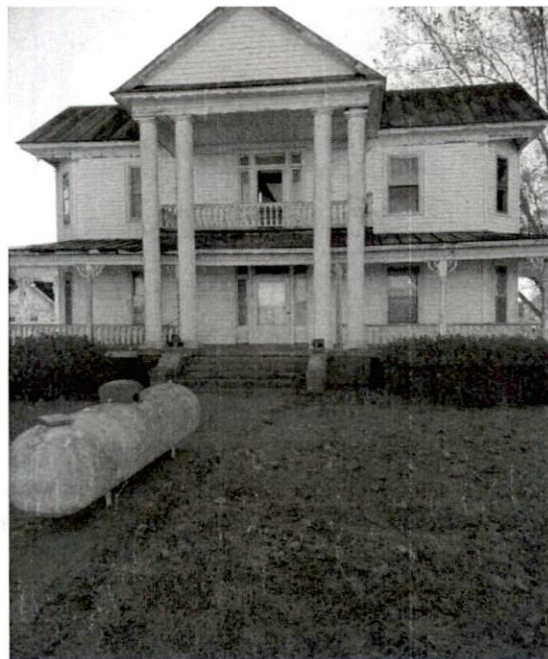


ENVIRONMENTAL CONCERNS *of Fayetteville, Inc.*

ASBESTOS INSPECTION

Building to be Demolished

**3359 Bud Hawkins Rd.
Dunn, NC**



Inspector:

Rodney D. Sanders, #10237
211 S. Broad St. / P.O. Box 8097
Fayetteville, NC 28301 / 28311

Asbestos Containing Materials Were Identified by This Inspection

The attached Findings and Recommendations report totals three (3) pages.
There are seven (7) pages of supporting documents attached to the report.

ENVIRONMENTAL CONCERNS

of Fayetteville, Inc.

Findings and Recommendations

PROJECT NAME:	Building to Be Demolished	DATE INSPECTED:	December 3, 2019
PROJECT #:	PO532320	INSPECTED BY:	Rodney D. Sanders
LOCATION:	3359 Bud Hawkins Rd. Dunn, NC	ACCREDITATION NO:	10237

Scope of Inspection:

The purpose of this inspection was to identify any possible asbestos containing building materials that may be disturbed by the planned demolition of the building which is located at 3359 Bud Hawkins Road, Dunn, NC

The structure is an old site built wood frame 2 story residential building. It appears to have undergone remodeling of the kitchen and bathroom at some point in the past. The floors are hardwoods with a couple of layers of vinyl floorcoverings in the kitchen and bathroom. The original walls and ceilings appear to have been plaster on plasterboard with the kitchen and bathroom now having been covered with sheetrock. There is also a small amount of sheetrock at the top of the stairs on the left side

The building has a pitched roof which is covered with black metal panels. There is vinyl siding installed over wood siding on the exterior walls.

The building had a forced air duct system but the outside unit has been removed. All water piping under the building is PEX and is not insulated.

Materials Suspect for Asbestos:

Suspect materials are defined as materials that are either known to have contained asbestos during past manufacturing or materials for which the possibility of asbestos content is unknown.

For every type of asbestos containing material produced there are similar materials that while they may appear to be the same they do not contain asbestos. Therefore all identified suspect materials must be considered to be asbestos containing until the actual asbestos content is determined or disproved by an approved laboratory. Laboratory analysis must be performed by a qualified microscopist.

Typically any building material used to construct a building can be considered to be suspect for asbestos unless they are known to never have been made with asbestos such as wood fiber products, fiberglass insulations, glass, load bearing concrete, etc. All other suspect building materials are required to be sampled to disprove the possibility of asbestos content.

Asbestos Sampling Requirements:

All asbestos inspections performed in North Carolina must be performed by persons accredited by the State on North Carolina. The area in question is visually inspected to identify materials that are suspect for asbestos. Materials that are considered to be suspect for asbestos are then separated into homogenous areas for sampling. A homogeneous area is an area in which a suspect material has uniform color, texture, age or other characteristics that indicate the continuity of the material.

Samples sufficient to identify or disprove the presence of asbestos are collected from each homogeneous area. Materials that are not considered to be suspect, such as metal, wood, fiberglass, concrete, carpet, etc. are not sampled. Destructive sampling was not performed so any unexpected materials located inside of walls and chases would not be included in this survey.

By regulation if any of the samples collected from a homogeneous area are found to be positive for asbestos, that entire homogeneous material must be considered to be positive for asbestos, unless a determination can be made that the positive sample(s) are not representative of the entire homogenous area. Additional sampling or different analytical techniques could be required to clarifying unusual or unexplained results.

Asbestos Samples Collected:

There were **eleven (11)** samples collected during this inspection. Samples are required to be layered during analysis so the laboratory results sometimes will appear to contain additional samples. This is normal and these additional samples are only the different layers that were observed by the laboratory and may be identified in their report by adding letters or descriptions to the sample number assigned by the inspector to indicate analysis of the separate layers. A stop read order was given to laboratory for materials contained in the same homogeneous area. This mean that once a positive result is received and the area determined to asbestos containing the remaining sample are not to be analyzed.

All samples collected were sent to an independent laboratory for analysis by PLM (polarized light microscopy). Laboratory analysis of samples was performed by a qualified microscopist. The **Asbestos Chain of Custody** and the laboratory's **Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy** sheets as well as **Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure** are included and should be reviewed to determine where samples were collected and the specific details concerning the sample analysis and reported results.

The limit of detection of asbestos by PLM is about one percent by area; samples containing lower levels of asbestos are not reliably detected by this analytical technique. Current EPA regulations consider materials that contain less than 1% asbestos not to be an asbestos containing material. Such materials would be identified in the **Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy** sheets for information purposes, but would not have to be considered as asbestos containing materials under EPA rules. The laboratory sheets included in the report give a breakdown of each sample's composition. All samples were analyzed by EMSL Analytical, Inc. in Kernersville, NC. The samples were sent to the laboratory via Federal Express.

Findings:

The **eleven (11)** samples collected yielded **twenty-four (24)** analytical results.

Based upon a review of the laboratory analysis of the samples collected, there were several asbestos containing building materials found during this inspection. The following table lists the asbestos materials found.

Quantities provided are estimates only and must be confirmed by persons planning abatement or demolition activities.

Sample #	Location	Description	Quantity	Friable	Type Asbestos
3359-01	Kitchen	Drywall Walls and Ceilings	1,080 SF	Y	<1% Chrysotile.
3359-04 & 05	Kitchen	Sheet Vinyl – Bottom Layer	375 SF	N	10-15% Chrysotile
3359-08	Bathroom	Sheet Vinyl – Bottom Layer	60 SF	N	15% Chrysotile
3359-09	Windows	Glazing Compound on Glass	25 EA	N	2% Chrysotile

Response Recommendations:

Abatement will be required for this structure prior to demolition. Asbestos abatement work should only be performed by trained and accredited asbestos workers as required by state and federal regulations.

Sheetrock materials with <1% Chrysotile are not required to be removed provided the demolition contractor follows OSHA requirements. (EPA doesn't consider materials with less than 1% to be considered as asbestos, but OSHA does)

Information regarding compliance with the North Carolina regulations for asbestos inspections and the removal and disposal of asbestos containing materials during demolitions in North Carolina can be found online at <http://epi.publichealth.nc.gov/asbestos/demolition.html>. Assistance can also be requested by calling the NC Department of Health and Human Services, Division of Public Health; Health Hazards Control Unit (HHCU) at (919) 707-5950.

Disclaimer:

Environmental Concerns of Fayetteville, Inc. assumes no liability for ACBM that is not included in this inspection due to their being concealed, inaccessible, beyond the scope of the requested inspection, or not normally considered to be a suspect material.

Environmental Concerns of Fayetteville, Inc. assumes no liability for the condition of the materials before, during or after the inspection.

Compliance with current regulations, by persons using this report to plan demolition activities, is the sole responsibility of those persons and not the responsibility of Environmental Concerns of Fayetteville, Inc.

Attachments:

The analytical and credential sheets attached to this report are considered to be an integral part of this report and should not be detached. Persons distributing this report to others should be sure that these attachments are also provided.

Attached to this report should be **two (2)** pages for the asbestos chain of custody form which lists the samples collected and **two (2)** pages for the asbestos laboratory analytical reports. Following these pages there are credentials for the inspector as well as the analytical laboratory that performed the analysis.

If there are any questions concerning this inspection report or a need for additional assistance please feel free to contact me at (910) 488-1925.

Respectfully Submitted,



Rodney D. Sanders
NC Asbestos Inspector Accreditation # 10237



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only).

8188

EMSL ANALYTICAL, INC.
706 Gralin Street
Kernersville, NC 27284
PHONE: (336) 992-1025
FAX: (336) 992-4175

Company: Environmental Concerns of Fayetteville, Inc.		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: P.O. Box 8097		<i>Third Party Billing requires written authorization from third party</i>	
City: Fayetteville	State/Province: NC	Zip/Postal Code: 28311	Country: USA
Report To (Name): Rodney Sanders		Telephone #: (910) 488-1925	
Email Address: rdsanders1@econcerns.net		Fax #: (910) 488-5345	Purchase Order: PO532320
Project Name/Number: 3359 Bud Hawkins Rd., Dunn		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: North Carolina		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

<p style="text-align: center;">PLM - Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)</p> <p><input type="checkbox"/> PLM EPA NOB (<1%)</p> <p>Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p>Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)</p> <p><input type="checkbox"/> NIOSH 9002 (<1%)</p> <p><input type="checkbox"/> NY ELAP Method 198.1 (frnable in NY)</p> <p><input type="checkbox"/> NY ELAP Method 198.6 NOB (non-frnable-NY)</p> <p><input type="checkbox"/> OSHA ID-191 Modified</p> <p><input type="checkbox"/> Standard Addition Method</p>	<p style="text-align: center;">TEM - Bulk</p> <p><input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1</p> <p><input type="checkbox"/> NY ELAP Method 198.4 (TEM)</p> <p><input type="checkbox"/> Chatfield Protocol (semi-quantitative)</p> <p><input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2</p> <p><input type="checkbox"/> TEM Qualitative via Filtration Prep Technique</p> <p><input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique</p> <p style="text-align: center;">Other</p> <p><input type="checkbox"/></p>
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Check For Positive Stop - Clearly Identify Homogenous Group **Date Sampled:** December 3, 2019

Samplers Name: Rodney D. Sanders, Accreditation No. 10237 **Samplers Signature:** *Rodney D. Sanders*

Sample #	HA #	Sample Location	Material Description
3359 -01	1	Kitchen - Wall Beside Closet	Drywall - Composite
3359 -02	1	Kitchen - Wall Under Cabinets	Drywall - Composite
3359 -03	1	Bathroom - Wall by Shower	Drywall - Composite
3359 -04	2	Kitchen - Floor East End (Two Layers)	Sheet Flooring
3359 -05	2	Kitchen - Floor West End (Two Layers)	Sheet Flooring
3359 -06	3	Front Hall - Wall	Plaster on Gyp. Board
3359 -07	3	Dining Room - Wall	Plaster on Gyp. Board
3359 -08	4	Bathroom - Floor (Two Layers)	Sheet Flooring
3359 -09	5	Exterior - Window on West End	Glazing Compound
3359 -10	5	Exterior - Window on East End	Glazing Compound

Client Sample # (s): 3359-01 - 3359-11 **Total # of Samples:** 1

Relinquished (Client): *Rodney D. Sanders* **Date:** December 3, 2019 **Time:** 5:00 PM

Received (Lab): *SEA* **Date:** 12/4/19 **Time:** 0900

Comments/Special Instructions: (4) FX-81486975 3359



EMSL Analytical, Inc.

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

EMSL Order: 021908188
Customer ID: ECOF50
Customer PO: PO532320
Project ID:

Attention: Rodney D. Sanders
Environ. Concerns of Fayetteville Inc
PO Box 8097
211 S. Broad Street
Fayetteville, NC 28301
Project: 3359 Bud Hawkins Rd., Dunn, NC

Phone: (910) 488-1925
Fax: (910) 488-5345
Received Date: 12/04/2019 9:00 AM
Analysis Date: 12/04/2019 - 12/05/2019
Collected Date:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
3359-01 <small>021908188-0001</small> Wall System Composite.	Drywall- COMPOSITE	Brown/White/Beige Fibrous Heterogeneous	10% Cellulose	1% Ca Carbonate 89% Non-fibrous (Other)	<1% Chrysotile
3359-02 <small>021908188-0002</small> Wall System Composite.	Drywall- COMPOSITE	Brown/White/Beige Fibrous Heterogeneous	10% Cellulose 1% Glass	1% Ca Carbonate 88% Non-fibrous (Other)	<1% Chrysotile
3359-03 <small>021908188-0003</small> Wall System Composite.	Drywall- COMPOSITE	Gray/White Non-Fibrous Homogeneous	2% Cellulose	10% Ca Carbonate 88% Non-fibrous (Other)	None Detected
3359-04-Flooring <small>021908188-0004</small>	Sheet Flooring	Brown/Tan/White Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
3359-04-Mastic <small>021908188-0004A</small>	Sheet Flooring	Clear Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
3359-04-Flooring <small>021908188-0004B</small>	Sheet Flooring	Tan/Beige Fibrous Heterogeneous	12% Cellulose	78% Non-fibrous (Other)	10% Chrysotile
3359-04-Mastic <small>021908188-0004C</small>	Sheet Flooring	Tan/Yellow Non-Fibrous Homogeneous	1% Cellulose <1% Synthetic	99% Non-fibrous (Other)	None Detected
3359-05-Flooring <small>021908188-0005</small>	Sheet Flooring	Brown/Gray Fibrous Heterogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
3359-05-Mastic <small>021908188-0005A</small>	Sheet Flooring	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
3359-05-Flooring 2 <small>021908188-0005B</small>	Sheet Flooring	Brown/Gray/Tan Fibrous Heterogeneous	10% Cellulose	75% Non-fibrous (Other)	15% Chrysotile
3359-05-Mastic 2 <small>021908188-0005C</small>	Sheet Flooring	Yellow/Orange Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
3359-06-Gypsum Board <small>021908188-0006</small>	Plaster on Gyp. Board	Brown/Gray Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
3359-06-Rough Coat <small>021908188-0006A</small>	Plaster on Gyp. Board	Tan Non-Fibrous Heterogeneous		35% Quartz 5% Ca Carbonate 60% Non-fibrous (Other)	None Detected
3359-06-Skim Coat <small>021908188-0006B</small>	Plaster on Gyp. Board	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
3359-07-Gypsum Board <small>021908188-0007</small>	Plaster on Gyp. Board	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected

Initial report from: 12/05/2019 10:20:37



EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Tel/Fax: (336) 992-1025 / (336) 992-4175

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

EMSL Order: 021908188

Customer ID: ECOF50

Customer PO: PO532320

Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
3359-07-Rough Coat <i>021908188-0007A</i>	Plaster on Gyp. Board	Gray/Tan Non-Fibrous Heterogeneous	1% Cellulose	30% Quartz 69% Non-fibrous (Other)	None Detected
3359-07-Skim Coat <i>021908188-0007B</i>	Plaster on Gyp. Board	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
3359-08-Flooring <i>021908188-0008</i>	Sheet Flooring	Brown/Gray Non-Fibrous Homogeneous	20% Cellulose 1% Glass	79% Non-fibrous (Other)	None Detected
3359-08-Mastic <i>021908188-0008A</i>	Sheet Flooring	Brown/Tan Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
3359-08-Flooring 2 <i>021908188-0008B</i>	Sheet Flooring	Tan/White/Beige Fibrous Heterogeneous		85% Non-fibrous (Other)	15% Chrysotile
3359-08-Mastic 2 <i>021908188-0008C</i>	Sheet Flooring	Brown Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
3359-09 <i>021908188-0009</i>	Glazing Compound	Gray/White/Beige Non-Fibrous Homogeneous		8% Ca Carbonate 90% Non-fibrous (Other)	2% Chrysotile
3359-10 <i>021908188-0010</i>	Glazing Compound	Gray/White Non-Fibrous Homogeneous	<1% Cellulose <1% Fibrous (Other)	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
3359-11 <i>021908188-0011</i>	Glazing Compound	Gray/White/Beige Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected

Analyst(s)

Ryan Rains (15)

Scott Combs (9)

Stephen Bennett, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, CA ELAP 2689, Virginia 3333-000228, West Virginia LT000321

Initial report from: 12/05/2019 10:20:37



NC DEPARTMENT OF
**HEALTH AND
HUMAN SERVICES**

ROY COOPER • Governor

MANDY COHEN, MD, MPH • Secretary

DANNY STALEY • Director, Division of Public Health


December 21, 2018

Rodney D Sanders
5579 Lockridge Road
Fayetteville, NC 28311

Dear Mr. Sanders:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 10237, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on DECEMBER 31, 2019. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to December 31, 2019. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.



Rodney D Sanders
5579 Lockridge Road
Fayetteville, NC 28311
122609

**North Carolina
Asbestos Accreditation**

EXPIRATION			
12-31-2019			
DOB	SEX	HT	WT
03-19-1953	M	6'0"	250
CLASS		#	EXP
DESIGNER		40098	12-19
INSPECTOR		10237	12-19
MGMT PLANNER		20111	12-19
SUPERVISOR		30100	04-19

Sincerely,



Ed Norman
Program Manager
Health Hazards Control Unit

Enclosure

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH

LOCATION: 5505 Six Forks Road, Building 1, Raleigh, NC 27609
MAILING ADDRESS: 1912 Mail Service Center, Raleigh, NC 27699-1912
www.ncdhhs.gov . TEL: 919-707-5950 . FAX: 919-870-4808

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 102104-0

EMSL Analytical, Inc.
Kernersville, NC

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

Asbestos Fiber Analysis

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

2019-07-01 through 2020-06-30

Effective Dates



[Signature]
For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
706 Gralin Street
Kernersville, NC 27284
Mr. Stephen Bennett
Phone: 336-992-1025 Fax: 336-992-4175
Email: sbennett@emsl.com
<http://www.emsl.com/>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 102104-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program