

August 24, 2022

McDonald's Corporation 110 North Carpenter Street REF Accounting Department #212 Chicago, Illinois 60607-2101

Attn: Ms. Amy Switzer

Email: amy.switzer@us.mcd.com

**RE:** Asbestos Survey Report

Proposed McDonald's 1000 S. Main Street Salem, Missouri 65560

**PSI Project Number 0029-5500** 

Dear Ms. Switzer:

In accordance with our agreement dated July 28, 2022, Professional Service Industries, Inc., (PSI), an Intertek company, has conducted an asbestos survey for the above-referenced project.

Please find one (1) electronic copy of the report enclosed.

We appreciate the opportunity to provide our services to you on this project and would be pleased to continue our role as your environmental consultant. PSI is prepared to assist in preparing management plans, abatement plans and specifications, in reviewing contractor qualifications, and in performing third party air monitoring during abatement activities. If we can be of further assistance to you, please feel free to contact us.

Respectfully submitted,

Jada VinBokel

PROFESSIONAL SERVICE INDUSTRIES, INC.

Jada VonBokel

**IH/Environmental Services** 

**Enclosures** 

Greg Chambliss, RPIH, LEED AP Department Manager



### ASBESTOS SURVEY REPORT

For the

PROPOSED MCDONALD'S 1000 S. MAIN STREET SALEM, MISSOURI 65560

Prepared for

MCDONALD'S CORPORATION 110 NORTH CARPENTER STREET REF ACCOUNTING DEPARTMENT #212 CHICAGO, ILLINOIS 60607-2101

Prepared by

Professional Service Industries, Inc. 11826 Borman Drive St. Louis, Missouri 63146 Telephone (314) 432-8073

**PSI PROJECT NUMBER 0029-5500** 

August 24, 2022



Mother Base

Matthew Basch
MDNR Asbestos Inspector
Cert. No.: 7136081522MOIR12911

The Chambles

Greg Chambliss, RPIH, LEED AP Department Manager Principal Consultant

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### 1.0 INTRODUCTION

### 1.1 GENERAL INFORMATION

PSI was retained by McDonald's Corporation, to conduct a survey for suspect asbestos-containing materials (ACMs) at a former motel located at 1000 S. Main Street in Salem, Missouri.

This project, the field work for which was conducted on August 3, 2022, encompassed a former motel with an attached restaurant. The restaurant was not assessed as part of this project. The motel consisted of a main level and a lower level. The survey was conducted in preparation of demolition activities.

### 1.2 AUTHORIZATION

Authorization to perform the assessment was given on July 28, 2022.

Access to the property was provided by the property manager.

### 1.3 DOCUMENTS PROVIDED BY THE CLIENT

No documents were provided by the client during the course of this survey.

### 1.4 USE BY THIRD PARTIES

This report was prepared pursuant to the contract PSI has with McDonald's Corporation. That contractual relationship included an exchange of information about the property that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance, or any use of this report by anyone other than McDonald's Corporation, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to PSI's contract with McDonald's Corporation. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties, or representations, expressed or implied in this report, are made to any such third party.

Third party reliance letters may be issued:

- upon timely request;
- subject to the permission by our original client; and
- payment of the then-current fee for such letters.

All third parties relying on our report, by such reliance, agree that such reliance is limited by our proposal and/or General Conditions, as applicable.



### 2.0 SCOPE OF SERVICES

The survey of the facility was conducted in general accordance with the Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) and the National Emission Standards for Hazardous Air Pollutants (NESHAP) sampling guidelines to determine the presence and general locations of exposed and/or physically accessible suspect ACM, quantify the amount of ACM identified during the survey, and provide photographic documentation of each identified ACM.

Each suspect material was touched, where possible, to determine the friability of the material. Samples were obtained only from suspect asbestos-containing materials which were readily exposed and/or physically accessible during the survey and if the collection of the sample would not compromise the structural integrity of the material being sampled.

Samples were sent to PSI's National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory located in Pittsburgh, Pennsylvania, for analysis. Each sample underwent polarized light microscopy (PLM) analysis for detection of asbestos fibers in the building materials on a "positive stop" basis, which is defined as follows: if the first sample in the sample group has an analysis indicating that the material contains asbestos at a concentration greater than 1%, then the other samples in the group are not analyzed.



### 3.0 METHODOLOGY

### 3.1 GENERAL REFERENCES

Survey, sampling, and analysis procedures were performed in general accordance with the guidelines published by the EPA in 40 CFR Part 763 Subpart E, October 30, 1987, and NESHAP regulation (40 CFR Part 61, April 6, 1973, revised 1990).

### 3.2 VISUAL SURVEY

The visual survey was performed by an EPA accredited and State of Missouri licensed inspector, a copy of whose credentials is included in Appendix D. An initial building walkthrough was conducted to determine the presence and condition of suspect materials which were physically accessible and/or exposed. Materials which were similar in general appearance were grouped into homogeneous areas. In addition, the friability of the suspect material was determined. A material is defined as friable (F) if the material can be reduced to a powder by hand pressure when dry. Non-Friable (NF) materials that are damaged can also be considered friable.

Although PSI made an attempt to identify all areas of ACM, an exhaustive investigation of void spaces was not included in the scope of services for this project. There may exist conditions which were unable to be identified within the scope of this study.

### 3.2.1 Homogeneous Area Classifications

A preliminary walkthrough of the interior of the building was conducted to determine areas of materials which were visually similar in color, texture, general appearance, and which appeared to have been installed at the same time. Such materials are termed "homogeneous areas" (HA) by the EPA AHERA regulation. During this walkthrough, the approximate locations of these homogeneous areas were also noted. Only materials which were physically accessible and/or exposed and suspected to contain asbestos were identified and placed in homogeneous areas.

Following the EPA AHERA inspection protocol, each identified homogeneous area was placed in one of the following AHERA classifications for the purposes of determining the number of samples to collect:

- Surfacing Materials: spray or trowel applied to building members;
- Thermal System Insulation (TSI): materials generally applied to various mechanical systems; or
- Miscellaneous Materials: any materials which do not fit either of the above categories.

Following the EPA NESHAP inspection protocol, each identified suspect homogeneous material that was confirmed as an ACM was also placed in one of the following NESHAP classifications:

• **Friable Materials**: NESHAP defines a friable ACM as any material containing more than one percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.



- Category I Non-Friable (Cat. I NF): NESHAP defines a Category I non-friable ACM as packing, gaskets, resilient floor covering (except vinyl sheet flooring products which are considered friable), and asphalt roofing products which contain more than one percent asbestos.
- Category II Non-Friable (Cat. II NF): NESHAP defines a Category II non-friable ACM as any material, except for a Category I non-friable ACM, which contains more than one percent asbestos and cannot be reduced to a powder by hand pressure when dry.

In the NESHAP regulation, a regulated asbestos-containing material (RACM) is defined as any (a) friable asbestos material; (b) Category I Non-Friable ACM that has become friable; (c) Cat. I NF 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.

### 3.3 SAMPLING PROCEDURES

Following the walkthrough, the inspector collected selected samples of exposed and/or physically accessible materials identified as suspect ACM. Sampling was limited to those materials physically accessible to the inspector during the time of the survey, except if the structural integrity of the item being tested would be compromised.

EPA guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous area.

Where possible, samples of surfacing material, if present, were collected in general accordance with the EPA random sampling protocol outlined in the EPA publication, "Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials" (EPA 560/5-85-030a, October, 1985). The homogeneous area was divided into a grid of nine (9) sub-areas. If nine samples were taken, one sample was taken from each sub-area. If less than nine samples were taken, the EPA random numbering diagram was used to determine which sub-areas would be sampled. While an effort was made to extract the samples from approximately the middle of the sub-area, samples were taken preferentially from already damaged areas or areas which were the least visible.

Samples of TSI and miscellaneous materials were taken as randomly as possible while again attempting to sample already damaged areas so as to minimize disturbance of the material.

Sampling was performed during normal business hours. After each sample was extracted and as appropriate, a spray encapsulant, silicone-like caulk, and/or tape covering was applied to the sampled area to prevent potential fiber release.



### 3.4 LABORATORY PROCEDURES

### 3.4.1 Method of Analysis

Bulk samples were analyzed by PLM with dispersion staining as described by EPA Method 600/R-93-116 (Asbestos in Bulk Building Materials). This is a standard method of analysis in optical mineralogy and the currently accepted method for the determination of asbestos in bulk samples. The microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample, using a stereoscope. Then a bulk sample is mounted on a slide, immersed in a solution of known refractive index and subjected to illumination by polarized light. The samples were analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), fibrous non-asbestos constituents (mineral wool, paper, etc.) and nonfibrous constituents. Asbestos was identified by refractive indices, morphology, color, pleochroism, birefringence, extinction characteristics, and signs of elongation. The same characteristics were used to identify the non-asbestos constituents.

It should be noted that some ACM may not be accurately identified or quantified by PLM. As an example, the original fabrication of vinyl floor tiles routinely involved milling of asbestos fibers to extremely small sizes. As a result, these fibers may go undetected under the standard PLM method. Transmission Electron Microscopy (TEM) can provide a more definitive analysis of these materials. TEM analysis was not in the scope of this investigation.

### 3.4.2 Laboratory Quality Control Program

The PSI Laboratory in Pittsburgh, Pennsylvania, maintains an in-house quality control program. This program involves blind reanalysis of ten (10) percent of all samples, precision, and accuracy controls, and use of standard bulk reference materials. In addition, the PSI Laboratory is accredited by NVLAP, which also has quality control procedures inherent in its program.

### 3.5 QUANTIFICATION

Quantities of physically accessible and/or exposed confirmed asbestos-containing materials were estimated. This estimation was performed by taking approximate measurements in the field or estimating quantities based on as-built mechanical or structural drawings. Materials such as pipe insulation and associated mudded joint packing (MJP) were categorized according to the outside diameter of the insulation. Pipe lagging was quantified by linear footage while the actual number of MJPs was counted. Insulation on mechanical equipment such as boilers and ductwork was quantified by the square footage of the surface area of suspect insulation. Similarly, fireproofings, plasters, ceiling, and floor tiles, and transite panels were measured in square feet of surface area. The quantities of ACM that were identified during this investigation are reported in Section 4 of this report.

Quantities are estimates, are intended as order or magnitude information or for general policy discussions and should be confirmed by an abatement contractor since renovation or demolition is being contemplated.



### 3.6 PHOTOGRAPHY

Photographs of homogenous areas were taken during the course of this investigation. While these photographs were not intended to provide a complete record of the investigation, they do provide a visual description of the homogenous area. Photographs of homogenous areas are intended to depict a representative portion of that homogenous area. Confirmed asbestos-containing homogenous areas were identified; therefore, photographs are appended to this report.



### 4.0 ASBESTOS SURVEY FINDINGS

### 4.1 GENERAL SUMMARY

Materials confirmed to contain asbestos were identified in the surveyed area of the subject property. A material is considered by the EPA and State of Missouri to be asbestos-containing if at least one sample collected from the homogenous area contains asbestos in an amount greater than 1%. Bulk Sample Logs are included as Appendix A. Please refer to Appendix B for copies of the laboratory analytical reports and chain-of-custody documentation.

### 4.2 DETAILED FINDINGS AND OBSERVATIONS

### 4.2.1 Summary of Sampled Suspect Building Materials

The following suspect asbestos-containing materials were sampled during the course of this survey and submitted for laboratory analysis. This table is a summary of the analytical results of this survey. Materials in **bold** and *italicized* in the table are confirmed to be ACM.

НА	Sample Numbers	Description	Location	Asbestos, % and type	F/NF	NESHAP Category	Estimated Quantity
А	01 02 03	Plaster	Walls in Ofc. Storage Rm., Rms. 100, 131, 132, 133, *also observed behind drywall in other areas throughout	NAD	NF	N/A	N/A
В	01 02 03	1' by 1' Ceiling Tile, w/dots	Ofc. Storage Rm., Rms. 132, 133	NAD	F	N/A	N/A
С	01 02 03	Floor Sheeting, beige hex. pattern w/flowers	Ofc. Storage Room	NAD	F	N/A	N/A
D	01 02 03	Floor Sheeting, brown	Ofc. Storage Room	10% CH	F	Friable	210 SF
E	01 02 03	Floor Sheeting, white	Office Area, Rooms 133, 136	NAD	F	N/A	N/A
F	01 02 03	Floor Sheeting, tan	Room 100, Lower Level (LL) Common Room	NAD	F	N/A	N/A
G	01 02 03	2' by 2' Ceiling Tile, textured	Room 100	NAD	F	N/A	N/A
Н	01 02 03	1' by 1' Ceiling Tile, peck-pin	Room 100 (above 2' by 2' Ceiling Tile)	NAD	F	N/A	N/A
l	01 02 03	1' by 1' Ceiling Tile, smooth	Rooms 100, 132, 133, 134	NAD	F	N/A	N/A



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НА	Sample Numbers	Description	Location	Asbestos, % and type	F/NF	NESHAP Category	Estimated Quantity
J	01 02 03	Drywall and Joint Compound	Rms. 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 114, 115, 116, 117, 118, 130, 131, 132, 133, 134, Emp. Room, LL Common Room	NAD	NF F	N/A	N/A
К	01 02 03	Floor Sheeting, gray	Rooms 103, 110	NAD	F	N/A	N/A
L	01 02 03	Floor Sheeting, white	Room 109	NAD	F	N/A	N/A
М	01 02 03	Floor Sheeting, off- white	LL Common Room	NAD	F	N/A	N/A
N	01 02 03	2' by 2' Ceiling Tile	LL Common Room, LL Storage Rm. #2, Rooms 130, 139	NAD	F	N/A	N/A
o	01 02 03	(1) 9" by 9" Floor Tile, green (2) Mastic, black (3) Floor Tile, yellow (4) Mastic, black	LL Common Room, Rooms 131, 132, 133, 134 (*below carpet and/or floor sheeting)	(1) 7% CH (2) 5% CH (3) 7% CH (4) 5% CH	NF	Cat. I NF	1,260 SF
Р	01 02 03	Wire Insulation	Various Areas of Attic Space and LL	NAD	F	N/A	N/A
Q	01 02 03	Floor Sheeting, faux stone	Room 131	NAD	F	N/A	N/A
R	01 02 03	Pipe and Pipe Fitting Insulation	Throughout various areas of the LL	30% CH	F	Friable	100 LF *observed (500 LF assumed above drywall ceiling in LL
s	01 02 03	(1) 12" by 12" Floor Tile, beige (2) Mastic, black	Room 134 Restroom	(1) 3% CH, 3% CH, 3% CH (2) NAD	NF	Cat. 1 NF	25 SF
Т	01 02 03	Floor Sheeting	Room 139	NAD	F	N/A	N/A
U	01 02 03	Window Glazing	Windows Throughout	NAD	F	N/A	N/A
V	01 02 03	Roofing Shingles	Roof	NAD	NF	N/A	N/A
w	01 02 03	2' by 4' Ceiling Tile	Rooms 141, 144	NAD	F	N/A	N/A
Х	01 02 03	Floor Sheeting, tan	Room 144	NAD	F	N/A	N/A
NOTEC: NAD-		<u> </u>	o. CII-Charcatilo. ANA-Am	asita, CD-Crasidali	l	l .	

NOTES: NAD=No Asbestos Detected; N/A=Not Applicable; CH=Chrysotile; AM=Amosite; CR=Crocidolite; SF=Square Feet; LF=Linear Feet; EA=Each



In addition, the following observations were made during this survey:

Ceramic tiles are not suspect.

### 4.2.2 Summary of Materials Assumed to Contain Asbestos

PSI did not observe materials where sampling would compromise the integrity of the material; therefore, observed suspect materials were sampled.

### 4.2.3 Unaccessed Areas

PSI was generally able to access all areas of the motel.

### 4.3 Other Considerations

If additional suspect materials not documented in this report are encountered during work activities, the material should be considered asbestos-containing unless bulk sampling is performed, and laboratory analysis proves otherwise.

If materials that were assumed to be ACM are to be impacted during demolition activities, and those materials cannot be removed intact, then those materials should be sampled and analyzed prior to the demolition activity or treated as ACM. Based on the analysis of previously assumed ACM, further action may be required per the EPA NESHAP regulations.

The client should consult the Environmental Protection Agency's NESHAP standard, the State of Missouri's asbestos regulations, and local regulations, if any, for additional details regarding asbestos-related demolition/renovation procedures and requirements.

### 4.4 Recommendations

PSI has no further recommendations regarding asbestos at this time.



### 5.0 WARRANTY

Professional Service Industries, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art, site conditions, or in applicable Federal, State, and local regulations cannot be anticipated and have not been addressed in this report.

The field and laboratory results reported herein are considered sufficient in detail and scope to determine the presence of physically accessible and/or exposed suspect asbestos-containing materials in the facility at the time of the survey. Test results are valid only for the material tested at the time of the sample collection during the survey. PSI also recognizes that raw laboratory test data are not usually sufficient to make all abatement and management decisions.

There is a distinct possibility that conditions may exist which could not be identified within the scope of work or which were not apparent during the site visit. This survey covered only those areas which were exposed and/or physically accessible to the inspector. The study is also limited to the information available from the client at the time it was conducted. The report may not represent all conditions at the subject site as it only reflects the information gathered from specific locations.

As directed by the client, PSI did not provide any service to investigate or detect the presence of moisture, mold or other biological contaminants in or around any structure, or any service that was designed or intended to prevent or lower the risk of the occurrence of the amplification of the same. The sampling methods utilized by PSI in performing its services may result in the disturbance or dispersal of mold spores. The client acknowledges that mold is ubiquitous to the environment with mold amplification occurring when building materials are impacted by moisture. Client further acknowledges that site conditions are outside of PSI's control, and that mold amplification will likely occur, or continue to occur, in the presence of moisture. As such, PSI cannot and shall not be held responsible for the occurrence or reoccurrence of mold amplification.

No other warranties are implied or expressed.

# APPENDIX A BULK SAMPLE LOG

# **BULK SAMPLE LOG**

Client: McDonald's
Inspector: Matthew Basch Work Order Number: <u>00295500-1</u>
Date: <u>August 3, 2022</u>

HA #	SAMPLE #	MATERIAL DESCRIPTION (include type of material, color, size)	MATERIAL LOCATION (all areas where material is present)	SAMPLE LOCATION	F/NF	COND (G,F,P)
Α	01 02 03	Plaster	Walls in Office Storage Rm., Rooms 100, 131, 132, 133 *also observed behind drywall in other areas throughout	Office Storage Room Room 114 Rom 133	NF	F-P
В	01 02 03	1' by 1' Ceiling Tile w/dots	Office Storage Room, Rooms 132, 133	Office Storage Room (x2) Room 132	F	F-P
С	01 02 03	Floor Sheeting, beige hex. pattern w/flowers	Office Storage Room	Office Storage Room (x3)	F	Р
D	01 02 03	Floor Sheeting, brown	Office Storage Room	Office Storage Room (x3)	F	Р
E	01 02 03	Floor Sheeting, white	Office Area, Rooms 133, 136	Office Area (x3)	F	F
F	01 02 03	Floor Sheeting, tan	Room 100, Lower-Level (LL) Common Room	Room 100 (x2) LL Common Room	F	F
G	01 02 03	2' by 2' Ceiling Tile, textured	Room 100	Room 100 (x3)	F	F-P
Н	01 02 03	1' by 1' Ceiling Tile (CT), peck-pin Above 2' by 2' CT	Room 100	Room 100 (x3)	F	F-P
ı	01 02 03	1' by 1' Ceiling Tile, smooth	Rooms 100, 132, 133, 134	Room 100 Room 133 Room 134	F	F-P
J	01 02 03 04 05	Drywall & Joint Compound	Rms. 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 114, 115, 116, 117, 118, 130, 131, 132, 133, 134, Employee Room, LL Common Room	Room 102 Room 104 Employee Room Rom 112 LL Common Room	NF F	F-P
К	01 02 03	Floor Sheeting, gray	Rooms 103, 110	Room 103 (x2) Room 110	F	F-P
L	01 02 03	Floor Sheeting, white	Room 109	Room 109 (x3)	F	F
М	01 02 03	Floor Sheeting, off-white	LL Common Room	LL Common Room (x3)	F	F
N	01 02 03	2' by 2' Ceiling Tile	LL Common Room, LL Storage Room #2, Rooms 130, 139	LL Common Room (x2) Room 139	F	F
0	01 02 03	(1) 9" by 9" Floor Tile, green (2) Mastic, black (3) Floor Tile, yellow (4) Mastic, black	LL Common Room, Rooms 131, 132, 133, 134 *below carpet and/or floor sheeting	LL Common Room Room 132 Room 134	NF	F

# **BULK SAMPLE LOG**

Client: McDonald's
Inspector: Matthew Basch Work Order Number: <u>00295500-1</u> Date: <u>August 3, 2022</u>

HA #	SAMPLE #	MATERIAL DESCRIPTION (include type of material, color, size)	MATERIAL LOCATION (all areas where material is present)	SAMPLE LOCATION	F/NF	COND (G,F,P)
Р	01 02 03	Wire Insulation	Various Ares of the Attic Space and LL	Room 100 LL Storage Room #1 (x2)	F	F
Q	01 02 03	Floor Sheeting, faux stone	Room 131	Room 131 (x3)	F	F
R	01 02 03	Pipe and Pipe Fitting Insulation	Throughout various areas of the LL	LL Storage Room #1 (x2) Room 132	F	F-P
S	01 02 03	(1) 12" by 12" Floor Tile, beige (2) Mastic, black	Room 134 Restroom	Room 134 Restroom (x3)	NF	F
Т	01 02 03	Floor Sheeting	Room 139	Room 139 (x3)	F	F
U	01 02 03	Window Glazing	Windows Throughout	Ext. Room 118 Ext. Room 108 Ext. Room 110	F	F
V	01 02 03	Roofing Shingles	Roof	North Northeast South	NF	G-F
W	01 02 03	2' by 4' Ceiling Tile	Rooms 141, 144	Room 141 Room 144 (x2)	F	F-P
x	01 02 03	Floor Sheeting, tan	Room 144	Room 144 (x3)	F	Р

# APPENDIX B LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION



### REPORT OF BULK SAMPLE ANALYSIS FOR ASBESTOS

TESTED FOR: PSI, Inc Project ID: 0029-5500

11826 Borman Drive McDonald's - Salem, MO St. Louis, MO 63146 1000 S Main St.

Attn: Greg Chambliss Salem, MO 65560; Prefix: MC-

Date Received: 8/8/2022 Date Completed: 8/12/2022 Date Reported: 8/12/2022

Analyst:	Р	Preston Hunt Work O	rder: 2208137	Page: 1 of 5
Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) Analyst's Comment	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
PW-A-01	001A	<ul><li>(1) Green, Plaster, Homogeneous</li><li>(2) Gray, Plaster, Homogeneous</li></ul>	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	None Reported None Reported
PW-A-02	002A	(1) Beige, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
PW-A-03	003A	(1) Gray, Plaster, Homogeneous	NO ASBESTOS DETECTED	None Reported
CT-B-01	004A	(1) White, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	100% Cellulose Fiber
CT-B-02	005A	(1) White, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	100% Cellulose Fiber
CT-B-03	006A	(1) White, Ceiling Tile, Homogeneous	NO ASBESTOS DETECTED	100% Cellulose Fiber
FS-C-01	007A	(1) Beige, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-C-02	A800	(1) Beige, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-C-03	009A	(1) Beige, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-D-01	010A	(1) Brown, Flooring, Homogeneous	10% Chrysotile	None Reported
FS-D-02	011A	Sample Not Tested		
FS-D-03	012A	Sample Not Tested		
FS-E-01	013A	(1) White, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-E-02	014A	(1) White, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-E-03	015A	(1) White, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber

Quantitation is based on a visual estimation of the relative area of bulk sample components, unless otherwise noted in the "Comments" section of this report. The results are valid only for the item tested as received. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Method used: E.P.A. Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). Polarized Light Microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos containing. Samples will be disposed of within 30 days unless notified in writing by the client. No part of this report may reproduced, except in full, without written permission of the laboratory. The reporting limit is 1% by weight. NVLAP Lab Code 101350-0.

Respectfully submitted,

PSI. Inc.

Analyst:	Р	reston Hunt	Work Order:	2208137	Page: 2 of 5	
Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.)  Analyst's Comment		Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)	
FS-F-01	016A	(1) Tan, Flooring, Homogeneou	IS	NO ASBESTOS DETECTED	10% Cellulose Fiber	
FS-F-02	017A	(1) Tan, Flooring, Homogeneou	IS	NO ASBESTOS DETECTED	10% Cellulose Fiber	
FS-F-03	018A	(1) Tan, Flooring, Homogeneou	IS	NO ASBESTOS DETECTED	10% Cellulose Fiber	
CT-G-01	019A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	70% Fibrous Glass	
CT-G-02	020A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	70% Fibrous Glass	
CT-G-03	021A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	70% Fibrous Glass	
CT-H-01	022A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	100% Cellulose Fiber	
CT-H-02	023A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	100% Cellulose Fiber	
CT-H-03	024A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	100% Cellulose Fiber	
CT-I-01	025A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	100% Cellulose Fiber	
CT-I-02	026A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	100% Cellulose Fiber	
CT-I-03	027A	(1) White, Ceiling Tile, Homoge	eneous	NO ASBESTOS DETECTED	100% Cellulose Fiber	
DW-J-01	028A	<ul><li>(1) White, Drywall, Homogeneo</li><li>(2) White, Joint Compound, Homogeneous</li></ul>	ous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	10% Cellulose Fiber None Reported	
DW-J-02	029A	<ul><li>(1) White, Drywall, Homogeneo</li><li>(2) White, Joint Compound, Homogeneous</li></ul>	ous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	10% Cellulose Fiber None Reported	
DW-J-03	030A	<ul><li>(1) White, Drywall, Homogeneo</li><li>(2) White, Joint Compound, Homogeneous</li></ul>	ous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	10% Cellulose Fiber None Reported	
DW-J-04	031A	(1) White, Drywall, Homogeneo	ous	NO ASBESTOS DETECTED	10% Cellulose Fiber	
DW-J-05	032A	<ul><li>(1) White, Drywall, Homogeneo</li><li>(2) White, Joint Compound, Homogeneous</li></ul>	ous	NO ASBESTOS DETECTED NO ASBESTOS DETECTED	10% Cellulose Fiber None Reported	
FS-K-01	033A	(1) Gray, Flooring, Homogeneo	us	NO ASBESTOS DETECTED	10% Cellulose Fiber	

Quantitation is based on a visual estimation of the relative area of bulk sample components, unless otherwise noted in the "Comments" section of this report. The results are valid only for the item tested as received. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Method used: E.P.A. Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). Polarized Light Microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos containing. Samples will be disposed of within 30 days unless notified in writing by the client. No part of this report may reproduced, except in full, without written permission of the laboratory. The reporting limit is 1% by weight. NVLAP Lab Code 101350-0.

Respectfully submitted,

PSI, Inc.

Analyst:	P	Preston Hunt	Work Order:	2208137		Page: 3 of 5	
Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) Analyst's Comment		Asbestos Content (Percent and Type)		Non-asbestos Fibers rcent and Type)	
FS-K-02	034A	(1) Gray, Flooring, Homoger	neous	NO ASBESTOS DETECTED	10%	Cellulose Fiber	
FS-K-03	035A	(1) Gray, Flooring, Homoger	neous	NO ASBESTOS DETECTED	10%	Cellulose Fiber	
FS-L-01	036A	(1) White, Flooring, Homoge	eneous	NO ASBESTOS DETECTED	5%	Fibrous Glass	
FS-L-02	037A	(1) White, Flooring, Homoge	eneous	NO ASBESTOS DETECTED	5%	Fibrous Glass	
FS-L-03	038A	(1) White, Flooring, Homoge	eneous	NO ASBESTOS DETECTED	5%	Fibrous Glass	
FS-M-01	039A	(1) Off-White, Flooring, Hom	nogeneous	NO ASBESTOS DETECTED	10%	Cellulose Fiber	
FS-M-02	040A	(1) Off-White, Flooring, Hom	nogeneous	NO ASBESTOS DETECTED	10%	Cellulose Fiber	
FS-M-03	041A	(1) Off-White, Flooring, Hom	nogeneous	NO ASBESTOS DETECTED	10%	Cellulose Fiber	
CT-N-01	042A	(1) White, Ceiling Tile, Home	ogeneous	NO ASSESTOS DETECTED	30% 40%	Fibrous Glass Cellulose Fiber	
				NO ASBESTOS DETECTED	40%	Cellulose Fibel	
CT-N-02	043A	(1) White, Ceiling Tile, Home	ogeneous	NO ACRECTOS DETECTED	30% 40%	Fibrous Glass Cellulose Fiber	
				NO ASBESTOS DETECTED	40%	Cellulose Fibel	
CT-N-03	044A	(1) White, Ceiling Tile, Hom	ogeneous		30%	Fibrous Glass	
				NO ASBESTOS DETECTED	40%	Cellulose Fiber	
FT-O-01	045A	(1) Green, Floor Tile, Homo	geneous 7%	Chrysotile	No	one Reported	
		(2) Black, Mastic, Homogen		•		one Reported	
		<ul><li>(3) Yellow, Floor Tile, Homo</li><li>(4) Black, Mastic, Homogen</li></ul>	-	•		one Reported one Reported	
FT-O-02	046A	Sample Not Tested					
FT-O-03	047A	Sample Not Tested					
WI-P-01	048A	(1) Silver, Wire, Homogeneo	ous	NO ASBESTOS DETECTED	20%	Fibrous Glass	
					30%	Cellulose Fiber	
WI-P-02	049A	(1) Silver, Wire, Homogeneo	ous	NO ASBESTOS DETECTED	20%	Fibrous Glass	
					30%	Cellulose Fiber	

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Respectfully submitted,

PSI, Inc.

Analyst:	Р	reston Hunt Work Ore	der: 2208137	Page: 4 of 5
Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.) Analyst's Comment	Asbestos Content (Percent and Type)	Non-asbestos Fibers (Percent and Type)
WI-P-03	050A	(1) Silver, Wire, Homogeneous	NO ASBESTOS DETECTED	20% Fibrous Glass 30% Cellulose Fiber
FS-Q-01	051A	(1) Off-White, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-Q-02	052A	(1) Off-White, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-Q-03	053A	(1) Off-White, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
PI-R-01	054A	(1) Gray, Pipe Insulation, Homogeneous	30% Chrysotile	50% Cellulose Fiber
PI-R-02	055A	Sample Not Tested		
PI-R-03	056A	Sample Not Tested		
FT-S-01	057A	<ul><li>(1) Beige, Floor Tile, Homogeneous</li><li>(2) Black, Mastic, Homogeneous</li></ul>	3% Chrysotile NO ASBESTOS DETECTED	None Reported None Reported
FT-S-02	058A	<ul><li>(1) Beige, Floor Tile, Homogeneous</li><li>(2) Black, Mastic, Homogeneous</li></ul>	3% Chrysotile NO ASBESTOS DETECTED	None Reported None Reported
FT-S-03	059A	<ul><li>(1) Beige, Floor Tile, Homogeneous</li><li>(2) Black, Mastic, Homogeneous</li></ul>	3% Chrysotile NO ASBESTOS DETECTED	None Reported None Reported
FS-T-01	060A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-T-02	061A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
FS-T-03	062A	(1) Brown, Flooring, Homogeneous	NO ASBESTOS DETECTED	10% Cellulose Fiber
WG-U-01	063A	(1) Gray, Glazing, Homogeneous	NO ASBESTOS DETECTED	None Reported
WG-U-02	064A	(1) Gray, Glazing, Homogeneous	NO ASBESTOS DETECTED	None Reported
WG-U-03	065A	(1) Gray, Glazing, Homogeneous	NO ASBESTOS DETECTED	None Reported
RS-V-01	066A	(1) Black, Shingle, Homogeneous	NO ASBESTOS DETECTED	10% Fibrous Glass
RS-V-02	067A	(1) Black, Shingle, Homogeneous	NO ASBESTOS DETECTED	10% Fibrous Glass
RS-V-03	068A	(1) Black, Shingle, Homogeneous	NO ASBESTOS DETECTED	10% Fibrous Glass

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Respectfully submitted,

PSI, Inc.

Analyst:	Р	reston Hunt W	ork Order: 2208137		Page: 5 of 5
Client ID	Lab ID (Layer)	Sample Description (Color, Texture, Etc.)  Analyst's Comment	Asbestos Content (Percent and Type)		Non-asbestos Fibers rcent and Type)
CT-W-01	069A	(1) White, Ceiling Tile, Homogen	eous  NO ASBESTOS DETECTED	30% 40%	Fibrous Glass Cellulose Fiber
CT-W-02	070A	(1) White, Ceiling Tile, Homogen	eous  NO ASBESTOS DETECTED	30% 40%	Fibrous Glass Cellulose Fiber
CT-W-03	071A	(1) White, Ceiling Tile, Homogen	eous  NO ASBESTOS DETECTED	30% 40%	Fibrous Glass Cellulose Fiber
FS-X-01	072A	(1) Tan, Flooring, Homogeneous	NO ASBESTOS DETECTED	5%	Fibrous Glass
FS-X-02	073A	(1) Tan, Flooring, Homogeneous	NO ASBESTOS DETECTED	5%	Fibrous Glass
FS-X-03	074A	(1) Tan, Flooring, Homogeneous	NO ASBESTOS DETECTED	5%	Fibrous Glass

**Report Notes:** (PT) Point Count Results

Quantitation is based on a visual estimation of the relative area of bulk sample components, unless otherwise noted in the "Comments" section of this report. The results are valid only for the item tested as received. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Method used: E.P.A. Interim Method for the Determination of Asbestos in Bulk Insulation Samples (EPA 600/M4-82-020). Polarized Light Microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative Transmission Electron Microscopy is currently the only method that can be used to determine if the material can be considered or treated as non-asbestos containing. Samples will be disposed of within 30 days unless notified in writing by the client. No part of this report may reproduced, except in full, without written permission of the laboratory. The reporting limit is 1% by weight. NVLAP Lab Code 101350-0.

Respectfully submitted,

PSI, Inc.

2208137(4) Pittsburgh, PA 15220 412-922-4000 IH Laboratory 850 Poplar Street Send Invoice To: ntertek Greg Chambliss PS CHAIN OF CUSTODY SB/LEAD/IH Company: Attn: Project Address: 1000 S. Man H., Selon, MO 65560 Project Information Send Results To: Mc Dane 18 5 - 5, lan, 000 Gree Chombiss 0039.5500

PSI

Company: Attn:

Project Name:

Project No:

Sample Date:

Stop at First Positive  V All Samples in Acceptable Condition:  TEM V402  TEM V402  TEM V402  TEM Wipe  TOtal Nuisance Dust  Tem Wipe  Tem Wipe  Tem V402  Tem V403  Tem V403  Tem V404  Tem
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TEM Chatfield  TEM Vacuum  TEM Vacuum  TEM Wipe  NY TEM NOB  TOtal Nuisance Dust  NY SOF-V  Respirable Dust  Total Softendium  Cadmium  Zinc  Total Chromium
TEM 7402  TEM 7402  TEM Vacuum  TEM Wipe  NY PLM Friable/NOB  NY TEM NOB  NY TEM NOB  NY TEM NOB  NY TEM NOB  NY SOF-V  Total Nuisance Dust  Respirable Dust  Agespirable Dust  Zinc  Zinc
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# CHAIN OF CUSTODY SB/LEAD/IH

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Project Name:	McDonolds. Solem, MO			Pittsburgh, PA 1
Project Address:				412-922-4000
Sample Date:	8/03/93			
	Send Results To:		Send Invoice To:	To:
Company:	ISA	Company:	PSI	
Attn:	Gray Chombliss	Attn:	Greg Chambliss	
Address:	11826 Borman Drive; St. Louis, Missouri 63146	Address:	11826 Borman Drive; St. Louis, Missouri 63146	ouri 63146
Telephone:	314-432-8073	Telephone:	314-432-8073	
Email:	grea. Chomblisse intacted. com	Email:	greg.chambliss@intertek.com	

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All Samples In Acceptable Condition:

Stop at First Positive

Same Day

Requested Turnaround Time:

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Analyst Signature:

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CHAIN OF CUSTODY SB/LEAD/IH

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Project Address:		۸.	Main St. Solow. Mo 65560	Sel	A. W.	30	0955										y Lum	ā.			412-	412-922-4000	000	
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Telephone:	314-432-8073	673	i									<u>  ⊢</u>	Telephone	ă.	31	314-432-8073	3073							
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Pose 3 of 4

Special Instructions / Comments:

# CHAIN OF CUSTODY SB/LEAD/IH

Project Information

Mc Donaldre - S. Frm. MO

Project Name:

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Project No:

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ntertek

Pittsburgh, PA 15220 412-922-4000 IH Laboratory 850 Poplar Street

Project Address:	Project Address: 1000 S. Main 94., Soften, 110 64560		412-922-4000
Sample Date:	8/03/27		
	Send Results To:		Send Invoice To:
Company:	PSI	Company:	PSI
Attn:	Gray Charbliss	Attn:	Greg Chambliss
Address:	11826 Borman Drive; St. Louis, Missouri 63146	Address:	11826 Borman Drive; St. Louis, Missouri 63146
Telephone:	314-432-8073	Telephone:	314-432-8073
Email:	aces. chemblisse intotal.com	Email:	greg.chambliss@intertek.com

Z

All Samples In Acceptable Condition: Laboratory Use Only

Stop at First Positive

Requested Date:

3-5 Day

1-2 Day

Same Day

7

Requested Turnaround Time:

Comments:

TEM Vacuum  TEM Vipping Charges  NY PLM Friable/NOB  NY SOF-V  Total Nuisance Dust  Respirable Dust  Zinc  Total Chromium  Apply:  App	
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# APPENDIX C PHOTOGRAPHS

PHOTO 1

PHOTO 2



View of ACM Floor Sheeting in Office Storage Room



View of multi-layered ACM Floor Tile and Mastic – Lower Level Common Room, Rooms 131, 132, 133, 134, Lower Level Storage Room #2

PHOTO 4

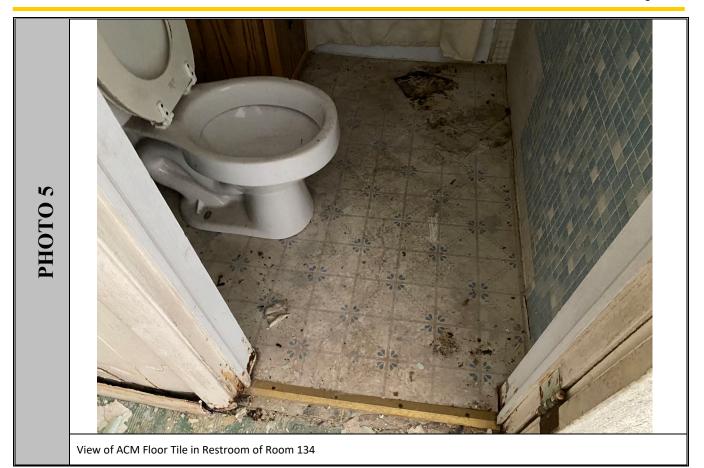


View of ACM Pipe Insulation



View of ACM Pipe Insulation as debris/garbage





# APPENDIX D ACCREDITATIONS



# Missouri Department of

dnr.mo.gov

# NATURAL RESOURCES

Michael L. Parson, Governor

August 13, 2021

Matthew E Basch 10822 Lawnbrook Dr St Louis, MO 63123 7118080621MOIR12911

THIS CERTIFIES

Matthew E Basch

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector

APPROVED: 08/13/2021

s 08/13/2022

TRAINING DATE: 08/06/2021

Array Byles
Director of Air Pollution Control Process

# RE: Missouri Asbestos Occupation Certification Card

Enclosed is your certification card for Asbestos Inspector, as issued by the Asbestos Unit of the Missouri Department of Natural Resources' Air Pollution Control Program.

Missouri Certification Number: 7118080621MOIR12911

Course Training Date: August 06, 2021

Missouri Certification Approval Date: August 13, 2021 Missouri Certification Expiration Date: August 13, 2022

### Note:

- All Missouri-certified asbestos personnel must comply with the following statutes and regulations:
  - o Sections 643.225 to 643.250, RSMo;
  - 10 CSR 10-6.241 Asbestos Projects-Registration, Abatement, Notification, Inspection, Demolition, and Performance Requirements; and
  - 10 CSR 10-6.250 Asbestos Projects-Certification, Accreditation and Business Exemption Requirements.
- To keep your occupation certification up-to-date, you must complete an annual refresher course and submit a renewal application each year.
- In order to be eligible to renew your certification, you must successfully complete a refresher course with a Missouri-accredited training provider within 12 months of the expiration date of your current training certificate. If you exceed this grace period, you will be required to retake a Missouri-accredited initial course in order to be eligible for Missouri certification.

To obtain a copy of the certification renewal application, or review regulations and requirements, please visit our website at http://dnr.mo.gov/env/apcp/asbestos/index.htm.

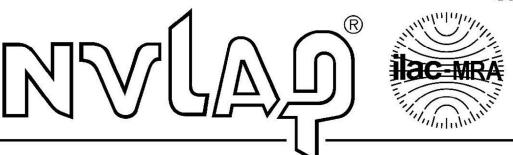
If you have any questions please call the Air Pollution Control Program at 573-751-4817.

AIR POLLUTION CONTROL PROGRAM

Director of Air Pollution Control Program

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# United States Department of Commerce National Institute of Standards and Technology



# Certificate of Accreditation to ISO/IEC 17025:2017

**NVLAP LAB CODE: 101350-0** 

Intertek-PSI, Inc.

Pittsburgh, PA

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 17025:2017.

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).

2022-07-01 through 2023-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program



### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

## Intertek-PSI, Inc.

PSI, Inc. 850 Poplar Street Pittsburgh, PA 15220 Ms. Catherine McNamee

Phone: 412-922-4010 x286 Fax: 412-922-4014 Email: cathy.mcnamee@intertek.com

http://www.intertek.com

### ASBESTOS FIBER ANALYSIS

### **NVLAP LAB CODE 101350-0**

# **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

Code Description

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.

For the National Voluntary Laboratory Accreditation Program