

Illinois Department of Transportation

Asbestos Abatement Survey

Work Order No.: 36

Job Order No.: R-90-001-21

Route: IL 43

Parcel No.: 0N30005

6451 S. Old Harlem Avenue

Chicago, Cook County, IL 60638

June 18, 2025

Asbestos Abatement Survey

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6451 S. Old Harlem Avenue

Chicago, Cook County, IL 60638

June 18, 2025

Prepared By:

Arcadis U.S., Inc.
225 West Wacker Drive
Suite 2015
Chicago, Illinois 60606
Phone: 312 917 1000

Prepared For:

Illinois Department of Transportation
2300 South Dirksen Parkway
Springfield, IL 62764

Our Ref:

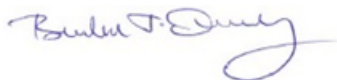
30253552



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Contents

Acronyms and Abbreviations.....	ii
1 Introduction.....	1
2 Survey Methodology	1
3 Analytical Methods.....	2
4 Findings.....	2
5 Recommendations.....	2
6 Cost Estimate.....	3
7 Additional Survey Limitations.....	4

Tables

Table 1	Asbestos Homogeneous Areas Summary
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Figures

Figures 1-3	Asbestos Bulk Sampling Locations
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Appendices

Appendix A	Limitations and Service Constraints
Appendix B	Accreditations - Inspector, Laboratory
Appendix C	Laboratory Reports – Asbestos
Appendix D	Photograph Log

Acronyms and Abbreviations

ACM	asbestos-containing material
AHERA	Asbestos Hazard Emergency Response Act
Arcadis	Arcadis U.S., Inc.
ASTM	ASTM International
CFR	Code of Federal Regulations
COC	chain of custody
DS	dispersion staining
HA	homogeneous area
IAC	Illinois Administrative Code
IDPH	Illinois Department of Public Health
IDOT	Illinois Department of Transportation
IEPA	Illinois Environmental Protection Agency
NESHAP	National Emissions Standards for Hazardous Air Pollutant
NIOSH	National Institute for Occupational Safety and Health
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PLM	polarized light microscopy
PPE	personal protective equipment
QA/QC	quality control/quality assurance
STAT	STAT Analysis Corporation of Chicago, Illinois
USEPA	United States Environmental Protection Agency

1 Introduction

Arcadis U.S., Inc. (Arcadis) conducted an asbestos abatement survey (survey) at Parcel No. 0N30005 located at 6451 S. Old Harlem Avenue, Chicago, Cook County, Illinois (Site) in accordance with Work Order No. 36 under the Prime Agreement for Consulting Services for PTB No. 202-043 between Illinois Department of Transportation (IDOT) and Arcadis. Arcadis' services and report are subject to the Limitations and Service Constraints provided in **Appendix A**.

The Site is improved with a split-level residential building with a lower level and partially finished sub-basement, constructed in 1992, and covering approximately 1,252 SF above grade. A two-car detached garage is also present.

The objective of the survey was to ascertain the general presence, quantity, and location of asbestos-containing materials (ACMs) at the site that may be impacted by the planned demolition and provide preliminary cost estimates for asbestos abatement that may be required prior to demolition activities.

The survey activities were conducted on March 5 and 7, 2025, by Paul Hoffman of Arcadis U.S., Inc. and Patrick Hook of A3 Environmental LLC. (A3E), an Arcadis sub-consultant. Mr. Hook collected additional samples on April 17, 2025. Copies of their accreditations are provided in **Appendix B**.

2 Survey Methodology

Arcadis conducted the asbestos survey in compliance with the United States Environmental Protection Agency (USEPA) National Emissions Standards for Hazardous Air Pollutants (NESHAPs), applicable State of Illinois and local asbestos regulations. This was accomplished by conducting a visual inspection of the structures to be impacted by the planned demolition and collecting samples of suspect ACM based on these observations. Arcadis conducted the asbestos survey in general accordance with ASTM International (ASTM) E2356 Standard Practice for Comprehensive Building Asbestos Surveys. ASTM E2356 meets the applicable asbestos survey and/or sampling requirements of current USEPA NESHAP Standard [40 Code of Federal Regulations (CFR) 61, Subpart M (Asbestos)], USEPA Asbestos Hazard Emergency Response Act (AHERA) [40 CFR 763, Subpart E], and Occupational Safety and Health Administration (OSHA) Asbestos Construction Standard [29 CFR 1926.1101].

The survey included an inspection of the structures to be impacted by the planned demolition providing a general sense of the overall location, type, quantity, and condition of suspect ACMs present. The asbestos survey included a visual and physical assessment of each accessible space to locate suspect ACMs. Suspect materials were divided into "Homogeneous Areas" (HAs) (i.e., materials that were determined by the inspector to be homogeneous based on their color, texture, and assumed date of installation).

A representative number of samples were collected from each HA. Bulk material samples were collected in 4-milliliter plastic bags and tightly sealed for transport to STAT Analysis Corporation (STAT) in Chicago, Illinois. Each sample collected by Arcadis was assigned its own unique coded number and sent for laboratory analysis under a chain-of-custody (COC) protocol.

The survey included destructive, intrusive, and/or exploratory testing unless specifically prohibited by IDOT. Destructive sampling is performed in order to identify materials which are hidden or obstructed. Hidden or obstructed areas include but are not limited to wall cavities, pipe chases, spaces above fixed ceilings, materials located under carpeting or subfloors, and ceramic tile grout/adhesive.

3 Analytical Methods

Asbestos bulk samples were analyzed for asbestos (reported in percent of type of asbestos) using polarized light microscopy with dispersion staining (PLM/DS) in accordance with the USEPA Method 600/R-93/116. Percentage estimates of each material's composition are based on the analyst's best visual judgment following PLM/DS analysis, and examination with a stereoscope.

STAT is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP). A copy of their accreditation is provided in **Appendix B**. Laboratory analytical reports are provided in **Appendix C**.

4 Findings

Arcadis identified 16 HAs from which 50 samples were collected and analyzed. A listing of the identified HAs, including each HA material description, location, sample number, condition, asbestos content, and estimated quantity, are presented in Table 1. Approximate sampling locations are shown on Figures 1-3.

The USEPA defines ACM as a material containing greater than 1% asbestos. Materials containing less than 1% asbestos are not regulated by the USEPA or the State of Illinois, but their disturbance is regulated by OSHA.

The bulk samples collected by Arcadis as part of the survey were reported by the laboratory to be ND = Asbestos Not Detected (Not Present).

No HAs were identified as assumed ACM.

Representative photographs are provided in **Appendix D**.

5 Recommendations

ACMs identified at the site that may be disturbed during demolition activities, must be removed by a licensed asbestos abatement contractor utilizing industry standard work procedures in accordance with all federal, state, and local regulations governing asbestos.

If other suspect materials not referenced in this survey report are identified during demolition activities, we recommend these materials be assumed ACM until the materials are inspected by a licensed asbestos inspector, sampled, and submitted for laboratory analysis.

6 Cost Estimate

Arcadis prepared this rough order of magnitude (ROM) opinion of cost to support planned asbestos abatement activities at the Site prior to building demolition.

ROUGH ORDER OF MAGNITUDE OPINION OF ASBESTOS ABATEMENT COSTS		
ASBESTOS ABATEMENT COSTS		
Item	Estimated Cost	Estimated Duration (Days)
Removal/disposal of identified ACM	N/A	N/A
Removal/disposal of assumed ACM	N/A	N/A
Sub-Total Estimated Abatement Costs	N/A	N/A
Contingency (15%)	N/A	N/A
Total Estimated Abatement Costs	N/A	N/A
ASBESTOS OVERSIGHT COSTS		
Item	Estimated Cost	Estimated Duration (Days)
Project Management/Coordination/Reporting	N/A	N/A
ACM Abatement Oversight (including equipment and analysis)	N/A	N/A
Sub-Total Estimated Oversight Costs	N/A	N/A
Contingency (15%)	N/A	N/A
Total Estimated Oversight Costs	N/A	N/A
TOTAL ESTIMATED PROJECT COST (WITH 15% CONTINGENCY)	N/A	N/A

The above ROM opinion of cost is based on the following assumptions:

- Cost estimate is based on the information identified in Arcadis' survey report.
- Cost estimate includes permits, labor, equipment, waste transport and disposal.
- Cost estimate assumes work will be awarded in its entirety to one contractor and completed during a single mobilization.
- Cost estimate includes consulting fees such as project management, project oversight, air sampling, etc.
- Actual bids and schedule durations may vary.
- Oversight costs are dependent upon the project duration which may vary depending on the contractor's schedule and is outside of Arcadis' control.

7 Additional Survey Limitations

Arcadis' survey is subject to the following survey limitations.

- The investigation did not include access or inspection of confined spaces, underground piping, conduits, and building footings, if any.
- If other suspect materials, not referenced in this survey report, are identified during renovation or demolition activities, Arcadis recommends that these materials be considered regulated until they are inspected by an appropriately certified inspector and proven otherwise.
- Utilities/services, including electric, water, and heat, were active in most areas surveyed. Materials associated with electrical components and energized equipment were not safely accessible and were not sampled.

Table

Table 1. Asbestos Homogeneous Areas Summary
IDOT - Asbestos Abatement Survey
WO # 36
6451 S. Old Harlem Avenue, Chicago, Illinois

HA No.	Material Description	Material Location	Sample Number	Condition	Friability	Asbestos Content	Estimated Quantity	Unit	Notes
1	8" x 8" Tan Floor Tile Thin Set	1st Floor Kitchen, 1st Floor Dining Room, Entrance Side Landing	1T, 2T, 3T	Good	Non-Friable	ND	600	SF	
1	8" x 8" Tan Floor Tile Grout	1st Floor Kitchen, 1st Floor Dining Room, Entrance Side Landing	1G, 2G, 3G	Good	Non-Friable	ND	600	SF	
2	White 10" x 10" Ceramic Floor Tile Thin Set	1st Floor Bathroom	4T, 5T, 6T	Good	Non-Friable	ND	45	SF	
2	White 10" x 10" Ceramic Floor Tile Grout	1st Floor Bathroom	4G, 5G, 6G	Good	Non-Friable	ND	45	SF	
3	Brown 2" x 2" Ceramic Floor Tile Thin Set	1st Floor Bathroom, Basement Bathroom	7T, 8T, 9T	Good	Non-Friable	ND	90	SF	Under HA-2 in 1st Floor Bathroom
3	Brown 2" x 2" Ceramic Floor Tile Grout	1st Floor Bathroom, Basement Bathroom	7G, 8G, 9G	Good	Non-Friable	ND	90	SF	Under HA-2 in 1st Floor Bathroom
4	Tan 8" x 8" Ceramic Wall Tile Mastic	1st Floor Bathroom	10T, 11T, 12T	Good	Non-Friable	ND	80	SF	
4	Tan 8" x 8" Ceramic Wall Tile Grout	1st Floor Bathroom	10G, 11G, 12G	Good	Non-Friable	ND	80	SF	
6	Blue 8" x 8" Ceramic Wall Tile Mastic	Basement Bathroom #2	13T, 14T, 15T	Good	Non-Friable	ND	80	SF	
6	Blue 8" x 8" Ceramic Wall Tile Grout	Basement Bathroom #2	13G, 14G, 15G	Good	Non-Friable	ND	80	SF	
7	White Wall/Ceiling Joint Compound and Skim Coat	1st Floor and Basement - Walls and Ceilings	16, 17, 18, 19, 20	Good	Friable	ND	3,000	SF	
8	White 2' x 4' Accoustical Ceiling	Basement Bar Area	21, 22, 23	Good	Friable	ND	100	SF	
9	Gray Fireplace Mortar	Basement Family Room	24, 25, 26	Good	Non-Friable	ND	100	SF	
10	Concrete Slab Floor/Foundation	Basement	27, 28, 29	Good	Non-Friable	ND	1,000	SF	

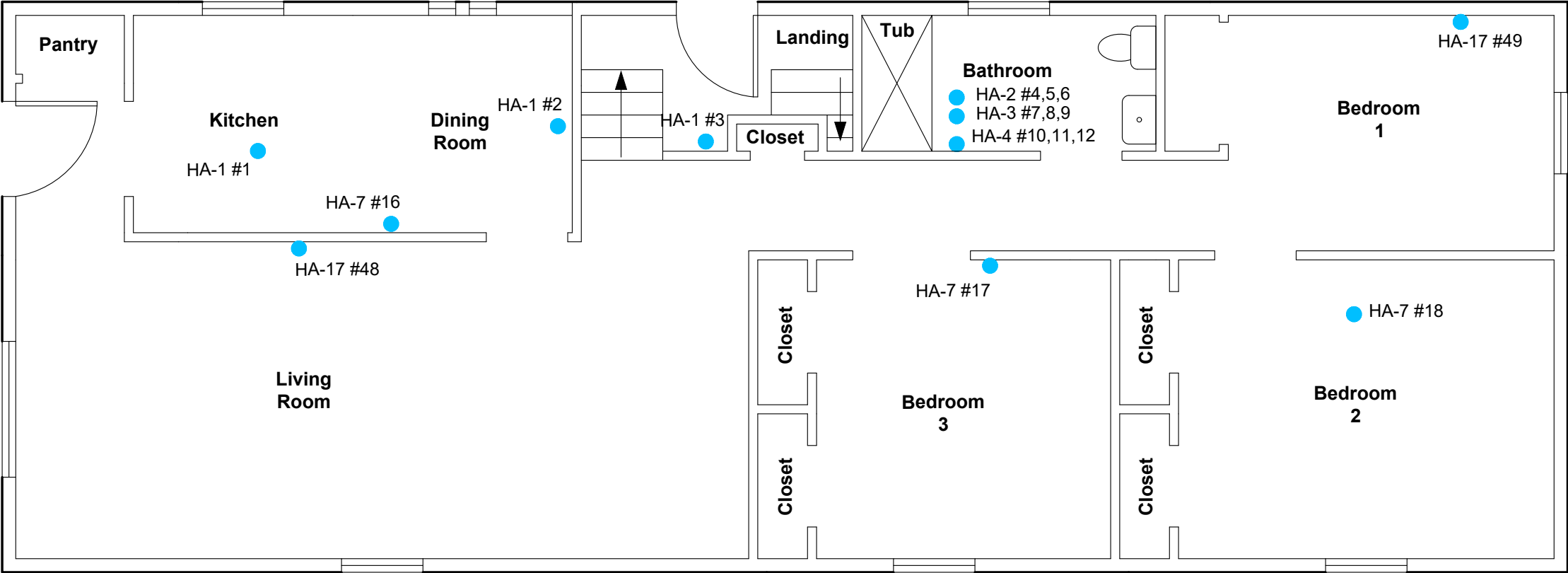
HA No.	Material Description	Material Location	Sample Number	Condition	Friability	Asbestos Content	Estimated Quantity	Unit	Notes
11	Black Asphalt Roof Shingle	House Roof	30, 31, 32	Good	Non-Friable	ND	1,200	SF	
12	Black Tar/Felt Paper under HA-11	House Roof	33, 34, 35	Good	Non-Friable	ND	1,200	SF	
13	Black Asphalt Roof Shingle	Garage Roof	36, 37, 38	Good	Non-Friable	ND	400	SF	
14	Black Tar/Felt Paper under HA-13	Garage Roof	39, 40, 41	Good	Non-Friable	ND	400	SF	
15	Tar Paper under Siding	Garage	42, 43, 44	Good	Non-Friable	ND	700	SF	
16	Black Sealant/Caulk	House Exterior Foundation	45, 46, 47	Good	Non-Friable	ND	80	LF	
17	Gypsum Board	1st Floor and Basement - Walls and Ceilings	48, 49, 50	Good	Friable	ND	3,000	SF	

Notes:

ACM = Asbestos-Containing Material
 Assumed ACM = A material determined by the inspector to be suspect ACM and is considered asbestos-containing until laboratory analysis can prove otherwise.
 NAD = No Asbestos Detected
 EA = Each
 LF = Linear Foot
 SF = Square Foot

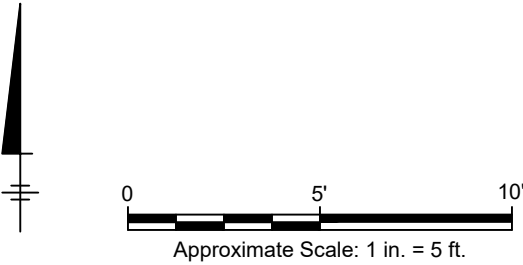
Figures

1



LEGEND
● ASBESTOS SAMPLE

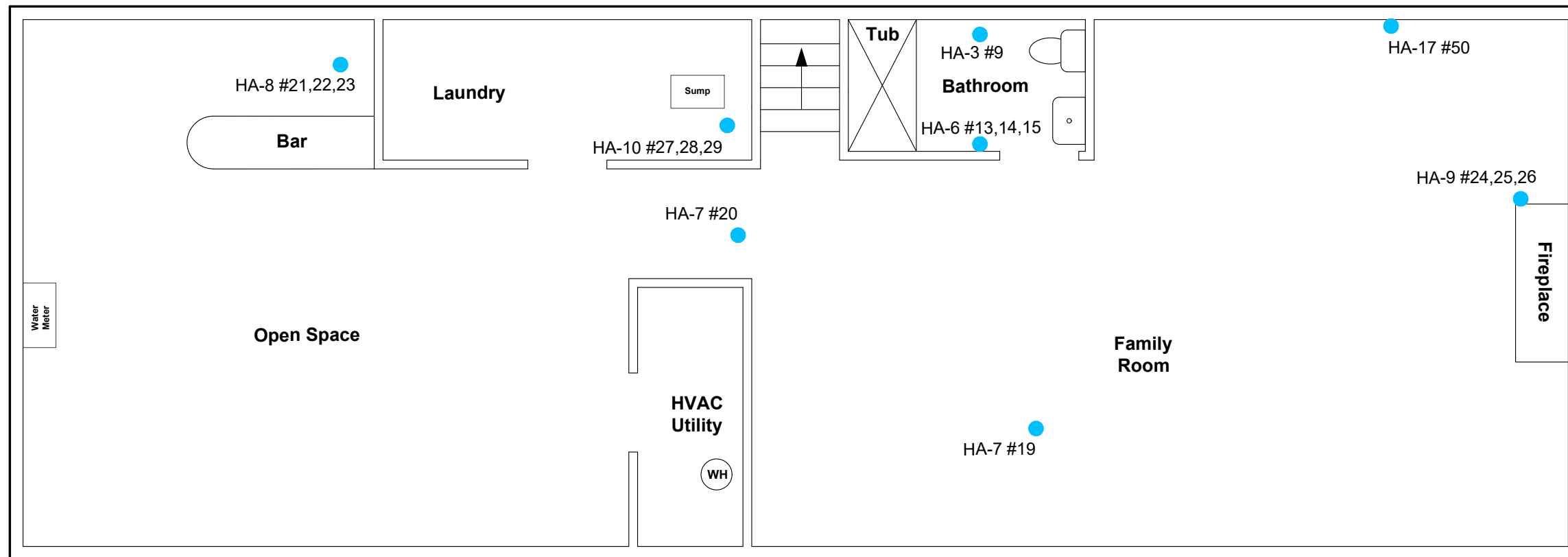
NOTE
BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



IDOT / Asbestos Surveys WO #036
Job No. R-90-001-21
Route IL 43 0N30005
6451 S Old Harlem Avenue
Chicago, Cook County, Illinois
ASBESTOS ABATEMENT SURVEY

**SAMPLING LOCATIONS -
FIRST FLOOR**

FIGURE
2

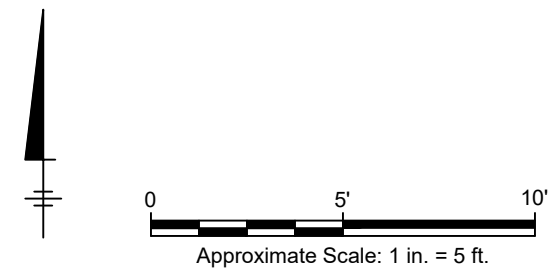


LEGEND

● ASBESTOS SAMPLE

NOTE

BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



IDOT / Asbestos Surveys WO #036
Job No. R-90-001-21
Route IL 43 0N30005
6451 S Old Harlem Avenue
Chicago, Cook County, Illinois
ASBESTOS ABATEMENT SURVEY

SAMPLING LOCATIONS - BASEMENT



FIGURE

3

Appendix A

Limitations and Service Constraints

Limitations and Service Constraints

The opinions, conclusions and recommendations presented in this report are limited to the information obtained during the performance of the specific scope of service identified in the report. To the extent that Arcadis relied upon any information prepared by other parties not under direct contract to Arcadis, no representation as to the accuracy or completeness of such information is made. This report is an instrument of professional service and the services described in the report were performed in accordance with generally accepted standards and level of skill and care ordinarily exercised by members of the profession working under similar conditions including comparable budgetary and schedule constraints. No warranty, guarantee or certification express or implied, is intended or given with respect to Arcadis' services, opinions, conclusions, or recommendations. This statement is in lieu of any other statement either expressed or implied.

Arcadis' observations, the results of testing and Arcadis' opinions, conclusions and recommendations apply solely to conditions existing at the specific times when and specific locations where Arcadis' investigative work was performed. Arcadis affirms that data gathered and presented by Arcadis in this report was collected in an appropriate manner in accordance with generally accepted methods and practices. Arcadis cannot be responsible for decisions made by our client solely on the basis of economic factors. Observation and testing activities such as those conducted by Arcadis are inherently limited and do not represent a conclusive or complete characterization. Arcadis analyzed only the substances, conditions and locations described in the report at the time indicated. Conditions in other parts of the project site, building or area may vary from conditions at the specific locations where observations were made and where testing was performed by Arcadis. Additionally, other building material hazards which were not identified by Arcadis, may also be present in inaccessible areas, including within walls and cavities, above ceilings, and below floors. Therefore, the extent of Arcadis' opinions, conclusions and recommendations are limited and 100% confidence in these opinions, conclusions and recommendations cannot reasonably be achieved. Nothing contained in this report shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards nor shall it be considered medical advice or consultation.

This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared and for the particular purpose outlined in the report. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk. This report must be presented in its entirety.

Appendix B

Accreditations

Inspector

Laboratory



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

PATRICK W HOOK
2025 WOODLANE DR
LINDENHURST, IL 60046

3/11/2024


ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 10967

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

Back of License

 ASBESTOS PROFESSIONAL LICENSE			ENDORSEMENTS	TC EXPIRES
ID NUMBER	ISSUED	EXPIRES	INSPECTOR	1/12/2025
100 - 10967	3/11/2024	05/15/2025	PROJECT MANAGER	1/13/2025
PATRICK W HOOK 2025 WOODLANE DR LINDENHURST, IL 60046 Environmental Health			Alteration of this license shall result in legal action This license issued under authority of the State of Illinois Department of Public Health This license is valid only when accompanied by a valid training course certificate.	

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov



This is to certify that

Paul J. Hoffman

11 Precourt Lane, Norton, MA 02766

MA DLS Asbestos Inspector License# AI061473

*has completed requisite training by Video Conference, and has passed an examination for
reaccreditation as:*

Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

Course Location

Zoom Video Conference

Institute for Environmental Education 16 Upton Drive Wilmington, MA 01887

June 21, 2024

Course Dates

24-5332-106-213698

Certificate Number

June 21, 2024

Examination Date

June 21, 2025

Expiration Date



Training Director

16 Upton Drive, Wilmington, MA 01887

Telephone 978.658.5272

www.ieetrains.com

INSTITUTE FOR ENVIRONMENTAL EDUCATION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101202-0

STAT Analysis Corporation
Chicago, IL

*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 Communiqué on ISO/IEC 17025).*

2024-07-01 through 2025-06-30

Effective Dates



A handwritten signature in blue ink, reading "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

STAT Analysis Corporation

Sterling Labs
2242 W. Harrison St. Suite 200
Chicago, IL 60612
Carolyn Mazzuca
Phone: 312-733-0551
Email: cmazzuca@statanalysis.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101202-0

Bulk Asbestos Analysis

Code

Description

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

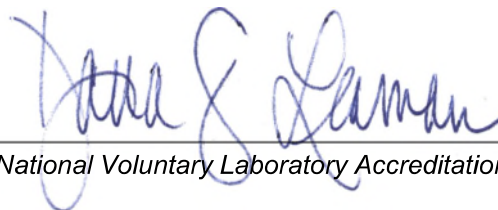
Airborne Asbestos Analysis

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

Appendix C

Laboratory Reports

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Arcadis US Inc.
 225 W. Wacker Drive, Suite 2015
 Chicago, IL 60606
 Phone: (312) 575-3718

Reference:	30253552 IDOT	Date Received:	03/07/2025
Location:	6451 S Old Harlem Ave Chicago, IL	Date Analyzed:	03/12/2025
Batch No.:	374070	Date Reported:	03/12/2025
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374070001	1T	ND	Cellulose 1-5% Binder 95-99%
374070002	2T	ND	Cellulose 1-5% Binder 95-99%
374070003	3T	ND	Cellulose 1-5% Binder 95-99%
374070004	1G	ND	Cellulose 1-5% Binder 95-99%
374070005	2G	ND	Cellulose 1-5% Binder 95-99%
374070006	3G	ND	Cellulose 1-5% Binder 95-99%
374070007	4T	ND	Cellulose 1-5% Binder 95-99%
374070008	5T	ND	Cellulose 1-5% Binder 95-99%
374070009	6T	ND	Cellulose 1-5% Binder 95-99%
374070010	4G	ND	Cellulose 1-5% Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

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Analyzed by Name : 
 Daniel Mikos / Microscopist

Date: 03/12/2025

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Arcadis US Inc.
225 W. Wacker Drive, Suite 2015
Chicago, IL 60606
Phone: (312) 575-3718

Reference: 30253552 IDOT
Location: 6451 S Old Harlem Ave Chicago, IL
Batch No.: 374070
Customer No.: 2530
Date Received: 03/07/2025
Date Analyzed: 03/12/2025
Date Reported: 03/12/2025
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374070011	5G	ND	Cellulose 1-5% Binder 95-99%
374070012	6G	ND	Cellulose 1-5% Binder 95-99%
374070013	7T	ND	Cellulose 1-5% Binder 95-99%
374070014	8T	ND	Cellulose 1-5% Binder 95-99%
374070015	9T	ND	Cellulose 1-5% Binder 95-99%
374070016	7G	ND	Cellulose 1-5% Binder 95-99%
374070017	8G	ND	Cellulose 1-5% Binder 95-99%
374070018	9G	ND	Cellulose 1-5% Binder 95-99%
374070019	10T	ND	Cellulose 1-5% Binder 95-99%
374070020	11T	ND	Cellulose 1-5% Binder 95-99%

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 225 W. Wacker Drive, Suite 2015
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 Phone: (312) 575-3718

Reference:	30253552 IDOT	Date Received:	03/07/2025
Location:	6451 S Old Harlem Ave Chicago, IL	Date Analyzed:	03/12/2025
Batch No.:	374070	Date Reported:	03/12/2025
Customer No.:	2530	Turn Around Time:	5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374070021	12T	ND	Cellulose 1-5% Binder 95-99%
374070022	10G	ND	Cellulose 1-5% Binder 95-99%
374070023	11G	ND	Cellulose 1-5% Binder 95-99%
374070024	12G	ND	Cellulose 1-5% Binder 95-99%
374070025	13T	ND	Cellulose 1-5% Binder 95-99%
374070026	14T	ND	Cellulose 1-5% Binder 95-99%
374070027	15T	ND	Cellulose 1-5% Binder 95-99%
374070028	13G	ND	Cellulose 1-5% Binder 95-99%
374070029	14G	ND	Cellulose 1-5% Binder 95-99%
374070030	15G	ND	Cellulose 1-5% Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Method: EPA-600/M4-82-020

Arcadis US Inc.
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Location: 6451 S Old Harlem Ave Chicago, IL Date Analyzed: 03/12/2025
Batch No.: 374070 Date Reported: 03/12/2025
Customer No.: 2530 Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374070031	16	ND	Cellulose 1-5% Binder 95-99%
374070032	17	ND	Cellulose 1-5% Binder 95-99%
374070033	18	ND	Cellulose 1-5% Binder 95-99%
374070034	19	ND	Cellulose 1-5% Binder 95-99%
374070035	20	ND	Cellulose 1-5% Binder 95-99%
374070036	21	ND	Cellulose 35-40% Binder 60-65%
374070037	22	ND	Cellulose 35-40% Binder 60-65%
374070038	23	ND	Cellulose 35-40% Binder 60-65%
374070039	24	ND	Cellulose 1-5% Binder 95-99%
374070040	25	ND	Cellulose 1-5% Binder 95-99%


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Analyzed by Name :


Daniel Mikos / Microscopist

Date: 03/12/2025

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Arcadis US Inc.
225 W. Wacker Drive, Suite 2015
Chicago, IL 60606
Phone: (312) 575-3718

Reference: 30253552 IDOT
Location: 6451 S Old Harlem Ave Chicago, IL
Batch No.: 374070
Customer No.: 2530
Date Received: 03/07/2025
Date Analyzed: 03/12/2025
Date Reported: 03/12/2025
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374070041	26	ND	Cellulose 1-5% Binder 95-99%
374070042	27	ND	Cellulose 1-5% Binder 95-99%
374070043	28	ND	Cellulose 1-5% Binder 95-99%
374070044	29	ND	Cellulose 1-5% Binder 95-99%
374070045	30	ND	Binder 85-90% Glass 10-15%
374070046	31	ND	Binder 85-90% Glass 10-15%
374070047	32	ND	Binder 85-90% Glass 10-15%
374070048	33	ND	Cellulose 60-65% Binder 35-40%
374070049	34	ND	Cellulose 60-65% Binder 35-40%
374070050	35	ND	Cellulose 60-65% Binder 35-40%

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Analyzed by Name : 
Daniel Mikos / Microscopist

Date: 03/12/2025

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA-600/M4-82-020

Arcadis US Inc.
225 W. Wacker Drive, Suite 2015
Chicago, IL 60606
Phone: (312) 575-3718

Reference: 30253552 IDOT Date Received: 03/07/2025
Location: 6451 S Old Harlem Ave Chicago, IL Date Analyzed: 03/12/2025
Batch No.: 374070 Date Reported: 03/12/2025
Customer No.: 2530 Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374070051	36	ND	Binder 85-90% Glass 10-15%
374070052	37	ND	Binder 85-90% Glass 10-15%
374070053	38	ND	Binder 85-90% Glass 10-15%
374070054	39	ND	Cellulose 60-65% Binder 35-40%
374070055	40	ND	Cellulose 60-65% Binder 35-40%
374070056	41	ND	Cellulose 60-65% Binder 35-40%
374070057	42	ND	Cellulose 60-65% Binder 35-40%
374070058	43	ND	Cellulose 60-65% Binder 35-40%
374070059	44	ND	Cellulose 60-65% Binder 35-40%

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CHAIN OF CUSTODY RECORD

Page : 1 of 5

[illegible]

Client:

IDOT

 Building/Site No.: 6451
 Address: 6451 SOLD HARLEM
 AVE CHICAGO, IL

 Project No.: 3023552
 Survey Date: 3/5/2025
 Inspector: PATRICK HOOK

374670


ARCADIS

 for natural and
 built assets

HA	Sample Number	Material Type (Circle)	Color Texture	Material Description	Floor: B,1,Mezz, Ext,Roof	Sample Location	Condition G, D, SD	Friable Y/N	Quantity SF LF, EA	Photo
1	1	(M, S, TSI)	TAN	8"X8" TAN	1	KITCHEN 1 ST FLR	G	N	600	
	2	Location:	FLR	FIT THINSET	1	DINING RM 1 ST FLR	↓	↓	↓	
	3	Ceiling, Wall, (Floor), Roof,		+ GROUT	1	ENTRANCE SIDE LANDING	↓	↓	↓	
		Multiple, Shaftway, Other		STONE/CERAMIC						
Mat. Location/QTY:										

Notes:

2	4	(M, S, TSI)	WHITE	WHITE 10"X10"	1	BATHROOM FLOOR 1 ST FLR	G	N	45 SF	
	5	Location:	FLR	CERAMIC FIT	1	↓	↓	↓	↓	
	6	Ceiling, Wall, (Floor), Roof,		THINSET +	1	↓	↓	↓	↓	
		Multiple, Shaftway, Other		GROUT						
Mat. Location/QTY:										

Notes:

3	7	(M, S, TSI)	BROWN	BROWN 2"X2"	1	BATHROOM 1 ST FLR UNDER HA-2	G	N	45	
	8	Location:	FLR	CERAMIC FIT	1	↓	↓	↓	↓	
	9	Ceiling, Wall, (Floor), Roof,		THINSET +	B	BATHROOM BASEMENT	G	↓	45	
		Multiple, Shaftway, Other		GROUT						
Mat. Location/QTY: 2 ND LAYER TILE UNDER HA-2 1 ST FLR BATHROOM										

Notes:

4	10	(M, S, TSI)	WHITE	TAN 8"X8"	1	BATHROOM 1 ST FLR-WALL	G	N	80	
	11	Location:	WALL	CERAMIC	1	↓	↓	↓	↓	
	12	Ceiling, Wall, (Floor), Roof,		WALL-MASTIC	1	↓	↓	↓	↓	
		Multiple, Shaftway, Other		AND GROUT						
Mat. Location/QTY:										

Notes:

Client:

IDOT

Building/Site No.:

6451

Address:

6451 SOLD HARLEM
AVE CHICAGO, IL

Project No.:

3023552

Survey Date:

3/5/2025

Inspector:

PATRICK HOOK

374070

ARCADIS

Providing technology
for natural and
built assets

Inspector: PATRICK HOOK											for natural and built assets
HA	Sample Number	Material Type (Circle)	Color Texture	Material Description	Floor: B, 1, Mezz, Ext, Roof	Sample Location	Condition G, D, SD	Friable Y / N	Quantity SF LF, EA	Photo	
6	13	(M) S, TSI	BLUE	BLUE 8"x8"	B	BATHROOM #2 BASEMENT	G	N	80 SF		
	14	Location:	WALL	CERAMIC	B	WALL					
	15	Ceiling, (Wall), Floor, Roof,	MASTIC +	B							
		Multiple, Shaftway, Other	GROUT								
Mat. Location/QTY:											

Notes:

7	16	(M) S, TSI	WHITE	WHITE	1	KITCHEN - 1ST FLOOR WALL	G	N	3,000 SF	
	17	Location:	WALL	WALL/CEILING		BED ROOM #3 - 1ST FLR WALL				
	18	Ceiling, Wall, Floor, Roof,		JOINT COMPOUND		BED ROOM #2				
	19	Multiple, Shaftway, Other		AND SKIM COAT						
Mat. Lo	20				B	FAMILY ROOM - CEILING	D	Y		
					B	HALLWAY - CEILING	D	Y		

Notes:

8	21	(M, S, TSI)	WHITE	WHITE 2'x4'	B	BAR AREA CEILING	D	Y	100 SF
	22	Location:	CEIL	ACOUSTICAL	B	BASEMENT			
	23	Ceiling, Wall, Floor, Roof,		CEILING	B	↓	↓	↓	
		Multiple, Shaftway, Other		TILE					
Mat. Location/QTY:									

Notes:

9	24	(M) S, TSI	TIN	GRAY FIREPLACE MORTAR	B	FIREPLACE MORTAR	G	N	100 SF	
	25	Location:	OTHER		B	BASEMENT FAMILY RM				
	26	Ceiling, Wall, Floor, Roof,			B	↓				
		Multiple, Shaftway (Other)				↓				
Mat. Location/QTY:										

Notes:

3045

Client:

IDOT

Building/Site No.:

6451

Address:

6451 SOLD HARLEM
AVE CHICAGO, IL

Project No.:

3023552

Survey Date:

3/5/2025

Inspector:

PATRICK HOOK

374070


 For a company
for natural and
built assets

Inspector: <u>PATRICK HOOK</u>											ARCADIS		for natural and built assets	
HA	Sample Number	Material Type (Circle)	Color Texture	Material Description	Floor: B,1,Mezz, Ext,Roof	Sample Location	Condition G, D, SD	Friable Y / N	Quantity SF, LF, EA	Photo				
10	27	(M), S, TSI	GRM	CONCRETE SLAB FLR / FOUNDATION	B	STORAGE SPACE / CRAWL SPACE	G	N	1,000					
	28	Location:	FLR		B									
	29	Ceiling, Wall, (Floor) Roof,	B											
		Multiple, Shaftway, Other												
Mat. Location/QTY:														

Notes:

11	30	(M, S, TSI	BLACK	ASPHALT ROOF SHINGLE	ROOF	HOUSE ROOF - NORTH SIDE	G	N	1,200	SF
	31	Location:	ROOF							
	32	Ceiling, Wall, Floor, Roof,								
		Multiple, Shaftway, Other								
Mat. Location/QTY:										

Notes:

12	33	(M) S, TSI	BLACK	TAR/FELT PAPER UNDER (HA-11)	ROOF	HOUSE ROOF - NORTH SIDE	G	N	1,200 SF
	34	Location:	ROOF						
	35	Ceiling, Wall, Floor, <u>Roof</u>							
		Multiple, Shaftway, Other							
Mat. Location/QTY:									

Notes:

13	36	(M, S, TSI	BLACK	ASPHALT ROOF SHINGLE	ROOF	GARAGE ROOF- NORTH SIDE	G	N	400 SF
	37	Location:	ROOF						
	38	Ceiling, Wall, Floor, Roof,							
		Multiple, Shaftway, Other							
Mat. Location/QTY:									

Notes:

4 OF 5

Client:

IDOT

Building/Site No.:

6451

Address:

6451 S OLD HARLEM
AVE CHICAGO, IL

Project No.:

3023552

Survey Date:

3/5/2025

Inspector:

PATRICK HOOK

374070



ARCADIS

 Proven Capability
for natural and
built assets

HA	Sample Number	Material Type (Circle)	Color Texture	Material Description	Floor: B,1,Mezz, Ext,Roof	Sample Location	Condition G, D, SD	Friable Y/N	Quantity SF, LF, EA	Photo
14	39	(M) S, TSI	BLACK	TAR/FELT	ROOF	GARAGE ROOF - NORTH SIDE	G	N	400 SF	
	40	Location: ROOF		PAPER						
	41	Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other		UNDER						
				HA-13						
Mat. Location/QTY:										

Notes:

15	42	(M) S, TSI	BLACK	TAR PAPER	WALL	GARAGE WALL - NORTH SIDE	G	N	700 SF	
	43	Location: WALL		UNDER						
	44	Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other		SIDING						
Mat. Location/QTY:										

Notes:

		M, S, TSI								
		Location:								
		Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								
Mat. Location/QTY:										

Notes:

		M, S, TSI								
		Location:								
		Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								
Mat. Location/QTY:										

Notes:

5085

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Arcadis US Inc.
225 W. Wacker Drive, Suite 2015
Chicago, IL 60606
Phone: (312) 575-3718

Reference: 30253552 IDOT
Location: 6451 S Old Harlem Ave Chicago, IL
Batch No.: 374089
Customer No.: 2530
Date Received: 03/11/2025
Date Analyzed: 03/12/2025
Date Reported: 03/12/2025
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374089001	45	ND	Cellulose 10-15% Binder 85-90%
374089002	46	ND	Cellulose 10-15% Binder 85-90%
374089003	47	ND	Cellulose 10-15% Binder 85-90%

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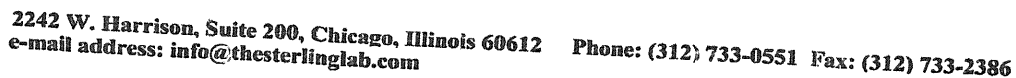
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Analyzed by Name :


Daniel Mikos / Microscopist

Date: 03/12/2025



Page : 1 of 2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☐ 5 Days: ☒

Date Due: _____ Time Due: _____

Page: 1 of 2

Note: Not all turn around times are available for all analysis.

Relinquished by:	<i>[Signature]</i>	Date/Time:	
Received by:	<i>[Signature]</i>	Date/Time:	<i>3/11/25 921</i>
Relinquished by:		Date/Time:	
Received by:		Date/Time:	
Relinquished by:		Date/Time:	
Received by:		Date/Time:	

Date/Time:	
PCM Asbestos	
PLM Asbestos (Bulk)	X
PLM Point Count	
PLM Gravimetric	
TEM Air Asbestos	
TEM Bulk Asbestos	
TEM Gravimetric Asb.	
TEM Microvac Asb.	
TEM Water	
Other:	
3-SAMPLES	

Comments: 6451 S OLD HARLEM AVE CHICAGO, IL

Client:

IDOT

 Building/Site No.: 6451
 Address: 6451 SOLD HARLEM
 AVE CHICAGO, IL

 Project No.: 30253552
 Survey Date: 3/7/2025
 Inspector: PATRICK HOOK


ARCADIS

for natural and
built assets

374089

HA	Sample Number	Material Type (Circle)	Color Texture	Material Description	Floor: B, 1, Mezz, Ext, Roof	Sample Location	Condition G, D, SD	Friable Y/N	Quantity SF, LF, EA	Photo
16	45	(M) S, TSI	BLACK	BLACK SEALANT/CAULK	EXT	NORTH SIDE EXT ALONG	D	N	80 LF	
	46	Location: EXT				SIDEWALK TO HOUSE				
	47	Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other				FOUNDATION				
Mat. Location/QTY:										
Notes:										
		M, S, TSI								
		Location:								
		Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								
Mat. Location/QTY:										
Notes:										
		M, S, TSI								
		Location:								
		Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								
Mat. Location/QTY:										
Notes:										
		M, S, TSI								
		Location:								
		Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								
Mat. Location/QTY:										
Notes:										

20F2

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Arcadis US Inc.
225 W. Wacker Drive, Suite 2015
Chicago, IL 60606
Phone: (312) 575-3718

Reference: 30253552 Date Received: 04/17/2025
Location: 6451 S. Old Harlem Avenue, Chicago, IL Date Analyzed: 04/22/2025
Batch No.: 374528 Date Reported: 04/22/2025
Customer No.: 2530 Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374528001	17-48	ND	Cellulose 5-10% Binder 90-95%
374528002	14-49	ND	Cellulose 5-10% Binder 90-95%
374528003	17-50	ND	Cellulose 5-10% Binder 90-95%

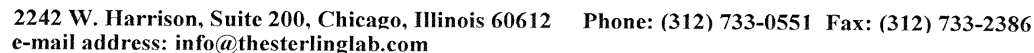
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Analyzed by Name : 



Page : 1 of 1

Comments: Email results to brendan.quealy@arcadis.com

Appendix D

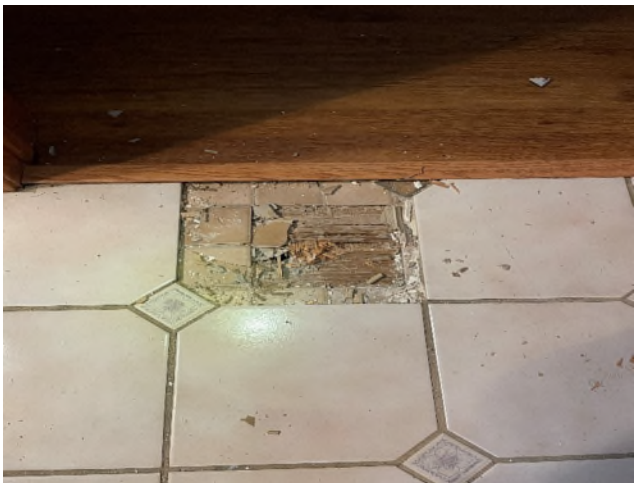
Photo Log



Exterior of Building – Front



HA-1: 8" x 8" Tan Floor Tile Thin Set and Grout



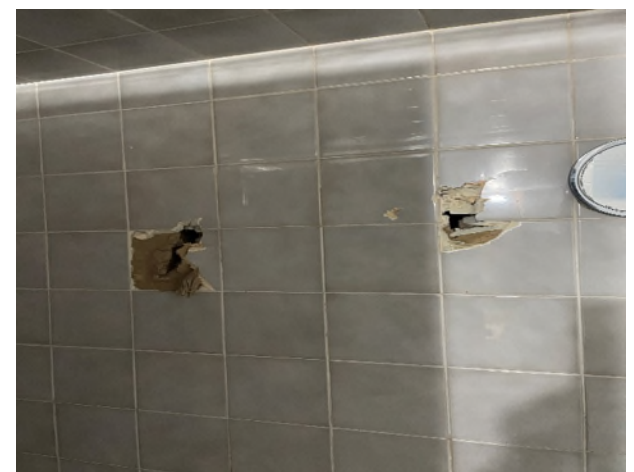
HA-2: White 10" x 10" Ceramic Floor Tile Thin Set and Grout



HA-3: Brown 2" x 2" Ceramic Floor Tile Thin Set and Grout



HA-4: Tan 8" x 8" Ceramic Wall Tile Mastic and Grout



HA-6: Blue 8" x 8" Ceramic Wall Tile Mastic and Grout



**HA-7: White Wall/Ceiling Joint Compound
HA-17: Gypsum Board**



HA-8: 2' x 4' Acoustical Ceiling Tile



HA-9: Gray Fireplace Mortar



HA-10: Concrete Slab Floor/Foundation



**HA-11: Black Asphalt Shingles
HA-12: Tar/Felt Paper under HA-11**



**HA-13: Black Asphalt Shingle
HA-14: Tar/Felt Paper under HA-13
HA-15: Black Tar Paper under Siding**



HA-16: Black Sealant/Caulk

Arcadis U.S., Inc.
225 West Wacker Drive
Suite 2015
Chicago, Illinois 60606
Phone: 312 917 1000
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