

ASBESTOS SURVEY REPORT

PTB 196-032

Asbestos Survey for Building Demolition (I-80)

601 S. Des Plaines Street, Joliet, Illinois

Region One/District One

Prepared for:



**Illinois Department of Transportation
District 1**

Submitted to:

**WSP USA
30 N. LaSalle Street
Chicago, IL, 60602**

Prepared by:



GSG CONSULTANTS, INC.
735 Remington Road, Schaumburg IL 60173
Tel: 630.994.2600, www.gsg-consultants.com

December 11, 2024



December 11, 2024


David Skaleski, P.E.
Project Manager
WSP USA
30 N. LaSalle Street, Suite 4200
Chicago, Illinois 60602


Asbestos Survey Report
PTB 198-003
FAI-80 (I-80) over Des Plaines River Bridge
Job N. D-91-204-19
601 S. Des Plaines Street, Joliet, IL
Parcel No. 1P10150

Dear Mr. Skaleski:

GSG Consultants Inc has conducted an Asbestos Survey for the above referenced property in accordance with our contractual agreement. The report provides a description of the site, survey methodology, analytical results, abatement cost estimates, and recommendations.

Should you have any questions or require additional information, please call us at 630-994-2600.

Prepared by:  December 11, 2024
Erin Pahomi
Asbestos Building Inspector
Inspector License No: 100-20674
Date

Reviewed By:  December 11, 2024
Thaddeus Cagney, LPG
Senior Project Manager
Date


QA Manager:  December 11, 2024
Ala E Sassila, Ph.D., PE
Date



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ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-Containing Materials
ACBM	Asbestos-Containing Building Materials
AHERA	Asbestos Hazard Emergency Response Act
CFR	Code of Federal Regulations
COC	Chain of Custody
GSG	GSG Consultants, Inc.
IDOT	Illinois Department of Transportation
IDPH	Illinois Department of Public Health
NESHAP	National Emissions Standards for Hazardous Air Pollutant
NVLAP	National Voluntary Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PLM	Polarized Light Microscopy
RACM	Regulated Asbestos-Containing Material
TSI	Thermal System Insulation
USEPA	United States Environmental Protection Agency



SURVEY SUMMARY

SITE INFORMATION			
FAP Route:	FAI-80 (I-80)	Address:	601 S. Des Plaines Street
County:	Will	City, State, Zip	Joliet, IL 60433
Section:	N/A	Property Type:	Single-Family Residential
IDOT Job No.	D-91-204-19	Construction Date:	N/A
Parcel No.	1P10150	Building Size:	530 SF

ASBESTOS CONTAINING MATERIALS	
Survey Date:	November 21, 2024
Weather Conditions:	31°F, Snow
By Whom: Firm: Inspector: IDPH License No.	GSG Consultants, Inc Tim Walsh 100-08900
Results:	Number of Material Types Sampled <u>13</u> Number of Samples Collected: <u>39</u> Number of Materials Tested Positive: <u>0</u> Was Friable ACM Found? <u>No</u> Were Roofing Materials Sampled? <u>Yes</u> (except chimney) Are There Unique State or Local Requirements? <u>No</u>
Laboratory Used:	Name: Sterling Labs Address: 2242 W. Harrison Street, Chicago, Illinois NVLAP: 101202-0
Building Access Limitations:	Unable to safely access chimney and the attic was inaccessible during inspection.

**Asbestos Survey Report****Survey Summary****601 S. Des Plaines Street, Joliet, IL****ASBESTOS-CONTAINING MATERIALS (ACM) SURVEY RESULTS:****Parcel No. 1P10150****Residential Property****601 S. Des Plaines Street, Joliet, Illinois**

Table 1 provides a list of the homogeneous building material types that were sampled as part of the asbestos survey and the laboratory testing results.

HA No.	Material Description	Location	Type ⁽¹⁾	Condition	Friable	% Asbestos*	# of Samples	Estimated Quantity ⁽²⁾
1	Tan & Light Brown Linoleum	Kitchen & Bathroom	Misc.	Good	No	ND	3	N/A
2	12"x12" White w/ Tan Floor Tile	South Entrance and Bathroom	Misc.	Good	No	ND	3	N/A
3	12"x12" White w/ Tan Floor Tile Mastic	South Entrance and Bathroom	Misc.	Good	No	ND	3	N/A
4	12"x12" White w/ Blue Floor Tile	South Entrance	Misc.	Good	No	ND	3	N/A
5	12"x12" White w/ Blue Floor Tile Mastic	South Entrance	Misc.	Good	No	ND	3	N/A
6	Felt Vapor Barrier Floor	Kitchen	Misc.	Good	No	ND	3	N/A
7	Drywall System	Throughout	Misc.	Good	No	ND	3	N/A
8	Plaster	Throughout	Surf.	Good	No	ND	3	N/A
9	1'x1' Ceiling Tile - White	Bedrooms & Living Rooms	Misc.	Good	No	ND	3	N/A
10	Siding	Exterior	Misc.	Good	No	ND	3	N/A
11	Window Caulk	Exterior	Misc.	Good	No	ND	3	N/A
12	Window Glazing	Exterior	Misc.	Good	No	ND	3	N/A
13	Roofing Material	House & Garage Roofs	Misc.	Good	No	ND	3	N/A
14	Chimney Brick	Roof	Misc.	Good	No	ASSUMED	N/A	40 SF
15	Chimney Flashing	Roof	Misc.	Good	No	ASSUMED	N/A	5 LF
Total Estimated Quantity of ACM								40 SF/ 5 LF

(1) TSI= Thermal System Insulation, Surf. = Surfacing Material, and Misc. = Miscellaneous.

(2) Quantities are estimates only, all quantities must be field verified.

1.0 INTRODUCTION

GSG Consultants Inc. (GSG) conducted an Asbestos Survey at Parcel No. 1P10150 located at 601 S. Des Plaines Street in Joliet, Illinois. The site is improved with a one-story, single-family house with an attic, basement, and a detached garage. The house is approximately 530 square feet in size with an asphalt shingled roof. The interior walls and ceilings are drywall, plaster, and ceiling tile and the floors are wood and floor tile. The building exterior is masonry and wood siding. The attic was inaccessible during the time of the inspection. Any suspect materials that are discovered in the attic during the project activities and are not listed in **Table 1**, were not tested during this survey. Such materials shall be assumed and treated as ACM until tested and proven otherwise.

GSG conducted the asbestos survey to satisfy requirements of the United States Environmental Protection Agency (USEPA) regulations under 40 CFR Part 61, Subpart M of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and applicable state and local 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.

The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during GSG's survey of the project area. The information contained in this report represents conditions at the time of the survey and may not accurately represent conditions at a later date. The conclusions in this report are based on conditions observed in accessible areas of the project area. The possibility exists that suspect hazardous building materials or conditions may exist within wall cavities, voids, or other areas hidden from view which were not observed and cannot be ruled out. Any additional potential hazardous building materials encountered that will be disturbed during the demolition activities and that differ from the materials assessed during this survey, were hidden from view, or were located in an area not accessible will require further sampling and analysis prior to disturbance. The estimated quantities provided herein should be considered approximate and are accurate to the extent allowable under the terms and conditions of our contract. This report has been prepared with generally accepted industry practices and procedures. No other warranty, either expressed or implied, is made.

The investigation did not include access or inspection of confined spaces, underground piping, conduits, and building footings, if any. Materials associated with electrical components and energized equipment were not safely accessible and were not sampled.

2.0 SURVEY METHODOLOGY

The asbestos survey was conducted 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. NESHAP regulations defined regulated asbestos-containing material (RACM) as a friable asbestos material, a Category I non-friable ACM that has become friable, a Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces acting on it during demolition or renovation. The materials were then classified with regard to whether they are friable or non-friable and classified as Class I or Class II non-friable materials, using the following definitions.

- **Friable:** NESHAP defines a friable ACM as any material containing more than one percent (1%) asbestos, which, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously non-friable material where previously non-friable material becomes damaged to the extent that it may be crumbled, pulverized, or reduced to powder by hand pressure.
- **Category I Non-friable ACM:** NESHAP defines a Category I non-friable ACM as packing, gaskets, resilient floor covering (except vinyl sheet flooring products that are considered friable), and asphalt roofing products that contain more than one (1) percent asbestos as determined using the method specified in **Appendix A**, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy
- **Category II Non-friable ACM:** means any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos as determined using the methods specified in **Appendix A**, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The survey consisted of three major activities: visual inspection, sampling, and quantification of building materials. A brief description of each of the above elements is provided in the following sections.

2.1 Visual Inspection

The inspector conducted an initial building walkthrough to determine the presence and condition of suspect asbestos-containing materials (ACMs) that were accessible and/or exposed. The survey consisted of accessing accessible areas of the buildings to identify and quantify regulated RACM. The inspector identified homogeneous areas (HA) comprised of building materials that appear similar throughout in terms of color and texture and assumed date of installation. Materials that were similar in general appearance were grouped into homogeneous sampling areas. Following the EPA inspection protocol, each identified suspect homogeneous material was placed in one of the following EPA classifications:

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

2.2 Sampling procedures

The asbestos inspector collected a representative number of samples from each HA. Building materials identified as concrete (not including cement panels or pipe and soft concrete), glass (including fiberglass), wood, masonry, metal, and plastic are not considered suspect ACM and were not sampled. The survey included destructive, intrusive, and/or exploratory testing unless specifically prohibited by IDOT. Destructive sampling is performed to identify materials that are concealed or obstructed. Concealed 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. Bulk samples of suspect ACM were collected in general accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling protocols, based on the results of the visual observation. Random samples of suspect materials were collected of each HA.

A total of 39 bulk samples of suspect ACM, three (3) samples for each of the 13 homogeneous areas, were collected from various homogeneous areas of the buildings. Bulk samples were collected from the following materials/homogeneous area(s):

- Tan & Light Brown Linoleum
- 12"x12" White with Tan Floor Tile & Mastic
- 12"x12" White with Blue Floor Tile & Mastic
- Felt Vapor Barrier
- Drywall System
- Plaster
- 1'x1' White Ceiling Tile
- Exterior Siding
- Exterior Window Caulk
- Exterior Window Glazing
- Roofing Material
- **Chimney Brick & Flashing (Assumed)**

Exhibit 1, Suspect ACM Sample Locations, shows the approximate locations of the suspect ACM collected during the field survey. Samples were placed in new sealable containers and labeled with unique sample numbers using an indelible marker. All non-disposable sampling equipment was wet-wiped and cleaned before and after each use. Bulk material samples were collected in 4-milliliter plastic bags, and tightly sealed for transport to the laboratory. Bulk samples were submitted under a chain-of-custody (COC) protocol to Sterling Labs in Chicago, Illinois.

2.3 Quantification

The inspector estimated the quantities of accessible and/or exposed materials that were suspected of containing asbestos using a measuring wheel and/or visual estimation. Actual quantities may differ between visually estimated values and physical measurements. The asbestos abatement contractor is responsible for verifying

reported quantities of ACM.

3.0 ANALYTICAL RESULTS

3.1 Testing Procedures

Sterling Lab analyzed the bulk samples using polarized light microscopy (PLM) method with dispersion staining techniques per USEPA methodology “Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, July 1993”. This is a standard method of analysis in optical mineralogy and the currently accepted method for the determination of asbestos in bulk samples. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The characteristic color displays which enable mineral identification. It should be noted that some ACM may not be accurately identified and/or quantified by PLM. The percentage of asbestos applicable was determined by microscopic visual estimation. Sterling analyzed each layer of each sample, which means if multiple layers are detected in the same sample (i.e., roof field), each layer was analyzed, and a separate result was provided for each layer. If any of the sample results from a homogeneous group had a positive result, that homogeneous group was considered to be ACM. Sterling Labs is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation Number 101202-0). Refer to **Appendix D** for laboratory accreditations.

It should be noted that some ACMs might not be accurately identified and/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 methods. Transmission Electron Microscopy (TEM) is required for a more definitive analysis of these materials. This survey revealed the presence of floor tiles with less than 1% asbestos via PLM analysis. GSG recommends additional analysis by TEM as described above and recommended by the Illinois Department of Public Health.

3.2 Findings

GSG identified a total of 13 HAs from which 39 samples were collected and analyzed. Results are summarized in **Table 1** and include a description of each material, location, material type, test results, and estimated quantity. Materials indicated to have a “negative” result were confirmed by PLM analysis to be non-asbestos-containing. The laboratory results are provided in **Appendix A** and reference photographs are included in **Appendix B**. 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 laboratory reported that asbestos was Not Detected (ND) in each of the bulk samples collected by GSG. Suspect ACM that were observed but were inaccessible for sampling at the time of the survey, and therefore **assumed ACM** include the following: **chimney brick and chimney flashing**. These materials will remain assumed until sampling can occur. Please refer to **Table 1** for a list of materials that were sampled for asbestos. **Exhibit 2, ACM Locations**, shows the approximate locations of assumed ACMs present in the building.

Additionally, the attic was inaccessible during the time of the inspection. Any suspect materials that are discovered in the attic during the project activities and are not listed in **Table 1**, were not tested during this survey. Such materials shall be assumed and treated as ACM until tested and proven otherwise.

4.0 RECOMMENDATIONS

GSG understands that the residential property will be demolished as part of the I-80 improvement project. ACMs identified at the site must be removed/managed in accordance with all federal, state, and local regulations governing asbestos. ACMs abatement and management are subject to the US Environmental Protection Agency (USEPA), the Occupational and Health Administration (OSHA), Illinois Department of Public Health (IDPH), the Illinois Environmental Protection Agency (Illinois EPA), and other applicable Federal, State, and Local Government regulations. The following regulations governing asbestos removal and disposal:

1. U.S. Environmental Protection Agency Regional National Emissions Standards for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart A and M).
2. U.S. Department of Transportation "Hazardous Substances Final Rule" 49 CFR 171 and 172, November 21, 1986, February 17, 1987.
3. U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Asbestos Regulations (Code of Federal Regulations Title 29, Part 1910, Section 1910.1001 and Part 1926, Section 1926.1101).
4. State of Illinois, Commercial and Public Building Asbestos Abatement Act. Illinois Department of Public Health, Rules for Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings in Illinois (77 IL Admin. Code 855).

All friable asbestos-containing building materials (ACBMs) identified shall be removed from any building(s) or other structures before demolition. Non-friable ACMs may be left in place, unless during demolition, the ACMs may become friable. If other suspect materials not referenced in this survey report, within or on the outside of the buildings, are identified, not listed in **Table 1**, such materials shall be assumed ACMs until the materials are inspected by a licensed asbestos inspector, sampled, and submitted for laboratory analysis. As the floor tile identified as asbestos containing is a Category I non-friable material which is not likely to become friable during demolition, it does not need to be removed prior to demolition.

GSG recommends the preparation of an asbestos abatement project design before any demolition. An asbestos abatement design plan and specifications should include information regarding the location of containments and barriers, type of sealant, and air sampling requirements and clearance during the asbestos abatement activities. The asbestos design plan and specifications shall be prepared and signed by an IDPH licensed asbestos project designer following Illinois regulations. Before starting any abatement activities, an Asbestos Abatement notification is required for all asbestos projects and must be applied for at least ten (10) working days before the start of the project. A building demolition notification is required for all demolition projects and must be applied for at least ten (10) working days before the start of the project.

Abatement and Emergency Response shall be conducted only by IDPH licensed asbestos abatement contractor(s) under the supervision of a licensed asbestos project manager in accordance with all applicable federal, state, and local regulations. Workers who abate or manage asbestos must receive the proper training and licensing. OSHA prescribes required personnel monitoring including air monitoring and medical monitoring (ref 29 CFR 1926.1101). Personnel protective equipment and procedures are also required.

All asbestos waste generated from the required pre-demolition removal activities during the project must be wetted before it is double bagged in 6-millimeter plastic bags and enclosed in a plastic, leak-tight container with a lid and proper labeling. Discharge no visible emissions to the outside air during the collection, processing, packaging, or transporting of any asbestos-containing waste material. Asbestos waste is a “special waste” in Illinois. Asbestos-containing waste can only be disposed of in Subtitle D landfills that are designated to receive asbestos waste.

5.0 LIMITATIONS


This report has been prepared for the exclusive use of the Illinois Department of Transportation (IDOT) and its Design Section Engineer consultant. GSG warrants that the investigations and methodology reflect our best efforts based upon the prevailing standard of care in the environmental field. This assessment was limited to those materials which were readily visible and with limited demolition and removal of building components. Additional suspect materials may be located behind walls and ceilings. The survey is subject to the following limitations.

- The investigation did not include sampling on any system which may present a hazard to the inspection team such as energized electrical systems or within confined spaces
- Materials associated with electrical components and energized equipment were not safely accessible and were not sampled.
- Estimated quantities of the ACMs are based on observations during the field survey and additional materials may be concealed or were not accessible. Therefore, all estimated quantities shall be field verified by the abatement contractor.

6.0 CERTIFICATION

The undersigned hereby affirm that the conditions described herein are accurate to the best of our knowledge and belief and are subject to the limitations inherent in the investigative techniques used and any expressed limitations of this survey. Applicable licensing to perform the described survey activities was valid at the time of performance of services in accordance with applicable federal, state and local laws, rules, and regulations.

Inspection Performed By:

<u>Tim Walsh</u>	<u>100-08900</u>
Asbestos Inspector's Name	IDPH License Number
<u></u>	<u>12.11.2024</u>
Asbestos Inspector's Signature	Date

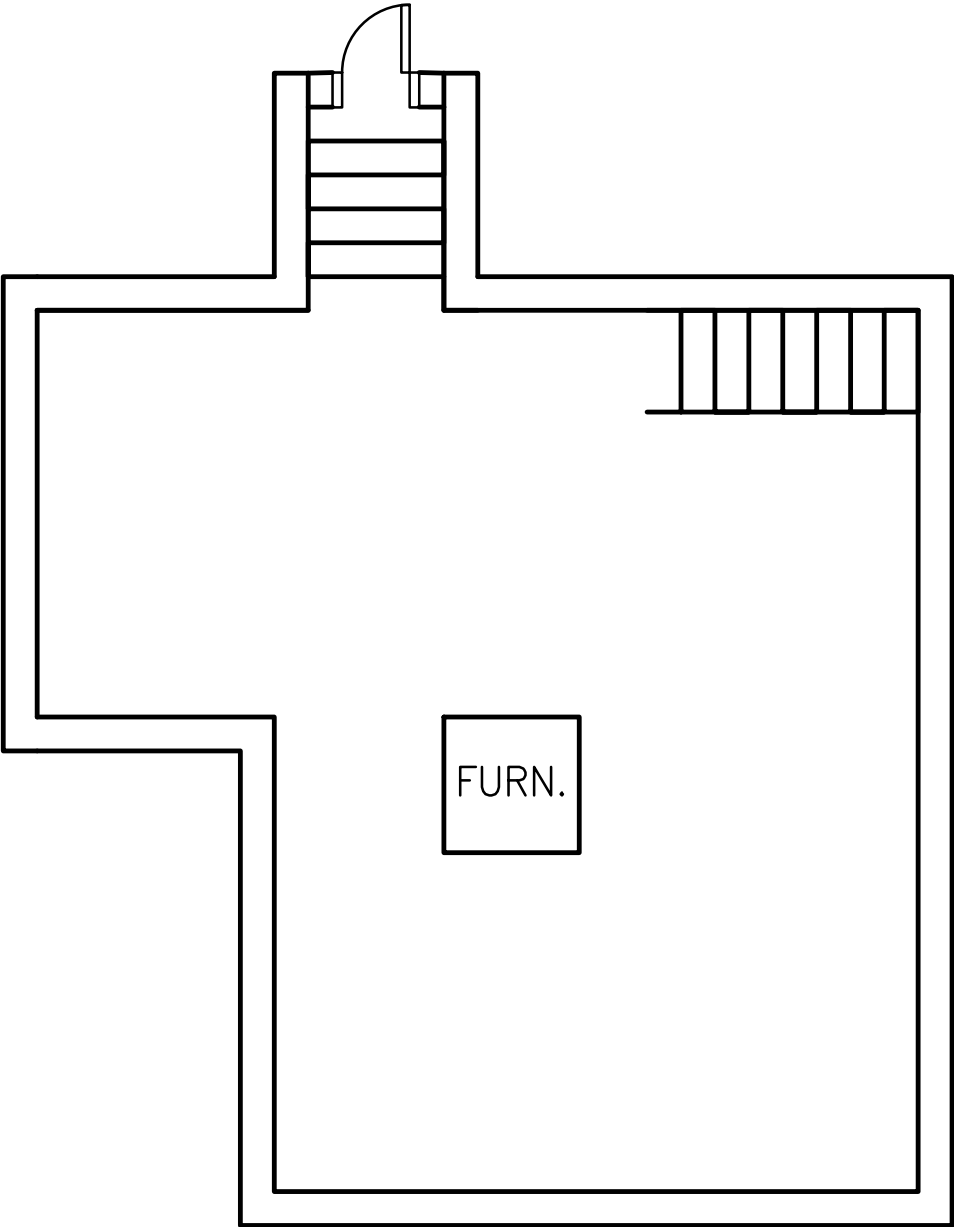
EXHIBITS

Exhibit 1	Suspect ACM Sample Location Plans
Exhibit 2	Asbestos-Containing Materials Location Plan

EXHIBIT 1

SL-1, SL-2, and SL-3 Suspect ACM Sample Location Plans

BASEMENT
SCALE = N.T.S.



*NO SUSPECT ACM WAS SAMPLED IN THE BASEMENT

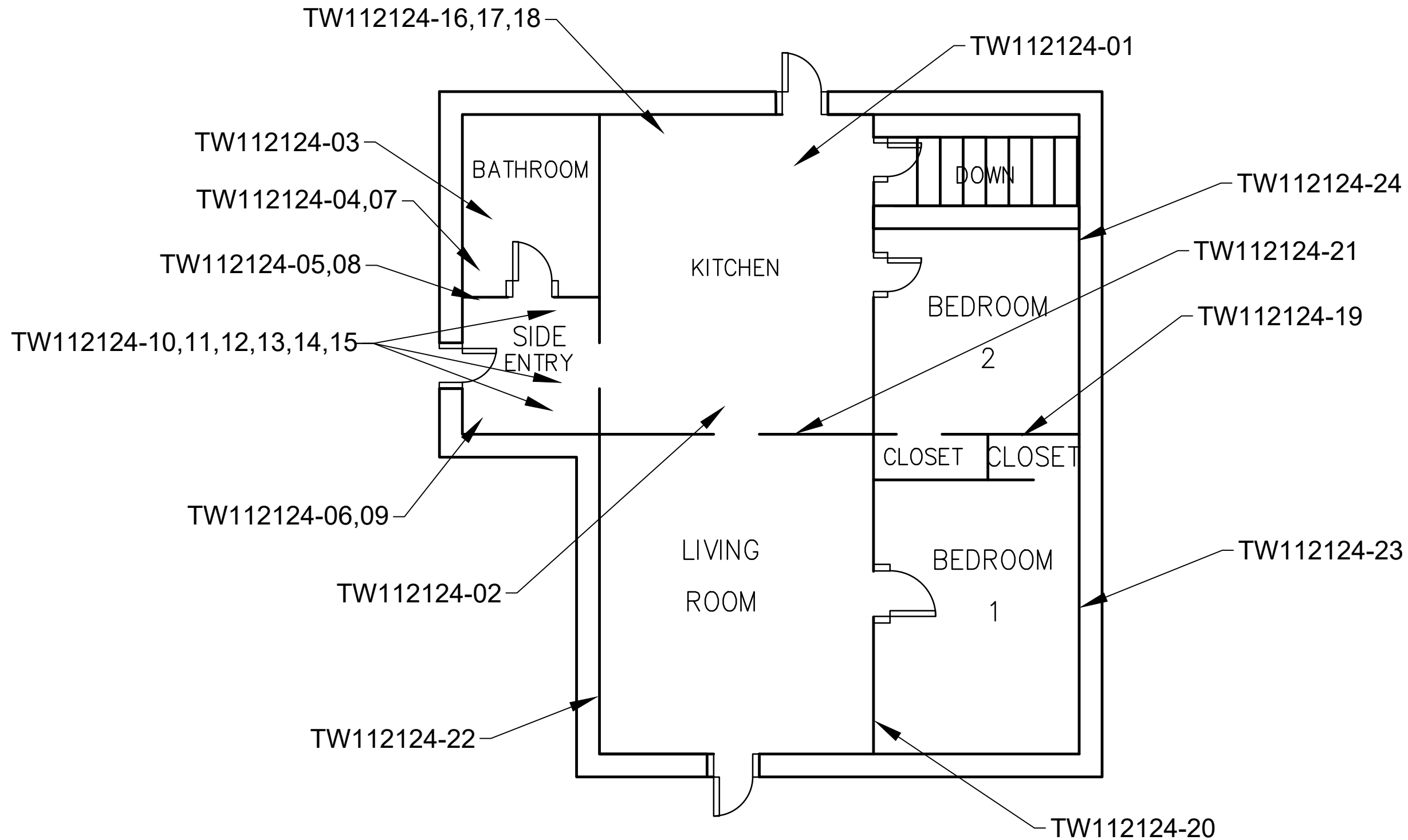
SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)
601 DES PLAINES STREET
JOLIET, IL 60433



DRAWN BY:	PROJECT:
MN	21-2007
CHECKED BY:	SCALE:
TC	NTS
DATE:	SHEET #:
12/4/2024	1 OF 4
SHEET NAME:	

SL-1



FIRST FLOOR
SCALE = N.T.S.



LEGEND

SUSPECT ACM SAMPLE LOCATIONS: TW112124-XX
BATCH NUMBER: 373051

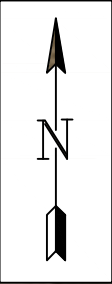
SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE LOCATION PLAN

I80
611 DES PLAINES STREET,
JOLIET, IL 60436

GSG CONSULTANTS, INC.
735 E REMINGTON RD, SCHWARTZ, IL 60173
TEL: 815.351.1100 FAX: 815.351.1101
ILLINOIS PROFESSIONAL DESIGN FIRM #14-00282

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MN	21-2007
CHECKED BY:	SCALE:
TC	NTS
DATE:	SHEET #:
12/4/2024	2 OF 4
SHEET NAME:	

SL-2



SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)
601 DES PLAINES STREET
JOLIET, IL 60433



DRAWN BY:	PROJECT:
MN	21-2007
CHECKED BY:	SCALE:
TC	NTS
DATE:	SHEET #:
12/4/2024	3 OF 4
SHEET NAME:	

SL-3

LEGEND

SUSPECT ACM SAMPLE LOCATIONS: TW112124-XX
BATCH NUMBER: 373051

EXHIBIT 2

ACM-1 ACM Location Plan



LEGEND

LOCATIONS OF ASSUMED ASBESTOS-CONTAINING MATERIALS

CHIMNEY BRICK

CHIMNEY FLASHING

ASBESTOS-CONTAINING MATERIALS LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)
601 DES PLAINES STREET
JOLIET, IL 60433

GSG

GSG CONSULTANTS, INC.

735 E REMINGTON RD, SUITE 100, JOLIET, IL 60433

TEL: 815/741-1111 FAX: 815/741-1112

ILLINOIS PROFESSIONAL DESIGN FRANK BAPOZZESE

DRAWN BY:	PROJECT:
MN	21-2007
CHECKED BY:	SCALE:
TC	NTS
DATE:	SHEET #:
12/4/2024	4 OF 4
SHEET NAME:	
ACM-3	

APPENDIX A

Analytical Testing Results

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

GSG Consultants, Inc.
735 Remington Road
Schaumburg, IL 60173
Phone: (630) 994-2600
Fax: (312) 733-5612

Reference:

Location: 601 Des Plaines
Batch No.: 373051
Customer No.: 4651

Date Received: 11/22/2024

Date Analyzed: 11/26/2024

Date Reported: 11/26/2024

Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
373051001	TW112124-1	ND	Binder 95-99% Glass 1-5%
373051002	TW112124-2	ND	Binder 95-99% Glass 1-5%
373051003	TW112124-3	ND	Binder 95-99% Glass 1-5%
373051004	TW112124-4	ND	Binder 99-100%
373051005	TW112124-5	ND	Binder 99-100%
373051006	TW112124-6	ND	Binder 99-100%
373051007	TW112124-7	ND	Binder 99-100%
373051008	TW112124-8	ND	Binder 99-100%
373051009	TW112124-9	ND	Binder 99-100%
373051010	TW112124-10	ND	Binder 99-100%
373051011	TW112124-11	ND	Binder 99-100%
373051012	TW112124-12	ND	Binder 99-100%
373051013	TW112124-13	ND	Cellulose 5-10% Binder 90-95%
373051014	TW112124-14	ND	Cellulose 5-10% Binder 90-95%

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).

Analyzed by Name :

Zineb Nasri / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

GSG Consultants, Inc.
735 Remington Road
Schaumburg, IL 60173
Phone: (630) 994-2600
Fax: (312) 733-5612

Reference: Date Received: 11/22/2024
Location: 601 Des Plaines Date Analyzed: 11/26/2024
Batch No.: 373051 Date Reported: 11/26/2024
Customer No.: 4651 Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
373051015	TW112124-15	ND	Cellulose 5-10% Binder 90-95%
373051016	TW112124-16	ND	Cellulose 80-85% Binder 15-20%
373051017	TW112124-17	ND	Cellulose 80-85% Binder 15-20%
373051018	TW112124-18	ND	Cellulose 80-85% Binder 15-20%
373051019	TW112124-19	ND	Cellulose 1-5% Binder 95-99%
373051020	TW112124-20	ND	Cellulose 1-5% Binder 95-99%
373051021	TW112124-21	ND	Cellulose 1-5% Binder 95-99%
373051022	TW112124-22	ND	Cellulose 1-5% Binder 95-99%
373051023	TW112124-23	ND	Cellulose 1-5% Binder 95-99%
373051024	TW112124-24	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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Analyzed by Name :

Zineb Nasri / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

GSG Consultants, Inc.
735 Remington Road
Schaumburg, IL 60173
Phone: (630) 994-2600
Fax: (312) 733-5612

Reference:

Location: 601 Des Plaines
Batch No.: 373051
Customer No.: 4651

Date Received: 11/22/2024
Date Analyzed: 11/26/2024
Date Reported: 11/26/2024
Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
373051025	TW112124-25	ND	Cellulose 95-99% Binder 1-5%
373051026	TW112124-26	ND	Cellulose 95-99% Binder 1-5%
373051027	TW112124-27	ND	Cellulose 95-99% Binder 1-5%
373051028	TW112124-28	ND	Cellulose 95-99% Binder 1-5%
373051029	TW112124-29	ND	Cellulose 95-99% Binder 1-5%
373051030	TW112124-30	ND	Cellulose 95-99% Binder 1-5%
373051031	TW112124-31	ND	Cellulose 1-5% Binder 95-99%
373051032	TW112124-32	ND	Cellulose 1-5% Binder 95-99%
373051033	TW112124-33	ND	Cellulose 1-5% Binder 95-99%
373051034	TW112124-34	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).

Analyzed by Name :


Zineb Nasri / Microscopist

Date: 11/26/2024

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

GSG Consultants, Inc.
735 Remington Road
Schaumburg, IL 60173
Phone: (630) 994-2600
Fax: (312) 733-5612

Reference:

Location: 601 Des Plaines
Batch No.: 373051
Customer No.: 4651

Date Received: 11/22/2024

Date Analyzed: 11/26/2024

Date Reported: 11/26/2024

Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
373051035	TW112124-35	ND	Cellulose 1-5% Binder 95-99%
373051036	TW112124-36	ND	Cellulose 1-5% Binder 95-99%
373051037	TW112124-37	ND	Binder 85-90% Glass 10-15%
373051038	TW112124-38	ND	Binder 85-90% Glass 10-15%
373051039	TW112124-39	ND	Binder 85-90% Glass 10-15%


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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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).

Analyzed by Name :


Zineb Nasri / Microscopist



GSG CONSULTANTS, INC.

Engineering and Industrial Hygiene Services

735 Remington Road

Schaumburg, IL 60173

(630) 994-2600 Fax: (312) 733-5612

www.gsg-consultants.com

373651

Page 1 of 3

PLM BULK LABORATORY ANALYSIS FORM

Project Name: 601 Des Plaines		Project Manager:	
Project Number:		Building Inspector:	
Project Address:		IDPH Number:	
City/ State:		Work Day: S M T W TH F S	
Client:		Analyze by Method:	
Date: 11/21/24		EPA/600/R-93-116	

Field Number	HA Number	Type of material, specific sample location (i.e. Room Number, Building Construction Date)
TW112124 - 1	HA-1	Tan & Lt. Brown Linoleum
-2	1	- Kitchen & Bathroom
-3	1	
-4	HA-2	12x12 White w/ Tan F.T.
-5	1	South Entrance & Bathroom
-6	1	
-7	HA-4	Mastic
-8	1	
-9	1	
-10	HA-5	12x12 White w/ Blue F.T.
11	1	South Entrance
12	1	
13	HA-6	Mastic
14	1	
15	1	

TURN AROUND TIME:	1 Day 2 Days <u>3 Days</u>	COMMENTS: E-mail Results to: epahomi@gsg-consultants.com
(5 Day) Other		STOP AT FIRST POSITIVE

CHAIN OF CUSTODY RECORD

Collected By (Signature) <i>Tim Wabbe</i>	Date: 11/21/24	Time:	Relinquished by (Signature) <i>Tim Wabbe</i>	Date: 11/22/24	Time: 9:27
Received by: (Signature)	Date:	Time:	Relinquished by: (signature)	Date:	Time:
Dispatched by: (Signature, if mailed)	Date:	Time:	Received for Laboratory by: <i>[Signature]</i>	Date: 11/22/24	Time: 9:27

Definitions: BLK-Bulk Sample, PLM-Polarized Light Microscopy, TEM-Transmission Electron Microscope.



GSG CONSULTANTS, INC.

Engineering and Industrial Hygiene Services

735 Remington Road

Schaumburg, IL 60173

(630) 994-2600 Fax: (312) 733-5612

www.gsg-consultants.com

373051

Page 2 of 2

PLM BULK LABORATORY ANALYSIS FORM

Project Name: <u>601 Des Plaines</u>		Project Manager:
Project Number:		Building Inspector:
Project Address:		IDPH Number:
City/ State:		Work Day: S M T W TH F S
Client:		Analyze by Method:
Date: <u>11/21/24</u>		EPA/600/R-93-116

Field Number	HA Number	Type of material, specific sample location (i.e. Room Number, Building Construction Date)
<u>TW112124-16</u>	<u>HA-6</u>	<u>Felt Vapor Barrier Floor Kitchen</u>
<u>17</u>	<u>1</u>	<u>1</u>
<u>18</u>	<u>1</u>	<u>1</u>
<u>19</u>	<u>HA-7</u>	<u>Dry wall System Throughout</u>
<u>20</u>	<u>1</u>	<u>1</u>
<u>21</u>	<u>1</u>	<u>1</u>
<u>22</u>	<u>HA-8</u>	<u>Plaster</u>
<u>23</u>	<u>1</u>	<u>1</u>
<u>24</u>	<u>1</u>	<u>1</u>
<u>25</u>	<u>HA-9</u>	<u>1X1 Ceiling Tile - White</u>
<u>26</u>	<u>1</u>	<u>Bedrooms & Living Room</u>
<u>27</u>	<u>1</u>	<u>1</u>
<u>28</u>	<u>HA-10</u>	<u>W Siding - Exterior</u>
<u>29</u>	<u>1</u>	<u>1</u>
<u>30</u>	<u>1</u>	<u>1</u>

TURN AROUND TIME: 1 Day 2 Days <u>3 Days</u> (5 Day) Other	COMMENTS: E-mail Results to: epahomi@gsg-consultants.com STOP AT FIRST POSITIVE
---	---

CHAIN OF CUSTODY RECORD

Collected By (Signature): <u>Tim White</u>	Date: <u>11/21/24</u>	Time:	Relinquished by (Signature): <u>Tim White</u>	Date: <u>11/22/24</u>	Time: <u>9:27</u>
Received by: (Signature)	Date:	Time:	Relinquished by: (signature)	Date:	Time:
Dispatched by: (Signature, if mailed)	Date:	Time:	Received for Laboratory by: <u>Tim White</u>	Date: <u>11/22/24</u>	Time: <u>9:27</u>

Definitions: BLK-Bulk Sample, PLM-Polarized Light Microscopy, TEM-Transmission Electron Microscope.

PLM BULK LABORATORY ANALYSIS FORM

Project Name: 601 Des Plaines		Project Manager:	
Project Number:		Building Inspector:	
Project Address:		IDPH Number:	
City/ State:		Work Day: S M T W TH F S	
Client:		Analyze by Method: EPA/600/R-93-116	
Date: 11/21/24			
Field Number	HA Number	Type of material, specific sample location (i.e. Room Number, Building Construction Date)	
TA 11/21/24 - 31	HA-11	Window Caulk - Exterior	
32			
33			
34	HA-12	Window Glazing - 11 windows	
35			
36			
37	HA-13	Roofing Material House & Garage	
38			
39			
		No Access to Attic	
		Chimney Brick, Caulking, Flashing Inaccessible	
TURN AROUND TIME:		COMMENTS: E-mail Results to: epahomi@gsg-consultants.com	
1 Day 2 Days 3 Days		STOP AT FIRST POSITIVE	
(5 Day) Other			

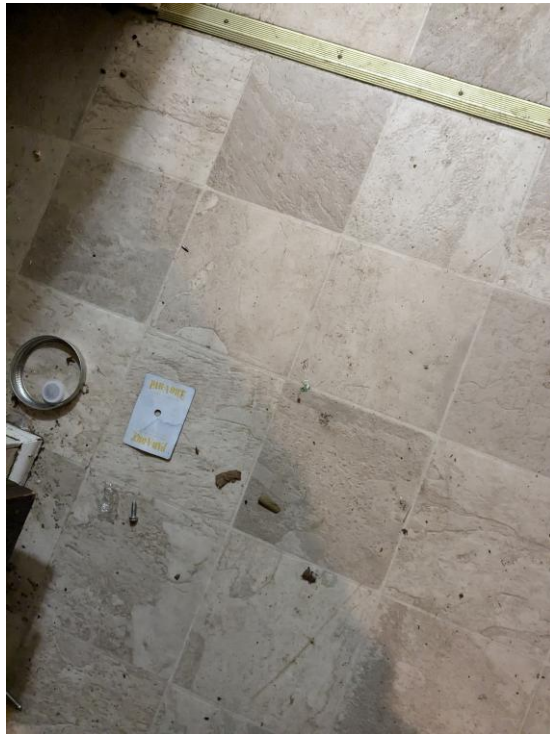
CHAIN OF CUSTODY RECORD

CHAIN OF CUSTODY RECORD					
Collected By(Signature) <i>Jim Wald</i>	Date: <i>11/21/24</i>	Time:	Relinquished by (Signature) <i>Jim Wald</i>	Date: <i>11/22/24</i>	Time: <i>9:27</i>
Received by: (Signature)	Date:	Time:	Relinquished by: (signature)	Date:	Time:
Dispatched by: (Signature, if mailed)	Date:	Time:	Received for Laboratory by: <i>[Signature]</i>	Date: <i>11/22/24</i>	Time: <i>9:27</i>

Definitions: BLK-Bulk Sample, PLM-Polarized Light Microscopy, TEM-Transmission Electron Microscope.

APPENDIX B

Reference Photographs



Material Description:
Suspect ACM Tan with Light Brown Linoleum

Photo Location:
Kitchen

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM 12"x12" White with Tan Floor Tile and Mastic and Suspect ACM Felt Vapor Barrier

Photo Location:
South Entrance

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM 12"x12" White
with Blue Floor Tile and
Mastic

Photo Location:
South Entrance

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM Drywall
System

Photo Location:
Bedroom

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM Plaster

Photo Location:
Living Room

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM 1"x1" White
Ceiling Tile

Photo Location:
Bedroom

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM Exterior Siding

Photo Location:
Exterior

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM Window Caulk

Photo Location:
Exterior

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM Window
Glazing

Photo Location:
Exterior

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24



Material Description:
Suspect ACM Roofing
Material

Photo Location:
Roof

**ILLINOIS DEPARTMENT OF
TRANSPORTATION
I-80 OVER DES PLAINES RIVER BRIDGE
IMPROVEMENTS**



GSG Consultants, Inc.
735 Remington Road
Schaumburg, Illinois 60173

Date: 11/21/24

APPENDIX C

Inspector Licenses and Training Certifications



**ASBESTOS
PROFESSIONAL
LICENSE**

ID NUMBER
100 - 08900

ISSUED
3/1/2024

EXPIRES
05/15/2025

TIMOTHY WALSH
15237 LAPORTE AVE
OAK FOREST, IL 60452

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR

1/27/2025

PROJECT MANAGER
AIR SAMPLING PROFESSIONAL

8/30/2024

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.

APPENDIX D

Laboratory Accreditations

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

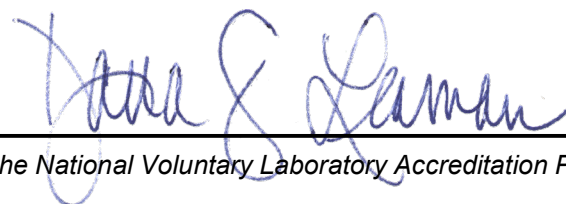
*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

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



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

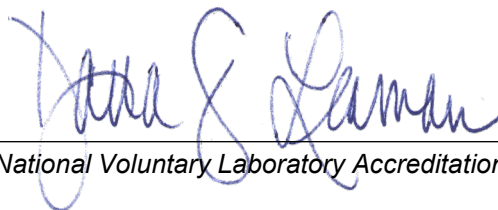
Airborne Asbestos Analysis

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