

Illinois Department of Transportation

# Asbestos Abatement Survey

**Work Order No.: 36**

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

**Route: IL 43**

**Parcel No.: 0N30004**

**6441 S. Old Harlem Avenue**

**Chicago, Cook County, IL 60638**

June 18, 2025

## Asbestos Abatement Survey

**Work Order No.: 36**

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

**Route: IL 43**

**Parcel No.: 0N30004**

**6441 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



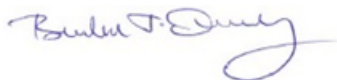
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## Contents

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

## Tables

<b>Table 1</b>	<b>Asbestos Homogeneous Areas Summary</b>
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## Figures

<b>Figures 1-4</b>	<b>Asbestos Bulk Sampling Locations</b>
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## Appendices

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

## 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. 0N30004 located at 6441 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 tri-level residential building with a lower level and partially finished sub-basement, constructed in 1992 with a third floor 2008 addition, and covering approximately 1,660 SF above grade. A two-car detached garage is also present and included in the scope of the work.

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 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 18 HAs from which 56 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 1-4.

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.

All 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
<b>Sub-Total Estimated Abatement Costs</b>	<b>N/A</b>	<b>N/A</b>
Contingency (15%)	N/A	N/A
<b>Total Estimated Abatement Costs</b>	<b>N/A</b>	<b>N/A</b>
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
<b>Sub-Total Estimated Oversight Costs</b>	<b>N/A</b>	<b>N/A</b>
Contingency (15%)	N/A	N/A
<b>Total Estimated Oversight Costs</b>	<b>N/A</b>	<b>N/A</b>
<b>TOTAL ESTIMATED PROJECT COST (WITH 15% CONTINGENCY)</b>	<b>N/A</b>	<b>N/A</b>

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**  
**6441 S. Old Harlem Avenue, Chicago, Illinois**

HA No.	Material Description	Material Location	Sample Number	Condition	Friability	Asbestos Content	Estimated Quantity	Unit	Notes
1	White 12" x 12" Ceramic Floor Tile Thin Set	Kitchen	1, 2, 3	Good	Non-Friable	ND	180	SF	
1G	White 12" x 12" Ceramic Floor Tile Grout	Kitchen	1G, 2G, 3G	Good	Non-Friable	ND	180	SF	
2	Gray/Blue 2" x 2" Ceramic Wall Tile Mastic	Kitchen	4, 5, 6	Good	Non-Friable	ND	140	SF	
2G	Gray/Blue 2" x 2" Ceramic Wall Tile Grout	Kitchen	4G, 5G, 6G	Good	Non-Friable	ND	140	SF	
3	Gray 12" x 12" Ceramic Floor Tile Thin Set	1st Floor Bathroom	7, 8, 9	Good	Non-Friable	ND	40	SF	
3G	Gray 12" x 12" Ceramic Floor Tile Grout	1st Floor Bathroom	7G, 8G, 9G	Good	Non-Friable	ND	40	SF	
4	Gray 2" x 10" Ceramic Wall Tile Thin Set	1st Floor Bathroom	10, 11, 12	Good	Non-Friable	ND	54	SF	
4G	Gray 2" x 10" Ceramic Wall Tile Grout	1st Floor Bathroom	10G, 11G, 12G	Good	Non-Friable	ND	54	SF	
5	White Joint Compound	1st Floor, 2nd Floor and Basement - Walls and Ceilings	13, 14, 15, 16, 17	Good	Friable	ND	3,500	SF	
6	Gray Ceramic Floor Tile Thin Set	Basement Bathroom	18, 19, 20	Good	Non-Friable	ND	45	SF	
6G	Gray Ceramic Floor Tile Grout	Basement Bathroom	18G, 19G, 20G	Good	Non-Friable	ND	45	SF	
7	Gray Ceramic Wall Tile Thin Set and Grout	Basement Bathroom	21, 22, 23	Good	Non-Friable	ND	80	SF	
7G	Gray Ceramic Wall Tile Thin Set and Grout	Basement Bathroom	21G, 22G, 23G	Good	Non-Friable	ND	80	SF	
8Green	Black Stick-On 12" x 12" Floor Tile	Basement Room #2	24Green, 25Green, 26Green	Good	Non-Friable	ND	300	SF	
8TN	Black Stick-On 12" x 12" Floor Tile	Basement Room #2	24TN, 25TN, 26TN	Good	Non-Friable	ND	300	SF	
8BK	Black Stick-On 12" x 12" Floor Tile	Basement Room #2	24BK, 25BK, 26BK	Good	Non-Friable	ND	300	SF	
9	White and Black 12" x 12" Ceramic Floor Tile Thin Set	Basement	27, 28, 29	Good	Non-Friable	ND	8	SF	
9G	White and Black 12" x 12" Ceramic Floor Tile Grout	Basement	27G, 28G, 29G	Good	Non-Friable	ND	8	SF	
10	Brown 10" x 16" Stone/Ceramic Wall and Floor Tile Thin Set	2nd Floor Bathroom	30, 31, 32	Good	Non-Friable	ND	140	SF	
10G	Brown 10" x 16" Stone/Ceramic Wall and Floor Tile Grout	2nd Floor Bathroom	30G, 31G, 32G	Good	Non-Friable	ND	140	SF	
11	Gray Concrete Floor and Foundation Walls	Basement	33, 34, 35	Good	Non-Friable	ND	1,000	SF	
12	Black Asphalt Roof	House Roof	36, 37, 38	Good	Non-Friable	ND	1,000	SF	
13	Black Tar Paper under HA-12	House Roof	39, 40, 41	Good	Non-Friable	ND	1,000	SF	

HA No.	Material Description	Material Location	Sample Number	Condition	Friability	Asbestos Content	Estimated Quantity	Unit	Notes
14	White Window Caulk	Exterior	42, 43, 44	Good	Non-Friable	ND	200	LF	
15	Black Asphalt Roof Shingle	Garage Roof	45, 46, 47	Good	Non-Friable	ND	400	SF	
16	Black Tar Paper under HA-15	Garage Roof	48, 49, 50	Good	Non-Friable	ND	400	SF	
17	White Sealant/Caulk	Exterior where the foundation meets the sidewalk	51, 52, 53	Good	Non-Friable	ND	100	LF	
18	Gypsum Board	1st Floor, 2nd Floor and Basement - Walls and Ceilings	54, 55, 56	Good	Non-Friable	ND	3,500	SF	

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

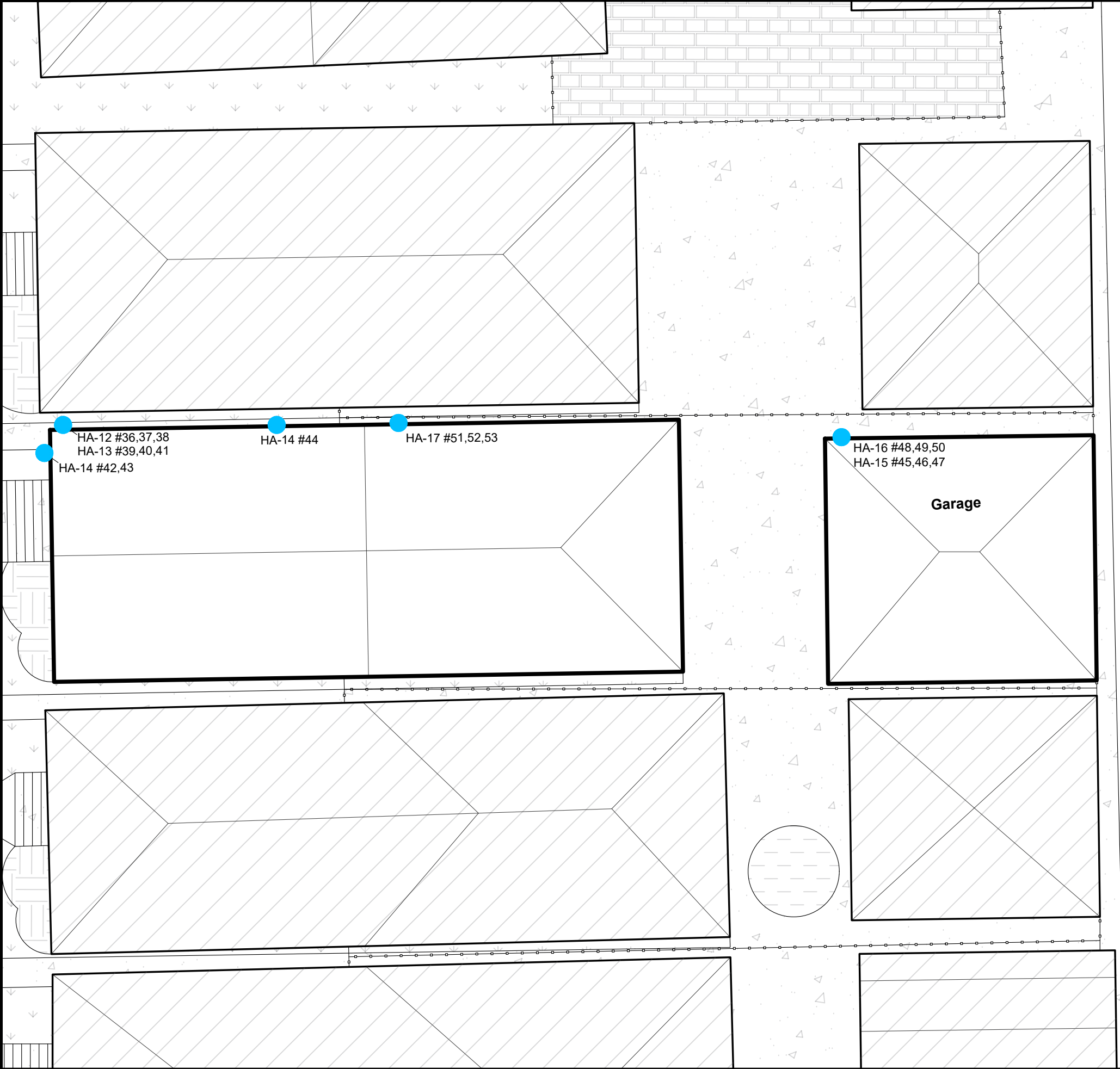
EA = Each

LF = Linear Foot

SF = Square Foot

# Figures

G:\Shared drives\Projects\2025\0154 - Arcadis IDOT Work Order #36\Figures\2025\0154\_CAD\_Arcadis IDOT Work Order #36\_20250418\_SCC.dwg LAYOUT: 6441-1 SAVED: 4/18/2025 11:33 AM ACADVER: 24.2S (LMS TECH) PAGES: 1 OF 1 PLOTTED: 4/18/2025 12:01 PM BY: SARAH CLARK



LEGEND

ASBESTOS SAMPLE

NOTE

BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



Approximate Scale: 1 in. = 10 ft.

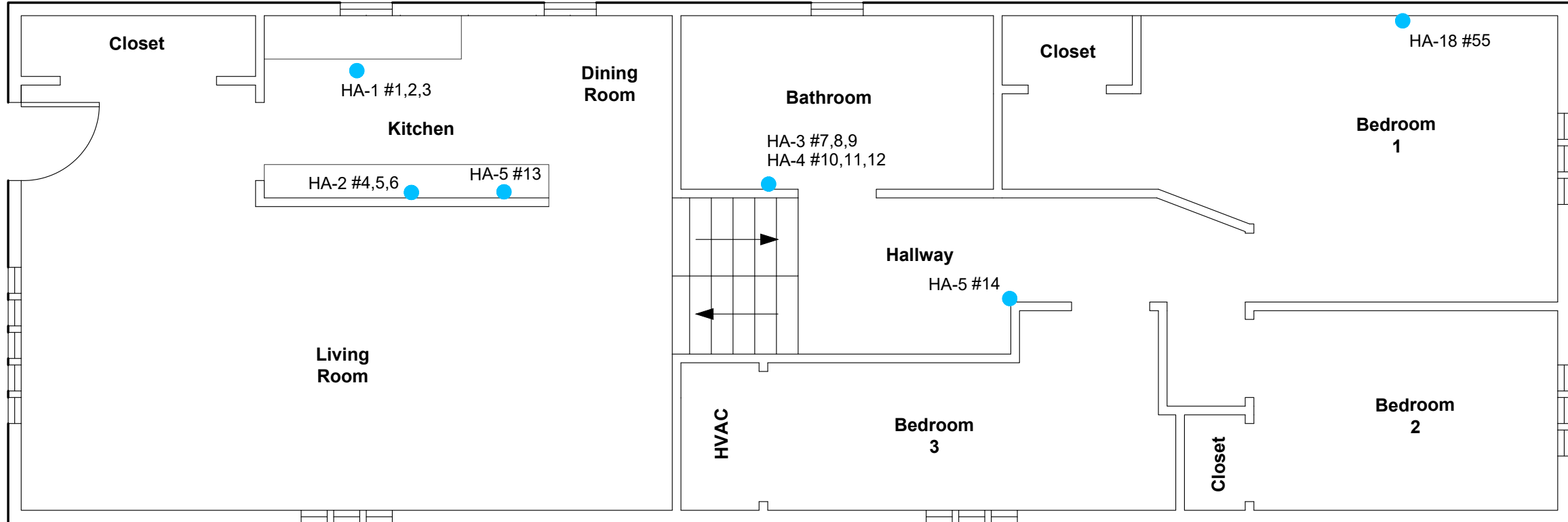
IDOT / Asbestos Surveys WO #036  
Job No. R-90-001-21  
Route IL 43 0N30004  
6441 S Old Harlem Avenue  
Chicago, Cook County, Illinois  
**ASBESTOS ABATEMENT SURVEY**

**SAMPLING LOCATIONS -  
EXTERIOR**

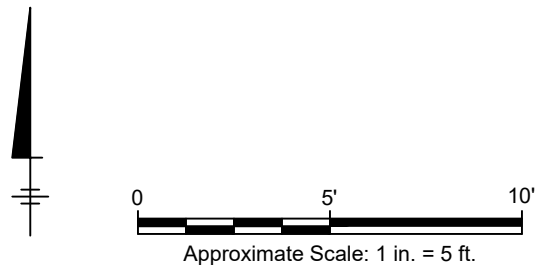


FIGURE

1



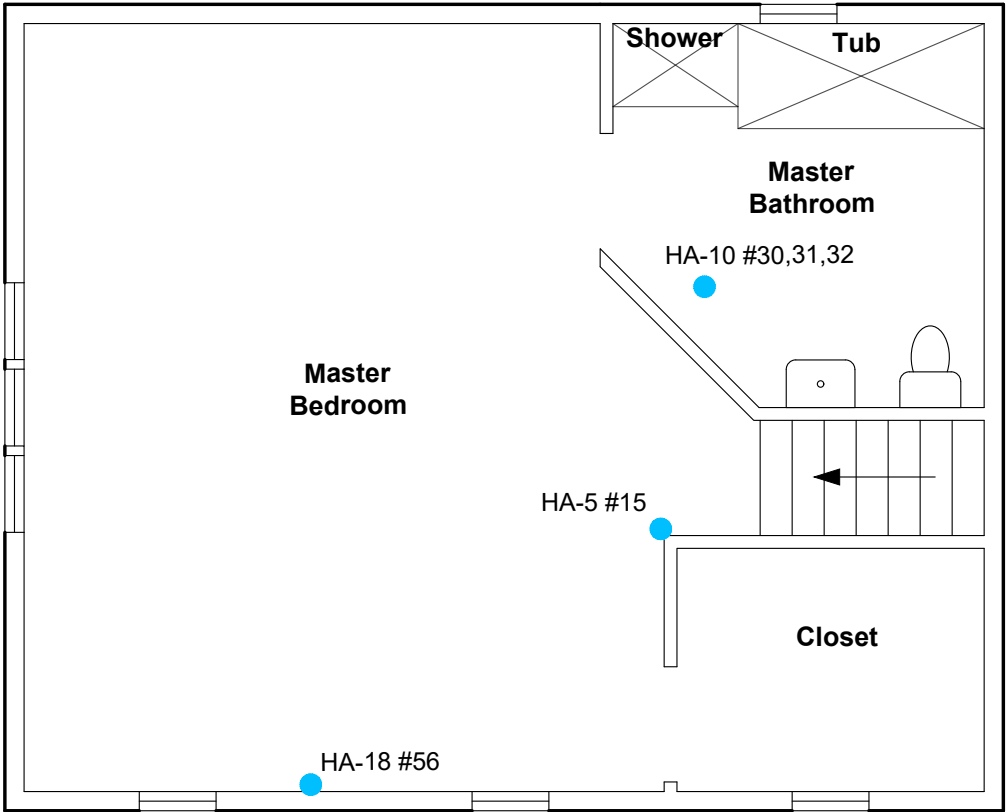
NOTE  
BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



IDOT / Asbestos Surveys WO #036  
 Job No. R-90-001-21  
 Route IL 43 0N30004  
 6441 S Old Harlem Avenue  
 Chicago, Cook County, Illinois  
**ASBESTOS ABATEMENT SURVEY**



FIGURE  
2



LEGEND

● ASBESTOS SAMPLE

NOTE

BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



Approximate Scale: 1 in. = 5 ft.

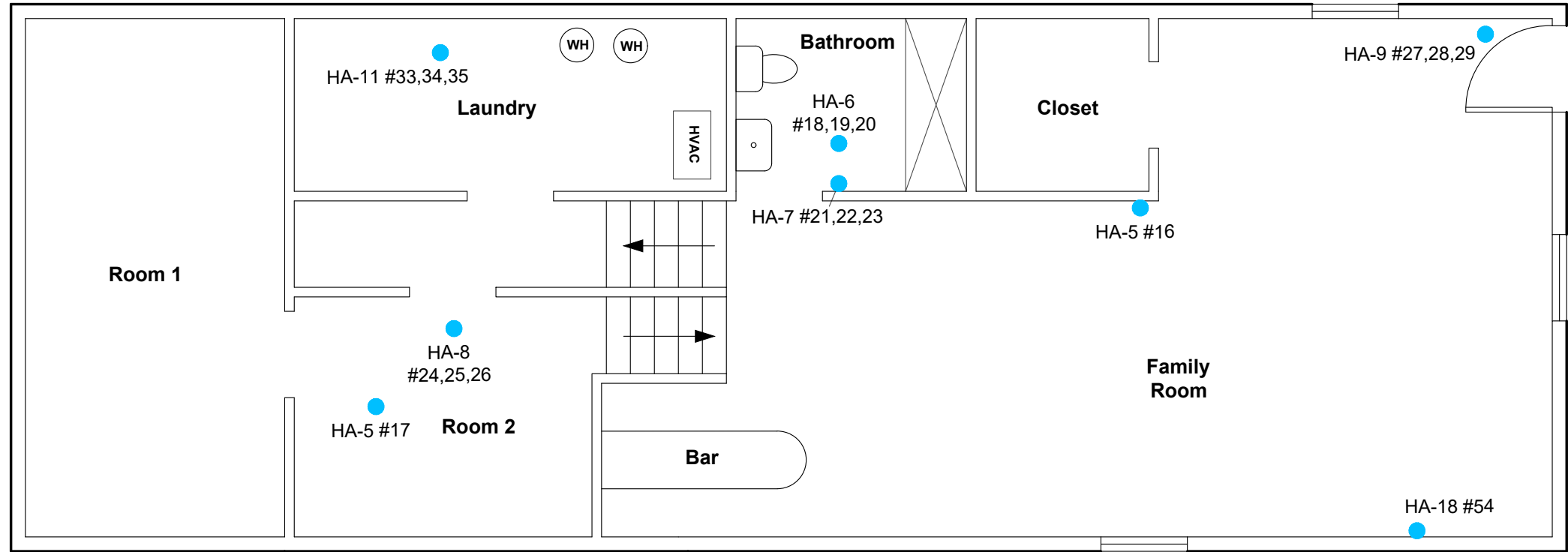
IDOT / Asbestos Surveys WO #036  
Job No. R-90-001-21  
Route IL 43 0N30004  
6441 S Old Harlem Avenue  
Chicago, Cook County, Illinois  
**ASBESTOS ABATEMENT SURVEY**

**SAMPLING LOCATIONS -  
SECOND FLOOR**



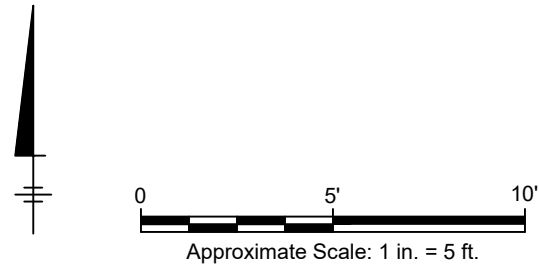
FIGURE


3



**LEGEND**  
● ASBESTOS SAMPLE

**NOTE**  
BASE MAP DEVELOPED FROM ONSITE INVESTIGATION.



IDOT / Asbestos Surveys WO #036 Job No. R-90-001-21 Route IL 43 0N30004 6441 S Old Harlem Avenue Chicago, Cook County, Illinois <b>ASBESTOS ABATEMENT SURVEY</b>	
<b>SAMPLING LOCATIONS - BASEMENT</b>	
	FIGURE <b>4</b>



# 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](http://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

 <b>ASBESTOS PROFESSIONAL LICENSE</b>			ENDORSEMENTS	TC EXPIRES
ID NUMBER	ISSUED	EXPIRES	INSPECTOR	1/12/2025
100 - 10967	3/11/2024	05/15/2025	PROJECT MANAGER	1/13/2025
<b>PATRICK W HOOK</b> 2025 WOODLANE DR LINDENHURST, IL 60046 Environmental Health			<b>Alteration of this license shall result in legal action</b> 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](http://dph.illinois.gov/topics-services/environmental-health-protection/asbestos)  
EMAIL Address: [dph.asbestos@illinois.gov](mailto: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



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## Certificate of Accreditation to ISO/IEC 17025:2017

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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).*

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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

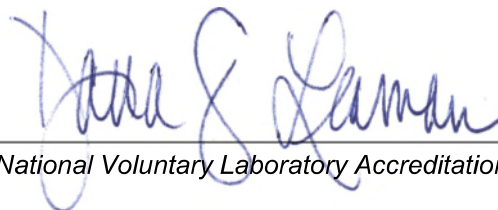
**Airborne Asbestos Analysis**

**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  
Location: 6441 S Old Harlem Ave Chicago, IL  
Batch No.: 374091  
Customer No.: 2530

Date Received: 03/11/2025  
Date Analyzed: 03/18/2025  
Date Reported: 03/18/2025  
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091001	1	ND	Cellulose 1-5% Binder 95-99%
374091002	2	ND	Cellulose 1-5% Binder 95-99%
374091003	3	ND	Cellulose 1-5% Binder 95-99%
374091004	1G	ND	Cellulose 1-5% Binder 95-99%
374091005	2G	ND	Cellulose 1-5% Binder 95-99%
374091006	3G	ND	Cellulose 1-5% Binder 95-99%
374091007	4	ND	Cellulose 1-5% Binder 95-99%
374091008	5	ND	Cellulose 1-5% Binder 95-99%
374091009	6	ND	Cellulose 1-5% Binder 95-99%
374091010	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.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

**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: 03/11/2025  
Location: 6441 S Old Harlem Ave Chicago, IL Date Analyzed: 03/18/2025  
Batch No.: 374091 Date Reported: 03/18/2025  
Customer No.: 2530 Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091011	5G	ND	Cellulose 1-5% Binder 95-99%
374091012	6G	ND	Cellulose 1-5% Binder 95-99%
374091013	7	ND	Cellulose 1-5% Binder 95-99%
374091014	8	ND	Cellulose 1-5% Binder 95-99%
374091015	9	ND	Cellulose 1-5% Binder 95-99%
374091016	7G	ND	Cellulose 1-5% Binder 95-99%
374091017	8G	ND	Cellulose 1-5% Binder 95-99%
374091018	9G	ND	Cellulose 1-5% Binder 95-99%
374091019	10	ND	Cellulose 1-5% Binder 95-99%
374091020	11	ND	Cellulose 1-5% Binder 95-99%

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**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: 03/11/2025  
Location: 6441 S Old Harlem Ave Chicago, IL Date Analyzed: 03/18/2025  
Batch No.: 374091 Date Reported: 03/18/2025  
Customer No.: 2530 Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091021	12	ND	Cellulose 1-5% Binder 95-99%
374091022	10G	ND	Cellulose 1-5% Binder 95-99%
374091023	11G	ND	Cellulose 1-5% Binder 95-99%
374091024	12G	ND	Cellulose 1-5% Binder 95-99%
374091025	13	ND	Cellulose 1-5% Binder 95-99%
374091026	14	ND	Cellulose 1-5% Binder 95-99%
374091027	15	ND	Cellulose 1-5% Binder 95-99%
374091028	16	ND	Cellulose 1-5% Binder 95-99%
374091029	17	ND	Cellulose 1-5% Binder 95-99%
374091030	18	ND	Cellulose 1-5% Binder 95-99%

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Location: 6441 S Old Harlem Ave Chicago, IL Date Analyzed: 03/18/2025  
Batch No.: 374091 Date Reported: 03/18/2025  
Customer No.: 2530 Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091031	19	ND	Cellulose 1-5% Binder 95-99%
374091032	20	ND	Cellulose 1-5% Binder 95-99%
374091033	18G	ND	Cellulose 1-5% Binder 95-99%
374091034	19G	ND	Cellulose 1-5% Binder 95-99%
374091035	20G	ND	Cellulose 1-5% Binder 95-99%
374091036	21	ND	Cellulose 1-5% Binder 95-99%
374091037	22	ND	Cellulose 1-5% Binder 95-99%
374091038	23	ND	Cellulose 1-5% Binder 95-99%
374091039	21G	ND	Cellulose 1-5% Binder 95-99%
374091040	22G	ND	Cellulose 1-5% Binder 95-99%

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Reference: 30253552 IDOT  
Location: 6441 S Old Harlem Ave Chicago, IL  
Batch No.: 374091  
Customer No.: 2530

Date Received: 03/11/2025  
Date Analyzed: 03/18/2025  
Date Reported: 03/18/2025  
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091041	23G	ND	Cellulose 1-5% Binder 95-99%
374091042	24 Green	ND	Cellulose 1-5% Binder 95-99%
374091043	25 Green	ND	Cellulose 1-5% Binder 95-99%
374091044	26 Green	ND	Cellulose 1-5% Binder 95-99%
374091045	24TN	ND	Cellulose 1-5% Binder 95-99%
374091046	25TN	ND	Cellulose 1-5% Binder 95-99%
374091047	26TN	ND	Cellulose 1-5% Binder 95-99%
374091048	24BK	ND	Cellulose 1-5% Binder 95-99%
374091049	25BK	ND	Cellulose 1-5% Binder 95-99%
374091050	26BK	ND	Cellulose 1-5% Binder 95-99%

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Reference: 30253552 IDOT  
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Batch No.: 374091  
Customer No.: 2530

Date Received: 03/11/2025  
Date Analyzed: 03/18/2025  
Date Reported: 03/18/2025  
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091051	27	ND	Cellulose 1-5% Binder 95-99%
374091052	28	ND	Cellulose 1-5% Binder 95-99%
374091053	29	ND	Cellulose 1-5% Binder 95-99%
374091054	27G	ND	Cellulose 1-5% Binder 95-99%
374091055	28G	ND	Cellulose 1-5% Binder 95-99%
374091056	29G	ND	Cellulose 1-5% Binder 95-99%
374091057	30	ND	Cellulose 1-5% Binder 95-99%
374091058	31	ND	Cellulose 1-5% Binder 95-99%
374091059	32	ND	Cellulose 1-5% Binder 95-99%
374091060	30G	ND	Cellulose 1-5% Binder 95-99%

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Location: 6441 S Old Harlem Ave Chicago, IL

Batch No.: 374091

Customer No.: 2530

Date Received: 03/11/2025

Date Analyzed: 03/18/2025

Date Reported: 03/18/2025

Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091061	31G	ND	Cellulose 1-5% Binder 95-99%
374091062	32G	ND	Cellulose 1-5% Binder 95-99%
374091063	33	ND	Cellulose 1-5% Binder 95-99%
374091064	34	ND	Cellulose 1-5% Binder 95-99%
374091065	35	ND	Cellulose 1-5% Binder 95-99%
374091066	36	ND	Binder 85-90% Glass 10-15%
374091067	37	ND	Binder 85-90% Glass 10-15%
374091068	38	ND	Binder 85-90% Glass 10-15%
374091069	39	ND	Binder 85-90% Glass 10-15%
374091070	40	ND	Binder 85-90% Glass 10-15%

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Date Received: 03/11/2025

Date Analyzed: 03/18/2025

Date Reported: 03/18/2025

Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091071	41	ND	Binder 85-90% Glass 10-15%
374091072	42	ND	Cellulose 1-5% Binder 95-99%
374091073	43	ND	Cellulose 1-5% Binder 95-99%
374091074	44	ND	Cellulose 1-5% Binder 95-99%
374091075	45	ND	Binder 85-90% Glass 10-15%
374091076	46	ND	Binder 85-90% Glass 10-15%
374091077	47	ND	Binder 85-90% Glass 10-15%
374091078	48	ND	Cellulose 10-15% Binder 85-90%
374091079	49	ND	Cellulose 10-15% Binder 85-90%
374091080	50	ND	Cellulose 10-15% Binder 85-90%

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Batch No.: 374091  
Customer No.: 2530

Date Received: 03/11/2025  
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Date Reported: 03/18/2025  
Turn Around Time: 5 Days

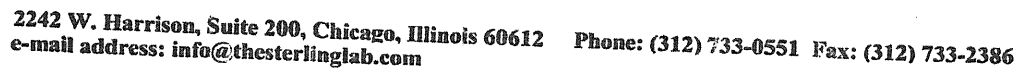
Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374091081	51	ND	Cellulose 1-5% Binder 95-99%
374091082	52	ND	Cellulose 1-5% Binder 95-99%
374091083	53	ND	Cellulose 1-5% Binder 95-99%

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Page : 1 of 6

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

Batch No.: **374097**

~~Sale~~ Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): **JS 3/18/20**

Comments:

Relinquished by: <i>[Signature]</i>	Date/Time:
Received by: <i>[Signature]</i>	Date/Time: <i>3/11/25 924</i>
Relinquished by:	Date/Time:
Received by:	Date/Time:
Relinquished by:	Date/Time:
Received by:	Date/Time:

[illegible][illegible]

Comments: 6441 S OLD HARLEM AVE CHICAGO, IL

Client:

IDOT

 Building/Site No.: 6441  
 Address: 6441 S OLD  
HARLEM AVE  
CHICAGO IL

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


374091

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	WHITE	WHITE	1	KITCHEN - 1 <sup>ST</sup> FLOOR	G	N	180 SF	180
	2	Location:	FLR	12"X12"	1	FLOOR	↓	↓	↓	
	3	Ceiling, Wall, Floor, Roof,	(C) Floor	CERAMIC	1		↓	↓	↓	
		Multiple, Shaftway, Other		P.T-THINSET + GROUT						
Mat. Location/QTY:										
Notes:										
2	4	(M) S, TSI	GRAY	GRAY/BLUE	1	KITCHEN - 1 <sup>ST</sup> FLOOR	G	N	140 SF	
	5	Location:	WALL	2"X2" WALL	1	WALL	↓	↓	↓	
	6	Ceiling, Wall, Floor, Roof,	(C) Wall	CERAMIC	1		↓	↓	↓	
		Multiple, Shaftway, Other		MASTIC + GROUT						
Mat. Location/QTY:										
Notes:										
3	7	(M) S, TSI	GRAY	GRAY CERAMIC	1	BATH ROOM (FLR) - 1 <sup>ST</sup> FLR	G	N	40 SF	
	8	Location:	FLR	F.T (12"X12")	1		↓	↓	↓	
	9	Ceiling, Wall, Floor, Roof,	(C) Floor	THINSET +	1		↓	↓	↓	
		Multiple, Shaftway, Other		GROUT						
Mat. Location/QTY:										
Notes:										
4	10	(M) S, TSI	GRAY	GRAY 2"X10"	1	BATH ROOM (WALL) - 1 <sup>ST</sup> FLR	G	N	54 SF	
	11	Location:	WALL	CERAMIC WALL	1		↓	↓	↓	
	12	Ceiling, Wall, Floor, Roof,	(C) Wall	TILE - THINSET	1		↓	↓	↓	
		Multiple, Shaftway, Other		+ GROUT						
Mat. Location/QTY:										
Notes:										

Client:  
IDOT

Building/Site No.: 6441  
Address: 6441 SOLD HARLEM  
AVE CHICAGO, IL

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

374091  
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
5	13	M/S, TSI	WHITE	WHITE JOINT	1	KITCHEN - 1 <sup>ST</sup> FLR	G	Y	3,500 sf	
	14	Location:	WALL	CEILING COMPOUND ON WALLS	1	HALLWAY - MB22 LEVEL				
	15	Ceiling, Wall, Floor, Roof,		+ FLOORS	2	2 <sup>ND</sup> FLR BEDROOM				
	16	Multiple, Shaftway, Other			B	FAMILY RM - BASEMENT				
Mat. Lo	17				B	ROOM #2 - BASEMENT				
Notes:										
6	18	M/S, TSI	GRAY	GRAY CERAMIC	B	BATH RM FLR - BASEMENT	G	N	45 sf	
	19	Location:	WALL	F.T THINSET	B	(FLOOR)				
	20	Ceiling, Wall, Floor, Roof,		+ GROUT	B					
Mat. Location/QTY:										
Notes:										
7	21	M/S, TSI	GRAY	GRAY CERAMIC	B	BATH ROOM - BASEMENT	G	N	80 sf	
	22	Location:	WALL	WALL TILE	B	(WALL) (SHOWER)				
	23	Ceiling, Wall, Floor, Roof,		THINSET + GROUT	B					
Mat. Location/QTY:										
Notes:										
8	24	M/S, TSI	BLACK	BLACK STICK-ON	B	ROOM #2 - BASEMENT	G	N	300 sf	
	25	Location:	FLR	12"X12"	B					
	26	Ceiling, Wall, Floor, Roof,		FLOOR TILE	B					
Mat. Location/QTY:										
Notes:										

Client:

IDOT

Building/Site No.:

6441

Address: 6441 SOLD HARLEM  
AVE CHICAGO, IL

Project No.:

30253552

Survey Date:

3/7/2025

Inspector:

PATRICK HOOK



ARCADIS

for natural and  
built assets

374091

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
9	27	(M), S, TSI	BLACK	WHITE+BLACK	B	FAMILY RM REARENTRANCE	G	N	8 sf	
	28	Location:	FLR	CERAMIC FIT	B	BASEMENT	↓	↓	↓	
	29	Ceiling, Wall, Floor, Roof,		12" X 12" THINSET + GROUT	B	↓	↓	↓	↓	
		Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:

10	30	(M), S, TSI	BROWN	BROWN 10" 16" STONE / CERAMIC WALL AND F.T THINSET + GROUT	2	BATH RM FLR+WALL 2 <sup>ND</sup> FLR	G	N	140 s.f	
	31	Location:	WTF		2	↓	↓	↓	↓	
	32	Ceiling, Wall, Floor, Roof,			2	↓	↓	↓	↓	
		Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:

11	33	(M), S, TSI	GRAY	GRAY CONCRETE FLOOR + FOUND WALL	B	BASEMENT-LAUNDRY RM	G	N	1000 SF	
	34	Location:			B	↓	↓	↓	↓	
	35	Ceiling, Wall, Floor, Roof,			B	↓	↓	↓	↓	
		Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:

12	36	(M), S, TSI	BLACK	BLACK ASPHALT ROOF	ROOF	NORTH WEST OVER HANG ROOF	G	N	1000 sf	
	37	Location:	ROOF		↓	↓	↓	↓	↓	
	38	Ceiling, Wall, Floor, Roof,			↓	↓	↓	↓	↓	
		Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:



Client:

IDOT

Building/Site No.:

6441

Address:

6441 S OLD HARLEM  
AVE CHICAGO, IL

Project No.:

30253552

Survey Date:

3/7/2025

Inspector:

PATRICK HOOK



ARCADIS

for natural and  
built assets

HA	Sample Number	Material Type (Circle)	Color Texture	Material Description	Floor: B, I, Maxx, Ext, Roof	Sample Location	Condition G, D, SO	Friable Y/N	Quantity SF, LF, EA	Photo
13	39	(M) S, TSI	BLACK	BLACK TAR PAPER UNDER HA-8	ROOF	N.W OVER HANG - ROOF	G	N	1,000 SF	
	40	Location: ROOF								
	41	Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:

14	42	(M) S, TSI	WHITE	WHITE WINDOW CAULKING	EXT	EXTERIOR WINDOW CAULKING	G	N	200 LF	
	43	Location: WINDOW								
	44	Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:

15	45	(M) S, TSI	BLACK	BLACK ASPHALT ROOF SHINGLE	ROOF	NORTH ROOF - GARAGE	G	N	400 SF	
	46	Location: ROOF								
	47	Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:

16	48	M, S, TSI	BLACK	BLACK TAR PAPER UNDER HA-11	ROOF	NORTH ROOF - GARAGE	G	N	400 SF	
	49	Location: ROOF								
	50	Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:



Client:

IDOT

Building/Site No.: 6441  
Address: 6441 S OLD HARLEM  
AVE CHICAGO, ILProject No.: 30253552  
Survey Date: 3/7/2025  
Inspector: PATRICK HOOK

**ARCADIS** for natural and built assets

HA	Sample Number	Material Type (Circle)	Color Texture	Material Description	Floor: B, I, M, Ext, Roof	Sample Location	Condition G, O, SO	Friable Y/N	Quantity SF/LA/EA	Photo
	51	(M) S, TSI	WHITE	WHITE SEALANT/CAULKING	EXT	NORTH SIDE ALONG THE SEAM	G	N	100 LF	
	52	Location:	EXT		↓	OF SIDE WALK TO FOUNDATION	↓	↓	↓	
	53	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:

		M, S, TSI								
		Location:								
		Ceiling, Wall, Floor, Roof, Multiple, Shaftway, Other								

Mat. Location/QTY:

Notes:

**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: 6441 S. Old Harlem Avenue, Chicago, IL Date Analyzed: 04/22/2025  
Batch No.: 374527 Date Reported: 04/22/2025  
Customer No.: 2530 Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374527001	18-54	ND	Cellulose 5-10% Binder 90-95%
374527002	18-55	ND	Cellulose 5-10% Binder 90-95%
374527003	18-56	ND	Cellulose 5-10% Binder 90-95%

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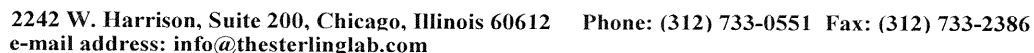
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Analyzed by Name :

Zineb Nasri / Microscopist





## Page : 1 of 1

Comments: Email results to [brendan.quealy@arcadis.com](mailto:brendan.quealy@arcadis.com)

# Appendix D

## Photo Log



**Exterior of Building – Front**



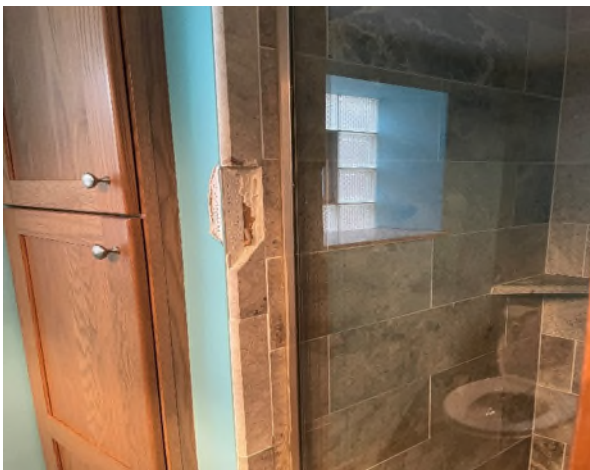
**HA-1: White 12" x 12" Ceramic Floor Tile Thin Set/Grout**



**HA-2: Gray/Blue 2" x 2" Ceramic Wall Tile Grout and Mastic**



**HA-3: Gray 12" x 12" Ceramic Floor Tile Thin Set and Grout**



**HA-4: Gray 2" x 10" Ceramic Wall Tile Thin Set and Grout**



**HA-5: White Joint Compound  
HA-18: Gypsum Board**





**HA-6: Gray Ceramic Floor Tile Thin Set and Grout**



**HA-7: Gray Ceramic Wall Tile Thin Set and Grout**



**HA-8: Black Stick-On 12" x 12" Floor Tile**



**HA-9: White and Black 12" x 12" Ceramic Floor Tile Thin Set and Grout**



**HA-10: Brown 10" x 16" Stone/Ceramic Wall and Floor Tile Thin Set and Grout**



**HA-11: Gray Concrete Floor and Foundation Walls**



**HA-12: Black Asphalt Roof**  
**HA-13: Black Tar Paper under HA-12**



**HA-14: White Window Caulk**  
**HA-17: White Sealant/Caulk**



**HA-15: Black Asphalt Roof Shingle**  
**HA-16: Black Tar Paper under HA-15**

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