES	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	YES	
	b. Removed Material Promptly Bagged.	YES	
	c. Debris Stored in removal area.	YES	

SaLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	YES	
	e. Material Kept Wetted Until Bagged.	YES	
4. Worker Protection	a. Disposable Clothing Used One Time.	YES	
	b. Proper NIOSH respirators.	Disp ____ HEPA ____ PAPR YES TYP"C" ____	
	c. Proper Decontamination Sequence Followed	YES	
5. Showers	a. Functioning?	N/A	
	b. Soap and Towels?	N/A	
	c. Used Each Departure?	N/A	
6. Work Habits In Work Area	a. No Smoking	YES	
	b. No Eating/Drinking	YES	

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 2-3-90

SaLUT Soil and Land Use Technology, Inc.

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: NATIONAL ARCHIVES Project: GLOVE BAG

Location: SUB BASMENT Date: 2-3-90

Removal Contractor: MARCOR Time Inspected: 6 00

Monitoring Contractor: SALUT INC Time Completed: 6 45

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is to assure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	YES	
	b. Horizontal Surfaces.	YES	
	c. Pipes.	YES	
	d. Ventilation Equipment.	YES	
(above eye level)	e. Horizontal surfaces.	YES	
	f. Pipes.	YES	
	g. Ductwork.	YES	
	h. Registers	YES	
	i. Lights.	YES	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	SH 6	SH16	SH13	SH-6	SH-16
Location:	EAST ELEVATOR SHAFT	WEST ELEVATOR SHAFT	LADIES LOCKER ROOM	FAN 1A	AIR HANDLING UNIT
Volume (Liters):	1500	1500	1500	1500	1500
Flow rate: (Liters/Minute)	15.0	15.0	15.0	15.0	15.0
Fibers/Filter:	3/100	6/100	4.5/100	2/100	6/100
Fibers/Cubic Cm:	<.01	<.01	<.01	<.01	<.01

ANALYST ANALYZING SAMPLES: Timothy A. Fox DATE: 2-3-90

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: Timothy A. Fox Date: 2-3-90

REPORT REVIEWED BY: (b) (6) [redacted] DATE: 2-7-90

OCCUPATIONAL
MEDICAL CENTER, P. A.

Empire Medical Building, Suite 202, 200 Hospital Drive, Glen Burnie, MD 21061 301-760-7560

ASBESTOS ASSESSMENT

of the

Archives Building Sub-Basement
Washington, D.C.
DC0006ZZ

MICHAEL J. LARSEN, C.I.H.
January 15, 1985

Submitted to: Mr. Peter Gillson
General Services Administration
Accident and Fire Prevention Branch
7th and D Streets, S.W., Room 2034
Washington, D.C. 20407

BACKGROUND:

The General Services Administration's (GSA) Accident and Fire Prevention Branch has contracted to have firestopping installed around pipes where they penetrate walls in the sub-basement of the Archives Building. The Occupational Medical Center (OMC) conducted an asbestos survey in the sub-basement at the request of GSA. The purpose of this survey was to identify asbestos material which may be encountered by workmen while installing the firestopping material.

INTRODUCTION:

The sub-basement of the Archives is a mechanical equipment area of approximately 77,000 square feet. This area contains numerous insulated air-handling units, air ducts and steam and water pipes. The sub-basement is sectioned with cinderblock walls, and insulated pipes pass through holes in the walls. The gaps in the wall around the pipes would allow a fire to more easily spread from one compartment to another.

The Occupational Medical Center was contracted to perform an inspection of the sub-basement area to evaluate the asbestos conditions which are likely to be encountered during the course of installing fire-stopping material. This inspection was performed on December 19, 1984. The survey consisted of a visual inspection of the area, at which time five (5) bulk samples and fourteen (14) surface residue samples were taken.

The bulk samples were taken from pipes and ducts using NIOSH recommended procedures. The sample areas were chosen to identify the content of the insulation on pipes that were suspected of containing asbestos.

The surface residue samples were taken from the floor, pipes and ledges under pipes and ducts with damaged asbestos insulation. The samples were taken by vacuuming dust into a 37 millimeter mixed ester filter

vacuumed with HEPA-filtered vacuums, and wet cleaned. At the same time, all damaged asbestos insulation should be sprayed with a bridging encapsulant. This will prevent further contamination of the area until the asbestos can be removed.

(2) The workers installing firestopping should wear respirators, and the air quality of the work area should be monitored with periodic air samples.

DISCUSSION:

This survey located asbestos insulation on pipes and ducts in the sub-basement. A large proportion of the insulated pipe in the affected area has been reinsulated with fiberglass. However, pipes insulated with preformed asbestos and air cell asbestos still remain. The insulation on many of these pipes has deteriorated and become friable.

The ducts and air-handling units are also insulated with asbestos material. This material is very friable in places, and asbestos insulation has fallen to the floor.

The surface residue samples of dust from pipes, ledges and the floors tested positive for asbestos in only one instance. However, pieces of asbestos insulation material were observed on the floor throughout the area.

The asbestos conditions found in the sub-basement of the Archives are similar to those found in most federal buildings of the same age. These conditions place maintenance workers at risk whenever asbestos insulation must be penetrated or work in an area where asbestos dust may become airborne. Proper measures must therefore be taken to protect the workers health whenever these conditions exist.

RECOMMENDATIONS:

It is recommended that the following measures be taken in connection with the installation of the firestopping.

(1) Prior to commencing work, the sub-basement should be completely cleaned using GSA asbestos abatement procedures. This will involve sheeting-off the effected areas, and installing a microtrap, to prevent the spread of asbestos fibers during the clean-up operation. The area should then be

cassette using a hi-flow air sampling pump.

The bulk and surface residue samples were analyzed for asbestos by Versar, Inc., an AIHA accredited laboratory, using polarized light microscopy and dispersion staining. Versar participates in the EPA's Proficiency Analytical Testing Program for bulk asbestos analysis.

The sample results are listed below and sample locations are marked on the floor plan in Appendix A.

RESULTS: By Percentage (%)

Sample Number	Asbestos	Cellulose	Fibrous Glass	Binding Material	Unidentified Organic Polymer
A-1	15-20 C*	trace	---	35-40	---
	35-40 A**				
A-2	45-55 C	---	---	40-45	---
AR-12-19-B1	1-5 C	75-80	---	10-15	---
AR-12-19-B2	35-40 C	1-5	---	50-55	---
AR-12-19-B3	5-10 CR***	5-10	---	55-60	---
	15-20 C				
AR-12-19-B4	15-20 C	50-55	---	15-20	1-5
AR-12-19-B5	60-65 C	5-10	1-5	15-20	---
AR-12-19-W1	yes C	yes	yes	yes	yes****
AR-12-19-W2	---	yes	yes	yes	---
AR-12-19-W3	---	yes	yes	yes	---
AR-12-19-W4	---	yes	yes	yes	yes
AR-12-19-W5	---	yes	---	yes	---
AR-12-19-W6	---	yes	yes	yes	yes
AR-12-19-W7	---	yes	yes	yes	yes
AR-12-19-W8	---	yes	yes	yes	---
AR-12-19-W9	---	yes	---	yes	---
AR-12-19-W10	---	yes	yes	yes	---
AR-12-19-W11	---	yes	yes	yes	yes
AR-12-19-W12	---	yes	yes	yes	---
AR-12-19-W13	yes C	yes	yes	yes	---
AR-12-19-W14	yes C	yes	yes	yes	yes

* C = Chrysotile
** A = Amosite
*** CR= Crocidolite
****yes= The sample was a dust sample and therefore no actual percentage was obtainable.

Versar INC.

Sample #: ASB84-7225

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 2

Batch Comments: Sample submitted by OMC

Field Sample #: A-1 Lab Sample #: Matrix: Bulk

Date Received: 12/12/84 Date Collected: 12/05/84 Date Reported: 12/18/84

Location: Debris from floor.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: White

Asbestos

	Type(s)	Percentage
1.	Chrysotile	15-20 %
2.	Amosite	35-40 %
3.		%
4.		%
5.		%

Total Percent Asbestos 50-60 %

Non-Asbestos Fibrous

	Type	Percentage
1.	Cellulose	Trace %
2.		%
3.		%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	35-40 %
2.		%
3.		%

Comments:

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

K. Durako
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7226

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 2

Batch Comments: Sample submitted by OMC

Field Sample #: A-2 Lab Sample #: Matrix: Bulk

Date Received: 12/12/84 Date Collected: 12/05/84 Date Reported: 12/18/84

Location: Top of air handling unit.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: White

Asbestos

Type(s)	Percentage
1. Chrysotile	50-55 %
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos 50-55 %

Non-Asbestos Fibrous

Type	Percentage
1.	%
2.	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	40-45 %
2.	%
3.	%

Comments:

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

K. Durako
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Versar INC.

Sample #: ASB84-7769

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-B1 Lab Sample #: Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: From chill water pipe in fan room no. 6.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown

Asbestos

Type(s)	Percentage
1. Chrysotile	1- 5 %
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos 1- 5 %

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	75-80 %
2.	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	10-15 %
2.	%
3.	%

Comments:

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7770

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-B2 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: From fan room no. 6 where 4 pipes enter the ceiling.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Gray

Asbestos

Type(s)	Percentage
1. Chrysotile	35-40 %
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos 35-40 %

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	1- 5 %
2.	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	50-55 %
2.	%
3.	%

Comments:

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7771

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-B3 Lab Sample #: Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: From 2 1/2" water pipe in refrigerator and compressor room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: White

Asbestos

	Type(s)	Percentage
1.	Crocidolite	5-10 %
2.	Chrysotile	15-20 %
3.		%
4.		%
5.		%

Total Percent Asbestos 20-30 %

Non-Asbestos Fibrous

	Type	Percentage
1.	Cellulose	5-10 %
2.		%
3.		%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	55-60 %
2.		%
3.		%

Comments:

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7772

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-B4 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: From a friable pipe in the pump room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown

Asbestos

	Type(s)	Percentage
1.	Chrysotile	15-20 %
2.		%
3.		%
4.		%
5.		%

Total Percent Asbestos 15-20 %

Non-Asbestos Fibrous

	Type	Percentage
1.	Uniden. Organic Polymer	1- 5 %
2.	Cellulose	50-55 %
3.		%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	15-20 %
2.		%
3.		%

Comments:

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7773

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-B5 Lab Sample #: Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: Taken in room no. 3 from friable duct.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Gray

Asbestos

	Type(s)	Percentage
1.	Chrysotile	60-65 %
2.		%
3.		%
4.		%
5.		%

Total Percent Asbestos 60-65 %

Non-Asbestos Fibrous

	Type	Percentage
1.	Fibrous Glass	1- 5 %
2.	Cellulose	5-10 %
3.		%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	15-20 %
2.		%
3.		%

Comments:

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7774

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W1 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: Floor of fan room no. 6 under firestops.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1. Chrysotile	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos ____ %

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	%
2. Uniden. Organic Polymer	%
3. Fibrous Glass	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample, no percentage quantification.

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7775

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W2 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: From I beam in fan room. Six on opposite side of the room from W1.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

	Type(s)	Percentage
1.		%
2.		%
3.		%
4.		%
5.		%

Total Percent Asbestos ____%

Non-Asbestos Fibrous

	Type	Percentage
1.	Cellulose	%
2.	Fibrous Glass	%
3.		%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	%
2.		%
3.		%

Comments: Dust sample, bias results insufficient amount of sample to analyse accurately.

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7776

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W3 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: Taken from a pipe in the steam room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

	Type(s)	Percentage
1.		%
2.		%
3.		%
4.		%
5.		%

Total Percent Asbestos ____%

Non-Asbestos Fibrous

	Type	Percentage
1.	Cellulose	%
2.	Fibrous Glass	%
3.		%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	%
2.		%
3.		%

Comments: Dust sample, bias results insufficient amount of sample to analyse accurately.

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7777

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W4 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/28/84

Location: From behind a water tank in the corner of the debris room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1.	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos ____ %

Non-Asbestos Fibrous

Type	Percentage
1. Fibrous Glass	%
2. Cellulose	%
3. Unid. Organic Polymer	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Versar INC.

Sample #: ASB84-7778

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W5 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: Wipe - from on top of electrical boxes beneath some damaged asbestos pipes.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

	Type(s)	Percentage
1.		%
2.		%
3.		%
4.		%
5.		%

Total Percent Asbestos ____ %

Non-Asbestos Fibrous

	Type	Percentage
1.	Cellulose	%
2.		%
3.		%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	%
2.		%
3.		%

Comments: Dust sample bias results; insufficient amount of sample to analyze accurately.

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7779

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W6 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: From tops of several boxes under fire stops.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1.	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos ____%

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	%
2. Unid. Organic Polymer	%
3. Fibrous Glass	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Versar INC.

Sample #: ASB84-7780

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W7 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: From on top of equipment along wall of refrigerating and compressor room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

	Type(s)	Percentage
1.		%
2.		%
3.		%
4.		%
5.		%

Total Percent Asbestos ____ %

Non-Asbestos Fibrous

	Type	Percentage
1.	Cellulose	%
2.	Unid. Organic Polymer	%
3.	Fibrous Glass	%

Non-Asbestos/Non-Fibrous

	Type	Percentage
1.	Binding Material	%
2.		%
3.		%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7781

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W8 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: From on top of a pipe in back left corner of refrigerating and compressor room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1.	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos ____%

Non-Asbestos Fibrous

Type	Percentage
1. Fibrous Glass	%
2. Cellulose	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7782

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W9 Lab Sample #: Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: Below fire stops with open cell asbestos pipes coming through them, back left corner of pump room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1.	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos %

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	%
2.	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample bias result insufficient amount to analyze accurately.

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Versar INC.

Sample #: ASB84-7783

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W10 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: From on top of a pipe under a fire stop in the right corner of the pump room.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1.	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos ____%

Non-Asbestos Fibrous

Type	Percentage
1. Fibrous Glass	%
2. Cellulose	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

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Sample #: ASB84-7784

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W11 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: From corner of room No. 3 under air ducts.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1.	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos %

Non-Asbestos Fibrous

Type	Percentage
1. Fibrous Glass	%
2. Cellulose	%
3. Unid. Organic Polymer	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

Form ASB-1 1-84
0489t

6850 VERSAR CENTER • P.O. BOX 1549 • SPRINGFIELD, VIRGINIA 22151 • TELEPHONE: (703) 750-3000 • TELEX: 901125

Versar INC.

Sample #: ASB84-7785

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W12 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: From top surface of electrical conduits under friable duct.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1.	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos %

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	%
2. Fibrous Glass	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample bias result insufficient amount to analyze accurately.

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

Form ASB-1 1-84
0489t

Versar INC.

Sample #: ASB84-7786

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W13 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: Back of room 3 where duct enters wall.

Gross Description

Friable	✓
Fibrous	✓
Homogenous	✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1. Chrysotile	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos ____%

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	%
2. Fibrous Glass	%
3.	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

Form ASB-1 1-84
0489t

6850 VERSAR CENTER • P.O. BOX 1549 • SPRINGFIELD, VIRGINIA 22151 • TELEPHONE: (703) 750-3000 • TELEX: 901125

Versar INC.

Sample #: ASB84-7787

LABORATORY REPORT - BULK ASBESTOS ANALYSIS

Site: Archives

Project/Task: 821.84.6 Batch #: 3

Batch Comments: Sample submitted by OMC

Field Sample #: AR-12-19-W14 Lab Sample #: _____ Matrix: Bulk

Date Received: 12/20/84 Date Collected: 12/19/84 Date Reported: 12/31/84

Location: Back of room 3 on floor.

Gross Description

Friable ✓
Fibrous ✓
Homogenous ✓

Color/Appearance: Brown/Gray

Asbestos

Type(s)	Percentage
1. Chrysotile	%
2.	%
3.	%
4.	%
5.	%

Total Percent Asbestos %

Non-Asbestos Fibrous

Type	Percentage
1. Cellulose	%
2. Fibrous Glass	%
3. Unid. Organic Polymer	%

Non-Asbestos/Non-Fibrous

Type	Percentage
1. Binding Material	%
2.	%
3.	%

Comments: Dust sample

Bulk Asbestos samples are analyzed by trained microscopists, using Polarized Light Microscopy with dispersion staining. Analysts are trained by EPA McCrone Research Institute utilizing the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

L. Boucher
Asbestos Analyst

W. Corey Thompson
Senior Asbestos Analyst

Robert E. Maxfield
Manager

Form ASB-1 1-84
0489t

6850 VERSAR CENTER • P.O. BOX 1549 • SPRINGFIELD, VIRGINIA 22151 • TELEPHONE: (703) 750-3000 • TELEX: 901125

APPENDIX A

Pentagon Floor Plan

OCCUPATIONAL MEDICAL CENTER, INC.

490 L'Enfant Plaza East, S.W., Suite 4300, P.O. Box 23580, Washington, D.C. 20026 (202) 488-7990

January 16, 1986

Asbestos Assessment
National Archives

DC0006ZZ
~~DC006ZZ~~ 40-43

PERFORMED FOR:

General Services Administration
Accident and Fire Prevention Branch - WPSA
ROB ROOM 2034
7th and D Streets, S.W.
Washington, DC 20407

Contract # GS-11C-40323 Work Request # N/A

ATTN: Mr. Jesse Walter Jr.

5/29/86

At the request of GSA's Accident and Fire Prevention Branch, the Occupational Medical Center has conducted an asbestos assessment survey of the National Archives located at 7th & Pennsylvania Ave., N.W. during the day(s) of February 4-11, 1986.

The assessment for asbestos containing materials (ACM) was accomplished through visual identification of areas where suspected ACM occurred.

Asbestos containing material was found on every floor of the National Archives Building. Special attention should be paid to the insulated pipes inside of the air handling units of the Sub-Basement and office (see assessment forms #4,6,7,8,9,11,76, & 77). The risk of asbestos material spreading throughout the work space will increase as the pipe covering deteriorates.

Three ambient air samples were taken to test air quality, one in the basement, one on the second floor and one in Rm. #20W, "Archival Publications". All results were negative. Areas tested that did not contain asbestos were ceiling plaster, ceiling tiles in basement offices, and ceiling tiles of the auditorium.

If there are any questions concerning this matter please do not hesitate to contact this office.

Sincerely yours,

(b) (6)
[redacted]

Michael J. Larsen, C.I.H.
Director, Industrial Hygiene Services

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National Archives

Sheet Number	Location in Building
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ARCHVS-7	Sub-Basement, Return AHU#7 & Air Duct Behind Pipe Insulation
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ARCHVS-14	Sub-Basement, Pump Room Pipe Insulation
ARCHVS-15	Sub-Basement, Fan Room #3 Pipe Insulation
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ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Northeast Moat entrance on 7th St.

DATE OF ASSESSMENT: 2/6/86

SQUARE FEET: 80

TOTAL OCCUPANTS: < 2

EPA SITE RANKING:
- RANK 1
- RANK 2
- RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: horizontal pipe

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- Acoustical plaster
- Other:

Water Damage
- No water damage
- Minor water damage
- X Major water damage

Accessibility
- Not accessible
- Rarely accessible
- X Accessible

Friability
- Non-friable
- X Friable

Pipe or Boiler Insulation
- Not present
- Present but not damaged
- X Present and damaged

Activity and Movement
- None or low activity
- Moderate activity
- X High activity

Damage or Deterioration
- No damage or deterioration
- Moderate damage or deterioration
- X Severe damage or deterioration

Exposed Surface Area
- Material not exposed
- 10% or less exposed
- X >10% exposed

Air Plenum
- No plenum or direct airstream
- X Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-6-B1	15-20%C
ARCHVS-02-6-B2	10-15% C
ARCHVS-02-6-B3	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- Enclosure
- Abatement not needed

When Recommended
- During planned alteration, or
- X Abatement action needed sooner

Comments

NAD= No Asbestos Detected

Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- Controls not needed
- Other

Visual Inspection and Air Monitoring
- Monthly
- X Quarterly
- Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
N-E MOAT ENTRANCE HORIZONTAL PIPE

Number of Analysis - 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-B1

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN W/SOME GRAYED AREAS
COMMENTS
ALSO SOME BUFF AREAS

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 15 - 20%
Chrysotile [Mg3 Si2 O5 (OH)4 3 15 - 20%
*Asbestos Farm

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 70% - 75%
ACICULAR OPAQUE < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
CARBONATES
ADHESIUE
OPAQUES
COMMENTS
MAJORITY OF CHRYSOTILE WAS FOUND IN THE LIGHTER COLORED MOTTLED AREAS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/06
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-4209

** LOCATION **
SAME AS B1

Number of Analysis = 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-B2

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: MOTTLED GRAY AND DARK GRAY
COMMENTS
A PIECE OF CHEESE CLOTH AND CARDBOARD PRESENT ALSO SOME BLACK PETROLEUM BASED PRODUCT WAS FOUND IN THE BOTTOM OF THE UIAL

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 10 - 15%
Chrysotile [Mg3 Si2 05 (OH)4 3 10 - 15%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 60% - 65%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
ADHESIUE
OPAQUES
UARIOUS OTHER MATERIALS
QUARTZ

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SAME AS B1

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B3

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: MOTTLED GRAY AND BROWN
COMMENTS
A PIECE OF CHEESE CLOTH IS INCLUDED

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 90% - 95%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
CARBONATES
UARIOUS OTHER MATERIALS
ADHESIVE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Moat entrance from Photo Lab

DATE OF ASSESSMENT: 2/6/86

SQUARE FEET: approx 64

TOTAL OCCUPANTS: 2

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4
No rank

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
X Fireproofing/insulation
__ Acoustical plaster
__ Other: _____

Water Damage
__ No water damage
X Minor water damage
__ Major water damage

Accessibility
__ Not accessible
__ Rarely accessible
X Accessible

Friability
__ Non-friable
X Friable

Pipe or Boiler Insulation
__ Not present
__ Present but not damaged
X Present and damaged

Activity and Movement
__ None or low activity
__ Moderate activity
X High activity

Damage or Deterioration
__ No damage or deterioration
X Moderate damage or deterioration
__ Severe damage or deterioration

Exposed Surface Area
__ Material not exposed
__ 10% or less exposed
X >10% exposed

Air Plenum
__ No plenum or direct airstream
X Plenum or direct airstream present

Type of material sampled:
insulation/ vertical pipe

Sample Number	Result
ARCHVS-02-6-B4	NAD
ARCHVS-02-6-B5	NAD
ARCHVS-02-6-B6	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
__ Removal
__ Encapsulation
__ Enclosure
__ Abatement not needed

When Recommended
__ During planned alteration, or
__ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
__ Special maintenance
__ Special cleaning
__ Special alteration & demolition
X Controls not needed
__ Other _____

Visual Inspection and Air Monitoring
__ Monthly
__ Quarterly
__ Annually

Comments

NAD = No Asbestos Detected

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINO
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Recaived: 02/06/86
Dats Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-9208

** LOCATION **
MOAT DOOR WAY TO PHOTO LAB UERT. PIPE

Number of Analysis = 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-B4

OROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BLACK
COMMENTS
WHITE PAINT-LIKE MATERIAL ON ONE SURFACE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
OROANIC FIBER 5% - 10%
FIBERGLASS 75% - 80%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 1 0 - 15%
CARBONATES
GLASS
ADHESIUE
UARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/06
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SAME AS B4

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-BS

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY
COMMENTS
SMALL PIECES OF PAINT INCLUDED

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 5% - 10%
FIBERGLASS 75% - 804

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 104 - 15%
CARBONATES
ADHESIVE
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-4209

** LOCATION **
SAME AS B5

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B6

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BLACK
COMMENTS
SOME CHUNKS OF BLACK MATERIAL ATTACHED

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 204 - 25%
FIBERGLASS 50% - 55%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
SILICATES

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave. N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Steam station in moat

DATE OF ASSESSMENT: 2/5/86

SQUARE FEET: 120

TOTAL OCCUPANTS: <2

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Water Damage
- __ No water damage
- __ Minor water damage
- X Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% a lens exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or la, activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled: Insulation

Sample Number	Result
ARCHVS-02-6-B14	30-35% 25-30% A
ARCHVS-02-6-B15	30-35%-C 30-35% A
ARCHVS-02-6-E16	30-35%Ch 30-35% A
ARCHVS-02-6-B17	NAD
ARCHVS-02-6-B18	40-45%

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- __ Special maintenance
- __ Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Comments

NAD= No asbestos detected
C= Chrysotile
A= Amosite

B14: vertical steampipe
B15: horizontal steampipe
B17: horizontal steampipe
B18: elbow of steampipe

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
STEAM STATION IN MOAT STEAM PIPE INSUL.

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B14

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Colar: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Psrcent - 60 - 65%

Chrysotile	C Mg3 Si2 05 (OH)4 3	30 - 35%
Amosite	C (Fe,Mg)7 Si8 022 (OH)2 3	25 - 30%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-4209

** LOCATION **
SAME AS B14

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B15

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[Mg3 Si2 05 (OH)4 3	30 - 35%
Amosite	[(Fe,Mg)7 Si8 022 (OH)2]	30 - 35%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Psrcent: 30% - 35%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-3209

** LOCATION **
SAME AS B14

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B16

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[Mg3 Si2 05 (OH)4 3	30 - 35%
Amosite	[(Fe,Mg)7 Si8 022 (OH)2]	30 - 35%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
OPAQUES
UARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Recsived: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SAME AS B14

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-06-B17

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: DIRTY YELLOW
COMMENTS
LARGE CLOTH SWATCH INCLUDED

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

FIBERGLASS	45% - 50%
SYNTHETIC FIBER	50% - 55%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
ADHESIUE
VARIOUS OTHER NATERIALS
COMMENTS
THE CLOTH SWATCH IS COMPOSED OF SYNTHETIC FIBERS

Anthony W. Creamer ONC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SAME AS B14 BUT ELBOW MUD

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B18

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY
COMMENTS
SMALL CLOTH SWATCH PRESENT

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 40 - 95%
Chrysotile [Mg3 Si2 O5 (OH)4] 90 - 95%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 20% - 25%
MINERAL WOOL 5% - 10%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
GLASS
CARBONATES
OPAQUES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: AHU-A-11-6B Return system 6

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET: 80

TOTAL OCCUPANTS: >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- X 10% or less exposed
- __ >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:

Sample Number	Result
ARCHVS-02-10-B1	25-30% C 1-5% A
-B2	35-40% C 5-10% Cr
-B3	60-65% C
-B4	1-3% C
-B5	NAD
-B6	NAD

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Comments

B1-3: vertical pipe inside airhandling unit

B5-6: horizontal pipe inside unit

NAD: No asbestos detected

Assessor: Cinalli/Rochalski

Title: Industrial Hygienist

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Dats Analyzed: 02/13/86
Date Reported: 03/13/66
Phone: 523-9209

** LOCATION **
SUB-BASEMENT AHU A-11-6B1 DOOR BEHIND PILLAR; TO LEFT INSIDE AIR HANDLING UNI

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B1

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 30 - 35%

Chrysotile	[Mg3 Si2 05 (OH)4 3	25 - 30%
Amosite	[(Fe,Mg)7 Si8 022 (OH)2]	1 - 5%

*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 60% - 65%
CARBONATES
OPAQUES

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-Y209

** LOCATION **
SAME AS B1

Number of Analysis - 56
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-10-B2

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 45 - 50%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	35 - 40%
Crocidolite	[$Na (Fe^{3+})_2 (Fe^{2+})_3 Si_8 O_{22} (OH)_2$]	5 - 10%

*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Dats Reported: 03/13/86
Phone: 523-Y209

** LOCATION **
SAME AS B1 BUT ELBOW MUD OF VERTICAL PIPE

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B3

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: YELLOW WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 60 - 65%
Chrysotile [Mg3 Si2 05 (OH)4 3 60 - 65%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 5% - 10%
ACICULAR OPAQUES (MAGNETITE) 1 - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
ADHESIUE
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-Y209

** LOCATION **
SUB-BASEMENT INSIDE AHU # A-11-6B RETURN AIR GOES BACK TO SUPPLY HORIZ. PIPE

Number of Analysis - 56
Job I.D.: ARCHVSO2
Lab I.D.: ARCHVSO2-02-10-B4

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIOHT BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 1 - 3%
Chrysotile [Mg3 Si2 05 (OH)4] 1 - 3%
*Asbestos Form

FIBROUS, NUN-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%
MINERAL WOOL 40% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 95% - 50%
CARBONATES
GLASS
SILICATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-9209

** LOCATION **
SAME AS B4

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B5

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF GRAY

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	1% - 5%
MINERAL WOOL	40% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINO
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B4

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-10-B6

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT BUFF

Asbestos prasent is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%
MINERAL WOOL 40% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
SILICATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-basement inside fresh air duct 6

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET: 200

TOTAL OCCUPANTS: > 10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Water Damage
- __ No water damage
- __ Minor water damage
- X Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-10-B7	40-45% C
ARCHVS-02-10-B8	NAD
ARCHVS-02-10-B9	65-70% C

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alterations, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Comments

C=Chrysotile
NAD = No Asbestos detected
Pre-heating of fresh air supply occurs here
B7-B8: elbow chilled water pipes
B9: chilled water strainer

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDINO
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/66
Phone: 523-4209

** LOCATION **
SUB-BASEMENT FRESH AIR DUCT #6 CHILLED WATER PIPE ELBOW MUD

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B7

OROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT ORAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - YO - 45%
Chrysotile [Mg3 Si2 O5 (OH)4] YO - 45%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH
(b) (6) [redacted]
Lab Supervisor

 03/31/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/66
Phane: 523-4209

** LOCATION **
SAME AS B7 BUT PIPE INSUL,

Number of Analysis - 56
Job I.D.: ARCHVS02
tab I.D.: ARCHVS02-02-10-B8

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN AND WHITE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	40% - 45%
HAIR	55% - 60%

Anthony W. Creamer

OMC Analyst: DAH

Lab Supervisor

Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B7 BUT CHILLED WATER STRAINER PIPE INSUL.

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-10-B9

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 65 - 70%
Chrysotile [Hg3 Si2 O5 (OH)4 3 65 - 70%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 304
ADHESIVE
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer

OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Airhandling unit 6 - mixed air return sub-basement

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET: 300

TOTAL OCCUPANTS: 0

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

Sample Number	Result
ARCHVS-02-10-B10	30-35% C 5-10% CR
ARCHVS-02-10-B11	35-40% C 10-15%CR
ARCHVS-02-10-B12	35-40% C 5-10% CR

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage a ckterioration
- X Severe damage or deterioration

Water Damage
- No water damage
- X Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% a less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or lac activity
- Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A Abatement Actions

Type of Action
- __ Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- __ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- __ Special maintenance
- __ Special cleaning
- __ Special alteration & demolition
- __ Cmttols not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- __ Annually

Comments

Source of material: horizontal pipe inside air handling unit

C = Chrysotile
CR = Crocidolite

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDINO
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-3209

** LOCATION **
AHU #6 AIR RETURN HORIZ. PIPE INSUL.

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B10

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 40 - 35%

Chrysotile	C Mg3 Si2 05 (OH)4]	30 - 35%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2 3 5	- 10%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 55% - 60%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Rsported: 03/13/86
Phons: 523-4209

** LOCATION **
SANE AS B10

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B11

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 50 - 55%

Chrysotile	[Mg3 Si2 05 (OH)4 3	35 - 40%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2 J10	- 15%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5 % - 50%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINQ
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINQTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-9209

** LOCATION **
SAME AS B10

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B12

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 45 - 50%

Chrysotile	[Mg3 Si2 05 (OH)4 3	35 - '40%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2 3	5 - 10%

*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 5% - 10%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent; 95% - 50%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Return Attic #7C & Airduct behind it

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET: 75 X 75

TOTAL OCCUPANTS: >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pip or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Activity and Movement
- __ None or la. activity
- __ Moderate activity
- X High activity

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- __ 10% a less exposed
- X >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During plamed alteration, or
- X Abatement action needed sooner

D. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Type of material sampled:

Insulation

Sample Number	Result
ARCHVS-02-10-B13	40-45% C
	10-15% Cr
-B14	20-25% C
	10-15% Cr
-B15	20-25% C
	5-10% Cr
-B16	10-15% C
	40-45% A
-B17	10-15% C
	45-50% A
-B18	10-15% C
	45-50% A

Comments

Air is pulled in & mixed with the return air then sent to different parts of the building

Types: B13-15 - Horizontal pipe. B16-18 - Outdoor pre-heated coil

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-3209

** LOCATION **
RETURN AHU #7C HORIZ. PIPE INSUL.

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-10-B13

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BEIGE AND BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 50%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	30 - 35%
Crocidolite	[$Na (Fe^{3+})_2 (Fe^{2+})_3 Si_8 O_{22} (OH)_2$]	10 - 15%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
UARIOUS OTHER MATERIALS

An on W. re mer OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY

Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/06
Date Reported: 03/13/06
Phone: 523-9209

** LOCATION **
SAME AS B13

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B14A

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BROWN AND LIGHT BUFF
COMMENTS
B14A, BROWN 504 OF SAMPLE B14B, LIGHT BUFF 50% OF SAMPLE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 80% - 85%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 1 5 - 20%
ADHESIUE
UARIOUS OTHER MATERIALS
COMMENTS
B14 (+B) TOTAL ASBESTOS CONTENT =30-35% CHRYSOTILE AND CROCIDOLITE

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-9209

** LOCATION **
SAME AS B13

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B14B

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BROWN + LIGHT BUFF
COMMENTS
A14B, BROWN 50% OF SAMPLE B14B, LIGHT BUFF 50% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 60 - 65%

Chrysotile	[Mg3 Si2 05 (OH)4 3	YO - 45%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2 315	- 20%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent; 35% - 40%
CARBONATES
UARIOUS OTHER MATERIALS
COMMENTS
B14 (A+B) TOTAL ASBESTOS CONTEND -30-35% CHRYSOTILE AND CROCIDOLITE

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINB
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINBTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/66
Date Reported: 03/13/86
Phone: 523-3209

** LOCATION **
SAME AS B13

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B15A

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BROWN AND LIGHT BUFF
COMMENTS
A15A, BROWN 60% B15B, LIGHT BUFF 40%

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORBANIC FIBER 80% - 85%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
ADHESIVE
VARIOUS OTHER MATERIALS
COMMENTS
B15(A+B) TOTAL ASBESTOS CONTENT - 20-25% CHRYSOTILE AND CROCIDOLITE

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-9209

** LOCATION **
SAME AS B13

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B15B

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BROWN AND LIGHT BUFF
COMMENTS
B15A, BROWN 60%; B15B, LIGHT BUFF 40%

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 50 - 55%

Chrysotile	[Mg3 Si2 O5 (OH)4]	40 - 45%
Crocidolite	[Nd (Fe3)2+ (Fe2)3+ Si8 O22 (OH)2]	5 - 10%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 95 - 50%
CARBONATES
VARIOUS OTHER MATERIALS
COMMENTS
B15 (A+B) TOTAL ASBESTOS CONTENT= 20-25% CHRYSOTILE AND CROCIDOLITE

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-Y209

** LOCATION **
BEHIND RETURN AIR AHU #7C-D AIRDUCT AREA INSUL. FROM A OUTDOOR PRE HEAT COIL

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B16

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIOHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 55 - 60%

Chrysotile	t Mg3 Si2 05 (OH)4 3	10 - 15%
Amosite	t (Fe,Mg)7 Si8 022 (OH)2 3	40 - 45%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 40% - 45%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phons: 523-3209

** LOCATION **
SAME AS B16

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-10-B17

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS:		Total Percent -	
Chrysotile	[Mg3 Si2 05 (OH)4]	60 -	65%
Amosite	[(Fe,Mg)7 Si8 022 (OH)2]	10 -	15%
		45 -	50%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: DAH

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B18

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%

Chrysotile	[Mg3 Si2 05 (OH)4 3	10 - 15%
Amosite	[(Fe,Mg)7 Si8 022 (OH)2 3	45 - 50%

*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - YO%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-Basement AHU#5 Mixed Air Return

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET 225

TOTAL OCCUPANTS >10

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-10-B19	30-35% C, Cr C
	20-25% Cr
-B20	35-40% C
	25-30% Cr
-B21	15-20% C
	10-15% Cr

Types: B19,20&21 - Horizontal pipes.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration,
- or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Comments

* Horizontal pipe is inside the air handling unit.

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-3209

** LOCATION **
MIXED AIR RETURN #3 HORIZ. PIPE INSIDE UNIT

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B19

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 55 - 60%

Chrysotile	t Mg3 Si2 O5 (OH)4]	30 - 35%
Crocidolite	t Ne (Fe3)2+ (Fe2)3+ Si8 O22 (OH)2	320 - 252

*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINQ
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/66
Date Reported: 03/13/86
Phone: 523-9209

** LOCATION **
SAME AS B19 HORIZONTAL PIPE INSUL.

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B20

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIQHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	C Mg3 Si2 O5 (OH)4]	35 - 90%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 O22 (OH)2]	25 - 30%

*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
OROANIC FIBER 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

SAME AS B19

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B21

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 12

MICROSCOPIC ANALYSIS: Total Percent = 30 - 35%

Chrysotile	[Mg3 Si2 O5 (OH)4 3	15 - 20%
Crocidolite	t Na (Fe3)2+ (Fe2)3+ Si8 O22 (OH)2 310	- 15%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent; 65% - 702
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

WILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave.. N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-Basement - fre'sh air return #3

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET 15 x 5

TOTAL OCCUPANTS >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-10-B22	15-20% C 10-15% Cr
-B23	15-20% C 10-15% Cr
-B24	15-20% C 10-15% Cr

TYPES: B22 - Horizontal pipe.
B24 - Inside AHU.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During plamed alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- __ Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Comments

Horizontal pipe is inside air handling handling unit.

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-Y209

** LOCATION **
SUB-BASEMENT FRESH AIR RETURN #3

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B22

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE ORAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 30 - 35%

Chrysotile	t Mg3 Si2 05 (OH)4 3	15 - 20%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2 3	10 - 15%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 65% - 70%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: CB

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINO
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B22

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B23

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 30 - 35%

Chrysotile	[Mg3 Si2 05 (OH)4]	15 - 20%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2	310 - 15%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 65% - 70%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/96
Date Reported: 03/13/86
Phone: 523-9209

** LOCATION **
SAME AS B22

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B24

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 30 - 35%

Chrysotile	[Mg3 Si2 05 (OH)4]	15 - 20%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 O22 (OH)2	310 - 15%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 65% - 70%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OHC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-Basement - pipe chase next to AHU #3 (on N. side of building)

DATE OF ASSESSMENT: 2/10/86

SQUARE FEET 20 x 75

TOTAL OCCUPANTS >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Water Damage
- __ No water damage
- __ Minor water damage
- X Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- X None or low activity
- __ Moderate activity
- __ High activity

Air Plenum
- X No plenum or direct airstream
- __ Plenum or direct airstream present

Type of material sampled:

Sample Number	Result
ARCHVS-02-10-B25&26	15-20% C
	15-20% Cr
-B27	20-25% C
	10-15% Cr

TYPE: All 3 samples - Horizontal pipe.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- X During planned alteration, or
- __ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- X Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINBTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/15/66
Date Reportad: 03/13/66
Phone: 523-9209

** LOCATION **
SUB-BASEMENT PIPE CHASE THAT RUNS EAST-WEST NEXT TO AHU #3

Number of Analysis - 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-10-B25

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE BRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 35 - 40%

Chrysotile	[Mg3 Si2 05 (OH)4 3	15 -	20%
Crocidolite	[Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2 3	15 -	20%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 60% - 65%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: CB

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-3209

** LOCATION **
SAME AS B25

Number of Analysis = 56
Job I.D.: ARCHV502
Lab I.D.: ARCHV502-02-10-B26

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%

Chrysotile	t Mg3 Si2 05 (OH)4]	15 - 20%
Crocidolite	t Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2]	15 - 20%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 60% - 65%
CARBONATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/10/86
Date Analyzed: 02/13/86
Date Reported: 03/13/86
Phone: 523-4209

** LOCATION **
SAME AS B25

Number of Analysis = 56
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-10-B27

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BLUE GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%

Chrysotile	t Mg3 Si2 05 (OH)4 3	20 - 25%
Crocidolite	t Na (Fe3)2+ (Fe2)3+ Si8 022 (OH)2 310	- 15%

*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 60% - 65%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

DATE OF ASSESSMENT: 2/6/86

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
X RANK 4

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

SQUARE FEET: Approximately 72

LOCATION IN BUILDING: Sub-Basement - AHU next to Fan I27

TOTAL OCCUPANTS: ____

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: ____

Friability
- Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% a leas exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-6-B22	40-45% C 25-30X Cr
-B23	20-25% C 30-35% Cr
-B24	15-20% C 15-20% Cr

SOURCES: All 3 samples - Horizontal pipe in AHU.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

Comments

Insulation inside AHU

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other ____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-4209

** LOCATION **
SUB-BASEMENT FAIR SUPPLY FAN THER ARE PAINES WITH INSUL. ON THEM

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B22

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	20% - 25%
MINERAL WOOL	55% - 60%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 1 - 20%
CARBONATES
GLASS
UARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Dats Reported: 03/12/86
Phone: 523-4209

** LOCATION **
SAME AS 822

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B23

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY W/ BLACKED AREAS

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%
Chrysotile [Mg3 Si2 O5 (OH)4] 65 - 70%
*Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Tatal Percent: 30% - 35%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINO
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/06/66
Date Analyzed: 02/12/66
Date Reported: 03/12/66
Phone: 523-9209

** LOCATION **
SAME AS B22

Number of Analysis - 51
Job I.D.: ARCHVSO2
Lab I.D.: ARCHUS02-02-06-B29

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIOHT ORAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 75 - 80%
Chrysotile [Mg3 Si2 05 (OH)4 3 75 - 80%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OHC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave.. N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-Basement - Fan 1/27

DATE OF ASSESSMENT: 2/16/86

SQUARE FEET Approx. 10 x 10 = 100 ft.^{2}

TOTAL OCCUPANTS <1

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-06-B19	NAD
-B20	NAD
-B21	NAD

SOURCE: All 3 samples - Inside fan 1/27.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- X Not present
- __ Present but not damaged
- __ Present and damaged

Activity and Movement
- __ None a low activity
- __ Moderate activity
- X High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FUR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- __ Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- __ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance L Operation
- __ Special maintenance
- __ Special cleaning
- __ Special alteration & demolition
- X Controls not needed
- __ Other

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDINO
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINOTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SUB-BASEMENT AHU #27(FAN #27) INSUL. COVERS THE INSIDE WALLS OF AHU

Number of Analysis = 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-B19

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BLACK

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 5% - 10%
MINERAL WOOL 55% - 60%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
ADHESIVE
UARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDINB
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINBTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SAME AS B19

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B20

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BLACK

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
MINERAL WOOL 65% - 70%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
ADHESIUE
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDINO
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Data Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SAME AS B19

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B21

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 30% - 35%
MINERAL WOOL YO% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OLASS
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-Basement - East-West Room behind elevator pits 4-9

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET: 20 x 20

TOTAL OCCUPANTS: <2

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or very activity
- X Moderate activity
- __ High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:

Sample Number	Result
ARCHVS-2-04-B≥1	70-75% C
-B≥2	15-20% C
-B≥3	10-15% C

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

Comments

*This pipe had areas of different insulation.

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Rnalyzed: 02/06/86
Date Reported: 03/12/86
F'hone: _

** LOCATION **
SAME AS B27 BUT ELBOW MUD ABOVE VALVE V-5-611

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B31

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN
COMMENTS
HAS SOME WHITE FIBEROUS SURFACE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 15 - 20%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 15 - 20%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 60% - 65%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

03/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: -

** LOCATION **

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B32

SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN
COMMENTS
HAS A WHITE FIBROUS SURFACE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 10 - 15%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 10 - 15%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 60% - 65%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
SILICATES

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICRL CENTER
LABORATORY
Polat-ized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B31

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B33

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	25 - 30%
Amosite	[$(Fe,Mg)_7 Si_8 O_{22} (OH)_2$]	35 - 40%

*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-Basement - Pump room

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET 50 x 100 = 5000 ft.^{2}

TOTAL OCCUPANTS 2

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Conttols not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Type of material sampled: Insulation

Sample Number	Result
ARCHVS-02-04-B23	25-30% C
-B24	NAD
-B25	NAD
-B26	NAD
-B27	NAD
-B28	40-45% C 10-15% Cr
-B29	70-75% C
-B30	70-75% C

SOURCES) B23 - E-W Horizontal pipe. B24 - N-S Pipe @ ceiling. B25 - N-S pipe @ ceiling. B26 - Boiler insulation (upper). B27 - Lower boiler.

COMMENTS: *There were many pipes with new insulation on them. *Other pipes were too-high to get samples from, these pipes seemed to be in the worse condition.

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SUB BASEMENT RM MAIN RM LEADING TO TM 3 E-W HORIZ. PIPE AT CEILING (INSUL...)

Number of Analysis = 4.5
Job I.D.: ARCHVS
Lab I.D. ARCHVS -02-04-B23

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 25 - 30%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 25 - 30%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 45% - 50%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
SILICATES
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: _

** LOCATION **
SAME AS B23 BUT N-S HORI. PIPE INSUL. AT CEILING

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B24

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 60% - 65%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B23 BUT A DIFFERENT N-S PIPE INSUL. (CLOSER TO THE WALL)

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D. ARC VS -02-04-B29

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: BROWN

Asbestos present is 0%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CORK
TAR

Anthony W. Creamer

OMC Analyst.: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Cantact: JERRY MISCO

Date Received: 02/07/86
Date Analyred: 02/06/86
Date Reported: 03/12/86
F'hone: _

** LOCATION **
SOME AS B23 BUT BOILER INSUL. FROM BOILER AT CEILING LEVEL

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B26

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: YELLOW

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	1% - 3%
FIBERGLASS	75% - 80%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
ADHESIVE
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAM

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE-
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported:: 03/12/86
Phone: -

** LOCATION **
SAME AS B23 BUT FARTHER BACK IN NORTH CORNER OF BUILDING BOILER INSUL.

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B27

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is 0%

FIBROUS NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	45% - 50%
SYNTHETIC FIBER	10% - 15%

THERE IS NON-FIBROUS MATERIAL PRESENT 'Total Percent: 35% - 40%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

03/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/85
Phone: -

** LOCATION **
SAME AS B27 BUT VENT PIPE INSULATION COMING OFF GRAY BOILER

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D. ARCHVS -02-04-B28

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 55 - 60%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	40 - 45%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	10 - 15%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: DAH

03/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
F'hone: -

** LOCATION **
SAME AS B27 BUT GRAY BOILER INSUL. CLOSEST TO CORNER

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B29

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT BUFF
COMMENTS
HAS A PAINTED GRAY SURFACE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 70 - 75%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 70 - 75%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUE 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
OPAQUES
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DRH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B27 BUT ELBOW MUD ABOVE VALVE V-5-611

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B30

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 75 - 80%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	60 - 65%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	10 - 15%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	< 1%
ACICULAR OPAQUE	1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave.. N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-Basement - Fan Room #3

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET 20 x 50 = 1000 ft.^{2}

TOTAL OCCUPANTS 2

EPA SITE RANKING:
- ___ RANK 1
- ___ RANK 2
- ___ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- ___ Acoustical plaster
- ___ Other: _____

Friability
- ___ Non-friable
- X Friable

Damage or Deterioration
- ___ No damage or deterioration
- X Moderate damage or deterioration
- ___ Severe damage or deterioration

Water Damage
- X No rater damage
- ___ Minor water damage
- ___ Major water damage

Pipe or Boiler Insulation
- ___ Not present
- X Present but not damaged
- ___ Present and damaged

Exposed Surface Area
- ___ Material not exposed
- X 10% a lass exposed
- ___ >10% exposed

Accessibility
- ___ Not accessible
- ___ Rarely accessible
- X Accessible

Activity and Movement
- ___ None a low activity
- X Moderate activity
- ___ High activity

Air Plenum
- ___ No plenum or direct airstream
- X Plenum or dltect airstream present

Sample Number	Result
ARCHVS-02-04-B19	NAD
-B20	35-40% C 10-15% Cr
-B21	70-75% C
-B22	15-20% C

SOURCES: B19 - Fan F-27-R6.
B20 - Cord. Ret. pipe insulation.
B21 - Cord. Ret. elbow mud.
B22 - Air duct insulation.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- ___ Enclosure
- ___ Abatement not needed

When R _____
- ___ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- ___ Controls not needed
- ___ Other _____

Visual Inspection and Air Monitoring
- ___ Monthly
- X Quarterly
- ___ Annually

Comments

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SUB BASEMENT FAN RM # TO THE RT. AND BACK AS YOU WALK THROUGH DOOR F-27-R6

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B19

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: ORANGE
COMMENTS
PAINTED PIECE OF PAPER BACKING INCLUDED

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	10% - 15%
FIBERGLASS	70% - 75%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
VARIOUS OTHER MATERIALS
ADHESIVE

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SAME AS B19 BUT ELBOW COND-RETURN WATER PIPE INSULATION

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B20

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE
COMMENTS
SMALL PIECES OF BROWN ORGANIC FIBER PRESENT

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 50 - 55%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	35 - 40%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	10 - 15%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	15% - 20%
ACICULAR OPAQUES	< 1%
ACICULAR OPAQUES	< 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analyois

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Rnalyzed: 02/06/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B20 BUT ELBOW MUD

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B21

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 70 - 75%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 70 - 75%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUE < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: DRH

Lab Supervisor

OCCUPATIONAL MEDICRL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
SAME AS B18 BUT AIR DUCT INSUL.

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B22A

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: LIGHT BEIGE-BROWN
COMMENTS
B22A, LIGHT BEIGE 40% OF SAMPLE B22B BROWN 60% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 40 - 45%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 40 - 45%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 40% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
CARBONATES
TAR
VARIOUS OTHER MATERIALS
COMMENTS
B22(A+B) TOTAL ASBESTOS CONTENT = 15-20% CHRYSOTILE

Anthony W. Creamer- OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICRL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 03/12/86
Phone: _

** LOCATION **
SAME AS B18 BUT AIR DUCT IPISUL.

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B22B

GROSS SAMPLE APPEARANCE:
The sample is F.brous Fri.ble Layered
Color: LGT. BEIGE-BROWN
COMMENTS
B22A, LGT. BEIGE 40% OF SAMPLE B22B, BROWN 60% OF SAMPLE

Asbestos present is 0%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 99% - 100%
CORK
COMMENTS
B22(A+B) TOTAL ASBESTOS CONTENT= 15-20% CHRYSOTILE

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-basement elevator pits 13-14

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET 15 x 8 = 120 ft.^{2}

TOTAL OCCUPANTS <2

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Pipe insulation

Sample Number	Result
ARCHVS-02-04-B16	35-40% C
	25-30% Cr
-B17	45-50% C
	10-15% Cr
-B18	35-40% C
	5-10% Cr

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- X None or low activity
- __ Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Comments

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: _

** LOCATION **
ELEVATOR PIT RM 13-14 PIPE INSULATION

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B16

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	35 - 40%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	25 - 30%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	1% - 3%
ACICULAR OPAQUES	1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL **MEDICAL CENTER**
LABORATORY
Polarized Light **Microscopy** Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyted: **02/06/86**
Date Reported: 02/07/86
Phone: –

** LOCATION **
SAME AS B16

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B17

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - ***65%***

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	45 - 50%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Sia O_{22} (OH)_2$]	10 - 15%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	5% - 10%
ACICULAR OPAQUES	3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total **Percent:** *20%* - 25%

CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Crearner..
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL **MEDICAL CENTER**
LABORATORY
Polarized Light Microscopy **Analysis**

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SAME AS B16

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B18

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 45 - 50%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	35 - 40%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	5 - 10%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	5% - 10%
ACICULAR OPAQUES	1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 40% - **45%**
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer **DMC** Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Tier 2W

DATE OF ASSESSMENT: 2/6/86

SQUARE FEET 50 x 25 = 1250 ft.^{2}

TOTAL OCCUPANTS 2

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- X RANK 3
- __ RANK 4

The following represents the beet judgment of the assessor at the time of the assessment.

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-06-B42	80-85% C
-B43	80-85% C
-B44	80-85% C

SOURCES: B42&43 - Elbow mud horizontal pipe.
B45 - pipe

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Hater Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Barely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Activity and Movement
- __ None or low activity
- X Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 10% a less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/25/86
Phone: 523-9209

** LOCATION **
2W-TIER 2 ELBOW MUD

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-BY2

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY (BATTLE SHIP)

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 80 - 65%
Chrysotile [Mg3 Si2 O5 (OH)4 3 60 - 65%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 1 0 - 15%
CARBONATES
SILICATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6)
[redacted]
Lab Supervisor

OMC Analyst: AWC

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/25/86
Phone: 523-Y209

** LOCATION **
SAME AS BY2 EXCEPT HORIZ. PIPE

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B43

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LT. GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 80 - 85%
Chrysotile [$Mg_3Si_2O_5(OH)_4$] 80 - 85%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%
ACICULAR OPAQUES (MAGNETITE) < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
SILICATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: AWC

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Data Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/25/86
Phone: 523-4209

** LOCATION **
SAME AS B43

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B44

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LT. GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 80 - 85%
Chrysotile [Mg3 Si2 05 (OH)4] 80 - 95%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%
ACICULAR OPAQUES (MAGNETITE) 1% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
SILICATES
VARIOUS OTHER MATERIALS
OPAQUES

Anthony W. Creamer OMC Analyst: AWC

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

DATE OF ASSESSMENT: 2/4/86

EPA SITE RANKING:
__ RANK 1
__ RANK 2
__ RANK 3
__ RANK 4

BUILDING ADDRESS: 7th and Pennsylvania Ave. . N.W.

BUILDING NUMBER: DC0006ZZ

SQUARE FEET 50 x 50 = 2500 ft.^{2}

LOCATION IN BUILDING: Sub-Basement - refrigerating room compressor

TOTAL OCCUPANTS 2

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Chiller insulation

Sample Number	Result
ARCHVS-02-04-B13	NAD
-B14	NAD
-B15	NAD

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Activity and Movement
- __ None or low activity
- X Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 10% or lens exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or dlrcct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- __ Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- __ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
- __ Special maintenance
- __ Special cleaning
- __ Special alteration & demolition
- __ Controls not needed
- X other _____

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SUB BASEMENT CHILLER ROOM #5 CHILLER INSULATION

Job I.D.: ARCHUS
Lab I.D.: ARCHUS -02-OY-B13

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: YELLOW

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	1% - 3%
FIBERGLASS	85% - 90%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 1 0 - 15%
ADHESIUE
UARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: ***02/07/86***
Phone: _

** LOCATION **
SAME AS B13

Job I.D.: ARCHUS
Lab I.D.: ARCHUS -02-04-B14

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Friable
Color: GRAY

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	< 1%
MINERAL WOOL	45% - 50%
TALC	< 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
GLASS
UARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SAME AS B13

Job I.D.: ARCHUS
Lab I.D.: ARCHUS -02-04-B15

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF w/ SOME ORANGE FIBERGLASS

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

MINERAL WOOL	20% - 25%
ORGANIC FIBERS	1% - 3%
FIBERGLASS	25% - 30%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 45% - 502
CARBONATES
GLASS
ADHESIVE
UARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: EJK

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: sub-Basement fan room

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET Approx. 30 x 60 = 1800 ft.^{2}

TOTAL OCCUPANTS 2

EPA SITE RANKING:
- ___ RANK 1
- ___ RANK 2
- ___ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- ___ Acoustical plaster
- ___ Other: _____

Friability
- ___ Non-friable
- X Friable

Damage or Deterioration
- ___ No damage or deterioration
- X Moderate damage or deterioration
- ___ Severe damage or deterioration

Water Damage
- ___ No water damage
- X Minor water damage
- ___ Major water damage

Pipe or Boiler Insulation
- ___ Not present
- ___ Present but not damaged
- X Present and damaged

Exposed Surface Area
- ___ Material not exposed
- X 10% or less exposed
- ___ >10% exposed

Accessibility
- ___ Not accessible
- ___ Rarely accessible
- X Accessible

Activity and Movement
- ___ None or low activity
- ___ Moderate activity
- X High activity

Air Plenum
- ___ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- ___ Encapsulation
- ___ Enclosure
- ___ Abatement not needed

When Recommended
- ___ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- ___ Controls not needed
- ___ Other _____

Visual Inspection and Air Monitoring
- ___ Monthly
- X Quarterly
- ___ Annually

Assessor: Cinalli/Ruchalski

Type of material sampled:

Sample Number	Result
ARCHVS-02-04-B9	NAD
-B10	1-3% C/1-3% A
-B11	45-50% C 15-20 Cr
-B12	35-40% C 20-25% Cr

A - Amosite Asbestos
C - Chrysotile Asbestos
Cr - Crocidolite Asbestos

Comments

Many of the fans and pipes have been reinsulated with fiberglass like materials. The remaining pipes are in very bad repair.

Title: Industrial Hygienist

02/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: --

** LOCATION **
SUB-BASEMENT FAN RM INSULATION FROM FAN F-27-R1

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B9

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: YELLOW
COMMENTS
PAINTED PAPER BACKED CLOTH AND FOIL PIECE INCLUDED

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBERS	15% - 20%
FIBERGLASS	65% - 70%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
ADHESIVE

Anthony W. Craamer

OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY NISCO

Date Received: 02/07/96
Date Analyzed: 02/06/96
Date Reported: 02/07/96
Phone: -

** LOCATION **
SAME AS 95 AIR DUCT INSULATION

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B10

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: DARK BROWN, GRAY
COMMENTS
B10, DARK BROWN 75% OF SAMPLE
B10, GRAY 25% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 1 - 3%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	1 - 3%
Amosite	[$(Fe,Mg)_7 Si_8 O_{22} (OH)_2$]	1 - 3%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBERS < 1%
ACICULAR OPAQUES < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 96% - 99%
VARIOUS OTHER MATERIALS
CORK
COMMENTS
TOTAL ASBESTOS CONTENT B10 (A+)= 10-15% CHRYSOTILE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/06/96
Date Reported: 02/07/96
Phone: -

** LOCATION **
SAME AS 2F BUT HORIZONTAL PIPE INSULATION AT HALLWAY

Number of Analysis = 45
J-h I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-P11

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable

Asbestos present >> greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	45 - 50%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	15 - 20%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBERS 5% - 10%
ACICULAR GRAINS 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
Lab Supervisor

OMC Analyst: SZK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SAME AS E-3 BUT NOT HOT PIPE INSULATION

Number of Analysis = 45
Job I.D.: ARCHIVS
Lab I.D.: ARCHIVS -02-04-B12

[illegible] SAMPLE APPEARANCE:
The sample is [illegible] friable
[illegible] WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 60 - 65%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 35 - 40%
Crocidolite [$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$] 20 - 25%
[illegible]

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBERS < 1%
ACICULAR GRAINS < 1%

MINERAL NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave.. N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-basement-steam room next to moat exhaust Fans #1-8 room & stairwell

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET Approx. 10 x 35 = 350 ft.^{2}

TOTAL OCCUPANTS L2

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the beet judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Water Damage
- __ No water damage
- __ Minor water damage
- X Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-04-B4	15-20% C
	30-35% A
-B5	NAD
-B6	35-40% C
	20-25% A
-B7	25-30% C
	30-35% A
-B8	40-45% C
	15-20% Cr

SOURCES: B4 - Hot water pipe. B5 - Elbow mud from attic steam AHU. B6 - Basement AHU. B7 - Elbow mud from basement AHU. B8 - Horizontal pipe at ceiling.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement m t needed

When Recommended
- __ During planned altetation, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- X Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/06/96
Date Reported: 02/07/96
Phone: -

** LOCATION **
STEAM RM SUB-BASEMENT NEXT TO MAIN EXHAUT

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-94

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS:		Total Percent	50 - 55%
Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]		15 - 20%
Amosite	[$(Fe,Mg)_7 Si_8 O_{22} (OH)_2$]		30 - 35%

*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%
ACICULAR OPAQUES < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 45% - 50%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony N. Craamer
(b) (6) [redacted]

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCLIVES BUILDING
Address: [illegible] AND [illegible] AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

[illegible]
SAME AS P4 EXCEPT ELBOW MUD FROM PIPE ATTIC STEAM AHU

[illegible] = 15
[illegible]
[illegible]

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

MINERAL WOOL	20% - 25%
ORGANIC FIBERS	< 1%
ACICULAR GRAQUES	< 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 75% - 80%
CARBONATES
SILICATES
GLASS

Anthony M. Creamer

OMC Analyst: EJK

Lab Supervisor

02/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SAME AS 24 BUT BASEMENT AHU SUPPLY PIPE INSULATION

Number of Analysis = 15
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-86

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: WHITE

Asbestos present is greater than 1%

MICROSCOPY ANALYSIS: Total Percent = 60 - 65%
Ch: White $[Na_2 Si_4 O_9 (OH)_4]$ 35 - 40%
Ch: Visible $[Na (Fe_2)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2]$ 20 - 25%
Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBERS < 1%
ACICULAR OPAQUES < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS
OPAQUES

Anthony W. Zeamer OMC Analyst: SJH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/04/96
Date Reported: 02/07/96
Phone: -

** LOCATION **
SAME AS B4 BUT ELBOW MUD SSON PIPE IN B6

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B7

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	25 - 30%
Amosite	[$(Fe,Mg)_7 Si_8 O_{22} (OH)_2$]	30 - 35%

†Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony K. Creamer OMC Analyst: EJK

Lab Supervisor

03/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SAME AS B4 BUT HORIZONTAL PIPE AT CEILING NEXT TO VALVE 3-V-5

Number of Analysis = 15
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B3

GROSS SAMPLE PREPARATION:
The sample is Homogeneous Fibrous Friable
Color: WHITE

* Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%

Chrysotile	[$Mg_3 Si_2 O_5 (OH)_4$]	40 - 45%
Crocidolite	[$Na (Fe_3)^{2+} (Fe_2)^{3+} Si_8 O_{22} (OH)_2$]	15 - 20%

Asbestos Form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 40%
CARBONATES
VARIOUS OTHER MATERIALS

Author: M. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Sub-basement - boiler room near elevator pit #2 & stairwell.

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET Approx. 15 x 50 = 750 ft.^{2}

TOTAL OCCUPANTS <2

EPA SITE RANKING:
- ___ RANK 1
- ___ RANK 2
- ___ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Boiler insulation

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- ___ Acoustical plaster
- ___ Other: _____

Water Damage
- ___ No water damage
- ___ Minor water damage
- X Major water damage

Accessibility
- ___ Not accessible
- ___ Rarely accessible
- X Accessible

Friability
- ___ Non-friable
- X Friable

Pipe or Boiler Insulation
- ___ Not present
- ___ Present but not damaged
- X Present and damaged

Activity and Movement
- X None or low activity
- ___ Moderate activity
- ___ High activity

Damage or Deterioration
- ___ No damage or deterioration
- ___ Moderate damage or deterioration
- X Severe damage or deterioration

Exposed Surface Area
- ___ Material not exposed
- ___ 10% or less exposed
- X >10% exposed

Air Plenum
- ___ No plenum or direct airstream
- X Plenum or direct airstream present

Sample Number	Result
ARCHVS-02-04-B1	60-65% C
-B2	5-10% C
-B3	35-40% C

SOURCES: B1 - Boiler insulation. B2 - Pipe insulation. B3 - Elbow mud.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- ___ Enclosure
- ___ Abatement not needed

When Recommended
- ___ During planned alteration, or
- X Abatement action needed sooner

Comments

Boiler has been partially re-insulated.

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleanly
- X Special alteration & demolition
- ___ Controls not needed
- ___ Other _____

Visual Inspection and Air Monitoring
- ___ Monthly
- X Quarterly
- ___ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/03/86
Date Analyzed: 02/04/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SUB-BASEMENT NEXT TO STAIR WELL + ELEVATOR PIT BOILER INSULATION

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B1

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GREY
COMMENTS
W/CLOTH SWATCH

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 60 - 65%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBERS 5% - 10%
< 1%
ACICULAR OPAQUES
BRUCITE < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
CARBONATES
SILICATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: AWC
(b) (6) [redacted]

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MIECO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/07/86
Phone: -

** LOCATION **
SAME AS B1 BUT PIPE INSULATION

Number of Analysis = 45
Job I.D.: 45CHVS
Lab I.D.: ARCHVS -02-04-B2

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT GREY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 5 - 10%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 5 - 10%
Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBERS 80% - 85%

THESE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 5% - 10%
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/06/86
Date Reported: 02/06/86
Phone: -

** LOCATION **
SAME AS B1 BUT ELBOW MUD FROM HEAT-X UNIT

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B3

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: GRAY, DARK BROWN
COMMENTS
B3, GRAY, 50% OF SAMPLE
A3, DARK BROWN, 50% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 75 - 90%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 75 - 90%
Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBERS < 1%

ACICULAR OPAQUES 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
OPAQUES
COMMENTS
TOTAL ASBESTOS CONTENT B3 (A+B)= 35-49% CHRYSOTILE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Stairway landing 1E-1 between sub-basement and Tier 1

DATE OF ASSESSMENT: 2/4/86

SQUARE FEET 6 X 10

TOTAL OCCUPANTS <10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Water Damage
- __ No water damage
- __ Minor water damage
- X Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:

Vertical pipe insulation

Sample Number	Result
ARCHVS-02-04-B≥4	10-15% C
-B≥5	5-10% C
-B≥6	NAD

SOURCES: B34&35 - Vertical pipe insulation. B36 - Vertical pipe farthest from wall.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually

Comments

Cold water vertical pipe exposed due to maintenance aircell type insulation.

Assessor: Cinalski/Ruchalski

Title: Industrial Hygienist

[illegible] 17.[illegible]/96

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/06/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
STAIRWELL LANDING BETWEEN SUB AND BASEMENT (IE-1) VERT. PIPE INSUL

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B34

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY-BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 10 - 15%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 10 - 15%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 40% - 45%
SYNTHETIC FIBER 20% - 25%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
VARIOUS OTHER MATERIALS
OPAQUES

Anthony M. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: DAH

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: [illegible]

Date Received: 02/07/96
Date Analyzed: 02/06/96
Date Reported: 03/12/96
Phone: -

11 LOCATION 11
SAME AS B31

Number of Analysis - 15
Job I.D : ARCHVS
Lab I.D.: ARCHVS -02-04-B35

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY-BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - [illegible]
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 5 - 10%
Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 60% - 65%

Anthony W. Creamer OMC Analyst: DAH

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/07/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
SAME AS B34 EXCEPT PIPE FURTHEST FROM WALL

Number of Analysis = 45
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-04-B36

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: DARK BUFF/ GRAY

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 75% - 80%

THESE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
ADHESIVE
VARIOUS OTHER MATERIALS

Anthony W. Cresmer

OMC Analyst: DAH

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Tier 1 IE2A (stack room) Rack 6

DATE OF ASSESSMENT: 2/7/86

SQUARE FEET Approx. 75 x 75 = 5625 $ft.^2$

TOTAL OCCUPANTS 5

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- X RANK 3
- __ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Insulation

~~Sample Number~~	Result
ARCHVS-02-07-B4&5	35-40% C
-B6	60-65% C

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Activity and Movement
- X None or low activity
- __ Moderate activity
- __ High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 10% or less exposed
- __ >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- X Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

03/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/21/86
Phone: 523-4209

** LOCATION **
TEIR RM 1 1E2A NEAR RACK 6 VERTICAL PIPEL.

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B4

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 35 - 40%
*Asbestos form

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 60% - 65%
CARBONATES
VARIOUS OTHER MATERIALS

[redacted] OMC Analyst: CB

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/96
Date Analyzed: 02/12/96
Date Reported: 07/21/96
Phone: 523-4209

** LOCATION **
SAME A B4

Number of Analysis = 40
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-07-B2

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 35 - 40%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 35 - 40%
Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

Anthony W. Creamer
Lab Supervisor

OMC Analyst: CP

ACCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/07/86
Date Analyzed: 02/12/86
Date Reported: 03/21/86
Phone: 523-4209

** LOCATION **
SAME AS B4 BUT ELBOW MUD FROM THE SAME PIPE (VERT)

Number of Analysis - 40
Job I.D. ARCHV802
Lab I.D.: ARCHV80-02-07-86

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 60 - 65%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 60 - 65%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER < 1%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% 40%
CARBONATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: CB

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Basement - Back hallway near room B-20

DATE OF ASSESSMENT: 2/6/86

SQUARE FEET: 8 X 75 = 600 ft.^{2}

TOTAL OCCUPANTS: >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- __ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

Type of material sampled: Ceiling tile

Sample Number	Result
ARCHVS-02-06-B45-47	NAD

SOURCES: B45-47 - Ceiling tile.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- X Other: Ceiling tile

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Friability
- __ Non-friable
- X Friable

Pipe or Boiler Insulation
- X Not present
- __ Present but not damaged
- __ Present and damaged

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- __ Removal
- __ Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- __ Abatement action needed sooner

Comments

B. Precautionary Controls

Maintenance & Operation
- __ Special maintenance
- __ Special cleaning
- __ Special alteration & demolition
- X Controls not needed
- __ Other

Visual Inspection and Air Monitoring
- __ Monthly
- __ Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/25/86
Phone: 523-Y209

** LOCATION **
BASEMENT CEILING TILE OUTSIDE B20

Number of Analysis = 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-B45

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LT. GRAY BUFF

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	30% - 35%
MINERAL WOOL	45% - 50%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 1 5 - 20%
CARBONATES
FOAM
GLASS
SILICATES
UARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: AWC

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDINO
Address: 7TH AND PENNSYLUANIA AVENUE
WASHINGTON DC
Contact: JERRY HISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/25/86
Phone: 523-4209

** LOCATION **
SAME AS BY5

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B46

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LT. GRAY BUFF
COMMENTS
W/WHITE PAINTED SURFACE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 30% - 35%
MINERAL WOOL 40% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OLASS
FOAM
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: AWC

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/25/86
Phone: 523-9209

** LOCATION **
SAME AS B45

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-06-BLf7

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LT. BUFF GRAY
COMMENTS
W/WHITE PAINT LAYER

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	30% - 35%
MINERAL WOOL	95% - 50%

THERE IS NUN-FIBROUS MATERIAL PRESENT Total Percent: 1 5 - 20%

CARBONATES
GLASS
FOAM
SILICATES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OHC Analyst: AWC

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Basement, 1W1, Stack 'room

DATE OF ASSESSMENT: 2/6/86

SQUARE FEET Approx. 75 x 75 = 5625 ft.^{2}

TOTAL OCCUPANTS 10

EPA SITE RANKING:
- ___ RANK 1
- ___ RANK 2
- X RANK 3
- ___ RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- ___ Acoustical plaster
- ___ Other: ___

Water Diunage
- X No water damage
- ___ Minor water damage
- ___ Major water damage

Accessibility
- ___ Not accessible
- ___ Rarely accessible
- X Accessible

Friability
- ___ Non-friable
- X Friable

Pipe or Boiler Insulation
- ___ Not present
- X Present but not damaged
- ___ Present and damaged

Activity and Movement
- ___ None or low activity
- X Moderate activity
- ___ High activity

Damage or Deterioration
- X No damage or deterioration
- ___ Moderate damage or deterioration
- ___ Severe damage or deterioration

Exposed Surface Area
- X Material not exposed
- ___ 10% a leas exposed
- ___ >10% exposed

Air Plenum
- ___ No plenum or direct airstream
- X Plenum or direct airstream present

Type of raterial sampled:

Insulation

Sample Number	Result
ARCHVS-02-06-B25*	80-85% C
-B26	25-40% C
	5-10% A
-B27	35-40%C
	1- 5%A

SOURCES: B25-27 - Horizontal pipe against wall.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- ___ Enclosure
- ___ Abatement not needed

When Recommended
- X During planned alteration, or
- ___ Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- ___ Controls not needed
- ___ Other ___

Visual Inspection and Air Monitoring
- ___ Monthly
- ___ Quarterly
- X Annually

Comments

* Horizontal pipes were covered well with aluminum foil.

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
BASEMENT TEIR 1 RM 1W1, HORIZ. PIPE AGAINST WALL INSUL. COVERED W/A1 FOIL

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B25

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY WHITE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 80 - 85%
Chrysotile [Mg3 Si2 05 (OH)4 I 80 - 855
*Asbestos Form

FIBROUS, NUN-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 15% - 20%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/12/96
Date Reported: 03/12/96
Phone: 523-4209

** LOCATION **
SAME AS B25

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B26

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY
COMMENTS
CLOTH SWATCH PRESENT

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 5 - 10%
Chrysotile [Mg3 Si2 05 (OH)4] 5 - 10%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 70% - 75%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 1 5 - 20%
ADHESIVE
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/25/86
Phone: 523-4209

** LOCATION **
SAME AS B25

Number of Analysis - 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-B27

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: LIGHT YELLOW

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 40 - 45%

Chrysotile	[Mg3 Si2 05 (OH)4]	35 - 40%
Amosite	[(Fe,Mg)7 Si8 022 (OH)2]	1 - 5%

*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1 - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES

Anthony W. Creamer
Lab Supervisor

OMC Analyst: DAH

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Basement Rooms B3E, B3A

DATE OF ASSESSMENT: 2/6/86

SQUARE FEET Approx. 20 X 20 = 400 ft.2

TOTAL OCCUPANTS 5

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the beet judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Accessibility
- __ Not accessible
- __ Rarely amssible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Damage or Deterioration
- __ No damage or deterioration
- __ Moderate damage or deterioration
- X Severe damage or deterioration

Exposed Surface Area
- __ Material not exposed
- X 18% a less exposed
- __ >18% exposed

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:
Insulation

Sample Number	Result
ARCHVS-02-06-B7	40-45% C
-B8	25-30% C
-B9	20-25% C
-B10*	25-30% C

SOURCES: B7 - Elbow mud. B8 - Horizontal pipe. B9 - Horizontal pipe at ceiling. B10 - Pipe insulation on, floor.

2. CHECK RECOMMENDATIONS FUR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually
- __

Comments

* These rooms are under construction and insulation that was torn off pipes was laying on the floor.

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-Y209

** LOCATION **
BASEMENT RM B-3E ELBOW MUD FROM HORIZONTAL PIPE AT CEILING

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B7

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BROWN

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 40 - 45%
Chrysotile [Mg3 Si2 O5 (OH)4] 40 - 95%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES CMAGNETITE) 1% - 3%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 50% - 55%
CARBONATES
SILICATES
OPAQUES
UARIOUS OTHER MATERIALS

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
BASEMENT B-3E HORIZONTAL PIPE INSUL.

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B8

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: ORAY BUFF

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 25 - 30%
Chrysotile [Mg3 Si2 O5 (OH)4] 25 - 30%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 55% - 60%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 10% - 15%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-4209

** LOCATION **
SAME AS B8

Number of Analysis = 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B9

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY BUFF
COMMENTS
PAINTED CLOTH SWATCH INCLUDED

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 20 - 25%
Chrysotile [Mg3 Si2 05 (OH)4] 20 - 25%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
OROANIC FIBER 50% - 55%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
ADHESIVE
VARIOUS OTHER MATERIALS
OPAQUES

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-4209

** LOCATION **
RM B-3A INSUL. LAYING ON FLOORS

Number of Analysis - 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-B10

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY
COMMENTS
PIECE OF CHEESE CLOTH INCLUDED, SMALL PIECE OF FIBEROUS TAR ALSO PRESENT

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 25 - 30%
Chrysotile [Mg3 Si2 05 (OH)4] 25 - 30%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 45% - 50%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
ADHESIUE
UARIOUS OTHER MATERIALS
TAR

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Basement - pipe chase in hallway outside Rm. B1

DATE OF ASSESSMENT: 2/6/86

SQUARE FEET Approx. 4 X 10 = 40 $ft.^2$

TOTAL OCCUPANTS <1

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represents the best judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- __ Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Water Damage
- X No water damage
- __ Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- __ 10% or less exposed
- X >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- X Moderate activity
- __ High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

Type of material sampled:

Insulation

Sample Number	Result
ARCHVS-02-06-B11	30-35% C
-B12	60-65% C
-B13	25-30% C

SOURCES: B11 - Vertical pipe. B12 - Vertical pipe elbow. B13 - Vertical pipe.

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

Comments

AHU is unreachable.

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- __ Monthly
- X Quarterly
- __ Annually
- __

Assessor: Cinalli/Ruchalski

Title: Industrial Hygienist

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-4209

** LOCATION **
BASEMENT HALLWAY OUTSIDE RM B1 UERT. PIPE INSUL. FM BEHIND SMALL METAL DOOR

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B11A

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: GRAY, BUFF, BLACK
COMMENTS
B11A, GRAY, 504 OF SAMPLE; B11B, BUFF 254 OF SAMPLE; B11C, BLACK, 25% OF SAMPLE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 95% - 97%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 3% - 5%
ADHESIUE
UARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B11(A+B+C)-30-35% CHRYSOTILE

Anthony W. Creamer
(b) (6) [redacted]
Lab Supervisor

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-3209

** LOCATION **
BASEMENT HALLWAY OUTSIDE RM B1 UERT, PIPE INSUL. FM BEHIND SMALL METAL DOOR

Number of Analysis = 51
Job I.D.: ARCHUS02
Lab I.D.: ARCHUS02-02-06-BllB

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BUFF, GRAY, BLACK
COMMENTS
B11B, BUFF, 25% OF SAMPLE; B11A, GRAY, 50% OF SAMPLE; B11C, BLACK, 25% OF SAMPL

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 55 - 60%
Chrysotile [Mg3 Si2 05 (OH)4] 55 - 60%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 35% - 90%
CARBONATES
ADHESIVE
VARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B11(A+B+C)= 30-35% CHRYSOTILE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-'4209

** LOCATION **
BASEMENT HALLWAY OUTSIDE RM B1 VERT. PIPE INSUL. FM BEHIND SMALL METAL DOOR

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-06-BllC

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BLACK, GRAY, BUFF,
COMMENTS
B11C, BLACK, 25% OF SAMPLE; B11A, GRAY, 50% OF SAMPLE; B11B, BUFF, 25% OF SAMPI

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 70 - 75%
Chrysotile [Mg3 Si2 O5 (OH)4 3 70 - 75%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS
TAR
COMMENTS
TOTAL ASBESTOS CONTENT B11(A+B+C)-30-35% CHRYSOTILE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIUES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-'4209

** LOCATION **
SAME AS Bll EXCEPT ELBOW MUD

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B12

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: GRAY

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 60 - 65%
Chrysotile [Mg3 Si2 05 (OH)4 3 60 - 65%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
OPAQUES
UARIOUS OTHER MATERIALS

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLUANIA AUENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/66
Phone: 523-4209

** LOCATION **
SAME AS B11

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B13A

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BUFF, BLACK, GRAY
COMMENTS
B13A, BUFF, 25% OF SAMPLE; B13B, BLACK, 25% OF SAMPLE; B13C,GRAY 50% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 60 - 65%
Chrysotile [Mg3 Si2 05 (OH)4 3 60 - 65%
*Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%
ACICULAR OPAQUES (MAGNETITE) 3% - 5%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
OPAQUES
UARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B13 (A+B+C)=25-30% CHRYSOTILE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/66
Date Reported: 03/12/86
Phone: 523-3209

** LOCATION **
SAME AS Bll

Number of Analysis - 51
Jab I.D.: ARCHVS02
Lab I.D.: ARCHUS02-02-06-B13B

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable Layered
Color: BLACK, BUFF, GRAY
COMMENTS
B13B, BLACK, 25% OF SAMPLE; B13A,BUFF 25% OF SAMPLE; B13C, GRAY, 50% OF SAMPLE

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent - 35 - 40%
Chrysotile [Mg3 Si2 05 (OH)4] 35 - 90%
*Asbestos Form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 25% - 30%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
TAR
UARIOUS OTHER MATERIALS
CARBONATES
COMMENTS
TOTAL ASBESTOS CONTENT B13(A+B+C)-25-30% CHRYSOTILE

Anthony W. Creamer OMC Analyst: EJK

Lab Supervisor

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVENUE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/06/86
Date Analyzed: 02/11/86
Date Reported: 03/12/86
Phone: 523-9209

** LOCATION **
SAME AS B11

Number of Analysis - 51
Job I.D.: ARCHVS02
Lab I.D.: ARCHVS02-02-06-B13C

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable layered
Color: GRAY, BUFF, BLACK
COMMENTS
B13C, GRAY, 50% OF SAMPLE; B13A, BUFF 25% OF SAMPLE; B13, BLACK, 25% OF SAMPLE

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 95% - 97%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 3% - 5%
CARBONATES
ADHESIVE
VARIOUS OTHER MATERIALS
COMMENTS
TOTAL ASBESTOS CONTENT B13 (A+B+C)-25-30% CHRYSOTILE

Anthony W. Creamer
Lab Supervisor

OMC Analyst: EJK

ASBESTOS ASSESSMENT FORM

BUILDING NAME: ARCHIVES

BUILDING ADDRESS: 7th and Pennsylvania Ave., N.W.

BUILDING NUMBER: DC0006ZZ

LOCATION IN BUILDING: Basement - Photo lab

DATE OF ASSESSMENT: 2/5/86

SQUARE FEET 30 x 75

TOTAL OCCUPANTS >10

EPA SITE RANKING:
- __ RANK 1
- __ RANK 2
- __ RANK 3
- X RANK 4

The following represent8 the beat judgment of the assessor at the time of the assessment.

1. CHECK BLOCK THAT BEST DESCRIBES SITUATION:

Type of Material
- X Fireproofing/Insulation
- X Acoustical plaster
- __ Other: _____

Friability
- __ Non-friable
- X Friable

Damage or Deterioration
- __ No damage or deterioration
- X Moderate damage or deterioration
- __ Severe damage or deterioration

Water Damage
- __ No water damage
- X Minor water damage
- __ Major water damage

Pipe or Boiler Insulation
- __ Not present
- __ Present but not damaged
- X Present and damaged

Exposed Surface Area
- __ Material not exposed
- X 10% a less exposed
- __ >10% exposed

Accessibility
- __ Not accessible
- __ Rarely accessible
- X Accessible

Activity and Movement
- __ None or low activity
- __ Moderate activity
- X High activity

Air Plenum
- __ No plenum or direct airstream
- X Plenum or direct airstream present

2. CHECK RECOMMENDATIONS FOR CORRECTIVE ACTION:

A. Abatement Actions

Type of Action
- X Removal
- X Encapsulation
- __ Enclosure
- __ Abatement not needed

When Recommended
- __ During planned alteration, or
- X Abatement action needed sooner

B. Precautionary Controls

Maintenance & Operation
- X Special maintenance
- X Special cleaning
- X Special alteration & demolition
- __ Controls not needed
- __ Other _____

Visual Inspection and Air Monitoring
- X Monthly
- __ Quarterly
- __ Annually

Assessor: Cinalli/Ruchalski

Type of material sampled:
Acoustical tile, pipe insulation

Sample Number	Result
ARCHVS-02-05-B43	NAD
-B44	NAD
-B45	70-80% C
-B46	65-70% C
-B47	10-15% C
-B48	15-20% C
-B49	20-25% C
-B50	3-5% C
-B51	25-30% C
	25-30% A

SOURCE: B43&44 - Acoustical tile.
B45-51 - Vertical pipe.

Comments

*This large site had two rooms walled with acoustical tile.
*There were several vertical pipes in the room with the large enlarger - these were samples.

Title: Industrial Hygienist

03/21/96

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNS-LVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 02/05/96
Date Analyzed: 02/10/96
Date Reported: 03/12/96
Phone: -

** LOCATION **
TIER 1 LAB BASEMENT RM B-6 ACOUSTICAL TILE

Number of Analysis = 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS -02-05-B43

GROSS SAMPLE APPEARANCE:
The sample is Homogeneous Fibrous Friable
Color: BUFF LIGHT GRAY
COMMENTS
WHITE PAINTED SURFACE, SOME FLUFFY GRAY MATERIAL INCLUDED IN THE VIAL

Asbestos present is 0%

FIBROUS, NON-ASBESTOS MATERIAL PRESENT

ORGANIC FIBER	30% - 35%
MINERAL WOOL	30% - 35%

NONFIBROUS MATERIAL PRESENT Total Percent: 30% - 35%
CARBONATES
GLASS
FOAM
VARIOUS OTHER MATERIALS

[redacted]

OMC Analyst: EJK

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Customer: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
[illegible] JERRY [illegible]

Date Received: [illegible]
Date Analyzed: [illegible]
Date Reported: [illegible]
Phone: -

[illegible]
BASEMENT [illegible] ACOUSTICAL TILE FROM STILE PHOTO LAB

Number of Analysis = [illegible]
[illegible] ARCHIVE
[illegible]

[illegible] SAMPLE APPEARANCE:
[illegible] Fibrous Friable
Color: SUPER LIGHT GRAY
[illegible]
WHITE PAINTED SURFACE

[illegible] present in [illegible]

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 30% - 35%
MINERAL WOOL 40% - 45%

THERE IS NON-FIBROUS MATERIAL PRESENT Total Percent: 20% - 25%
CARBONATES
GLASS
VARIOUS OTHER MATERIALS

[illegible] W. [illegible] OMC Analyst: EJK

Lab Supervisor

03/21/86

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

Address: THE ARCHIVES BUILDING
Address: 7TH AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY MISCO

Date Received: 03/05/86
Date Analyzed: 03/10/86
Date Reported: 03/12/86
Phone: -

** LOCATION **
BASEMENT-PHOTO LAB RM TO LFT. AS YOU WALK IN MAIN DR VERT. PIPES

Number of Analysis = 51
Job I.D.: ARCHVS
Job I.D.: ARCHVS -03-05-B45

GROSS SAMPLE APPEARANCE:
The sample is Fibrous Friable
Color: DARK GRAY
COMMENTS
WHITE CLOTH SWATCH INCLUDED

[illegible] present [illegible] 1%

MICROSCOPIC ANALYSIS:
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] Total Percent = 75 - 80%
Asbestos form 75 - 80%

[illegible] ASBESTOS MATERIAL PRESENT
[illegible] < 2.%
[illegible] 1% - 3%

[illegible] MATERIAL PRESENT Total Percent: [illegible] - 25%
CARBONATES
OPAQUES
VARI[illegible] MATERIALS

[illegible]

OM- Analyst: [illegible]

[illegible]

022054

OCCUPATIONAL MEDICAL CENTER
LABORATORY
Polarized Light Microscopy Analysis

[illegible] THE ARCHIVES BUILDING
Address: [illegible] AND PENNSYLVANIA AVE
WASHINGTON DC
Contact: JERRY [illegible]

Date Received: [illegible]
Date Analyzed: [illegible]
Date Reported: [illegible]
Phone: -

** LOCATION **
[illegible]

[illegible] Analysis # 51
Job I.D.: ARCHVS
Lab I.D.: ARCHVS [illegible]-05-B46

[illegible]
[illegible] Fibrous Friable
[illegible]
[illegible]
[illegible]

Asbestos present is greater than 1%

MICROSCOPIC ANALYSIS: Total Percent = 65 - 70%
Chrysotile [$Mg_3 Si_2 O_5 (OH)_4$] 65 - 70%
Asbestos form

FIBROUS, NON-ASBESTOS MATERIAL PRESENT
ORGANIC FIBER 1% - 3%
ACICULAR OPAQUE 3% - 5%

[illegible] NON-FIBROUS MATERIAL PRESENT Total Percent: 25% - 30%
CARBONATES
OPAQUES
VARIOUS OTHER MATERIALS

[illegible] W. Creamer OMC Analyst: EJK

Lab Supervisor

- FILE COPY

ATC ASSOCIATES INC.

Limited Asbestos and Lead Testing
National Archives
Renovate Bathrooms
Seventh and Pennsylvania Avenue, N.W.
Washington, D.C.

ATC Project No. 00361.00002

GSA/PCN: YDC97076

ATC ASSOCIATES INC.

8989 Herrman Drive
Columbia, Maryland
21045-4710
410381 0210
Fax 410 381 0247

April 15, 1998

RECEIVED
APR 17 1998
ALPHATEC, pc

Mr. Kosta Adamopoulos
Alphatec, P.C.
1525 18th Street, N.W.
Washington, D.C. 20036

Re: Limited Asbestos and Lead Survey
National Archives
Renovate Bathrooms
Seventh and Pennsylvania Avenue, N.W.
Washington, D.C.
ATC Project No. 00361.00002

Dear Mr. Adamopoulos:

ATC Associates Inc. (ATC) is pleased to submit the attached Limited Asbestos and Lead Testing Report for the referenced site. Testing was performed on March 31, 1998, and included those areas identified by Alphatec, P.C. during the walk-through. This report includes the procedures and methods for the sample collection, and the analytical results for the testing.

As a result of this survey, accessible asbestos-containing materials and materials containing detectable levels of lead were identified within the renovation areas. ATC has provided conclusions and/or recommendations regarding the asbestos-containing materials and materials which contain lead within the report.

ATC Associates Inc. appreciates the opportunity to perform Limited Asbestos and Lead Testing for Alphatec, P.C. Please contact our office if we may be of further assistance.

Sincerely,

ATC ASSOCIATES INC.

(b) (6) [redacted]

Dawn R. Stiffey
Environmental Specialist

(b) (6) [redacted]

Joseph J. Tkach, OHST
Senior Project Manager

ATC ASSOCIATES INC.

LIMITED ASBESTOS AND LEAD SURVEY
NATIONAL ARCHIVES
RENOVATE BATHROOMS
SEVENTH AND PENNSYLVANIA AVENUE, N.W
WASHINGTON, D.C.

Prepared for

ALPHATEC, P.C.
1525 18TH STREET, N.W.
WASHINGTON, D.C. 20036

Prepared by

ATC Associates Inc.
8989 Herrmann Drive
Columbia, Maryland 21045-4710

Project No. 00361.00002

April 15,1998

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APPENDICES

APPENDIX A: ASBESTOS BULK SAMPLE ANALYSIS REPORT

APPENDIX B: XRF LEAD TESTING REPORT

APPENDIX C SAMPLE LOCATION DIAGRAMS

LIMITED ASBESTOS AND LEAD TESTING

National Archives
Renovate Bathrooms
Seventh and Pennsylvania Avenue, N.W.
Washington, D.C.
ATC Project No. 00361.00002

1.0 PURPOSE AND SCOPE OF SERVICES

The purpose of this project was to conduct Limited Asbestos and Lead Testing of the portions of the National Archives building scheduled for renovation under the Renovate Bathrooms Project. Specifically, ATC Associates Inc. (ATC) was contracted to provide the following services:

A. Conduct a walk-through inspection of the portions of the building slated for renovation as defined by Alphatec, P.C.;

C. Identify suspect asbestos-containing materials and lead paint that may be impacted by the proposed renovations; and

D. Collect up to 18 samples of suspect asbestos-containing material and test approximately 25 surfaces for the presence of lead utilizing a portable Niton XL X-Ray Florescence spectrum analyzer.

The testing was conducted by an Environmental Protection Agency (EPA) accredited AHERA Inspector/Management Planner and a EPA accredited Lead Inspector Technician.

2.0 BACKGROUND

The National Archives is located at Seventh and Pennsylvania Avenue in Washington, D.C. The limited asbestos and lead testing was performed in order to identify asbestos-containing materials and lead paint that may be impacted by renovation activities under the Renovate Bathrooms Project.

3.0 ASBESTOS-CONTAINING MATERIALS

The following is a list of suspect asbestos-containing materials identified during the walk-through conducted on March 31, 1998:

- Smooth wall and ceiling plaster
- Floor tile and associated mastic
- Brown sheet flooring and associated mastic
- Carpet mastic
- Pipe thread sealant

ATC collected a total of 13 bulk samples of suspect asbestos-containing materials, resulting in 23 analyses. The samples were analyzed by ATC's in-house laboratory using polarized light microscopy (PLM) according to EPA methods 600/M4-82-020 and 600/R-93/116. ATC's laboratory participates in the National Voluntary Laboratory Accreditation Program, a quality assurance program for polarized light microscopy (NVLAP ID #200250-0), and is accredited by the National Institute of Standards and Technology (NIST).

Any material that contains greater than one percent asbestos is considered an ACM and must be handled according to OSHA, EPA and applicable local regulations.

The following materials were determined to be asbestos-containing through laboratory analysis:

Material Description	Location
Pipe thread sealant - white	Pipes associated with bathroom fixtures
9" x 9" floor tile - white	Under carpet - Room G-10

Laboratory analysis of the remaining samples collected revealed negative results for the presence of asbestiform minerals. The laboratory analytical report is included in Appendix A.

4.0 LEAD PAINT

The following is a list of building components identified during the walk-through inspection that were suspected of being coated with lead paint:

- Metal doors and door casings
- Plaster, brick, and ceramic tile walls
- Ceramic tile floors and baseboards
- Metal radiator covers

ATC tested 18 surfaces with a portable Niton XL X-Ray Florescence spectrum analyzer. Federal lead-based paint regulations define a lead-based paint as any paint. or other surface encapsulation material, containing more than 0.50% lead by weight, or more than 1.0 milligrams per square centimeter.

The GSA guide specification for the Removal and Disposal of Lead-Based Paint (specification section 02090) provides the requirements and standards for lead-based paint services in GSA operated facilities.

The GSA guide specification section 02090 and the OSHA Lead Exposure in Construction Standard, 29 CFR 1926.62 applies to all construction activities where lead-based paint is present.

Where lead is present at levels less than 0.5% by weight or 1.0 milligrams per square centimeter, the GSA guide specification does not necessarily apply. The Lead Exposure in Construction Standard does, however, still apply.

The Lead Exposure in Construction Standard requires the employer to assure that no employee is exposed to lead at concentrations greater than 50 micrograms per cubic meter of air averaged over an eight hour period. The Standard further requires the employer to make a determination of its employee's potential exposure to lead. This initial determination is typically achieved by performing personal monitoring during various "representative" construction activities. The level of personal and respiratory protection is modified based upon the results of the monitoring.

XRF testing revealed lead concentrations greater than or equal to 1.0 mg/cm^2 for the following surfaces:

- Brick and plaster walls
- Metal door casings
- Metal radiator covers

XRF testing revealed lead concentrations less than 1.0 mg/cm^2, but greater than or equal to the limit of detection for the instrument used, for the remaining surfaces tested.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the scope of work conducted for this testing, ATC concludes and recommends the following:

A. Asbestos-containing materials should be removed and disposed of prior to renovation activities in accordance with the current GSA specification for asbestos abatement procedures. The removal should be conducted by a licensed asbestos abatement removal contractor in accordance with all applicable regulations.

B. Painted surfaces identified as being covered with paint containing lead in concentrations greater than or equal to 1.0 mg/cm^2 should be handled in accordance with the requirements of the GSA guide specification the Removal and Disposal of Lead-Based Paint (specification section 02090) and 29 CFR 1926.62 (Lead Exposure in Construction Standard).

C. Painted surfaces identified as being covered with paint containing lead in concentrations less than 1.0 mg/cm^2 should be handled in accordance with the requirements of the 29 CFR 1926.62 (Lead Exposure in Construction Standard).

6.0 ASSUMPTIONS AND LIMITATIONS

The findings and conclusions in this report *are* based only on conditions which were observed on the date of the site survey. ATC and this report make no representation or assumptions as to past conditions or future occurrences.

When analysis of floor tile or other resinously bound nonfriable material by the EPA PLM Method yields negative results for the presence of asbestos, alternative methods of identification such as Transmission Electron Microscopy (TEM) *are* recommended. Analysis of such materials by polarized light microscopy (PLM) using EPA Method 600/M4-82-020 (December, 1982) may yield false-negative results because of method limitations in separating closely bound fibers from matrix material and in detecting fibers of small length and/or diameter.

This report is designed to generally identify accessible ACM and lead paint at the Site, in accordance with the scope of work presented in Section 1.0. Under no circumstances is this report to be utilized as a bidding document, abatement document, or specification document.

APPENDIX A

ASBESTOS BULK SAMPLE ANALYSIS REPORT

ATC ASSOCIATES INC.

8989 Herrmann Drive
Columbia, Maryland
21045-4710
410 381 0210
Fax 410 381 0247

April 10, 1998

Alphatec, P.C.

Attention: Kosta Adamopoulos
1525-18th Street N.W.
Washington, D. C. 20036

RE: 23 PLM Analyses

Project Name:	National Archives, 7th & Pennsylvania Ave. NW.
Laboratory Batch Number:	980403
ATC Project Number:	00361.00002

Dear Mr. Adamopoulos:

Enclosed are the results from the bulk asbestos analyses for the 13 samples submitted to the ATC Asbestos Laboratory on April 1, 1998. Percentages were determined by visually estimating the area percentage for each type of fibrous material. Samples estimated to contain less than ten percent asbestos fibers may require quantification by point counting. These samples may be resubmitted at your discretion.

ATC will hold your samples for thirty days after the completion of the analysis. At the end of the thirty day period, it will be our policy to dispose of the samples unless prior arrangements are made.

It has been a pleasure serving you. If there are any questions, please contact me at (410) 381-0232.

Yours sincerely,
ATC Associates Inc.

(b) (6)

[redacted]

Bharatha Lakshmi, Ph.D.
Laboratory Manager

NVLAP®

Accredited by the National Voluntary Accreditation Program
for the analyses of Asbestos in Building Materials by Polarized Light Microscopy.
NVLAP LAB CODE: 200250-0

ATC ASSOCIATES INC.
BULK SAMPLE ANALYSIS REPORT

NVLAP Accredited
NVLAP Code Number 200250-0

Date: April 10, 1998

Client: Alphatec, P.C.

Project Identification: National Archives, 7th & Pennsylvania Ave. NW.
ATC Project Number: 00361.00002
Date Sample Received: April 1, 1998
ATC Lab Batch Number: 980403

Lab ID	Sample Number	Description Location	Laver(~)	Asbestos Twe	%	Other Fibrous Material	%	Non-Fibrous Material
001	01	White & Brown Plaster Men's Room Fl B	3	All Layers No Asbestos Detected		Cellulose	2	Paint Binder
002	02	White & Brown Plaster Men's Room Fl B	3	All Layers No Asbestos Detected		Cellulose	2	Paint Binder
003	03	White & Brown Plaster Women's Room Fl B	3	All Layers No Asbestos Detected		Cellulose	2	Paint Binder
004	04	White & Brown Plaster Women's Room Fl G	3	All Layers No Asbestos Detected		Cellulose	2	Paint Binder
005	05	White & Brown Plaster Women's Room Fl G	3	All Layers No Asbestos Detected		Cellulose	2	Paint Binder
006	06	White & Brown Plaster Women's Room Fl G	3	All Layers No Asbestos Detected		Cellulose	5	Paint Binder
007	07	White & Brown Plaster Men's Room Fl G	3	All Layers No Asbestos Detected		Cellulose	5	Paint Binder
008	08	White Mastic Men's Room Fl G	1	No Asbestos Detected		None Detected		Adhesive
009	09	White Mastic & Gray Paint Men's Room Fl G	2	Chrysotile (1)	2	None Detected		Adhesive Paint
010	10	White Mastic & Gray Paint Men's Room Fl G	2	Chrysotile (1)	2	None Detected		Adhesive

(1) Detected between the Mastic and Paint Layers.

- Analytical Methods: EPA 600/M4-82-020, December 82, EPA 600/R-93/116, July 1993
  For all heterogeneous samples easily separated into sub-samples each component will be analyzed separately. When layers cannot be separated without compromising the layer they will be analyzed as one sample. When a heterogeneous sample contains no asbestos in my layer reported results will be combined into one. When asbestos is detected in a layer or layers of a heterogeneous sample each individual layer will be reported separately.
- Enclosed test results relates only to items tested
- This report shall not be reproduced, except in full without written approval of the laboratory.
- This report can not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
- Method limitations: Analysis of floor tile and other resinously bound materials by Polarized Light Microscopy (PLM) may yield false negative results due to method limitations. In these cases ATC recommends alternative methods of analysis.

ATC ASSOCIATES INC.
·'BULK SAMPLE ANALYSIS REPORT
NVLAP Accredited
NVLAP Code Number 200250-0

Date: April 10, 1998

Client: **Alphatec, P.C.**

Project Identification: National Archives, 7th & Pennsylvania Ave. NW.
ATC Project Number: 00361.00002
Date Sample Received: April 1, 1998
ATC Lab Batch Number: 980403

Lab W	Sample Number	Description Location	Laver(~)	Asbestos Type	%	Other Fibrous Material	%	Non-Fibrous Material
011	11	Yellow Mastic G-10 Fl G	1	No Asbestos Detected		None Detected		Adhesive
012	11	White Floor Tile	1	Chrysotile	5	None Detected		Vinyl
013	11	Black Mastic	1	No Asbestos Detected		None Detected		Adhesive
014	11	Brown Flooring	1	No Asbestos Detected		Cellulose	30	Binder
015	11	Black Mastic	1	No Asbestos Detected		Cellulose	10	Adhesive
016	12	Yellow Mastic G-10 Fl G	1	No Asbestos Detected		None Detected		Adhesive
017	12	Black Mastic	1	No Asbestos Detected		None Detected		Adhesive
018	12	Brown Flooring	1	No Asbestos Detected		Cellulose	30	Binder
019	12	Black Mastic	1	No Asbestos Detected		Cellulose	10	Adhesive
020	13	Yellow Mastic G-10 Fl G	1	No Asbestos Detected		None Detected		Adhesive

- Analytical Methods: EPA 600/M4-82-020, December 82, EPA 600/R-93/116, July 1993
  For all heterogeneous samples easily separated into sub-samples each component will be analyzed separately. When layers cannot be separated without compromising the layer they will be analyzed as one sample. When a heterogeneous sample contains no asbestos in any layer reported results will be combined into one. When asbestos is detected in a layer or layers of a heterogeneous sample each individual layer will be reported separately.
- Enclosed test results relates only to items tested
- This report shall not be reproduced, except in full without written approval of the laboratory.
- This report can not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
- Method limitations: Analysis of floor tile and other resinously bound materials by Polarized Light Microscopy (PLM) may yield false negative results due to method limitations. In these cases ATC recommends alternative methods of analysis.

ATC ASSOCIATES INC.
BULK SAMPLE ANALYSIS REPORT--

NVLAP Accredited
NVLAP Code Number 200250-0

Date: April 10, 1998

Client: Alphatec, P.C.

Project Identification: National Archives, 7th & Pennsylvania Ave. NW.
ATC Project Number: 00361.00002
Date Sample **Received:** April 1, 1998
ATC Lab Batch **Number:** 980403

Lab ~~ID~~	Sample ~~Number~~	Description Location	Layer(s)	Asbestos Type	%	Other Fibrous Material	%	Non-Fibrous Material
021	13	Black Mastic	1	No Asbestos Detected		None Detected		Adhesive
022	13	Brown Flooring	1	No Asbestos Detected		Cellulose	30	Binder
023	13	Black Mastic	1	No Asbestos Detected		Cellulose	40	Adhesive

(b) (6)

[redacted]

Bharatha Lakshmi, Analyst

- **Analytical Methods:** EPA 600/M4-82-020, December 82, EPA 600/R-93/116, July 1993
  For all heterogeneous samples easily separated into sub-samples each component will be analyzed separately. When layers cannot be separated without compromising the layer they will be analyzed as one sample. When a heterogeneous sample contains no asbestos in any layer reported results will be combined into one. When asbestos is detected in a layer or layers of a heterogeneous sample each individual layer will be reported separately.
- Enclosed test results relates only to items tested
- This report shall not be reproduced, except in full without written approval of the laboratory.
- This report can not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.
- Method limitations: Analysis of floor tile and other resinously bound materials by Polarized Light Microscopy (PLM) may yield false negative results due to method limitations. In these cases ATC recommends alternative methods of analysis.

ATC ASSOCIATES INC.

PROJECT NAME: National Archives

PROJECT LOCATION: 7th and Pennsylvania Ave. NW

ATC JOB NUMBER: 00361.00002

ATC INSPECTORS: Stiffey / TKach

PROJECT MANAGER: ~~00361.00002~~

DATE SAMPLED: 3/31/98

SAMPLE NUMBER	ROOM NAME/NUMBER	FLOOR	TYPE	DIAMETER/ SIZE	QUANTITY	COND.	FRIABLE (Y/N)	SAMPLE DESCRIPTION	COMMENTS
01	MEN'S ROOM	B	SWP	N/A	1000 #	G	N	Smooth wall and ceiling plaster	2 Coat
02	MEN'S ROOM	B	SWP	N/A	—	G	N	"	"
03	Women's Room	B	SWP	N/A	1000 #	G	N	"	"
04	WOMEN'S ROOM	G	SWP	N/A	1000 #	G	N	"	"
05	WOMEN'S ROOM	G	SWP	N/A	—	G	N	"	"
06	WOMEN'S ROOM	G	SWP	N/A	—	G	N	"	"
07	MEN'S ROOM	G	SWP	N/A	2000 #	G	N	"	"
08	"	G	M	N/A	10 #	G	N	Pipe thread sealant	White
09	"	G	M	N/A		G	N	↓	↓
10	"	G	M	N/A		G	N	↓	↓

CHAIN-OF-CUSTODY

980403

Sampled By: Dawn R. Stiffey	Received by:	Transported by:	Lab Custody: BHAGATHA LAKSHMI
Signature: [signature]	Signature:	Signature:	Signature: [signature]
Date/Time: 3/31/98 11:50 a.m.	Date/Time:	Date/Time:	Date/Time: 4/1/98
Storage: [illegible]	Storage:	Storage:	Storage: Storage Log / Vol

k:\ihforms\acm\coc2.d

ATC ASSOCIATES INC.

PROJECT NAME: National Archives

ATC INSPECTORS: Stiffey - & Samii

PROJECT LOCATION: 7th & Pennsylvania

PROJECT MANAGER: ~~00361.00002~~

ATC JOB NUMBER: 00361.00002

DATE SAMPLED: 3/31/98

SAMPLE NUMBER	ROOM NAME/NUMBER	FLOOR	TYPE	DIAMETER/ SIZE	QUANTITY	COND.	FRIABLE (Y/N)	SAMPLE DESCRIPTION	COMMENTS
11	G-10	G	FT/M	9x9	945#	G	N	① Carpet Mastic ② White 9x9 ③ Mastic ④ Brown Flooring ⑤ Mastic	Multi-layer
12	G-10	G	FT/M	9x9	—	G	N	↓	↓
13	G-10	G	FT/M	9x9	—	G	N	↓	↓
—	G-10	G	SWP	N/A	1600#	G	N	Smooth Wall Plaster	Same as 01-07

CHAIN-OF-CUSTODY

Sampled By: Dawn R Stiffel	Received by:	Transported by:	Lab Custody: 9800403 BHAGATHA LAKSHMI
Signature: (b) (6) [redacted]	Signature:	Signature:	Signature: (b) (6) [redacted]
Date/Time: 3/31/98 11:50	Date/Time:	Date/Time:	Date/Time: 4/1/98
Storage: P. Bags	Storage:	Storage:	Storage: Storage bag/Lab

k:\ihforms\acm\coc2.d

APPENDIX B

XRF LEAD TESTING REPORT

NATIONAL ARCHIVES
Site: Seventh & Pennsylvania Avenue Date: 3131198
Ranges (NEG<INC<POS): Device PCS

No	Site	XLNo	Insp	Flr	Room	Strc	Feat	Cnd	Sub	Clr	PbL(mg/cm²)	RES	PbK	Combined	DI	Ssec
1	DOE	1	HS	NIA	Shutter Cal-1	N/A	Calibration	N/A	Wood	N/A	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.9
2	DOE	2	HS	NIA	Calibrate	NIA	Calibration	N/A	Wood	NIA	1.12 ± 0.15	POS	1.3 ± 1.0	1.1 ± 0.2	1.1	26.6
3	DOE	3	HS	N/A	Calibrate	NIA	Calibration	N/A	Wood	N/A	0.94 ± 0.11	NEG	-0.2 ± 1.1	0.9 ± 0.2	1.0	23.7
4	DOE	4	HS	N/A	Calibrate	N/A	Calibration	NIA	Wood	NIA	0.99 ± 0.12	POS	1.1 ± 0.9	1.0 ± 0.2	1.0	32.2
5	DOE	5	HS	B	Hallway	Wall	Wall	Intact	Brick	Beige	2.59 ± 3.51	POS	4.9 ± 1.7	4.9 ± 1.6	10.0	13.4
6	DOE	6	HS	B	Men's-Bath	Door	Door	Intact	Metal	Beige	0.18 ± 0.12	NEG	-0.7 ± 1.1	0.2 ± 0.2	2.1	21.7
7	DOE	7	HS	B	Men's-Bath	Door	Casing	Intact	Metal	Beige	2.59 ± 1.38	POS	4.0 ± 2.6	2.6 ± 1.4	3.9	6.5
8	DOE	8	HS	B	Men's-Bath	Wall	Wall-Tile	Intact	Tile	Beige	0.09 ± 0.16	NEG	0.1 ± 0.8	0.1 ± 0.2	3.1	38.1
9	DOE	9	HS	B	Men's-Bath	Wall	Wall	Intact	Plaster	Beige	>>5.0 ± 1.00	POS	8.4 ± 1.3	8.4 ± 1.2	10.0	29.0
10	DOE	10	HS	B	Men's-Bath	Wall	Baseboard	Intact	Tile	Black	0.13 ± 0.44	NEG	-0.4 ± 1.2	0.1 ± 0.4	3.8	15.9
11	DOE	11	HS	B	Floor-Tile	Floor	Floor-Tile	Intact	Tile	Brown	0.04 ± 0.30	NEG	0.3 ± 1.0	0.0 ± 0.2	2.6	23.1
12	DOE	12	HS	B	Ladies Bath-Bath	Door	Door	Intact	Metal	Beige	0.57 ± 0.26	NEG	-0.5 ± 1.2	0.6 ± 0.2	3.3	22.6
13	DOE	13	HS	B	Ladies-Bath	Door	Casing	Intact	Metal	Beige	2.26 ± 0.66	POS	2.1 ± 1.4	2.3 ± 0.6	4.1	19.9
14	DOE	14	HS	G	Ladies-Bath	Wall	Wall	Intact	Plaster	Beige	>>5.0 ± 1.00	POS	14.1 ± 5.9	14.1 ± 5.8	10.0	1.2
15	DOE	15	HS	G	Ladies-Bath	Wall	Wall	Intact	Plaster	Beige	>>5.0 ± 1.00	POS	7.9 ● 7.2	7.9 ± 7.2	6.8	1.2
16	DOE	16	HS	G	Ladies-Bath	Wall	Wall	Intact	Plaster	Beige	>>5.0 ± 1.00	POS	13.2 ± 7.1	13.1 ± 7.2	6.3	1.2
17	DOE	17	HS	N/A	Shutter Cal-2	N/A	Calibration	NIA	Wood	N/A	0.00 ± 0.00	...	0.0 ± 0.0	0.0 ± 0.0	0.0	40.9
18	DOE	18	HS	NIA	Calibrate	N/A	Calibration	N/A	Wood	N/A	1.00 ± 0.14	POS	1.7 ● 1.0	1.0 ± 0.2	1.0	27.0
19	DOE	19	HS	N/A	Calibrate	N/A	Calibration	N/A	Wood	N/A	1.08 ± 0.15	POS	1.4 ± 1.1	1.1 ± 0.2	1.1	26.5
20	DOE	20	HS	N/A	Calibrate	N/A	Calibration	N/A	Wood	N/A	1.13 ± 0.15	POS	1.0 ± 1.0	1.1 ± 0.2	1.1	27.6
21	DOE	21	HS	G	Ladies-Bath	Wall	Wall	Intact	Plaster	Beige	>>5.0 ± 1.00	POS	11.6 ± 1.4	11.6 ± 1.4	7.7	25.9
22	DOE	22	HS	G	Ladies-Bath	Wall	Wall-Tile	Intact	Tile	Beige	0.02 ± 0.10	NEG	0.4 ± 0.9	0.0 ± 0.2	4.5	24.6
23	DOE	23	HS	G	Ladies-Bath	Floor	Floor-Tile	Intact	Tile	Brown	0.04 ± 0.10	NEG	0.1 ± 0.7	0.1 ± 0.6	10.0	52.9
24	DOE	24	HS	G	Men's-Bath	Wall	Wall	Intact	Plaster	Beige	>>5.0 ± 1.00	POS	8.8 ± 0.9	8.8 ± 1.0	10.0	50.2
25	DOE	25	HS	G	Men's-Bath	Radiator	Cover	Intact	Metal	White	>>5.0 ± 1.00	POS	22.4 ± 3.1	22.4 ± 3.2	10.0	8.5
26	DOE	26	HS	G	G-11	Wall	Wall	Intact	Plaster	Beige	>>5.0 ± 1.00	POS	22.8 ± 2.0	22.8 ± 2.0	10.0	24.2
27	DOE	27	HS	N/A	Calibrate	N/A	Calibration	NIA	Wood	N/A	1.02 ± 0.14	POS	1.1 ± 0.8	1.0 ± 0.2	1.1	24.6
28	DOE	28	HS	N/A	Calibrate	N/A	Calibration	N/A	Wood	N/A	1.15 ± 0.16	POS	1.0 ± 0.8	1.1 ± 0.2	1.2	24.6
29	DOE	29	HS	N/A	Calibrate	N/A	Calibration	N/A	Wood	N/A	0.97 ± 0.13	POS	-0.1 ± 0.8	1.0 ± 0.2	1.0	25.0

APPENDIX C

SAMPLE LOCATION DIAGRAMS

ASBESTOS AND LEAD SURVEY REPORT
ARCHIVES I
7TH & PENNSYLVANIA AVE, N.W.
WASHINGTON, D.C.

AAS ENVIRONMENTAL, INC.

Environmental Engineering Consultants

Washington, D.C. ♦ New York

Asbestos and Lead Survey Report
Archives I
7th & Pennsylvania Ave, N.W.
Washington, D.C.

AASE Job No.: 1-2597

July 3, 1997

AAS ENVIRONMENTAL, INC.
Environmental Engineering **Consultants**
4915 Auburn Avenue • Bethesda, Maryland 20814 • (301) 913-0040 • FAX: (301) 913-0401

ASBESTOS AND LEAD SURVEY REPORT

Site Name:	Archives I 7th & Pennsylvania Ave., N.W. Washington. D.C.
AASE Job Number:	I-2597
Date Prepared:	July 3, 1997
Prepared For:	Mr. Joseph Reid Einhorn Yaffee Prescott 1000 Potomac Street, N.W. Washington. D.C. 20007
Prepared By:	(b) (6) [redacted] Mr. Lanny Helms Project Manager AAS Environmental, Inc 4915 Auburn Avenue Suite 301 Bethesda. MD 20814
Reviewed By:	(b) (6) [redacted] Matthew S. Munter, P.E. Branch Manager AAS Environmental, Inc.

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   2.3 Site Description 3
   2.4 Discussion of Findings 3

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5. Laboratory Results 6

I. Executive Summary

On July 1, 1997. **AAS** Environmental, Inc. (AASE), represented by Lanny Helms, conducted an asbestos and lead-paint survey of the South Portico Roof of the Archives I at 7th Street and Pennsylvania Avenue, NW. Washington. DC

No paint was observed in the area of the South Portico Roof; therefore. lead-based paint is not a concern for this study.

The only asbestos-containing material found at the site was asphalt flashing on the flat roof next to the South Portico.

AASE recommends that if this material is impacted by the repairs. it must be removed by a licensed asbestos abatement contractor prior to repairs to the roof.

2. Discussion

2.1 Background

On July 1, 1997, AAS Environmental. Inc. (AASE). performed an asbestos and lead inspection of the east and west sides of the South Portico Roof of the Archives I. at 7th & Pennsylvania Ave., NW, Washington. DC. This inspection was performed at the request of Mr. Joseph Reid of Einhorn Yaffee Prescott, Architecture & Engineering. P.C. This work was performed as part of GSA Contract No. GS11P91EGD0132. Project No. RDC 6012. Archives I Drainage Repair. The purpose of the survey was to identify any asbestos-containing materials that may be disturbed as part of this project.

The existing docurnentation. located at the GSX Safety and Environmental Management Branch pertaining to environmental activities at the Archives. was reviewed prior to the survey AASE's review of these files indicated that there was no information concerning any asbestos sample results or abatement activities on the South Portico Roof that may have occurred in the past

2.2 Asbestos Sampling And Inspection Procedure

Representative bulk samples were collected of all suspect materials present The samples were taken in accordance with Environmental Protection Agency (EPA) recommendations, and transported to an independent laboratory which is accredited by the National Institute of Standards and Technology (NIST) and successfully participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Rigorous cham-of-custody guidelines were followed to ensure groper handling and delivery of the samples

The EPA defines asbestos-containing materials (ACM) as those which contain greater than 1% asbestos. Friable materials are defined as those which can be crumbled or reduced to powder by hand pressure. The latest revision of the National Emission Standards for Hazardous Air Pollutants (NESHAP), dated November 1990, stipulates that any friable material identified as containing asbestos in any concentration must be considered asbestos-containing. If the concentration is less than 10%, the material may be re-analyzed using the point-counting method and, if found to be less than or equal to 1% using this method, may be considered non-asbestos

point counting method is a more detailed method of analysis and is considered more accurate an standard PLM techniques).

During the inspection, each suspect material's accessibility. location and friability were recorded. This information was used to assess the potential hazard of the ACM and to prioritize abatement recommendations.

2.3 Site Description

The South Portico Roof is located on the 13th Tier of the Archives I building. It consists of stone pavers set in mortar in shingle fashion on an A-framed roof. Drainage areas are located on the east and west sides of the roof.

2.4 Discussion of Findings

2.4.1 Lead Paint

No painted surfaces were noted by AASE's Inspector at the time of our site visit; therefore. no paint samples were collected.

2.4.2 Asbestos

A total of four (4) samples were collected during the survey. Sample A-1 was collected of the tar found over the rubberized membrane in the drainage area on the east side of the South Portico Roof and was found to contain no asbestos. Samples A-2 and A-3 were collected of the sealant found on the joint between the stone and the metal counter flashing and on the mortar joints in the stone pavers. on the east side of the South Portico Roof and were found to contain no asbestos. Sample A-4 was collected of the asphalt flashing found on the west side of the stone wall next to the drainage area on the west side of South Portico Roof and was found to contain 15% Chrysotile asbestos.

3. Recommendations

On July 1, 1997, AAS Environmental. Inc. (AASE) performed an asbestos and lead paint inspection of the east and west sides of the South Portico Roof of the Archives I. located in Washington, DC. The purpose of the survey was to identify any asbestos-containing building materials and lead-based paint present in the areas of the planned repairs to the South Portico Roof

3.1 Lead-Based Paint

No paint was observed in the area of the South Portico Roof: therefore. the presence of lead-based paint is not a concern in this project.

3.2 Asbestos

Asbestos-containing flashing was identified on the flat roof next to the drainage areas of the South Portico Roof. If this material is likely to be impacted by the planned repairs. it must first be removed by a licensed asbestos abatement contractor.

4. Removal Cost Estimate

Material & Location	Approximate Quantity	Estimated Removal Cost
Flashing on flat portion of roof, next to drainage areas on east and west sides of South Portico Roof	10 ft^2	*$5,000*

5. **Laboratory Results**

Sample No.	Description	Asbestos Content	Non-Asbestos Content
A-1	Black Tar, Drainage area, east side South Portico Roof	*NAFD	45% Cellulose 55% Non-fibrous Material
A-2	Gray Sealant, On Joint between Stone and Counter-Flashing, east side South Portico Roof	NAFD	100% Non-fibrous Material
A-3	Gray Sealant, On Mortar Joint in Stone Pavers, South Portico Roof	NAFD	100% Non-fibrous Material
A-4	Flashing, West Side South Portico Roof, West of Drainage Area on flat roof	15% Chrysotile Asbestos	85% Non-fibrous Material

*NAFD = No Asbestos Fibers Detected

97-457
T.S./WPHOX
MAY 22 1997
DC0006ZZ
CC: WPCO

Aerosol Monitoring & Analysis, Inc.

Environmental Consultants

May 6, 1997

Mrs. Normajean Eleazer
GSA Safety and Environmental Management
Rm. 2080, 7th & D Sts., S.W.
Washington, D.C. 20407

CONTRACT# GS11P92MJD0058
PO# P1197DC0186
ACT# P57007878

RECEIVED GSA/NCR MAY 7 2 08 PM '97 SAFETY & ENVIRONMENT BRANCH (WPHOX)

Re: Asbestos bulk sample collection and analysis

Site: National Archives
Pennsylvania Ave, NW
Washington, DC 20591

AMA Job #51012

Dear Mrs. Eleazer:

On March 28, 1997, Paul Gibbons of Aerosol Monitoring and Analysis, Inc. (AMA) was on site to collect bulk samples of suspect asbestos containing material from the electrical boxes of the chiller room and the south Air Exhaust plenum. Samples were collected to determine if any asbestos is present in materials. Sampling was conducted in areas designated by the on-site GSA representative.

A total of 3 samples of suspect asbestos-containing grey cement insulation ceiling plaster were collected from the two GSA designated areas.

Bulk samples were submitted to AMA Analytical Services, Inc. in Lanham, Maryland for analysis by polarized light microscopy (PLM) following the Environmental Protection Agency method 600/R-93/116 "Method for Determination of Asbestos in Bulk Building Materials". AMA Analytical Services, Inc. is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology through the National Voluntary Accreditation Program (NVLAP) for Bulk Asbestos Analysis, NVLAP No. 101143.

Of the 3 suspect ACM samples collected, all were found to contain greater than 1 % asbestos during PLM analysis. Materials containing greater then 1% asbestos are considered asbestos-containing materials (ACM) and must be treated as such. The results of the laboratory analysis are listed in table 1.

1331 Ashton Road • P.O. Box 646 • Hanover, MD 21076 • 410-684-3327 • FAX: 410-684-3384

Based on the results of the bulk sample collection, all materials designated for sampling by GSA representatives were found to be asbestos. Enclosed, please find the asbestos laboratory results and certificates of analysis.

If you have any questions regarding this report please contact our office (410) 684-3327.

Sincerely,

(b) (6) [redacted]

Gary L. Urban
Project Manager

Attachments

Table 1
National Archives Building
Asbestos Bulk Sampling Results
March 28,1997

Sample #	Material Sampled	Material Location	Analytical Result
51012032801	Grey cement insulation	Chiller room – 2 East of west wall, 18 south of north wall	25% Chrysotile
51012032802	Grey cement insulation	Chiller room – 2 East of west wall, 18 – south of north wall (on seam)	30% Chrysotile
51012032803	Grey cement insulation	South air exhaust plenum (pipe/duct space) by Pillar 103	3% Chrysotile

BLDG NAME: National Archives
ADDRESS: Penn. Ave
BLDG NO.:

ASSESSMENT DATE: 3/28

AMOUNT(sq ft): 24
or (linear ft)

Location In Bldg: Chiller Rm
(include Functional Space)

HOMOGENEOUS AREA: ~~TSI~~ PG Miscellaneous material - Gray Cement Insulation Eletrical Box

Type of Material
__Fireproofing
__Acoustic Plaster
__Acoustic Tile
__Thermal Systems Insulation
__Vinyl Floor Tile
X Other: Gray Cement

Damage
__Significant
X Minor
~~X None~~ PG

Accessibility
__High
X Medium
X Low

Air Plenum ___
(Y or N)

Friability
__High
X Medium
X Low PG

Traffic
__High
__Medium
X Low

Vibration
__High
X Medium
__Low

Potential for Air Erosion
__High
__Moderate
X Low

Comments: Difficult to reach - Substance very hard - resembles Unfinished transite Paneling

AHERA Classification (see instructions): 5

Sample Number	Sample location	Result
(Include percent and type in result, e.g. 50 percent/Chrysotile).		
51012032801	Chiller Rm 2-E. of W. wall 20' S of N. wall 18' from ground	25% chrysotile
51012032802	Chiller Rm (ON SEAM) 2-E. of W. wall 18' S of N wall 18' from ground	30%
51012032803	South Air Exhaust Plenum (Pipe/Duct Space) Pillar 103 20' S. of N. wall/15' W. of E. wall 4' from Ground	3%

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

AMA Analytical Services, Inc.

Electron & Optical Microscopy Services

CERTIFICATE OF ANALYSIS

NVLAP
NY ELAP
AIHA

Client:	Aerosol Monitoring & Analysis, Inc.	Job Name:	National Archives	Chain Of Custody:	47404
Address:	P.O. Box 646,133 1 Ashton Road	Job Location:	Pennsylvania Avenue	Date Analyzed:	3/31/97
	Hanover. Maryland 21076	Job Number:	51013	Person Submitting:	Paul Gibbons
		P.O. Number:	Not Provided		

Attention: Dave Meyer

Summary of Polarized Light Microscopy

AMA Sample Number	Client Sample #	Total Asbestos	Chrysotile Percent	Amosite Percent	Crocidolite Percent	Other Asbestos Percent	Mineral Wool Percent	Fiberglass Percent	Organic Percent	Synthetic Percent	Other Percent	Particulate Percent	Analyst ID	Comments
9723128	51012032801	25	25	--	--	--	--	--	TR	--	--	75	BW	
9723129	51012032802	30	30	--	--	--	--	--	--	--	--	70	BW	
9723130	51012032803	3	3	--	--	--	--	--	2	--	--	95	BW	

The following footnotes only apply to those samples which the total asbestos result is flagged with a note number.

1 TEM RECOMMENDATION- Please note, due to resolution limitations with optical microscopy and/or interference from matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos. It is recommended that the additional analytical technique of TEM be used to check for asbestos fibers below the resolution limits of optical microscopy.

2 MATRIX REDUCTION RECOMMENDATION - Please note, due to interference from the matrix components of this sample, results which are reported via PLM as negative or trace (<1%) for asbestos may contain a significant quantity of asbestos which is obscured from view. It is recommended that the additional preparation technique of gravimetric reduction be performed on this sample to minimize the obscuring effects of matrix components, followed by reanalysis by PLM and/or TEM.

Analysis Method - EPA/600/R-93/116 dated July 1993

NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

(b) (6) [redacted]

Robert Workman

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. NVLAP Accreditation applies only to polarized light microscopy of bulk samples and transmission electron microscopy of air samples. All rights reserved. AMA Analytical Services, Inc.

An AIHA (# 8863), NVLAP (# 1143), & New York ELAP (# 10920) Accredited Laboratory
4485 Forbes Blvd., • Lanham MD 20706 • (301) 459-2640 • Toll Free (800) 346-0961 • Fax (301)459-2643

If-357 T.S./WPMOX DC000622 cc: WPCO

SaLUT

Soil and Land Use Technology, Inc.

11609 Edmonston Road, Beltsville, Maryland 20705

Telephone: (301) 595-3783
Fax: (301) 595-3787

March 18, 1997

RECEIVED GSA/NCR MAR 27 4 32 PM '97 SAFETY & ENVIRONMENTAL DIVISION If-357

GSA, NCR, WPX
Safety & Environmental Management Division
7th & D Streets, S.W., Room 2080
Washington, D.C. 20407
ATTENTION: Ms. Normajean Eleazer

Re: National Archives - Sub-basement Boiler Room
Contract # GS-11P-94-MJD-0024
Order #: P1197DC0146
Act#: P57007373
SaLUT Job No.: 97-062

Dear Ms. Eleazer:

Pursuant to your request, Soil and Land Use Technology, Inc. (SaLUT) monitored asbestos abatement activities at the National Archives in the Sub-basement Boiler Room. Mr. Walter Dixon was the Industrial Hygienist on site performing air monitoring and inspections from March 10 through March 12, 1997.

The scope of our work included technical monitoring during the removal of asbestos containing thermal system insulation on the chilled water lines. The abatement contractor on site was Southern Insulation. Their industrial hygienist performing OSHA monitoring was from Compliance.

SaLUT provided Industrial Hygiene services, including collection of daily and final air samples. Ali samples during these procedure were analyzed at less than 0.01 fibers per cubic centimeter.

All air samples were collected and analyzed on site by Phase Contrast Microscopy in accordance with NIOSH Method 7400. Final air results yielded less than 0.01 fibers per cubic centimeter, which is considered acceptable for occupancy per the EPA Guidance Publications.

Our daily logs along with air sample results are attached.

SaLUT appreciates the opportunity to provide these services. If you have any questions, or require any additional information, please contact our office.

Very truly yours,
SOIL AND LAND USE TECHNOLOGY, INC.

(b) (6) [redacted]

Joyce M. Walker
Operations Manager

SaLUT

Field Reports and Diagrams

SaLUT

11609 Edmonston Road • Beltsville, MD 20705 • (301) 595-3783

DAILY REPORT

Client: GSA NCR Job No.: 97-062 Employee: WALTER DIXON Date: 10 MAR 97

Project: NATIONAL ARCHIVES On-site From: 5:30p to: 2:00p Lunch: .5

Total Hours: 8.0 Travel Time: – (Rt) Mileage: 60 (Rt) Exps.: –

Work in Progress / Summary of Activities:

5:30 ARRIVED ON-SITE NATIONAL ARCHIVES. MET WITH ASBESTOS COORDINATOR, TIM, WHO SHOWED ME WORK
ONE PERSON PRESENT FOR SOUTHERN INSULATION.
ONE ADDITIONAL PERSON EXPECTED.

6:00 REMAINING WORKER ARRIVES. HYGIENIST PRESENT FOR COMPLIANCE.

6:30 CREW IS WAITING TO BEGIN GLOVEBAG ABATEMENT OF SUB BASEMENT BOILER ROOM CHILLED WATER LINE INSULATION.
I AM INSPECTING GLOVE BAGS.

7:00 GLOVE BAG ABATEMENT BEGINS.
PCM WORK AREA AND EV SAMPLES STARTED.

8:00 GLOVE BAG ABATEMENT CONTINUES.

9:00 2/8 OF LINE COMPLETED. LUNCH BREAK.

Samples Collected

Industrial Hygiene		TAT	Construction		Other	
PCM On-site	7		Nuke			
PCM Lab		hr	Concrete Cyls			
TEM		hr	Proctor			
PLM		hr	Sieve			
LEAD		hr	Limits			
Other		hr	Moisture			

Reviewed By. _____

SaLUT

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DAILY REPORT, Contd.

Project: NATIONAL ARCHIVES Job No. 97-062 Date: 10 MAR 97 Page 2 of 2

Work in Progress / Summary of Activities:

10:00 CREW RETURNS FROM LUNCH AND RESUMES ABATEMENT.

11:00 4/8 OF AREA COMPLETED.

12:00 NO CHANGE IN ACTIVITIES.

1:00 WORK IS NOW 5/8 COMPLETED. CREW IS WORKING ON R-5-1

1:40 GLOVE BAG REMOVAL STOPPED FOR GENERAL AREA CLEAN-UP.

2:00 ALL PARTIES OFF-SITE.

Employee: (b) (6) [redacted]

SaLUT

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES Project: CHILLED WATER

Location: SUB BASEMENT Date: 10 MAR 97

Removal Contractor: SOUTHERN INSULATION

Industrial Hygienist: DIXON

Time Started: 1700 AM Time Stopped: 1:40 AM

INSPECTION CATAGORY	ACTIVITY CHECKED	WITHIN LIMITS	PROBLEM ENCOUNTERED
1 Work Site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains		
	c. GLOVE BAG PROJ	✓	
	d. Seals around ducts, windows and doors		
	e. Negative air machine in use		
	f. Negative Pressure >-0.03"		
2 Signage	a. Caution Signs at Vestibule entry	✓	
	b. OSHA Sign (Asbestos)		
	c. Dumpster, ducts drums,and bags labelled	✓	
3 Work Practices	a. Hammers, Saws, etc. NOT in use	✓	
	b. Removable Material Promptly Bagged	✓	
	c. Debris Stored in remonal area	✓	
	d. HEPA Vacuum in use	✓	
	e. Material Kept wetted Until Bagged	✓	
4 Worker Protection	a. Disposable Clothing Used One Time	✓	
	b. Proper NIOSH respirators Disp	✓	
	HEPA	✓	
	PAPR		
	TYP"C"		
	c. Proper Decontamination Sequence Followed	✓	
5 Showers	a. Functioning ?		
	b. Soap and Towels ?		
	c. Used each Depature?		
6 Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating or Drinking	✓	

Field Notes: Describe any problems encountered here. The above questions are to be answered "Within Limits" or "Problem Encountered"

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11609 Edmonston Road • Beltsville, MD 20705 • (301) 595-3783

DAILY REPORT

client: GSA NCR Job No.: 97-062 Employee: WALTER DIXON Date: 11 MAR 97

Project: NATIONAL ARCHIVES On-site From: 5:30pm to: 2:00AM Lunch: .5

Total Hours: 9 Travel Time: — (Rt) Mileage: 60 (Rt) Exps.: —

Work in Progress / Summary of Activities:

5:30 ARRIVED ON-SITE AT NATIONAL ARCHIVES. PERSONNEL PRESENT FOR SOUTHERN INSULATION.

6:00 REMAINING WORKER ARRIVES FOR ABATEMENT CONTRACTOR. INDUSTRIAL HYGIENIST ARRIVES REPRESENTING COMPLIANCE. WE ALL GO TO LOBBY AND SIGN-IN.

6:30 ABATEMENT CONTRACTOR BEGINS CONTINUATION OF GLOVE-BAG ABATEMENT IN SUB BASEMENT BOILER ROOM.

7:30 REMOVAL BEING PERFORMED ON REAR OF R-5-1.

8:30 GLOVE BAG ABATEMENT IS 3/4 COMPLETED.

9:30 CREW STOPS FOR LUNCH.

10:00 GLOVE BAG REMOVAL RESUMES. ALL THAT REMAINS IN WORK AREA IS FOUR (4) VALVES, TWO (2) OF WHICH IS FIBERGLASS.

Samples Collected

Industrial Hygiene		TAT	Construction		Other	
PCM On-site	7		Nuke			
PCM Lab		hr	Concrete Cyls			
TEM		hr	Proctor			
PLM		hr	Sieve			
LEAD		hr	Limits			
Other		hr	Moisture			

Reviewed By. _____

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DAILY REPORT, Contd.

Project: NATIONAL ARCHIVES Job No. 97-062 Date: 11 MAR 97 Page 2 of 2

Work in Progress / Summary of Activities:

11:00 ABATEMENT OF REMAINING VALVES CONTINUES.

12:00 NO CHANGE IN ACTIVITIES.

1:30 CLEAN-UP OF AREA STARTED. TWO OF THE FOUR VALVES REMOVED.

2:00 ALL PERSONNEL OFF-SITE

Employee: (b) (6) [redacted]

SaLUT

ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES Project: BOILER ROOM

Location: SUB BASEMENT Date: 11 MAR 97

Removal Contractor: SOUTHERN INSULATION

Industrial Hygienist: W. DIXON

Time Started: 6:30 pm Time Stopped: 1:30 am

INSPECTION CATAGORY	ACTIVITY CHECKED	WITHIN LIMITS	PROBLEM ENCOUNTERED
1 Work Site Isolation	a. Perimeter Barrier	✓	
	b. Decontamination Curtains	✓	
	c. GLOVE BAG PROJ	✓	
	d. Seals around ducts, windows and doors		
	e. Negative air machine in use		
	f. Negative Pressure >-0.03"		
2 Signage	a. Caution Signs at Vestibule entry	✓	
	b. OSHA Sign (Asbestos)	✓	
	c. Dumpster, ducts drums,and bags labelled	✓	

INSPECTION CATAGORY	ACTIVITY CHECKED	WITHIN LIMITS	PROBLEM ENCOUNTERED
3 Work Practices	a. Hammers, Saws, etc. NOT in use	✓	
	b. Removable Material Promptly Bagged	✓	
	c. Debris Stored in remonal area	✓	
	d. HEPA Vacuum in use	✓	
	e. Material Kept wetted Until Bagged	✓	
4 Worker Protection	a. Disposable Clothing Used One Time	✓	
	b. Proper NIOSH respirators Disp		
	HEPA	✓	
	PAPR		
	TYP"C"		
	c. Proper Decontamination Sequence Followed	✓	
5 Showers	a. Functioning ?		
	b. Soap and Towels ?		
	c. Used each Depature?		
6 Work Habits In Work Area	a. No Smoking	✓	
	b. No Eating or Drinking	✓	

Field Notes: Describe any problems encountered here. The above questions are to be answered "Within Limits" or "Problem Encountered"

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DAILY REPORT

Client: GSA NCR Job No. 97-062 Employee: WALTER DIXON Date: 12 MAR 97

Project: NATIONAL ARCHIVES On-site From: 6:00 AM to: 2:30 PM Lunch: .5

Total Hours: 8.0 Travel Time: – (Rt) Mileage: 60 (Rt) Exps.: –

Work in Progress / Summary of Activities:

ARRIVED ON-SITE AND MET WITH SOUTHERN INSULATION CREW (1 WORKER, 1 SUPERVISOR).

CREW WILL BE REMOVING REMAINING 2 VALVES IN SUB BASEMENT BOILER ROOM. BOTH LINES (VALVES) ARE FIBERGLASS INSULATION.

CREW COMPLETED VALVE INSULATION REMOVAL AT 11:00 pm. AFTER LUNCH CREW PERFORMING WASTE BAG TAKEOUT, EQUIPMENT TAKE-OUT AND GENERAL AREA CLEAN-UP.

ALL PARTIES LEFT SITE @ 2:15 AM.

NO PROBLEMS.

Samples Collected

Industrial Hygiene		TAT	Construction		Other	
PCM On-site			Nuke			
PCM Lab		hr	Concrete Cyls			
TEM		hr	Proctor			
PLM		hr	Sieve			
LEAD		hr	Limits			
Other		hr	Moisture			

Reviewed By. _____

SaLUT

Air Sample Data Sheets

SaLUT
Soil and Land Use Technoiohy, Inc.
11609 Edmonston Road • Beltsville, MD 20705
Tel: (301)595-3783
Fax: (301)595-3787

PCM AIR SAMPLE DATA SHEET

Project: NATIONAL ARCHIVES
Job No.: 97-062
Name: WALTER DIXON

Client: GSA NCR
Date: 10 MAR 97 Time on-site: 5:30pm to 2:00 am
Analyzed On-site: X Laboratory:

Sample ID	Type	Flow (Lpm) / Time ON		Flow (Lpm) / Time OFF		Flow Time (min)	Volume (L)	Fibers/ Fields	Fibers/ cc	Location
97-062-3-10-1	FB	—		—		—	—	.5/100	<0.01	FIELD BLANK
2	FB	—		—		—	—	0/100	<0.01	" "
3	EV	10	7:00	10	9:00	120	1200	13/100	<0.01	BY ENTRANCE DOOR
4	EV	↓	↓	↓	↓	↓	↓	13/100	<0.01	BY DESK NEAR ENTRANCE
5	WA	2	7:10	2	11:10	240	480	3/100	<0.01	UNDERNEATH WATER LINE
6	EV	10	11:30	10	1:30	120	1200	9/100	<0.01	BY DESK NEAR ENTRANCE
7	EV	↓	↓	↓	↓	↓	↓	10/100	<0.01	REAR OF R-5-1

QA Reference Slide No.:			Fiber Count (F/fields)	Fiber Count (F/mm²)	Reference Value Within Limits?	Scope ID	Scope Make/Model	To be within **acceptable** limits abs.(sqrt.(count1)-sqrt.(count2)) < 2.77
						SM-8	NIKON	
QC Daily Recount sample ID:	Sample ID 97-062-3-10-5	Initial Count (F/mm²) 3.82	QC ID# 96-253-2-10-3	Blind Count (F/mm²) 20.38	Blind Count Within Limits? Y	Are Phase Rings Concentric? Y	Scope Check w/ Phase Shift Slide? Y	

COMMENTS:

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

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Soil and Land Use Technolohy, Inc.
11609 Edmonston Road • Beltsville, MD 20705
Tel: (301) 595-3783
Fax: (301) 595-3787

PCM AIR SAMPLE DATA SHEET

project: NATIONAL ARCHIVES
Job No.: 97-062
Name: WALTER DIXON

e n GSA NCR
Date: 11 MAR 97 Time on-site: 5:30pm to 2:00AM
Analyzed On-site: X Laboratoty:

Sample ID	Type	Flow (Lpm) / Time ON	Flow (Lpm) / Time OFF	Flow Time (min)	Volume (L)	Fibers/ Fields	Fibers/ cc	Location
97-062-3-11-1	FB	—	—	—	—	0/100	<0.01	FIELD BLANK
2	FB	—	—	—	—	5/100	<0.01	" "
3	EV	10 6:30	10 8:30	120	1200	8/100	<0.01	LEFT SIDE OF R-5-1
4	↓	↓ ↓	↓ ↓	↓	↓	11/100	<0.01	RIGHT " " "
5	WA	2 6:35	2	240	480	2/100	<0.01	TOP OF R-5-1
6	EV	10 12:00	10 1200	120	1200	6.5/100	<0.01	SAME AS #3
↓ 7	↓	↓ ↓	↓ ↓	↓	4	9/100	<0.01	BY ENTRANCE ROOM DOOR

QA Reference Slide No.:			Fiber Count (F/fields)	Fiber Count (F/mm²)	Reference Value Within Limits?	Scope ID	Scope Make/Model	To be within acceptable limits abs.(sqrt.(count1)-sqrt.(count2)) < 2.77
						Sm-8	NIKON	
QC Daily Recount sample ID:	Sample ID 97-062-3-11-5	Initial Count (F/mm²) 2.54	QC ID# 96-253-2-12-4	Blind Count (F/mm²) 5.1	Blind Count Within Limits? Y	Are Phase Rings Concentric? Y	Scope Check w/ Phase Shift Slide? Y	

COMMENTS:

Key: BG - Background
EV - Environmental
WA - Work Area
FC - Final Clearance
PS - Personal
FB - Field Blank

T.S/WPMOX
FEE 4 1997
AC000622

General Services Administration
National Capital Region
Washington, DC 20407

January 31, 1997

American Combustion, Inc.
3520 Bladensburg Road
Brentwood, MD 20722

Attn: Mr. Nelson E. Torres

RE: Archives I Chiller Upgrade
GSA Project No. RDC 48080
Contract No. GS 11P96MKC0011

Subject: Asbestos Abatement

Gentlemen,

Archives Building Management and GSA have serious joint concerns regarding the handling of the Asbestos Abatement portion of the Chiller Upgrade Contract.

We were pleased that American Combustion commenced demolition work on the chillers ahead of the published schedule start date. However, that did not obviate the need for proper handling of the identified asbestos containing materials.

The Contract clearly defines (Specification Section 02085, "Asbestos Abatement Procedures," Part 1, General, subsection 1.01, Description of Work) areas, identified through previous testing, that require abatement. Those areas, the supply and return chilled water piping, were unfortunately disturbed during demolition on 30 January, 1997. We do appreciate the prompt response by your asbestos abatement subcontractor, Southern Insulation, on that day and the following morning. It appears, from conversations with them based on tests they conducted, that asbestos was not released and a hazard was averted.

Please submit, for our review, the documentation created by the asbestos abatement contractor pertaining to this incident. Also, before any further disturbance of the identified asbestos containing materials, submit the contractually required "Post-Award Asbestos Abatement Submittals" per Specification Section 02085, subsection 1.04, B, items 1 through 8(see attachment.)

Federal Recycling Program Printed on Recycled Paper

We recognize the time constraint inherent in this project, but that relieves none of us of the responsibility for safe, contract compliant execution of the Work. Please do not hesitate to contact the undersigned should there be any questions.

Sincerely,

(b) (6) [redacted]

Bronson E. Alcott
Heery CQM

Enclosures: Specification, "Post-Award Asbestos Abatement Submittals," 2 pages

cc: Mr. Mark Eubank/Archives
Ms. Joy Walker/GSA Contracting Officer
Mr. Tobias Gottesman/GSA Project Executive
Mr. Kent Howard/GSA Construction Engineer
[redacted]
Mr. Kerry Frantz/Meta Engineers

Federal Recycling Program Printed on Recycled Paper

2. Five Air Tests: Copy of daily log and air monitoring reports including final decontamination levels of last five abatement projects.
3. Experience and Qualifications of Supervision: Name of and experience record of superintendent and foreman. Include evidence of knowledge of applicable regulations; evidence of participation and successful completion of EPA approved training course in asbestos removal and/or supervision of asbestos related work; and experience with asbestos related work in a supervisory position as evidenced through supervision of at least two asbestos abatement contracts.
4. Experience and Qualifications of Workers: Name and experience record of workmen who will be assigned to this project. Include for each person evidence of successful completion of State of Maryland or Commonwealth of Virginia training given by qualified personnel. Provide certification that employees meet the medical surveillance requirements of the state for which they are licensed.
5. License Information: Provide a copy of the Maryland License for Asbestos Removal or Encapsulation as a minimum for all projects; or a copy of the Virginia Asbestos Contractor's License for a project being accomplished within the Commonwealth of Virginia

B. Post-Award Asbestos Abatement Submittals: Items 1.04.B.1. through 1.04.8.8 below are to be submitted after the award, but are required to be approved by the contracting officer or his designated representative prior to sfarting work.

1. Plan of Action: Submit a detailed plan of the procedures proposed for use in complying with the requirement and regulations included in this specification. The plan shall include the location and layout of decontamination areas, the sequencing of asbestos work, the interface of trades involved in the performance of work, methods to be used to assure the safety of building occupants and visitors to the site. Expand upon the use of portable HEPA ventilation system, closing out of the building's HVAC system during removal, method of removal to prohibit emissions in work area, and packaging of removed asbestos debris.
2. Disposal Plan: A disposal plan including location of approved disposal site and the contractors method for documenting proper asbestos disposal to the contracting officer or his designated representative.
3. Environmental Protection Agency (EPA) Notification: Provide a copy of the NESHAPS Notification of Demolition Renovation Form sent to the Regional EPA Asbestos Regulation Office. (Paragraph 1.02)
4. Local Government Notification: Provide a copy of the notification sent to the appropriate State or Local Governmental Asbestos Regulation Office. (Paragraph 1.02)
5. GSA Asbestos Control Permit: Submit a GSA National Capital Region Asbestos Control Permit with lines one through nine filled out.
(A copy is attached to Page 02085-15)
6. Certificates of Compliance: Submit certification that vacuums, ventilation equipment, and other equipment required to contain airborne asbestos fibers conform to ANSI 29.2.
7. Information on Encapsulating Material: Submit written evidence that material meets the latest requirements of the Environmental Protection Agency (EPA) and possesses the specified characteristics.
8. Laboratory Qualification Information: Submit proof of qualifications of testing laboratory and personnel. Accreditation by the American Industrial Hygiene Association (AIHA) for asbestos analysis and two consecutive quarterly reports showing that the laboratory analyzing the samples has been judged proficient by successful participation in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing (PAT) Program, shall be considered sufficient proof of compliance. In addition to microscopists employed by AIHA accredited laboratories, microscopists who provide similar evidence of successful participation in the AIHA Asbestos Analyst's Registry may

ENCLOSURE, GSA LETTER OF 31 JANUARY, 1997 TO AMERICAN COMBUSTION

analyze the fibers-in-air on site, however, any samples which are sent to a laboratory for analysis must be analyzed by an AIHA accredited laboratory. This submittal must be approved by the Contracting Officer prior to beginning any testing.

C. During-Work Asbestos Abatement Submittals: Items 1.04.C.I. through 1.04.C.2. below are to be submitted to the contracting officer or his designated representative as work progresses at the time specified.

1. Air Monitoring and Work Area Information:

   a. Air Monitoring Results: Results of all air monitoring conducted by the contractor shall be posted within 24 hours of collection for all workers to see. A copy of the results shall be given to the contracting officer.
   b. Differential Air Pressure Readings: Starting when a negative pressure containment is erected and approved by the contracting officer, a copy of the strip chart record of the work area relative pressure shall be submitted within 24 hours after the recording was made.
   c. Work Area Inspections: The contracting officer's representative will perform visual inspections of the work area for the pre-removal, pre-final, and reoccupancy stages of the work. The contractor shall notify the contracting officer at least 14 hours in advance of each required inspection.

2. Transporting and Disposing of Asbestos Containing Materials (ACM):

   a. Disposal Receipts: Receipts from the transporter, which acknowledge the contractor's shipment of ACM from the site(NESHAPS Waste Shipment Records) shall be submitted three days following removal of ACM from the premises. Each receipt shall provide date, quantity of material removed, and signature of an authorized representative of the transporter. A signed and dated copy to the Waste Shipment Record showing receipt at an authorized landfill must be received by GSA's designated representative within 30 calendar days of the date of the shipping receipt.
   b. Transportation Vehicles: Transportation shall be in vehicles dedicated to asbestos transportation. Vehicles shall be marked in accordance with DOT and NESHAPS regulations.
   c. Shipping Manifest Forms: Signed and completed Shipping Manifest Forms (NESHAPS Waste Shipment Records) shall be used for the transportation of ACM. This form shall be signed by each party who has control over the asbestos waste, and a copy retained by each party as responsibility for the waste is transferred to the next party. An example Shipping Manifest Form is attached directly behind the GSA Asbestos Control Permit in the this section.

D. Final Submittals: Items 1.04.D.I. and 1.04.D.2. below are to be submitted to the contracting officer's designated representative at the completion of work for each containment.

1. Daily Log: Copies of a daily log showing the date(s) and time(s) of entrance to and exit from the work area(s) for all persons.
2. Reestablish Systems: Submit written certification:

   a. Describing the type, application, and quantity of asbestos containing materials removed by the contractor.
   b. That final inspection items were completed.
   c. That mechanical and electrical systems disturbed by the contractor during work under the contract have been reinstalled and are in working order.

FILE COPY

JUN 25 1996

MEMORANDUM FOR CALVIN LINTHICUM
CONSTRUCTION PROCUREMENT TEAM (WPCAC)

FROM: TIMOTHY SLEETH (b) (6) [redacted]
SAFETY & ENVIRONMENT BRANCH (WPMOX)

SUBJECT: PRE-AWARD ASBESTOS ABATEMENT SUBMITTAL
GS11P96MKC0010
ELECTRICAL UPGRADE
MAIN ARCHIVES BUILDING
7TH AND PENNSYLVANIA AVE., N.W.
WASHINGTON, D.C.

The June 18, 1996 Pre-Award Asbestos Abatement Submittal from Wm. D. Euille & Associates, Inc. for Wayne Insulation Company, Inc. has been reviewed and found to be insufficient for approval as noted:

[1] Included in the list of workers is Santos F. Bonilla. Submit a copy of his current asbestos worker certification.

[2] Submit certification (copies of medical evaluations/records) proving that employees meet medical surveillance requirements of the state for which they are licensed.

[3] Submit copies of the proper License for Asbestos Removal/Encapsulation required for this job (State of Maryland as a minimum).

Refer to 1.04 of the attached Section 02085 - Asbestos Abatement Procedures for more specific details on the submittal requirements.

If you have any questions, please contact me at (202) 708-5236.

Reviewed by:_____Date_____
George Abi-Nader, Industrial Hygienist

cc: Official, Facility, WPMOX
Subject File: DC0006ZZ
Abi-Nader: 6/24/96
96-377

Author: (b) (6) [redacted] Date JUN 25 1996
for George Abi-Nader, Industrial Hygienist

General Services Administration
National Capital Region
Washington, DC 20407

FILE COPY

April 22, 1996

MEMORANDUM FOR TOM FANNING
PROJECT MANAGEMENT BRANCH (WPCO)

FROM: TIMOTHY SLEETH (b) (6) [redacted]
SAFETY AND ENVIRONMENT BRANCH (WPMOX)

SUBJECT: POST-AWARD ASBESTOS ABATEMENT SUBMITTAL
GS-11P95MKC0028
BUILDING RENOVATION
FEDERAL OFFICE BUILDING #6
FOURTH & C STREETS, SW
WASHINGTON, DC

The April 2, 1996, Post-Award Asbestos Abatement submittal from Twigg Corporation, for Potomac Abatement, Inc., was reviewed as noted:

Pre-Award: **Disapproved.**

[1] The Safety and Environment Branch has not received copies of Pre-Award submittals for this project. Please submit full information as required by GSA Guide Specification Section 02085R, prior to start of work on this project..

Post-Award: **Approved as Noted.**

[2] The "Asbestos Removal" Plan refers to the Industrial Hygienist (IH) as being responsible for the containment negative air pressure and critical barrier integrity. It is unclear whether this means the Contractor's IH, or the Government's Independent IH. Please note that the Contractor shall be responsible for any negative pressure enclosures and critical barrier integrity required during the asbesfos removal phases of this project.

If you have questions, please contact me at (202) 708-5236

cc: Official, Facility, WPMOX
Subject File: DC0010ZZ
Sleeth: 04122196x708-5236
<WINWORD>96-263

Author: (b) (6) [redacted] Date: 4-22-96
Timothy Sleeth, Industrial Hygienist (WPMOX)

~~DC00[illegible]~~
DC000622

SaLUT

Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

November 13, 1990

GSA National Capital Region
Safety & Environmental Management Division **(WPX)**
7th & D Streets, S.W., Room 2034
Washington, D.C. 20407

RECEIVED
GSA-NCR
SAFETY & ENVIRONMENTAL
MANAGEMENT DIV. (WPX)
DEC 7 8 04 AM '90

Attn: Ms. **Normajean** Eleazer

Re : National Archives SE Sub-Basement
Air Handling Unit #5
Washington, D.C.
SaLUT No.: **SL90-41-42**
Act. No.: **P72097038**

Dear Ms. Eleazer:

In response to Order Number **P1190DC9494,** SaLUT, Inc. monitored asbestos abatement activities at the above-referenced project from November 9, 1990 to November 10, 1990.

Our services included providing industrial hygiene services, including collection and analysis of air samples, an initial inspection, and a final inspection and clearance. All air samples were collected and analyzed in accordance with NIOSH Method 7400. All daily activities along with air sample results and final inspection reports are documented in the attached daily field reports.

We appreciate the opportunity to provide these services. If you have any questions or need additional information, please contact us.

Very truly yours,

(b) (6) [redacted]

Todd M. Woerner
Project Manager

AGS/902

SaLUT

INITIAL INSPECTION

EXHIBIT A

GSA ASBESTOS ABATEMENT START-UP CHECKLIST

Building: National Archives Project: _____

Location: 7th + Penn Date: 11/09/90

Removal Contractor: TBN Time Inspected: 9:30

Monitoring contractor: Applied Time Work Started: _____

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier:	✓	
	b. Decontamination Curtains	✓	
	c. Seals around ducts, windows and doors	✓	
	d. Vertical and Horizontal Openings	✓	
	e. "Microtrap" in use	✓	
	f. Negative pressure > .02"	—	
2. Signage	a. Caution Signs at vestibule entry.	✓	
	b. OSHA SIGN (ASBESTOS)		
	c. Dumpster, ducts, drums and bags labelled	NA	

GSA ASBESTOS ABATEMENT START-UP CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.		
	e. Material Kept Wetted Until Bagged.		
4. Worker'protection	a. Disposable Clothing Used One Time.		
	b. Proper NIOSH respirators.	Disp HEPA PAPR TYP"C"	
	c. Proper Decontamination Sequence Followed		
5. Showers	a. Functioning?		
	b. Soap and Towels?		
	c. Used Each Departure?		
6. Work Habits In Work Area	a. No Smoking		
	b. No Eating/Drinking		

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Report Prepared By (b) (6) [redacted] Date: 11/09/90

SaLUT

NATIONAL ARCHIVES BUILDING

SUB-BASEMENT – AIR HANDLING UNIT #5 & GLOVE-BAG

SaLUT

Project: National Archives/Sub-Basement, AHU #5

Job No.: SL90-41-42

SAMPLE ID	TYPE	FLOW TIME	VOLUME	LOCATION	FIBERS/CC
41-42-11-9-01	FB				2/100
41-42-11-9-02	FB				1.5/100
41-42-11-9-03	BG	205	2050	BY DOOR OF AIR HANDLER SE OF CONTAINMENT	0.004
41-42-11-9-04	BG	205	2050	TOP OF CONT. BELOW GLOVE BAGS	0.002
41-42-11-9-05	BG	205	2050	BY MICROTRAP NE CONTAINMENT	0.004
41-42-11-9-06	BG	205	2050	INSIDE CONT. NW BY EQUIP. DOOR	0.002
41-42-11-10-01	FB				2/100
41-42-11-10-02	FB				1/100
41-42-11-10-03	WA	240	480	EAST END NEAR EXIT	0.060
41-42-11-10-04	WA	239	478	WEST END ABOVE MICROTRAP	0.040
41-42-11-10-05	EV	390	1560	EAST CLEAN ROOM	<0.01
41-42-11-10-06	EV	260	1066	BETWEEN CLEAN ROOMS	<0.01
41-42-11-10-07	EV	389	1556	WEST CLEAN ROOM	<0.01
41-42-11-10-08	WA	165	330	EAST END NEAR EXIT	0.040
41-42-11-10-09	WA	165	330	WEST END ABOVE MICROTRAP	0.050
41-42-11-10-10	FC	210	2100	3' RIGHT OF EAST DDECON	<0.01
41-42-11-10-11	FC	210	2100	10' IN FRONT OF EAST DECON	<0.01
41-42-11-10-12	FC	210	2100	5' LEFT OF WEST DECON	<0.01
41-42-11-10-13	FC	210	2100	10' LEFT OF WEST DECON	<0.01

BG - BACKGROUND
EV - ENVIRONMENTAL
WA - WORK AREA
FC - FINAL CLEARANCE
PS - PERSONAL
FB - FIELD BLANK

SaLUT

11-9-90

SaLUT Soil and Land Use Technology, Inc.
801 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823
Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: NATIONAL ARCHIVES/Sub-Basement, AHU #5
Job No: SL90-41-42
Name: JOYCE HIX

Client: GSA
Date: 11/9/90 Time on-site: 4:30 to 9:30
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-42-11-9-1	FB	—	—	—	—	—	2/100	—	BLANK
41-42-11-9-2	FB	—	—	—	—	—	1.5/100	—	BLANK
41-42-11-9-3	BG	10/5:00	10/8:25	205	2050	BY DOOR OF AIRHANDLER SE OF CONTAINMENT	18/100	.004	SH4
41-42-11-9-4	BG	10/5:00	10/8:25	205	2050	ON TOP OF CONTAINMENT BELOW GLOVE BAGS	6/100	.002	SH6
41-42-11-9-5	BG	10/5:00	10/8:25	205	2050	BY MICROTRAP NE CONTAINMENT	18.5/100	.004	SH21
41-42-11-9-6	BG	10/5:00	10/8:25	205	2050	INSIDE CONTAINMENT NW BY EQUIP. DOOR	9/100	.002	SH22

COMMENTS: Pumps calibrated by Rotameter SK22

Key: BG – Background
EV – Environmental
WA – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

SoLUT Soil and Land Use Technology, Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

4:30 Arrive at National Archives. Lenny Brown is foreman for TBV crew. 9 crew still finishing up containment.
5:00 Begin 4 Background samples after inspecting air handler room. Electrical equipment can't be turned off but has been properly contained by 3 layers of poly. Some glove bags hung outside containment.
7:00 Crew leave. Expect 2 men tomorrow.
8:00 CIH Dr. O'Neil Banks arrives with Ron Stallard (IH for 11/10/90) Gives approval of containment.
8:25 Stop BG's. Read slides.
9:30 Exit National Archives

(b) (6) [redacted]

Salut Asbestos Technician

11/9/90
Date

SaLUT

11-10-90

SaLUT Soil and Land Use Technology, Inc.
803 Barkwood Court, Suite E, Linthicum, Maryland 21090 Telephone: (301) 354-2823 Fax: (301) 354-2832

AIR TEST SAMPLING DATA SHEET

Project: National Archives Bldg. / Sub-Basement - AHU #5
Job No: SL90-041-42
Name: Ron Stallard

Client: GSA
Date: 11/10/90 Time on-site: 6:00AM to 7:00PM
Analyzed On-site: ✓ Laboratory:

Sample ID	Type	Flow Time ON	Flow Time OFF	Flow Time	Volume	Location	Fibers/ Fields	Fibers/ cc	Remarks
41-42-11-10-1	FB	—	—	—	—	—	2/100	—	BLANK
41-42-11-10-7	FB	—	—	—	—	—	1/100	—	BLANK
41-47-11-10-3	WA	2.0/7:35	2.0/11:35	240	480	East End Near Exit	62.5/100	.06	
41-42-11-10-4	WA	2.0/7:36	2.0/11:35	239	478	West End Above Microtrap	43/100	.04	
41-42-11-10-5	EV	4.0/7:39	4.0/2:10	390	1560	East Clean Room	9/100	<.01	
41-42-11-10-6	EV	4.1/9:50	4.1/2:10	260	1066	Between Clean Rooms	10.5/100	<.01	
41-42-11-10-7	E	4.0/7:41	4.0/2:10		1556	West Clean Room	6/100	<.01	
41-42-11-10-8	WA	2.0/11:35	2.0/2:20	165	330	East End Near Exit	5/100	.04	
41-42-11-10-9	WA	2.0/11:35	2.0/2:20	165	330	West End Above Microtrap	35/100	.05	
41-42-11-10-10	FC	10/3:10	10/6:40	210	2100	3' right of East Decon	6/100	<.01	
11-10-11	FC	10/3:10	10/6:40	210	2100	10' in front of East Decon	2.5/100	<.01	
41-42-11-10-12	FC	10/3:10	10/6:40	210	2100	5' left of West Decon	3/100	<.01	
41-42-11-10-13	FC	10/3:10	10/6:40	210	2100	10' left of West Decon	4.5/100	<.01	

COMMENTS: Rotometers SR-7 & SR-16 were used to calibrate pumps

Key: BG – Background
EV – Environmental
WA – Work Area
FC – Final Clearance
PS – Personal
FB – Field Blank

SaLUT

Soil and Land Use Technology. Inc.

803 Barkwood Court, Suite E, Linthicum, Maryland 21090

Telephone: (301) 354-2823
Fax: (301) 354-2832

SUMMARY OF ABATEMENT ACTIVITIES/COMMENTS

6:00 ARRIVED ON SITE

6:30 INSPECTED CONTAINMENT. ONE SMALL AREA STILL NEEDS TO BE POLYED. CIH APPROVED LAST NIGHT.

7:40 SAMPLES STARTED

8:25 10 WORKERS FROM TBN

9:45 GLOVE BAGGING 3 HANGARS ON NORTH SIDE OF CONTAINMENT

11:00 - Gross removal continued in containment as well as glove-bagging outside containment. Neg. pressure was @ -.07

11:30- Workers showered out for break w/ all gross removal complete.

12:00- Workers entered containment & began fine cleaning.

1:30- Entered Containment and inspected East end of containment and all pipes and walls: floors were sufficiently clean to encapsulate. West end allmost complete.

2:15- Entered containment and inspected west end of containment and area was sufficiently clean so OK. was given to encapsulate.

2:25- Encapsulation. All glove-bagging complete @ this time.

3:10- final air clearence samples began.

6:40- final air clearence samples complete and analyzed and results were below .01 so OK. was given to tear down containment.

7:00- Left Site.

(b) (6) [redacted]

SaLUT Industrial Hygientist

11/10/90

Date

SaLUT Soil and Land Use Technology Inc

EXHIBIT B

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST

Building: NATIONAL ARCHIVES project: AHU 5

Location: SUB. Date: 11/10/90

Removal Contractor: TBN Time Started: 6:00 am

Monitoring Contractor: SaLUT Time Stopped: 7:00PM

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
1. Work site Isolation	a. Perimeter Barrier	yes	
	b. Decontamination Curtains	yes	
	c. GLOVE BAG PROJ	yes →	OUTSIDE OF CONTAINMENT
	d. Seals around ducts, windows and doors	yes	
	e. "Negative air machine" in use	yes	
	f. Negative pressure > .03"	yes	
2. Signage	a. Caution Signs at vestibule entry.	yes	
	b. OSHA SIGN (ASBESTOS)	yes	
	c. Dumpster, ducts,drums, and bags labelled	yes	
3. Work Practices	a. Hammers, saws, etc. NOT in use.	yes	
	b. Removed Material Promptly Bagged.	yes	
	c. Debris Stored in removal area.	--	

SoLUT Soil and Land Use Technology, Inc.

GSA ASBESTOS ABATEMENT MONITORING CHECKLIST (Back)

Inspection Category	Activity to be Checked	Within Limits	Problem Encountered
	d. HEPA Vacuum in use.	yes	
	e. Material Kept Wetted Until Bagged.	yes	
4. Worker Protection	a. Disposable Clothing Used One Time.	yes	
	b. Proper NIOSH respirators.	Disp ____ HEPA ____ PAPR X TYP"C" ____	
	c. Proper Decontamination Sequence Followed	yes	
5. Showers	a. Functioning?	yes	
	b. Soap and Towels?	yes	
	c. Used Each Departure?	yes	
6. Work Habits In Work Area	a. No Smoking	yes	
	b. No Eating/Drinking		

Field Notes:
*Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: (b) (6) [redacted] Date: 11/10/90

SaLUT

FINAL INSPECTION

SaLUT Soil and Land Use Technology, Inc

EXHIBIT C

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT

Building: National Archives Project: Sub-Basement

Location: AHU #5 Date: 11/10/90

Removal Contractor: TBN Time Inspected: 2:00

Monitoring Contractor: Salut Time Completed: 2:30

FINAL INSPECTION: The final inspection shall consist of a walkthrough inspection conducted by the IH contractor IH. He may at times be accompanied by the Contracting Officer's Representative or a designee, a GSA Safety and Environmental Management representative, the IH contract's Certified Industrial Hygienist, the asbestos abatement contractor, a state or local government representative, the abatement contractor's Industrial Hygienist, a tenant Agency Representative, or another interested party.

OBJECTIVE: The objective is 'toassure that the ASBESTOS has been removed or abated as required in the CONTRACT. All parties should familiarize themselves with the provisions of the contract and the "Asbestos Removal/Abatement Scope of Work." This checklist is to serve as a guide for the final inspection.

Activity to be Checked		Within Limits	Problem Encountered
1. Residual Dust on:			
(below eye level)	a. Floor.	yes	
	b. Horizontal Surfaces.	yes	
	c. Pipes.	yes	
	d. Ventilation Equipment.	yes	
(above eye level)	e. Horizontal surfaces.	yes	
	f. Pipes.	yes	
	g. Ductwork.	yes	
	h. Registers	yes	
	i. Lights.	yes	

SaLUT Soil and Land Use Technology, Inc.

GSA FINAL INSPECTION OF ASBESTOS ABATEMENT PROJECT (BACK)

BULK SAMPLES:

As any dust found in the removal area is likely to be asbestos contaminated, in cases of dispute, a small quantity of material may be sent to a designated laboratory for analysis.

FINAL AIR SAMPLING:

If all other tests and situations appear to be satisfactory, the final air tests will be taken.

Serial Number:	41-42-11-10-10	41-42-11-10-11	41-42-11-10-12	41-42-11-10-13	
Location:	3' right of East Decon	10' in front of East Decon	5' left of west Decon	10' left of west Decon	
Volume (Liters):	2100(l)	2100(l)	2100(l)	2100(l)	
Flow rate: (Liters/Minute)	10(l/m)	I)	10(l/m)	10(l/m)	
Fibers/Filter:	6/100	2.5/100	3/100	4.5/100	
Fibers/Cubic Cm:	<.01	<.01	<.01	<.01	

ANALYST ANALYZING SAMPLES: Roy Stallard, DATE: 11/10/90

Field Notes:
"Describe any problems encountered here. The above questions are to be answered either "YES" or "Problem Encountered."

Report Prepared By: [redacted] (b) (6) [redacted] e: 11/10/90

REPORT REVIEWED BY: _____ DATE: _____

8227 old courthouse road, suite 100
vienna, vkginia 22182
fax 703 790-5652
phone 703 790-5555

DC0006
Carefull

Environmental Management Systems Inc.

July 29, 1993

Summer Consultants, Inc.
6845 Elm Street, Suite 200
McLean, VA 22101

Attn: Mr. Randy Thompson

RE: Asbestos Inspection/ PCB Testing
Repair of Primary and Secondary Switchgear and Switchboards
National Archives
7th Street & Pennsylvania Avenue, NW
Washington, DC 20408

Dear Mr. Thompson:

Environmental Management Systems, Inc. (EMS) would like to thank you for retaining EMS to perform an asbestos inspection and PCB testing at the above referenced facility.

ASBESTOS

EMS reviewed existing asbestos documentation available from GSA Safety and Environmental Branch (Enclosure 1) and perfromed a visual inspection of the work areas for suspect asbestos-containing materials (ACMs). The work areas included the four transformer vaults, the primary switchboard room, as well as secondary switchboard areas specified by Summer Consultants, Inc. (See Enclosure 4 for Work Area Locations).

Based upon our documentation review, our visual inspection and our understanding of the proposed activities to be performed in conjunction with this project, EMS offers the following conclusions and recommendations:

Suspect asbestos-containing separator blocks and covers were observed in the secondary switchgear. These materials are non-friable with no damage observed and should not pose a significant exposure hazard during the repairs. If any of these materials become damaged during the course of the project, EMS recomends that established asbestos abatement procedures, including personal protection equipement and air monitoring, be utilized in order to limit possible exposure.

EMS' observed no other ACMs within the work areas that would be impacted by the project.

PCB

EMS reviewed existing polychlorinated biphenyl (PCB) documentation provided by Mr. Vernon Mills of the National Archives (Enclosure 2). The documentation review revealed that PCB-contaminated transformers are present in the southwest transformer vault.

In addition, as per instructions received from the GSA Project Manager, EMS sampled for the presence of PCB contamination on the floors of all four transformer vaults. The samples were collected using 4"X4" cotton gauze, with hexane as the wetting solvent, as requested by the analytical laboratory, American. Medical Laboratories, Inc. (AML). The samples were then analyzed by gas chromatography using an electron capture detector (GC/ECD).

The sample results ranged from 0.35 micrograms per square foot to 4,196.6 micrograms per square foot, with a quantitation limit of 0.1 micrograms per square foot. Please refer to Enclosure 3 for futher information.

The GSA Safety Office adheres to the EPA criteria for cleaning of PCB contaminated areas, cited under 40 CFR Part 761.125 (b)(3), requiring a clearance standard of 10 micrograms per 100 square centimeters. In accordance with this standard, samples 7102-29042 and 7102-29043 are in excess of the EPA limit. EMS recommends informing the contractors of the elevated sample results so that proper precautions are taken and/or decontamination of the areas may be performed.

If you have any questions regarding this report please do not hesitate to call.

Sincerely,
ENVIRONMENTAL MANAGEMENT SYSTEMS, INC.

(b) (6) [redacted]

For Joseph J. Tkach
Industrial Hygienist

(b) (6) [redacted]

For Daniel O. Chute, CIH, CSP

Enclosures (4)

ENCLOSURE 1

RECEIVED 3/9/88 85569

ENVIRONMENTAL • MEDICAL • ANALYTICAL

490 L'Enfant Plaza East, S.W.
Suite 4300
Washington, D.C. 200'24
202-488-7990

Plymouth Greene Office Campus A-1
801 E. Germantown Pike
Norristown, PA 19401
215 277-4520

200 Hospital Drive
Suite LL-10
Glen Burnie, MD 21061
301/760-7560

March 8, 1988

Bulk Sampling
National Archives Building Room 410
OMC Project: #001-ARCHVS-06

PERFORMED FOR:

General Services Administration
Safety and Environmental Management
ROB Room 2034
7th and D Streets, S.W.
Washington, D.C. 20407

Contract #GS-11C-40323 Work Request #88-33-070

Attn: Roy Thomas

On February 12, 1988, OMC performed asbestos bulk sampling in Room 410 at the National Archives Building, 7th and Constitution Avenue, N.W., Washington, D.C. Samples were collected from tile and plaster on the ceiling.

The bulk samples collected were submitted to and analyzed by OMC Laboratories in accordance with the EPA's Interim Method for the Determination of Asbestos in Bulk Samples. This method employs polarized light microscopy to identify a sample's fibrous components. Sample locations and analytical results are found in the attached sheets.

Should you have any questions concerning this matter, please do not hesitate to contact this office.

Sincerely,

(b) (6) [redacted]

Randy Sadler
Industrial Hygienist

(b) (6) [redacted]

Michael A. Cecil, C.I.H.
Manager, Industrial Hygiene Services

O M C ANALYTICAL LABORATC

LAB

O M C, Inc.
490 L'Enfant Plaza
Suite 4300
Washington, DC 20024
(202) 488-7990

CLIENT

*

02/17/88 PAGE 001

POLARIZED LIGHT MICROSCOPY ANALYSIS

Sample taken on 02/12 at *

Sample Number : 001-ARCHVS-06-02/12-B002

Location: GRAY FIBEROUS TILE IN 410

ANALYSIS

APPEARANCE : Fibrous Friable Homogeneous
Color is grey

FIBROUS MATERIALS

Organic Fibers	60.0 % -	65.0 %
Fibrous Concentration is	60.0 % -	65.0 %

NON-FIBROUS MATERIALS

Adhesive Carbonate Silicates Various other materials

Non-Fibrous Concentration is	35.0 % -	40.0 %

****
* ASBESTOS CONCENTRATION IS 0% *
****

Reference : 046 RECEIVED: 02/12/88 ANALYZED: 02/15/88

Michael A. Cecil C.I.H.
LAB DIRECTOR

Analyzed By : CB (b) (6) [redacted] 2-18-88

Reviewed By : (b) (6) [redacted] 2/18/88

O M C LABORATORY IS ACCREDITED BY THE A.I.H.A.

O M C ANALYTICAL LABORATORY

LAB CLIENT

O M C, Inc.
490 L'Enfant Plaza
Suite 4300
Washington, DC 20024
(202) 488-7990

*

02/17/88 PAGE 001

POLARIZED LIGHT MICROSCOPY ANALYSIS

Sample taken on 02/12 at *

Sample Number : 001-ARCHVS-06-02/12-B003

Location: WHITE PLASTER MATERIAL ABOVE GRAY TILES IN 410

ANALYSIS

APPEARANCE : Fibrous Friable Homogeneous
Color is buff

FIBROUS MATERIALS
Organic Fibers < 1.0%

Fibrous Concentration is < 1.0%

NON-FIBROUS MATERIALS
Carbonate Silicates Various other materials

Non-Fibrous Concentration is 95.0 % - 100.0 %

****
* ASBESTOS CONCENTRATION IS 0% *
****

Reference : 046 RECEIVED: 02/12/88 ANALYZED: 02/15/88

Michael A. Cecil C.I.H.
LAB DIRECTOR

Analyzed By : CB (b) (6) [redacted]

Reviewed By : (b) (6) [redacted]

O M C LABORATORY IS ACCREDITED BY THE A.I.H.A.

O M C ANALYTICAL LABORATORY

LAB | CLIENT

O M C, Inc.
490 L'Enfant Plaza
Suite 4300
Washington, DC 20024
(202) 488-7990

*

02/17/88 PAGE 001

POLARIZED LIGHT MICROSCOPY ANALYSIS

Sample taken on 02/12 at *

Sample Number : 001-ARCHVS-06-02/12-B001

Location: 1'5" X 1'5" TILE IN ROOM 410

ANALYSIS

APPEARANCE : Fibrous Friable Homogeneous
Color is buff

FIBROUS MATERIALS

Organic Fibers	70.0 % -	75.0 %
Fibrous Concentration is	70.0 % -	75.0 %

NON-FIBROUS MATERIALS

Adhesive Carbonate Silicates Various other materials

Non-Fibrous Concentration is	25.0 % -	30.0 %

****
* ASBESTOS CONCENTRATION IS 0% *
****

Reference : 046 RECEIVED: 02/12/88 ANALYZED: 02/15/88

Michael A. Cecil C.I.H.
LAB DIRECTOR

Analyzed By : CB Chris Bey 2-18-88

Reviewed By : Valerie Gray 2/18/88

O M C LABORATORY IS ACCREDITED BY THE A.I.H.A.

Results

Sample Number	Location	Result
ARCHOS0822-B1	Pipe insulation, garage Constitution Street side	30-35% CH
ARCHOS0822-B2	Pipe insulation, garage Constitution Street side	NAD
ARCHOS0822-B3	Elbow mud, garage Constitution Street side	40-45% CH

CH = Chrysotile

NAD = No Asbestos Detected

10" diameter, east/west running horizontal pipe - approx. 75' long

Sample B1 - taken at West end of pipe.

Sample B2 - taken at Middle section of pipe.

ENCLOSURE 2

OCCUPATIONAL ■ ENVIRONMENTAL • ANALYTICAL
A SUBSIDIARY OF PRINCETON TESTING LABORATORY, INC.

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February 19, 1991

PCB in Oil Analysis
National Archives
OMC Project #: 038-ARCHVS-13

Performed For:

National Archives and Rec. Administration
7th and Pennsylvania Avenue, NW
Washington, DC 20408

Work Order #: N83911776

Attention: Vernon Mills

On January 28, 1991, OMC collected 24 bulk oil samples from 12 electrical transformers located at the National Archives, 7th and Pennsylvania Avenue, NW, Washinqton, DC. The oil samples were drawn from the drain valves of the main tank and switch box tank of each transformer by representatives of Substation Test Company. The samples were collected in clean 40 milliliter glass vials with teflon lids and submitted to Princeton Testing Laboratory for polychlorinated biphenyl (PCB) analysis by gas chromatography.

The PCB concentration for sixteen out of the twenty-four oil samples collected was below the analytical detection limit of 5 parts per million (ppm). The remaining eight oil samples contained PCB concentrations ranging from 7.94 ppm to 239.7 ppm. Two types of PCB were identified: Aroclor 1016 and Aroclor 1260. Sample locations and analytical results are summarized in Table One,

The Environmental Protection Agency (EPA) has defined PCB transformers based on the concentration of PCBs it contains, A transformer containing less than 50 ppm is considered non-PCB. A transformer containing 50 to 499 ppm is considered a PCB-contaminated transformer. A transformer that contains 500 ppm or greater is classified as a PCB transformer.

Based on the sample analysis, the twelve transformers located in the Northeast, Southeast and Northwest Vaults and one (1960619) of the three transformers located in the Southwest Vault are classified as non-PCB. The remaining two transformers located in the Southwest Vault are classified as PCB-contaminated.

Should you have any questions concerning this matter, please do not hesitate to contact this office.

Sincerely

(b) (6) [redacted]

James Zelinsky
Industrial Hygienist

(b) (6) [redacted]

David M. Kichula, CIH
Manager, Industrial Hygiene Services

Table One
PCB In Oil Analysis
National Archives
January 28, 1991

Sample Number	Sample Location	Sample Concentration (ppm)
B1	Northeast Vault, Transformer NAV4731-06 Main Tank	<5
B2	Northeast Vault, Transformer NAV4731-06 Switch Box	c5
B3	Northeast Vault, Transformer NAV7431-02 Main Tank	<5
B4	Northeast Vault, Transformer NAV4731-02 Switch Box	<5
B5	Northeast Vault, Transformer NAV4731-07 Main Tank	<5
B6	Northeast Vault, Transformer NAV4731-07 Switch Box	<5
B7	Southeast Vault, Transformer NAV4731-03 Switch Box	<5
B8	Southeast Vault, Transformer NAV4731-03 Main Tank	<5
B9	Southeast Vault, Transformer NAV4731-05 Main Tank	<5
B10	Southeast Vault, Transformer NAV4731-05 Switch Box	<5
B11	Southeast Vault, Transformer NAV4731-01 Main Tank	<5
B12	Southeast Vault, Transformer NAV4731-01 Switch Box	9.19 (Aroclor 1016)
B13	Southwest Vault, Transformer 1960617 Switch Box	84.0 (Aroclor 1260) Cont.
B14	Southwest Vault, Transformer 1960618 Switch Box	131.0 (Aroclor 1260) Cont.

Table One - continued

Sample Number	Sample Location	Sample Concentration (ppm)
B15	Southwest Vault, Transformer 1960619 Switch Box	43.5 (Aroclor 1260)
B16	Southwest Vault, Transformer 1960619 Main Tank	35.5 (17.4 Aroclor 1260) (18.1 Aroclor 1016)
B17	Southwest Vault, Transformer 1960617 Main Tank	104.6 (32.4 Aroclor 1260 (72.2 Aroclor 1016)
B18	Southwest Vault, Transformer 1960618 Main Tank	239.7 (81.7 Aroclor 1260) (158.0 Aroclor 1016)
B19	Northwest Vault, Transformer NAV4731-04 Switch Box	7.94 (Aroclor 1016)
B20	Northwest Vault, Transformer NAV4731-04 Main Tank	<5
B21	Northwest Vault, Transformer NAV4731-09 Main Tank	<5
B22	Northwest Vault, Transformer NAV4731-09 Switch Box	<5
B23	Northwest Vault, Transformer NAV4731-08 Main Tank	<5
B24	Northwest Vault, Transformer NAV4731-08 Switch Box	<5
B25	Laboratory Blank	<5

Contz