

Asbestos Survey and Lead-Based Paint Sampling Report

SIUE Health Sciences Building 200

200 University Park Drive

Edwardsville, IL

September 1, 2021

Terracon Project No. 15217051



Prepared for:

HOK Inc

St. Louis, Missouri

Prepared by:

Terracon Consultants, Inc.

St. Louis, Missouri

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials



September 1, 2021

HOK Inc
10 South Broadway, Suite 200
St. Louis, Missouri 63102

Attn: Ms. Barb Anderson-Kerlin
(314) 754-4013
Barb.anderson-kerlin@hok.com

Re: Asbestos Survey and Lead-Based Paint Sampling Report
SIUE Health Sciences Building 200
200 University Park Drive
Edwardsville, Illinois
Terracon Project No. 15217051

Dear Ms. Anderson-Kerlin:

Terracon Consultants, Inc. (Terracon) is pleased to present the results of the asbestos survey and lead-based paint sampling conducted at the above referenced site on August 16 through 18, 2021. The services were conducted in accordance with our proposal dated March 3, 2021.

Asbestos was identified in samples collected during the August 16 through 18, 2021 survey.

Lead was not identified above the laboratory reporting limits in samples collected during the August 16 through 18, 2021 survey.

Please refer to the attached report for details. We appreciate the opportunity to perform these services for HOK Inc. Please contact the undersigned at (314) 569-9367 if you have questions regarding the information provided in this report.

Sincerely,
Terracon Consultants, Inc.

Shannon Starr

Shannon Starr
Field Scientist

A handwritten signature in blue ink, appearing to read "Eric Schatz", is positioned above the printed name and title.

Eric Schatz, CIH
Group Manager – Asbestos and
Industrial Hygiene Services



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ASBESTOS SURVEY AND LEAD-BASED PAINT SAMPLING REPORT

SIUE HEALTH SCIENCES BUILDING 200

EDWARDSVILLE, ILLINOIS

Terracon Project No. 15217051
September 1, 2021

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted an asbestos survey and lead-based paint sampling of the SIUE Health Sciences Building 200 in preparation for the upcoming renovation or demolition activities of the building. The services were conducted by a State of Illinois licensed asbestos inspector and Illinois Department of Public Health licensed lead risk assessor in accordance with our proposal dated March 3, 2021. The project objectives are based upon information required to communicate for compliance with the following summarized requirements:

- The United States Environmental Protection Agency (USEPA) regulation 40 Code of Federal Regulations (CFR) 61-National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart M-Asbestos prohibits the release of asbestos fibers to the atmosphere during renovation or demolition activities. The asbestos NESHAP requires that potentially regulated ACM (RACM) be identified, classified and quantified prior to planned disturbances or demolition activities.
- The Resource Conservation and Recovery Act (RCRA) and the Toxic Substances Control Act (TSCA) impact some construction and demolition projects with respect to hazardous waste (i.e., solvent/thinner, fuel, stains, unused paint, oil/lubricants, compressed gas cylinders, and unpunctured aerosol cans) and universal waste (i.e., fluorescent lights, high intensity discharge lamps, mercury-containing thermostats, batteries, pesticides). Materials referenced here are referred to as *regulated materials* in the Survey Report.
- The Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101-Asbestos regulates asbestos exposure during renovation/demolition activities and requires building and facility owners to determine the presence, location and quantity of asbestos containing materials (ACM) and/or presumed ACM (PACM) prior to renovation/demolition activities.
- OSHA 29 CFR 1926.62-Lead applies to all renovation/demolition where an employee may be occupationally exposed to lead. The employer shall communicate information concerning lead hazards and appropriate protective measures to employees.

Accessible building components were surveyed, homogeneous areas of suspect ACM were visually identified, documented, and sampled, and unique paint combinations were visually identified, documented, and sampled. Although reasonable effort was made to survey accessible

suspect materials, additional suspect but unsampled materials could be located in walls, in voids, or in other concealed areas and in areas not available for review.

1.1 Project Objectives

The objectives of the surveys were to identify the presence, quantity, and location of ACM and location of lead-based paint (LBP) in coatings on building components or substrates that may be present in the building at the time of the field assessment, subject to the stated reporting and sampling limitations. Terracon understands the surveys were requested for the upcoming renovation or demolition activities.

2.0 BUILDING DESCRIPTION

The building is a two-story approximately 40,000 square-foot structure consisting of a rubber membrane roof with metal windows and doors on a concrete slab foundation. The floor finishes consist of vinyl floor tile, ceramic floor tile, carpet, and finished concrete. The ceilings consist of metal decking, gypsum, or 2-foot (') x 2' acoustical ceiling tiles. The walls consist of brick, concrete, or gypsum finished with paint.

3.0 FIELD ACTIVITIES

3.1 Asbestos

The asbestos survey was conducted by Ms. Shannon Starr (License No. 100-19909), a State of Illinois licensed asbestos inspector. A copy of Ms. Starr's inspector license is included in Appendix E. The survey was conducted in accordance with the sample collection protocols established in 40 CFR 763.86 Sampling. A summary of survey activities is provided below.

3.1.1 Visual Assessment

The survey activities began with visual observations of the designated structures to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture, and, if known, date of application. Building materials identified as glass, wood, metal or rubber were not considered suspect ACM.

3.1.2 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the material. A friable material is defined by the USEPA as a material that can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials. The materials were classified into the three following condition categories:

- *Not damaged* (ND) - material with less than or equal to one percent (1%) damage or deterioration for the subject surface;
- *Damaged* (D) - materials with greater than 1% but less than 10% distributed damage or less than 25% localized damage. Damage is determined when deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM; or damage to jacketing or coatings; and
- *Significantly damaged* (SD) - materials where damage impacts at least 10% of a localized subject surface area or if the damage is evenly distributed representing an area of at least 25% of the subject surface area.

3.1.3 Sample Collection

Based on results of the visual observations, bulk samples of suspect ACM were collected in accordance with USEPA sampling protocols. Random samples of suspect materials were collected for each homogeneous area. Bulk samples were collected using wet methods to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Terracon collected 96 bulk samples from 30 homogeneous areas of suspect ACM. A summary of suspect ACM sampled during the survey is included as Appendix B.

3.1.4 Sample Analysis

The bulk samples were submitted under chain of custody (COC) to Moody Labs (Moody), in Farmers Branch, Texas, for analysis by polarized light microscopy (PLM) with dispersion staining techniques per the USEPA's *Method for the Determination of Asbestos in Bulk Building Materials* (600/R-93-116). The percentage of asbestos, if present, was determined by microscopic visual estimation. Moody is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP lab code 102056-0).

Refer to Appendix C for the laboratory analytical report.

3.2 Sampling for Lead in Coatings

The LBP sampling was conducted by Mr. Brad Frisch, an IDPH licensed lead risk assessor, with the intent of identifying lead in painted/coated building materials that might be impacted by

upcoming renovation or demolition activities. A summary of LBP sampling activities is provided below.

Terracon collected 18 paint chip samples from unique paint combinations within the building.

3.2.1 Visual Assessment

Survey activities were initiated with visual observation of the interior and/or exterior of the structures to identify accessible homogeneous areas of coated building components. Homogenous coatings were defined as areas of similar coating/painting history, such as color, building component, and location.

3.2.2 Sample Analysis

Paint sampling included visual observations of coated surfaces (i.e., paint, varnish, colored tiles) to identify potential LBP-coated components and to collect bulk samples. Samples were submitted under COC to EMSL for analysis by USEPA SW-846 Methods 3050B *Acid Digestion of Sediments, Sludges, and Soils* and 7000B *Flame Atomic Absorption Spectrophotometry*. EMSL is accredited by the AIHA® Laboratory Accreditation Programs, LLC under the Environmental Lead Laboratory Accreditation Program (ELLAP).

Refer to Appendix D for the laboratory analytical report.

4.0 REGULATORY OVERVIEW

4.1 Asbestos

4.1.1 Federal Asbestos Regulations

The asbestos portion of NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. The asbestos NESHAP regulation also requires the identification and classification of existing ACM according to friability prior to demolition or renovation activity. Friable ACM is a material containing more than 1% asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure. All friable ACM is considered regulated asbestos-containing material (RACM).

The asbestos NESHAP regulation classifies ACM as RACM, Category I nonfriable ACM or Category II nonfriable ACM. RACM includes all friable ACM, along with Category I and Category II nonfriable ACM that have become friable; will be or have been subjected to sanding, grinding, cutting or abrading; or have a high probability of becoming or have become crumbled, pulverized or reduced to powder in the course of renovation or demolition activity. Category I nonfriable ACMs are exclusively asbestos-containing packings, gaskets, resilient floor coverings, resilient

floor covering mastics and asphalt roofing products that contain more than 1% asbestos. Category II nonfriable ACMs are all nonfriable ACMs that are not Category I nonfriable ACM.

The OSHA asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos be maintained below the permissible exposure limits (PELs) of 0.1 asbestos fiber per cubic centimeter of air (0.1 f/cc) as an 8-hour time-weighted average (8-hr TWA) or 1.0 f/cc as a 30-minute excursion limit. The OSHA standard classifies construction and maintenance activities that could disturb ACM and specifies work practices and precautions that employers must follow when engaging in each class of regulated work.

4.1.2 Illinois Asbestos Regulations

The USEPA has delegated authority to the Illinois Environmental Protection Agency (IEPA) to enforce the asbestos NESHAP. The IEPA Air Pollution Control Program enforces the asbestos NESHAP as adopted by reference at 10 Code of State Regulations (CSR) 10-6.080. For large asbestos removal projects (greater than 160 square feet and/or 260 linear feet) and demolition projects, the owner or operator must provide the IEPA with written notification at least 10 working days prior to the commencement of regulated activities. Notification of friable and nonfriable asbestos abatement project activities ranging in size from three square feet/three linear feet to 160 square feet/260 linear feet that will be conducted in commercial and public buildings (except industrial buildings as defined in 77 Illinois Administrative Code (IAC) 855.220) shall be made to the Illinois Department of Public Health (IDPH) at least two working days before the initiation of abatement project activities.

4.2 Lead-Based Coatings

Lead is regulated by the USEPA and OSHA. USEPA regulates lead use, removal, and disposal and OSHA regulates worker exposure to lead. USEPA defines LBP as paint, varnish, stain, or other applied coating that contains lead equal to or greater than 1.0 milligrams per square centimeter (mg/cm²), 5,000 milligrams per kilogram (mg/kg), or 0.5% by dry weight as determined by laboratory analysis. For the purpose of the OSHA lead standard, lead includes metallic lead, all inorganic lead compounds, and organic lead soaps. The OSHA standard does not define the amount of lead in paint that constitutes lead-based paint.

USEPA regulates disposal of hazardous materials. The USEPA has stated that components removed with intact LBP that is not delaminating from the substrate may be disposed as general demolition debris. If the LBP is stripped from components, or if it is delaminating from the substrate, the waste may be subject to hazardous waste rules [i.e., Toxicity Characteristics Leaching Procedure (TCLP)].

The OSHA lead standard for construction (29 CFR 1926.62) applies to all construction work where an employee may be occupationally exposed to lead. All work related to construction, alteration,

or repair (including painting and decorating) is included. The lead standard applies to any detectable concentration of lead in paint, as even small concentrations of lead can result in unacceptable employee exposures depending upon on the method of removal and other workplace conditions. Under this standard, construction includes, but is not limited to, the following:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair, or renovation of structures, substrates, or portions containing lead, or materials containing lead;
- Installation of products containing lead;
- Lead contamination/emergency clean-up;
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed; and
- Maintenance operations associated with construction activities described above.

Employers must assure that no employee will be exposed to lead at concentrations greater than the PEL of 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) as an 8-hr TWA without adequate protection. The OSHA standard also establishes an action level of $30 \mu\text{g}/\text{m}^3$, which if exceeded, triggers certain requirements, including periodic exposure monitoring and medical monitoring.

5.0 FINDINGS

5.1 Asbestos

Asbestos was identified in the following samples collected from the building on August 16 through 18, 2021.

Material	Location	Estimated Quantity
White window caulk	Exterior lower level windows	450 LF

The asbestos containing caulk is Category II nonfriable ACM that, if made friable during renovation/demolition activities, must be removed prior to those activities in accordance with applicable federal and state regulations. USEPA believes that most renovation/demolition activities will subject such Category II nonfriable ACMs to the regulation. A summary of the classification, condition and approximate quantity of identified ACMs are presented in Appendix A.

Laboratory analytical reports are provided in Appendix C. Photographs are provided in Appendix F, with homogeneous area locations depicted on the site diagram in Appendix G.

ACMs may be present that have not been identified or sampled. If any suspect ACM is identified prior to, or during, demolition, it must be treated as ACM until sampling can prove otherwise.

5.2 Lead-Based Coatings Survey Findings

Lead was not detected above the laboratory's detection limits in the paint sampled on August 16 through 18, 2021. A photo log for the LBP sampling is included in Appendix F and general sample locations are on the site diagram in Appendix G. Lab reports are included in Appendix D. A summary of suspect painted materials identified and subsequently sampled for lead based content during the survey:

Lead-Based Paint Chip Samples			
Sample No.	Description	Sample Location	Result (% by weight)
P01	Off-white on drywall	Room 255	<0.0080
P02	Black on metal door frame	Room 255	<0.050
P03	Light green on metal door frame	Room 220-29	<0.036
P04	Off-white on concrete block	Stairwell by 220-20	<0.0080
P05	White on metal I-beam	Stairwell by 220-29	<0.0080
P06	Peach on drywall	Kitchen 286	<0.0080
P07	Grey on metal support beam	Room 282	<0.0085
P08	Off-white on metal door frame	Kitchen 286	<0.019
P09	Grey on drywall	Room 282	<0.019
P10	Off-white on drywall	Room 1114	<0.0080
P11	Light green on metal door frame	Room 1122	<0.015
P12	White on stucco	Lower level main entry	<0.0080
P13	Light grey on stucco	Lower level main entry	<0.0080
P14	Tan on stucco	Exterior to suite 250 lobby	<0.0080
P15	Red on metal door frame	Exterior stairwell	<0.011
P16	Grey on metal door frame	Lower level exterior	<0.0085
P17	Grey on concrete	Exterior south balcony	<0.0080
P18	Light grey on concrete	Exterior	<0.0080

6.0 GENERAL COMMENTS

These services were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our survey. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by HOK Inc for specific application to the project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories, or other third parties supplying information that may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A

ASBESTOS SURVEY AND LEAD-BASED PAINT SAMPLING REPORT

SIUE HEALTH SCIENCES BUILDING 200

EDWARDSVILLE, ILLINOIS

Identified Asbestos-Containing Material by Homogeneous Area (HA)

The materials listed in this table have been sampled and determined to contain asbestos in concentrations greater than 1%. When disturbed, various federal, state, and local regulations may apply. See Appendix B for a summary of samples collected. See Appendix C for detailed analytical results.

HA No.	Material Description	Material Location	% and Type Asbestos ¹	NESHAP Classification ²	Condition	Estimated Quantity ³
29	White window caulk	Exterior lower level windows	2% Chrysotile – Old Caulking None Detected – New Caulking	CAT II	Good	450 LF

¹ % & Type Asbestos = this column contains both the analytical result of the sample with the highest concentration of asbestos detected in the samples that make up the HA and the types of asbestos identified.

² CAT II = Category II nonfriable

³ Estimated quantities are based on a cursory field evaluation, and actual quantities may vary significantly, especially if asbestos-containing materials are present in hidden and/or inaccessible areas not evaluated as part of this survey. SF = square feet

APPENDIX B

Asbestos Survey Sample Locations SIUE Health Sciences Building 200 Edwardsville, Illinois

Asbestos Survey Sample Location Summary by Homogeneous Area (HA)

HA	Sample No.	Material Description	Sample Location	Lab Results
01	01-RF6-01	White membrane	Roof	None Detected
	01-RF6-02		Roof	None Detected
	01-RF6-03		Roof	None Detected
02	02-MG7-04	Yellow carpet adhesive	Suite 250 lobby	None Detected
	02-MG7-05		Hallway by 260-E	None Detected
	02-MG7-06		Room 1118	None Detected
03	03-MG3-07	4" dark grey cove base and mastic	Suite 250 lobby	None Detected
	03-MG3-08		Room 240-B	None Detected
	03-MG3-09		Room 1121	None Detected
04	04-CT4-10	2' x 4' pin and dash ceiling tile	Suite 240	None Detected
	04-CT4-11		Suite 220 lobby	None Detected
	04-CT4-12		Room 1114	None Detected
05	05-CT4-13	2' x 4' pin and worm ceiling tile	Room 250	None Detected
	05-CT4-14		Hallway by room 260-B	None Detected
	05-CT4-15		Room 260-D	None Detected
06	06-MG3-16	4" black cove base and mastic	Room 281	None Detected
	06-MG3-17		Room 285	None Detected
	06-MG3-18		Hallway	None Detected
07	07-MG3-19	4" dark blue cove base and mastic	Room 220-16	None Detected
	07-MG3-20		Room 1114	None Detected
	07-MG3-21		Room 1112	None Detected
08	08-MA3/MA4-22	2" x 2" tan ceramic floor and wall tile	Suite 250 women's restroom	None Detected
	08-MA3/MA4-23		Suite 250 women's restroom	None Detected
	08-MA3/MA4-24		Suite 250 women's restroom	None Detected

Asbestos Survey and Lead-Based Paint Sampling Report

SIUE Health Sciences Building 200 ■ Edwardsville, Illinois

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HA	Sample No.	Material Description	Sample Location	Lab Results
09	09-SC5-25	Grey duct sealant	Suite 240	None Detected
	09-SC5-26		Suite 250	None Detected
	09-SC5-27		Lower level hallway by elevator	None Detected
10	10-FT2-28	12" x 12" tan flecked floor tile	Room 220-14	None Detected
	10-FT2-29		Room 220-16	None Detected
	10-FT2-30		Room 1114	None Detected
11	11-MA3/MA4-31	6" x 6" army green ceramic floor tile	Vestibule in suite 220	None Detected
	11-MA3/MA4-32		Vestibule in suite 220	None Detected
	11-MA3/MA4-33		Vestibule in suite 220	None Detected
12	12-FT2-34	12" x 12" light blue and dark blue floor tile	Room 220-17	None Detected
	12-FT2-35		Room 220-17	None Detected
	12-FT2-36		Room 220-17	None Detected
13	13-SC6-37	Grey sink undercoating	Room 220-17	None Detected
	13-SC6-38		Room 220-17	None Detected
	13-SC6-39		Room 220-17	None Detected
14	14-FC1-40	Tan rock linoleum sheet flooring	Suite 290 women's restroom	None Detected
	14-FC1-41		Suite 290 women's restroom	None Detected
	14-FC1-42		Suite 290 women's restroom	None Detected
15	15-MG3-43	4" tan cove base and mastic	Suite 280 women's restroom	None Detected
	15-MG3-44		Suite 280 women's restroom	None Detected
	15-MG3-45		Suite 280 women's restroom	None Detected
16	16-FT2-46	12" x 12" grey flecked floor tile	Room 281	None Detected
	16-FT2-47		Room 281	None Detected
	16-FT2-48		Room 281	None Detected
17	17-CT3-49	2' x 2' pin and fissure ceiling tile	Room 282	None Detected
	17-CT3-50		Room 285	None Detected
	17-CT3-51		Room 289	None Detected
18	18-MG7/MG5-52	Yellow and black mastic under carpet	Suite 280 entry	None Detected
	18-MG7/MG5-53		Suite 280 entry	None Detected
	18-MG7/MG5-54		Suite 280 entry	None Detected
19	19-FT2-55	12" x 12" tan w/ grey flecks floor tile	Room 286	None Detected
	19-FT2-56		Room 1113	None Detected
	19-FT2-57		Room 1112	None Detected
20	20-MG3-58	4" grey cove base and mastic	Lower level hallway by restrooms	None Detected

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HA	Sample No.	Material Description	Sample Location	Lab Results
	20-MG3-59		Room 1121 entry	None Detected
	20-MG3-60		Hallway by room 1121	None Detected
21	21-FT2-61	12" x 12" tan w/ brown flecks and black flecked floor tile	Room 1121	None Detected
	21-FT2-62		Room 1121	None Detected
	21-FT2-63		Room 1121	None Detected
22	22-FT2-64	12" x 12" blue flecked floor tile	Room 1121	None Detected
	22-FT2-65		Room 1121	None Detected
	22-FT2-66		Room 1121	None Detected
23	23-FT2-67	12" x 12" tan flecked and black flecked floor tile	Room 1122	None Detected
	23-FT2-68		Room 1122	None Detected
	23-FT2-69		Room 1122	None Detected
24	24-MG7/MG5-70	Yellow and black mastic under carpet	Room 1123	None Detected
	24-MG7/MG5-71		Room 1123	None Detected
	24-MG7/MG5-72		Room 1127	None Detected
25	25-MA3/MA4-73	2" x 2" navy blue ceramic wall tile	Lower level men's restroom	None Detected
	25-MA3/MA4-74		Lower level men's restroom	None Detected
	25-MA3/MA4-75		Lower level men's restroom	None Detected
26	26-WB1-76	Drywall and joint compound	Room 282	None Detected
	26-WB1-77		Room 285	None Detected
	26-WB1-78		Room 289	None Detected
	26-WB1-79		Suite 250 lobby	None Detected
	26-WB1-80		Room 1114	None Detected
	26-WB1-81		Hallway by room 1113	None Detected
	26-WB1-82		Lower level hallway by restrooms	None Detected
27	27-MA4-83	Brick grout	Exterior	None Detected
	27-MA4-84		Exterior	None Detected
	27-MA4-85		Exterior	None Detected
28	28-MA6-86	Stucco	Exterior	None Detected
	28-MA6-87		Exterior	None Detected
	28-MA6-88		Exterior	None Detected
	28-MA6-89		Exterior	None Detected
	28-MA6-90		Exterior	None Detected
29	29-CA1-91	White window caulk	Lower level exterior windows	2% Chrysotile – Old Caulking None Detected – New Caulking

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HA	Sample No.	Material Description	Sample Location	Lab Results
	29-CA1-92		Lower level exterior windows	2% Chrysotile – Old Caulking None Detected – New Caulking
	29-CA1-93		Lower level exterior windows	2% Chrysotile – Old Caulking None Detected – New Caulking
30	30-CA2-94	Black door caulk	Exterior doors	None Detected
	30-CA2-95		Exterior doors	None Detected
	30-CA2-96		Exterior doors	None Detected

APPENDIX C

ASBESTOS LABORATORY ANALYTICAL RESULTS



PLM Summary Report

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Lab Job No. : 21B-11057

Project : SIUE Building 200

Report Date : 08/27/2021

Project # : 15217051

Sample Date : 08/17/2021

Identification : Asbestos, Bulk Sample Analysis

Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

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On 8/20/2021, ninety six (96) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
01-RF6-01	Membrane (White), Roof	None Detected - Roofing Membrane None Detected - Decking Material None Detected - Paper Facing None Detected - Felt Facing None Detected - Foam Insulation
01-RF6-02	Membrane (White), Roof	None Detected - Roofing Membrane None Detected - Decking Material None Detected - Paper Facing None Detected - Felt Facing None Detected - Foam Insulation
01-RF6-03	Membrane (White), Roof	None Detected - Roofing Membrane None Detected - Decking Material None Detected - Paper Facing None Detected - Felt Facing None Detected - Foam Insulation
02-MG7-04	Carpet Adhesive (Yellow), Suite 250 Lobby	None Detected - Yellow Adhesive
02-MG7-05	Carpet Adhesive (Yellow), Hallway by 260-East	None Detected - Yellow Adhesive
02-MG7-06	Carpet Adhesive (Yellow), Room 118	None Detected - Yellow Adhesive
03-MG3-07	4" Cove Base (Dark Grey) and Mastic, Suite 250 Lobby	None Detected - Cove Base None Detected - Cream Mastic
03-MG3-08	4" Cove Base (Dark Grey) and Mastic, Room 240-B	None Detected - Cove Base None Detected - Cream Mastic
03-MG3-09	4" Cove Base (Dark Grey) and Mastic, Room 1121	None Detected - Cove Base None Detected - Cream Mastic
04-CT4-10	2' x 4' Ceiling Tile (Pin and Dash), Suite 240	None Detected - Acoustic Tile
04-CT4-11	2' x 4' Ceiling Tile (Pin and Dash), Suite 220, Lobby	None Detected - Acoustic Tile
04-CT4-12	2' x 4' Ceiling Tile (Pin and Dash), Room 1114	None Detected - Acoustic Tile
05-CT4-13	2' x 4' Ceiling Tile (Pin and Worm), Room 250	None Detected - Acoustic Tile



PLM Summary Report

2051 Valley View Lane
Farmers Branch, TX 75234 Phone: (972) 241-8460

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis
Project : SIUE Building 200
Project # : 15217051
Identification : Asbestos, Bulk Sample Analysis
Test Method : Polarized Light Microscopy / Dispersion Staining (PLM/DS)
EPA Method 600 / R-93 / 116

Lab Job No. : 21B-11057
Report Date : 08/27/2021
Sample Date : 08/17/2021

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On 8/20/2021, ninety six (96) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
05-CT4-14	2' x 4' Ceiling Tile (Pin and Worm), Hallway by Room 260-B	None Detected - Acoustic Tile
05-CT4-15	2' x 4' Ceiling Tile (Pin and Worm), Room 260-D	None Detected - Acoustic Tile
06-MA3-16	4" Cove Base (Black) and Mastic, Room 281	None Detected - Cove Base None Detected - Cream Mastic
06-MG3-17	4" Cove Base (Black) and Mastic, Room 285	None Detected - Cove Base None Detected - Cream Mastic
06-MG3-18	4" Cove Base (Black) and Mastic, Hallway	None Detected - Cove Base None Detected - Cream Mastic
07-MG3-19	4" Cove Base (Dark Blue) and Mastic, Room 220-16	None Detected - Cove Base None Detected - Yellow Mastic
07-MG3-20	4" Cove Base (Dark Blue) and Mastic, Room 1114	None Detected - Cove Base None Detected - Yellow Mastic
07-MG3-21	4" Cove Base (Dark Blue) and Mastic, Room 1112	None Detected - Cove Base None Detected - Yellow Mastic
08-MA3 / MA4-22	2" x 2" Ceramic Floor (Tan) and Wall Tile, Suite 250, Women's Restroom	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
08-MA3 / MA4-23	2" x 2" Ceramic Floor (Tan) and Wall Tile, Suite 250, Women's Restroom	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
08-MA3 / MA4-24	2" x 2" Ceramic Floor (Tan) and Wall Tile, Suite 250, Women's Restroom	None Detected - Ceramic Tile None Detected - Grout None Detected - Mortar
09-SC5-25	Duct Sealant (Grey), Suite 240	None Detected - Grey Sealant
09-SC5-26	Duct Sealant (Grey), Suite 250	None Detected - Grey Sealant
09-SC5-27	Duct Sealant (Grey), Lower Level Hallway by Elevator	None Detected - Grey Sealant



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Report Date : 08/27/2021

Project # : 15217051

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Sample Number	Client Sample Description / Location	Asbestos Content
10-FT2-28	12" x 12" Flecked Floor Tile (Tan), Room 220-14	None Detected - Floor Tile None Detected - Yellow Mastic
10-FT2-29	12" x 12" Flecked Floor Tile (Tan), Room 220-16	None Detected - Floor Tile None Detected - Yellow Mastic
10-FT2-30	12" x 12" Flecked Floor Tile (Tan), Room 1114	None Detected - Floor Tile None Detected - Yellow Mastic
11-MA3 / MA4-31	6" x 6" Ceramic Floor Tile (Army Green), Vestibule in Suite 220	None Detected - Grout
11-MA3 / MA4-32	6" x 6" Ceramic Floor Tile (Army Green), Vestibule in Suite 220	None Detected - Grout
11-MA3 / MA4-33	6" x 6" Ceramic Floor Tile (Army Green), Vestibule in Suite 220	None Detected - Grout
12-FT2-34	12" x 12" Floor Tile (Light Blue and Dark Blue), Room 220-17	None Detected - Floor Tile None Detected - Yellow Mastic
12-FT2-35	12" x 12" Floor Tile (Light Blue and Dark Blue), Room 220-17	None Detected - Dark Blue Floor Tile None Detected - Yellow Mastic None Detected - Light Blue Floor Tile None Detected - Yellow Mastic
12-FT2-36	12" x 12" Floor Tile (Light Blue and Dark Blue), Room 220-17	None Detected - Dark Blue Floor Tile None Detected - Yellow Mastic None Detected - Light Blue Floor Tile None Detected - Yellow Mastic
13-SC6-37	Sink Undercoating (Grey), Room 220-17	None Detected - Sink Undercoating
13-SC6-38	Sink Undercoating (Grey), Room 220-17	None Detected - Sink Undercoating
13-SC6-39	Sink Undercoating (Grey), Room 220-17	None Detected - Sink Undercoating
14-FC1-40	Linoleum Sheet Flooring (Tan, Rock), Suite 290, Women's Restroom	None Detected - Sheet Flooring None Detected - Fiber Backing None Detected - Yellow Mastic



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Sample Number	Client Sample Description / Location	Asbestos Content
14-FC1-41	Linoleum Sheet Flooring (Tan, Rock), Suite 290, Women's Restroom	None Detected - Sheet Flooring None Detected - Fiber Backing None Detected - Yellow Mastic
14-FC1-42	Linoleum Sheet Flooring (Tan, Rock), Suite 290, Women's Restroom	None Detected - Sheet Flooring None Detected - Fiber Backing None Detected - Yellow Mastic
15-MG3-43	4" Cove Base (Tan) and Mastic, Suite 280, Women's Restroom	None Detected - Cove Base None Detected - Yellow Mastic
15-MG3-44	4" Cove Base (Tan) and Mastic, Suite 280, Women's Restroom	None Detected - Cove Base None Detected - Yellow Mastic
15-MG3-45	4" Cove Base (Tan) and Mastic, Suite 280, Women's Restroom	None Detected - Cove Base None Detected - Yellow Mastic
16-FT2-46	12" x 12" Floor Tile (Flecked Grey), Room 281	None Detected - Floor Tile None Detected - Yellow Mastic
16-FT2-47	12" x 12" Floor Tile (Flecked Grey), Room 281	None Detected - Floor Tile None Detected - Yellow Mastic
16-FT2-48	12" x 12" Floor Tile (Flecked Grey), Room 281	None Detected - Floor Tile None Detected - Yellow Mastic
17-CT3-49	2' x 2' Ceiling Tile (Pin and Fissure), Room 282	None Detected - Acoustic Tile
17-CT3-50	2' x 2' Ceiling Tile (Pin and Fissure), Room 285	None Detected - Acoustic Tile
17-CT3-21	2' x 2' Ceiling Tile (Pin and Fissure), Room 289	None Detected - Acoustic Tile
18-MG7 / MG5-52	Mastic (Yellow and Black) under Carpet, Suite 280, Entry	None Detected - Black Mastic
18-MG7 / MG5-53	Mastic (Yellow and Black) under Carpet, Suite 280, Entry	None Detected - Black Mastic
18-MG7 / MG5-54	Mastic (Yellow and Black) under Carpet, Suite 280, Entry	None Detected - Black Mastic



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Sample Number	Client Sample Description / Location	Asbestos Content
19-FT2-55	12" x 12" Floor Tile (Tan with Grey Flecks), Room 286	None Detected - Floor Tile None Detected - Black Mastic
19-FT2-56	12" x 12" Floor Tile (Tan with Grey Flecks), Room 1113	None Detected - Floor Tile None Detected - Black Mastic
19-FT2-57	12" x 12" Floor Tile (Tan with Grey Flecks), Room 1112	None Detected - Floor Tile None Detected - Black Mastic
20-MG3-58	4" Cove Base (Grey) and Mastic, Lower Level Hallway by Restrooms	None Detected - Cove Base None Detected - Yellow Mastic
20-MG3-59	4" Cove Base (Grey) and Mastic, Room 1121 Entry	None Detected - Cove Base None Detected - Yellow Mastic
20-MG3-60	4" Cove Base (Grey) and Mastic, Hallway by Room 1121	None Detected - Cove Base None Detected - Yellow Mastic
21-FT2-61	12" x 12" Floor Tile (Tan with Brown Flecks and Black Flecks), Room 1121	None Detected - Floor Tile None Detected - Yellow Mastic
21-FT2-62	12" x 12" Floor Tile (Tan with Brown Flecks and Black Flecks), Room 1121	None Detected - Tan Floor Tile None Detected - Yellow Mastic None Detected - Black Mastic None Detected - Black Floor Tile None Detected - Yellow Mastic
21-FT2-63	12" x 12" Floor Tile (Tan with Brown Flecks and Black Flecks), Room 1121	None Detected - Floor Tile None Detected - Yellow Mastic
22-FT2-64	12" x 12" Floor Tile (Blue Flecked), Room 1121	None Detected - Floor Tile No Mastic
22-FT2-65	12" x 12" Floor Tile (Blue Flecked), Room 1121	None Detected - Floor Tile No Mastic
22-FT2-66	12" x 12" Floor Tile (Blue Flecked), Room 1121	None Detected - Floor Tile No Mastic



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Sample Number	Client Sample Description / Location	Asbestos Content
23-FT2-67	12" x 12" Floor Tile (Tan Flecked and Black Flecked), Room 1122	None Detected - Tan Floor Tile None Detected - Black Floor Tile No Mastic
23-FT2-68	12" x 12" Floor Tile (Tan Flecked and Black Flecked), Room 1122	None Detected - Tan Floor Tile None Detected - Black Floor Tile No Mastic
23-FT2-69	12" x 12" Floor Tile (Tan Flecked and Black Flecked), Room 1122	None Detected - Floor Tile None Detected - Black Mastic
24-MG7 / MG5-70	Mastic (Yellow and Black) under Carpet, Room 1123	None Detected - Yellow Mastic None Detected - Black Mastic
24-MG7 / MG5-71	Mastic (Yellow and Black) under Carpet, Room 1123	None Detected - Yellow Mastic None Detected - Black Mastic
24-MG7 / MG5-72	Mastic (Yellow and Black) under Carpet, Room 1127	None Detected - Yellow Mastic None Detected - Black Mastic
25-MA3 / MA4-73	2" x 2" Ceramic Wall Tile (Navy Blue), Lower Level, Men's Restroom	No Ceramic Tile None Detected - Cream Mastic
25-MA3 / MA4-74	2" x 2" Ceramic Wall Tile (Navy Blue), Lower Level, Men's Restroom	None Detected - Ceramic Tile None Detected - Grout None Detected - Cream Mastic
25-MA3 / MA4-75	2" x 2" Ceramic Wall Tile (Navy Blue), Lower Level, Men's Restroom	None Detected - Ceramic Tile None Detected - Grout None Detected - Cream Mastic
26-WB1-76	Drywall and Joint Compound, Room 282	None Detected - Drywall Material None Detected - Joint Compound
26-WB1-77	Drywall and Joint Compound, Room 285	None Detected - Drywall Material None Detected - Joint Compound
26-WB1-78	Drywall and Joint Compound, Room 289	None Detected - Drywall Material None Detected - Joint Compound



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On 8/20/2021, ninety six (96) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
26-WB1-79	Drywall and Joint Compound, Suite 250 Lobby	None Detected - Drywall Material None Detected - Joint Compound
26-WB1-80	Drywall and Joint Compound, Room 1114	None Detected - Drywall Material None Detected - Joint Compound
26-WB1-81	Drywall and Joint Compound, Hallway by Room 1113	None Detected - Drywall Material None Detected - Joint Compound
26-WB1-82	Drywall and Joint Compound, Lower Level Hallway by Restroom	None Detected - Drywall Material None Detected - Joint Compound
27-MA4-83	Brick Grout, Exterior	None Detected - Grout
27-MA4-84	Brick Grout, Exterior	None Detected - Grout
27-MA4-85	Brick Grout, Exterior	None Detected - Grout
28-MA6-86	Stucco, Exterior	None Detected - Synthetic Foam None Detected - Plaster None Detected - Stucco
28-MA6-87	Stucco, Exterior	None Detected - Synthetic Foam None Detected - Plaster None Detected - Stucco
28-MA6-88	Stucco, Exterior	None Detected - Plaster None Detected - Stucco
28-MA6-89	Stucco, Exterior	None Detected - Plaster None Detected - Stucco
28-MA6-90	Stucco, Exterior	None Detected - Stucco
29-CA1-91	Window Caulk (White), Lower Level Exterior Windows	2% Chrysotile - Old Caulking None Detected - New Caulking
29-CA1-92	Window Caulk (White), Lower Level Exterior Windows	2% Chrysotile - Old Caulking None Detected - New Caulking
29-CA1-93	Window Caulk (White), Lower Level Exterior Windows	2% Chrysotile - Old Caulking None Detected - New Caulking



PLM Summary Report

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On 8/20/2021, ninety six (96) bulk material samples were submitted by Shannon Starr of Terracon - St. Louis for asbestos analysis by PLM/DS. The PLM Detail Report is attached; additional information may be found therein. The results are summarized below:

Sample Number	Client Sample Description / Location	Asbestos Content
30-CA2-94	Door Caulk (Black), Exterior Doors	None Detected - Caulking
30-CA2-95	Door Caulk (Black), Exterior Doors	None Detected - Caulking
30-CA2-96	Door Caulk (Black), Exterior Doors	None Detected - Caulking

These samples were analyzed by layers. Quantification, unless otherwise noted, is performed by calibrated visual estimate. The test report shall not be reproduced except in full without written approval of the laboratory. The results relate only to the items tested. These test results do not imply endorsement by NVLAP or any agency of the U.S. Government. Accredited by the National Voluntary Laboratory Accreditation Program for Bulk Asbestos Fiber Analysis under Lab Code 102056-0.



Analyst(s): Heather Lopez

Lab Manager : Heather Lopez

Lab Director : Bruce Crabb

Approved Signatory :

Approved Signatory :

Thank you for choosing Moody Labs

Moody Labs

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 200

Project # : 15217051

Lab Job No. : 21B-11057

Report Date : 08/27/2021

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
01-RF6-01	Roofing Membrane (White / Black)	10%	Synthetic Fiber Mesh	15%	08/27	HL
			Vinyl Binders	85%		
	Decking Material (White)	70%	Cellulose Fibers	10%		
			Gypsum / Binders	90%		
	Paper Facing (Tan)	5%	Cellulose Fibers	100%		
	Felt Facing (Blue)	5%	Cellulose Fibers	75%		
			Glass Wool Fibers	25%		
	Foam Insulation (Light Yellow)	10%	Synthetic Foam	100%		
01-RF6-02	Roofing Membrane (White / Black)	10%	Synthetic Fiber Mesh	15%	08/27	HL
			Vinyl Binders	85%		
	Decking Material (White)	70%	Cellulose Fibers	10%		
			Gypsum / Binders	90%		
	Paper Facing (Tan)	5%	Cellulose Fibers	100%		
	Felt Facing (Blue)	5%	Cellulose Fibers	75%		
			Glass Wool Fibers	25%		
	Foam Insulation (Light Yellow)	10%	Synthetic Foam	100%		
01-RF6-03	Roofing Membrane (White / Black)	10%	Synthetic Fiber Mesh	15%	08/27	HL
			Vinyl Binders	85%		
	Decking Material (White)	70%	Cellulose Fibers	10%		
			Gypsum / Binders	90%		
	Paper Facing (Tan)	5%	Cellulose Fibers	100%		
	Felt Facing (Blue)	5%	Cellulose Fibers	75%		
			Glass Wool Fibers	25%		
	Foam Insulation (Light Yellow)	10%	Synthetic Foam	100%		
02-MG7-04	Yellow Adhesive (Yellow)	100%	Glue Binders	100%	08/27	HL
02-MG7-05	Yellow Adhesive (Yellow)	100%	Glue Binders	100%	08/27	HL
02-MG7-06	Carpet (Blue)	95%	Synthetic Fibers	85%	08/27	HL
			Glue Binders	15%		
	Yellow Adhesive (Yellow)	5%	Glue Binders	100%		

Moody Labs

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PLM Detail Report
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Lab Job No. : 21B-11057

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
03-MG3-07	Cove Base (Grey)	97%	Calcite / Vinyl Binders	100%	08/27	HL
	Cream Mastic (Cream)	3%	Calcite	50%		
		Glue Binders	50%			
03-MG3-08	Cove Base (Grey)	97%	Calcite / Vinyl Binders	100%	08/27	HL
	Cream Mastic (Cream)	3%	Calcite	50%		
		Glue Binders	50%			
03-MG3-09	Cove Base (Grey)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	Cream Mastic (Cream)	<1%	Calcite	50%		
		Glue Binders	50%			
04-CT4-10	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
04-CT4-11	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
04-CT4-12	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
05-CT4-13	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
05-CT4-14	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
05-CT4-15	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		

Moody Labs

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
06-MA3-16	Cove Base (Black)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Cream Mastic (Cream)	5%	Calcite	50%		
			Glue Binders	50%		
06-MG3-17	Cove Base (Black)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Cream Mastic (Cream)	5%	Calcite	50%		
			Glue Binders	50%		
06-MG3-18	Cove Base (Black)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Cream Mastic (Cream)	5%	Calcite	50%		
			Glue Binders	50%		
07-MG3-19	Cove Base (Dark Blue)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
07-MG3-20	Cove Base (Dark Blue)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
07-MG3-21	Cove Base (Dark Blue)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
08-MA3 / MA4-22	Ceramic Tile (Tan)	91%	Sintered Clays	100%	08/27	HL
	Grout (Grey)	3%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Grey)	5%	Aggregate	65%		
			Cement Binders	35%		
	Cream Mastic (Cream)	1%	Calcite	50%		
			Glue Binders	50%		

Moody Labs

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
08-MA3 / MA4-23	Ceramic Tile (Tan)	91%	Sintered Clays	100%	08/27	HL
	Grout (Grey)	3%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Grey)	5%	Aggregate	65%		
			Cement Binders	35%		
	Cream Mastic (Cream)	1%	Calcite	50%		
			Glue Binders	50%		
08-MA3 / MA4-24	Ceramic Tile (Tan)	85%	Sintered Clays	100%	08/27	HL
	Grout (Grey)	5%	Aggregate	65%		
			Cement Binders	35%		
	Mortar (Grey)	10%	Aggregate	65%		
			Cement Binders	35%		
09-SC5-25	Grey Sealant (Grey)	100%	Calcite	60%	08/27	HL
			Glue Binders	40%		
09-SC5-26	Grey Sealant (Grey)	100%	Calcite	60%	08/27	HL
			Glue Binders	40%		
09-SC5-27	Grey Sealant (Grey)	100%	Calcite	60%	08/27	HL
			Glue Binders	40%		
10-FT2-28	Floor Tile (Tan)	99%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
10-FT2-29	Floor Tile (Tan)	99%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		

Moody Labs

2051 Valley View Lane

Farmers Branch, TX 75234 Phone: (972) 241-8460

PLM Detail Report
Supplement to PLM Summary Report

NVLAP Lab Code 102056-0

TDSHS License No. 30-0084

Client : Terracon - St. Louis

Project : SIUE Building 200

Project # : 15217051

Lab Job No. : 21B-11057

Report Date : 08/27/2021

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
10-FT2-30	Floor Tile (Tan)	99%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
11-MA3 / MA4-31	Grout (Grey)	100%	Aggregate	65%	08/27	HL
			Cement Binders	35%		
11-MA3 / MA4-32	Grout (Grey)	100%	Aggregate	65%	08/27	HL
			Cement Binders	35%		
11-MA3 / MA4-33	Grout (Grey)	100%	Aggregate	65%	08/27	HL
			Cement Binders	35%		
12-FT2-34	Floor Tile (Dark Blue)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
12-FT2-35	Dark Blue Floor Tile (Dark Blue)	50%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
	Light Blue Floor Tile (Light Blue)	50%	Calcite / Vinyl Binders	100%		
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
12-FT2-36	Dark Blue Floor Tile (Dark Blue)	90%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
	Light Blue Floor Tile (Light Blue)	10%	Calcite / Vinyl Binders	100%		
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
13-SC6-37	Sink Undercoating (Grey)	100%	Cellulose Fibers	10%	08/27	HL
			Calcite / Talc	50%		
			Binders / Fillers	40%		
13-SC6-38	Sink Undercoating (Grey)	100%	Cellulose Fibers	10%	08/27	HL
			Calcite / Talc	50%		
			Binders / Fillers	40%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
13-SC6-39	Sink Undercoating (Grey)	100%	Cellulose Fibers	10%	08/27	HL
			Calcite / Talc	50%		
			Binders / Fillers	40%		
14-FC1-40	Sheet Flooring (Tan)	50%	Calcite / Vinyl Binders	100%	08/27	HL
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	55%		
			Synthetic Fibers	5%		
			Glass Wool Fibers	5%		
			Binders / Fillers	35%		
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
14-FC1-41	Sheet Flooring (Tan)	50%	Calcite / Vinyl Binders	100%	08/27	HL
	Fiber Backing (Light Grey)	47%	Cellulose Fibers	55%		
			Synthetic Fibers	5%		
			Glass Wool Fibers	5%		
			Binders / Fillers	35%		
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
14-FC1-42	Sheet Flooring (Tan)	50%	Calcite / Vinyl Binders	100%	08/27	HL
	Fiber Backing (Light Grey)	50%	Cellulose Fibers	55%		
			Synthetic Fibers	5%		
			Glass Wool Fibers	5%		
			Binders / Fillers	35%		
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
15-MG3-43	Cove Base (Tan)	99%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
15-MG3-44	Cove Base (Tan)	97%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
15-MG3-45	Cove Base (Tan)	97%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	3%	Glue Binders	100%		
16-FT2-46	Floor Tile (Grey)	99%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		

Moody Labs

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PLM Detail Report
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Client : Terracon - St. Louis

Project : SIUE Building 200

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
16-FT2-47	Floor Tile (Grey)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
16-FT2-48	Floor Tile (Grey)	99%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	1%	Glue Binders	100%		
17-CT3-49	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
17-CT3-50	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
17-CT3-21	Acoustic Tile (Light Grey)	100%	Cellulose Fibers	50%	08/27	HL
			Mineral Wool Fibers	30%		
			Perlite	20%		
18-MG7 / MG5-52	Black Mastic (Black)	100%	Cellulose Fibers	5%	08/27	HL
			Tar Binders	95%		
18-MG7 / MG5-53	Black Mastic (Black)	100%	Cellulose Fibers	5%	08/27	HL
			Tar Binders	95%		
18-MG7 / MG5-54	Black Mastic (Black)	100%	Cellulose Fibers	5%	08/27	HL
			Tar Binders	95%		
19-FT2-55	Floor Tile (Tan/Grey)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	Black Mastic (Black)	<1%	Cellulose Fibers	5%		
			Tar Binders	95%		
19-FT2-56	Floor Tile (Tan/Grey)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	Black Mastic (Black)	<1%	Cellulose Fibers	5%		
			Tar Binders	95%		

Moody Labs

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PLM Detail Report

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TDSHS License No. 30-0084

Client : Terracon - St. Louis

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
19-FT2-57	Floor Tile (Tan/Grey)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	Black Mastic (Black)	<1%	Cellulose Fibers	5%		
			Tar Binders	95%		
20-MG3-58	Cove Base (Grey)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
20-MG3-59	Cove Base (Grey)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
20-MG3-60	Cove Base (Grey)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
21-FT2-61	Floor Tile (Tan/Brown)	95%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	5%	Glue Binders	100%		
21-FT2-62	Tan Floor Tile (Tan/Brown)	60%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
	Black Mastic (Black)	<1%	Cellulose Fibers	5%		
			Tar Binders	95%		
	Black Floor Tile (Black)	40%	Calcite / Vinyl Binders	100%		
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
21-FT2-63	Floor Tile (Tan/Brown)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	Yellow Mastic (Yellow)	<1%	Glue Binders	100%		
22-FT2-64	Floor Tile (Blue)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	No Mastic					
22-FT2-65	Floor Tile (Blue)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	No Mastic					
22-FT2-66	Floor Tile (Blue)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	No Mastic					
23-FT2-67	Tan Floor Tile (Tan/Brown)	40%	Calcite / Vinyl Binders	100%	08/27	HL
	Black Floor Tile (Black)	60%	Calcite / Vinyl Binders	100%		
	No Mastic					

Moody Labs

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
23-FT2-68	Tan Floor Tile (Tan/Brown)	45%	Calcite / Vinyl Binders	100%	08/27	HL
	Black Floor Tile (Black)	55%	Calcite / Vinyl Binders	100%		
	No Mastic					
23-FT2-69	Floor Tile (Tan/Brown)	100%	Calcite / Vinyl Binders	100%	08/27	HL
	Black Mastic (Black)	<1%	Cellulose Fibers	5%		
			Tar Binders	95%		
24-MG7 / MG5-70	Yellow Mastic (Yellow)	50%	Glue Binders	100%	08/27	HL
	Black Mastic (Black)	50%	Cellulose Fibers	5%		
			Tar Binders	95%		
24-MG7 / MG5-71	Yellow Mastic (Yellow)	50%	Glue Binders	100%	08/27	HL
	Black Mastic (Black)	50%	Cellulose Fibers	5%		
			Tar Binders	95%		
24-MG7 / MG5-72	Yellow Mastic (Yellow)	50%	Glue Binders	100%	08/27	HL
	Black Mastic (Black)	50%	Cellulose Fibers	5%		
			Tar Binders	95%		
25-MA3 / MA4-73	No Ceramic Tile				08/27	HL
	Cream Mastic (Cream)	100%	Calcite	50%		
			Glue Binders	50%		

Moody Labs

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PLM Detail Report **Supplement to PLM Summary Report**

NVLAP Lab Code 102056-0

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
25-MA3 / MA4-74	Ceramic Tile (Navy Blue)	90%	Sintered Clays	100%	08/27	HL
	Grout (Grey)	5%	Calcite / Binders	100%		
	Cream Mastic (Cream)	5%	Calcite	60%		
			Glue Binders	40%		
25-MA3 / MA4-75	Ceramic Tile (Navy Blue)	90%	Sintered Clays	100%	08/27	HL
	Grout (Grey)	5%	Calcite / Binders	100%		
	Cream Mastic (Cream)	5%	Calcite	60%		
			Glue Binders	40%		
26-WB1-76	Drywall Material (White)	35%	Glass Wool Fibers	2%	08/27	HL
			Gypsum / Binders	98%		
	DW Paper / Tape (Tan / White)	35%	Cellulose Fibers	100%		
	Joint Compound (White)	30%	Calcite / Talc / Binders	100%		
26-WB1-77	Drywall Material (White)	45%	Glass Wool Fibers	2%	08/27	HL
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	45%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
26-WB1-78	Drywall Material (White)	15%	Glass Wool Fibers	2%	08/27	HL
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	15%	Cellulose Fibers	100%		
	Joint Compound (White)	70%	Calcite / Talc / Binders	100%		
26-WB1-79	Drywall Material (White)	45%	Glass Wool Fibers	2%	08/27	HL
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	45%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		

Moody Labs

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
26-WB1-80	Drywall Material (White)	45%	Glass Wool Fibers	2%	08/27	HL
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	45%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
26-WB1-81	Drywall Material (White)	85%	Glass Wool Fibers	2%	08/27	HL
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	14%	Cellulose Fibers	100%		
	Joint Compound (White)	1%	Calcite / Talc / Binders	100%		
26-WB1-82	Drywall Material (White)	45%	Glass Wool Fibers	2%	08/27	HL
			Gypsum / Binders	98%		
	DW Paper Facing (Tan)	45%	Cellulose Fibers	100%		
	Joint Compound (White)	10%	Calcite / Talc / Binders	100%		
27-MA4-83	Grout (Brown)	100%	Aggregate	65%	08/27	HL
			Cement Binders	35%		
27-MA4-84	Grout (Brown)	100%	Aggregate	65%	08/27	HL
			Cement Binders	35%		
27-MA4-85	Grout (Brown)	100%	Aggregate	65%	08/27	HL
			Cement Binders	35%		
28-MA6-86	Synthetic Foam (White)	5%	Synthetic Foam	100%	08/27	HL
	Plaster (Grey)	45%	Aggregate	65%		
			Calcite / Binders	35%		
	Glass Fiber Mesh (White)	5%	Glass Wool Fibers	100%		
Stucco (White)	45%	Aggregate	60%			
		Binders / Fillers	40%			

Moody Labs

2051 Valley View Lane

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PLM Detail Report
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Client : Terracon - St. Louis

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
28-MA6-87	Synthetic Foam (White)	5%	Synthetic Foam	100%	08/27	HL
	Plaster (Grey)	45%	Aggregate	65%		
			Calcite / Binders	35%		
	Glass Fiber Mesh (White)	5%	Glass Wool Fibers	100%		
	Stucco (White)	45%	Aggregate	60%		
Binders / Fillers			40%			
28-MA6-88	Plaster (Grey)	50%	Aggregate	65%	08/27	HL
			Calcite / Binders	35%		
	Stucco (White)	50%	Aggregate	60%		
			Binders / Fillers	40%		
28-MA6-89	Plaster (Grey)	45%	Aggregate	65%	08/27	HL
			Calcite / Binders	35%		
	Glass Fiber Mesh (White)	5%	Glass Wool Fibers	100%		
			Stucco (White)	50%		
	Binders / Fillers	40%				
28-MA6-90	Stucco (White)	100%	Glass Wool Fibers	100%	08/27	HL
28-MA6-90	Stucco (White)	100%	Aggregate	60%	08/27	HL
			Binders / Fillers	40%		
29-CA1-91	Old Caulking (Grey)	30%	Chrysotile	2%	08/27	HL
			Polyethylene Fibers	5%		
			Binders / Fillers	93%		
	New Caulking (Off-White)	70%	Calcite	50%		
			Binders / Fillers	50%		
29-CA1-92	Old Caulking (Grey)	50%	Chrysotile	2%	08/27	HL
			Polyethylene Fibers	5%		
			Binders / Fillers	93%		
	New Caulking (Off-White)	50%	Calcite	50%		
			Binders / Fillers	50%		

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Sample Number	Layer	% Of Sample	Components	% of Layer	Analysis Date	Analyst
29-CA1-93	Old Caulking (Grey)	55%	Chrysotile	2%	08/27	HL
			Polyethylene Fibers	5%		
	New Caulking (Off-White)	45%	Binders / Fillers	93%		
			Calcite	50%		
			Binders / Fillers	50%		
30-CA2-94	Caulking (Black)	100%	Silicone Binders	100%	08/27	HL
30-CA2-95	Caulking (Black)	100%	Silicone Binders	100%	08/27	HL
30-CA2-96	Caulking (Black)	100%	Silicone Binders	100%	08/27	HL



Chain of Custody

Lab Job # 21B-11057
 Lab Job # 96PUM
 Lab Job # _____

Please call in advance for immediate, after-hour, & weekend pricing & availability.

Page 1 of 4

ASBESTOS PLM

Bulk ☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☒ 5 day
☒ Analyze All ☐ Positive Stop

PCM Air (7400)

☐ Immediate ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
 Analyze Blanks ☐ Yes ☐ No

TOTAL DUST(0500/0600)

☐ 1 day ☐ 2 day

ASBESTOS TEM

Air AHERA Method ☐ Late Night* ☐ 6 hr ☐ 12 hr ☐ 24 hr
 Air 7402 (Modified) ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
 Bulk ☐ 1 day ☐ 2 day ☐ 3 day ☐ 5 day
 Water/Wipe/Micro Vac ☐ 1 day ☐ 2 day ☐ 3 day
 Analyze Blanks ☐ Yes ☐ No

*Late night analysis surcharges apply

MOLD

Direct Exam ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
 Standard Air ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
 Expanded Air ☐ Immed ☐ 1 day ☐ 2 day ☐ 5 day
 Culture** ☐ 10-14 days
 Analyze Blanks ☐ Yes ☐ No

Turnaround of Culture Samples subject to Culture Growth

BACTERIA**

Colony Counts (CC) ☐ 3 day ☐ 5 day
 CC + Gram Stain ☐ 3 day ☐ 5 day
 Coliform & E. coli (P/A) ☐ 2-3 day
 Legionella ☐ 14 days

OTHER:

Billing Company / City: Terracon / St. Louis # of Samples: 96
 Submitter's Company: Terracon Sample Date: 8-17-21
 Submitter's Name: Shannon Starr Project #: 15217051
 Project: SIUE Building 200 Phone #: 618-719-5902
 Contact Information: Name: Shannon Starr Mobile #: _____
 E-mail Results to: Shannon.Starr@terracon.com Fax #: _____
 Invoice Address: eric.schatz@terracon.com P.O. #: _____

Please review paperwork and samples before submitting to lab. Unsealed / Improperly packaged / damaged / expired samples or excessive administrative requests may incur additional fees

Notes: _____

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
01-EP6-01	White membrane		Roof
01-EP6-02			
01-EP6-03			
02-MG7-04	Yellow Carpet adhesive		Suite 250 lobby
02-MG7-05			Hallway by 260-E
02-MG7-06			Rm 1118
03-MG3-07	4" Dark grey core base & mastic		Suite 250 lobby
03-MG3-08			Rm 240-B
03-MG3-09			Rm 1121
04-CT4-10	2'x4' Pin & dash ceiling tile		Suite 240
04-CT4-11			Suite 220 lobby
04-CT4-12			Rm 1114
05-CT4-13	2'x4' Pin & w/cm ceiling tile		Rm 250
05-CT4-14			Hallway by Rm 260-B
05-CT4-15			Rm 260-B
Released By: <u>Alan</u>		Date / Time: <u>8-19-21</u>	Received By: <u>FE</u>
Released By: _____		Date / Time: _____	Received By: _____
			Date / Time: <u>8/20/21</u>



Chain of Custody

Lab Job #	21B-11057
Lab Job #	
Lab Job #	

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Project: SIOE Building 200

Project #: 15217051

Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
06-MG3-16	4" Black cove base & mastic		Rm 281
06-MG3-17			Rm 285
06-MG3-18			Hallway
07-MG3-19	4" Dark blue cove base & mastic		Rm 220-16
07-MG3-20			Rm 1114
07-MG3-21			Rm 1112
08-MG3/MW-22	2" x 2" Tan Ceramic floor & wall tile		Suite 250 Women's restroom
08-MG3/MW-23			
08-MG3/MW-24			
09-SC5-25	Grey duct sealant		Suite 240
09-SC5-26			Suite 250
09-SC5-27			Lower level hallway by elevator
10-F12-28	12" x 12" Tan flecked floor tile		Rm 220-14
10-F12-29			Rm 220-16
10-F12-30			Rm 1114
11-MG3/MW-31	6" x 6" Army green ceramic floor tile		vestibule in suite 220
11-MG3/MW-32			
11-MG3/MW-33			
12-F12-34	12" x 12" Light blue & dark blue floor tile		Rm 220-17
12-F12-35			
12-F12-36			
13-SC6-37	Grey sink undercoating		Rm 220-17
13-SC6-38			
13-SC6-39			
14-FC1-40	Tan cork linoleum sheet flooring		Suite 290 Women's restroom
14-FC1-41			
14-FC1-42			
15-MG3-43	4" Tan cove base & mastic		Suite 280 Women's restroom
15-MG3-44			
15-MG3-45			
16-F12-46	12" x 12" Grey flecked floor tile		Rm 281
16-F12-47			



Chain of Custody

Lab Job # 21B 11057

Lab Job # _____

Lab Job # _____

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Sample #	Sample Description	Vol. / Area (if applicable)	Location / Notes
16-F12-48	12"x12" Grey flecked floor tile		Rm 281
17-CT3-49	2'x2' Pin & fissure ceiling tile		Rm 282
17-CT3-50			Rm 285
17-CT3-51			Rm 289
18-MG7/MG5-52	Yellow & black mastic under carpet		Suite 280 entry
18-MG7/MG5-53			
18-MG7/MG5-54			
19-F12-55	12"x12" Tan w/ grey flecks floor tile		Rm 286
19-F12-56			Rm 1113
19-F12-57			Rm 1112
20-MG3-58	4" Grey Core base & mastic		Lower level hallway by restrooms
20-MG3-59			Rm 1101 entry
20-MG3-60			Hallway by Rm 1121
21-F12-61	12"x12" Tan w/ brown flecks & black flecked floor tile		Rm 1121
21-F12-62			
21-F12-63			
22-F12-64	12"x12" Blue flecked floor tile		Rm 1121
22-F12-65			
22-F12-66			
23-F12-67	12"x12" Tan flecked & black flecked floor tile		Rm 1122
23-F12-68			
23-F12-69			
24-MG7/MG5-70	Yellow & black mastic under carpet		Rm 1123
24-MG7/MG5-71			
24-MG7/MG5-72			Rm 1127
25-MG3/MG4-73	2"x2" Navy blue ceramic wall tile		Lower level men's restroom
25-MG3/MG4-74			
25-MG3/MG4-75			
26-WB1-76	Drywall & joint compound		Rm 282
26-WB1-77			Rm 285
26-WB1-78			Suite 280 Rm 289
26-WB1-79			Suite 250 lobby

APPENDIX D

LEAD COATINGS LABORATORY ANALYTICAL REPORT

**EMSL Analytical, Inc.**

100 Green Park Industrial Court, Saint Louis, MO 63123

Phone/Fax: (314) 577-0150 / (314) 776-3313

<http://www.EMSL.com>saintlouislalab@emsl.com

EMSL Order: 392108431

CustomerID: TERR57

CustomerPO: 15217051

ProjectID:

Attn: **Shannon Starr**
Terracon Consultants, Inc.
11600 Lilburn Park Road
Saint Louis, MO 63146

Phone: (314) 692-8811
Fax: (314) 692-8810
Received: 8/18/2021 03:15 PM
Collected:

Project: **SIUE Building 200 / 15217051****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client Sample</i>	<i>Description</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
P01			8/24/2021	0.2526 g	0.0080 % wt	<0.0080 % wt
392108431-0001						
P02			8/24/2021	0.0398 g	0.050 % wt	<0.050 % wt
392108431-0002						
P03			8/24/2021	0.056 g	0.036 % wt	<0.036 % wt
392108431-0003						
P04			8/24/2021	0.2501 g	0.0080 % wt	<0.0080 % wt
392108431-0004						
P05			8/24/2021	0.2519 g	0.0080 % wt	<0.0080 % wt
392108431-0005						
P06			8/24/2021	0.2598 g	0.0080 % wt	<0.0080 % wt
392108431-0006						
P07			8/24/2021	0.235 g	0.0085 % wt	<0.0085 % wt
392108431-0007						
P08			8/24/2021	0.1062 g	0.019 % wt	<0.019 % wt
392108431-0008						
P09			8/24/2021	0.1074 g	0.019 % wt	<0.019 % wt
392108431-0009						
P10			8/24/2021	0.2542 g	0.0080 % wt	<0.0080 % wt
392108431-0010						
P11			8/24/2021	0.134 g	0.015 % wt	<0.015 % wt
392108431-0011						

Jeff Siria, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC-ELLAP Accredited #102636

Initial report from 08/24/2021 14:12:21

**EMSL Analytical, Inc.**

100 Green Park Industrial Court, Saint Louis, MO 63123

Phone/Fax: (314) 577-0150 / (314) 776-3313

<http://www.EMSL.com>saintlouislalab@emsl.com

EMSL Order: 392108431

CustomerID: TERR57

CustomerPO: 15217051

ProjectID:

Attn: **Shannon Starr**
Terracon Consultants, Inc.
11600 Lilburn Park Road
Saint Louis, MO 63146

Phone: (314) 692-8811
Fax: (314) 692-8810
Received: 8/18/2021 03:15 PM
Collected:

Project: **SIUE Building 200 / 15217051****Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)***

<i>Client Sample</i>	<i>Description</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
P12			8/24/2021	0.2521 g	0.0080 % wt	<0.0080 % wt
392108431-0012						
P13			8/24/2021	0.2591 g	0.0080 % wt	<0.0080 % wt
392108431-0013						
P14			8/24/2021	0.2533 g	0.0080 % wt	<0.0080 % wt
392108431-0014						
P15			8/24/2021	0.176 g	0.011 % wt	<0.011 % wt
392108431-0015						
P16			8/24/2021	0.2346 g	0.0085 % wt	<0.0085 % wt
392108431-0016						
P17			8/24/2021	0.2516 g	0.0080 % wt	<0.0080 % wt
392108431-0017						
P18			8/24/2021	0.2592 g	0.0080 % wt	<0.0080 % wt
392108431-0018						

Jeff Siria, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC-ELLAP Accredited #102636

Initial report from 08/24/2021 14:12:21



EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675

EMAIL: CinnaminsonLeadLab@emsl.com

392108431

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name: Terracon		Company Name: Terracon	
Contact Name: Shannon Starr		Billing Contact: Eric Schetz	
Street Address: 11600 Lilburn Park Rd		Street Address: 11600 Lilburn Park Rd	
City, State, Zip: St. Louis, MO 63146		City, State, Zip: St. Louis, MO 63146	
Country: U.S.		Country: U.S.	
Phone: 618-719-5902		Phone: 314-569-4367	
Email(s) for Report: Shannon.Starr@terracon.com		Email(s) for Invoice: Shannon.Starr@terracon.com	
Project Information			
Project Name/No: SIUE Building 800 / 15217051		Purchase Order:	
EMSL LIMS Project ID: (If applicable, EMSL will provide)		US State where samples collected:	
Sampled By Name: Brad Frisch		State of Connecticut (CT) must select project location:	
Sampled By Signature: [Signature]		Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable) <input type="checkbox"/>	
Turn-Around-Time (TAT)		No. of Samples in Shipment: 1	
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 32 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.			
MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT
CHIPS <input checked="" type="checkbox"/> by wt. <input type="checkbox"/> ppm (mg/kg) <input type="checkbox"/> mg/cm	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)
Reporting Limit based on a minimum 0.25g sample weight	SW 846-6010D	ICP-OES	0.0004% (4ppm)
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter
WIPE <input type="checkbox"/> ASTM <input type="checkbox"/> NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe
If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D	ICP-OES	1.0µg/wipe
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)
	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)
STLC	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
Unpreserved <input type="checkbox"/>			
Preserved with HNO3 <input type="checkbox"/> PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)
Drinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)
Unpreserved <input type="checkbox"/>			
Preserved with HNO3 <input type="checkbox"/> PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter
Other:			
Sample Number	Sample Location	Volume / Area	Date / Time Sampled
P01	Off-white on drywall / rm 255		8-18-21
P02	Black on metal door frame / rm 255		
P03	Light green on metal door frame / rm 250-29		
P04	Off-white concrete block / stairwell by 250-29		
P05	White metal I beam / stairwell by 250-29		
Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by: [Signature]	Date/Time: 8-18-21	Received by: [Signature]	Date/Time: 8/18/21 15:15w/i
Relinquished by:	Date/Time:	Received by:	Date/Time:

Controlled Document - COC-25 Lead R16 4/18/2021

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

8431

APPENDIX E
CERTIFICATIONS



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

SHANNON N STARR
201 HOWARD DR
BELLEVILLE, IL 62223

3/3/2021



ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 19909

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
				INSPECTOR	11/20/2021
ID NUMBER	ISSUED	EXPIRES			
100 - 19909	3/3/2021	05/15/2022			
SHANNON N STARR 201 HOWARD DR BELLEVILLE, IL 62223 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.	



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

BRAD M FRISCH
2668 KETTERING COURT
SAINT CHARLES, MO 63303

2/11/2021



ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 19110

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 100 - 19110	ISSUED 2/11/2021	EXPIRES 05/15/2022	INSPECTOR	1/15/2022
BRAD M FRISCH 2668 KETTERING COURT SAINT CHARLES, MO 63303 Environmental Health			PROJECT MANAGER AIR SAMPLING PROFESSIONAL	6/3/2021
			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



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

12/11/2020

LICENSE NUMBER: 1002440

Brad M Frisch
2668 Kettering Court
St. Charles, MO 63303

LICENSE APPROVED

IDPH recently received and reviewed your application for lead licensure. Your qualifications have been reviewed and found that you meet the requirements set forth by the Lead Poisoning Prevention Code, Section 845.125. Therefore, your application for lead licensure is now complete. Enclosed please find your lead license card. Please have this identification card with you at all times while conducting lead abatement activities.

IDPH has updated its 7 – Day Notice of Commencement effective immediately. The revised document can be identified by its 9/16 revision date on the bottom left corner. Please discontinue using the old form and begin using the new form as soon as possible. The revised form is located in the same web address that the old form was located (<http://www.dph.illinois.gov/sites/default/files/forms/7-day-notice-leadabatement-mitigation-project-091916.pdf>).



LEAD RISK ASSESSOR LICENSE

LEAD ID	ISSUED	EXPIRES
1002440	12/11/2020	1/31/2022

Brad M Frisch
2668 Kettering Court
St. Charles, MO 63303



ILLINOIS LEAD PROGRAM
Environmental Health

APPENDIX F

PHOTO LOG



Photo 1: View of Building 200.



Photo 2: HA 01, white membrane located on the roof.



Photo 3: HA 02, yellow carpet adhesive located in suite 250, 240, 220, 290, 280, 300, and rooms 1102 and 1103.

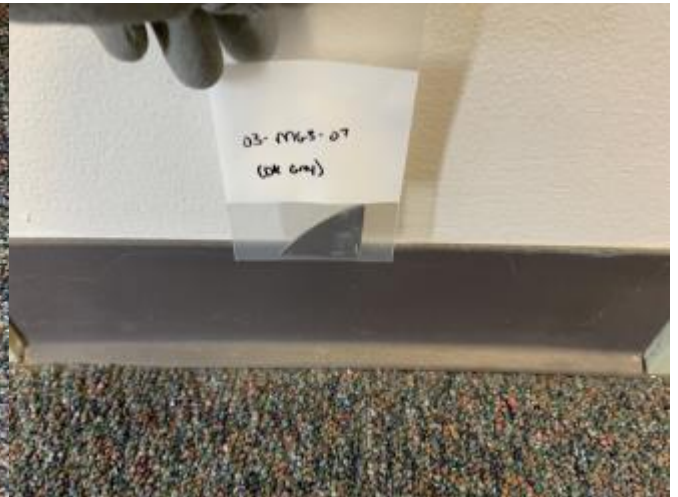


Photo 4: HA 03, 4" dark grey cove base and mastic located in rooms 255, 261, 260, 258, 1121, 1118, 1114, and suite 240.



Photo 5: HA 04, 2' x 4' pin and dash ceiling tiles located in rooms 255, 261, 260, 2568, suites 240, 290, 220, 300 and the lower level.



Photo 6: HA 05, 2' x 4' pin and worm ceiling tile located in suite 250.



Photo 7: HA 06, 4" black cove base and mastic located in suite 250 and 280 and rooms 281 and 1127.

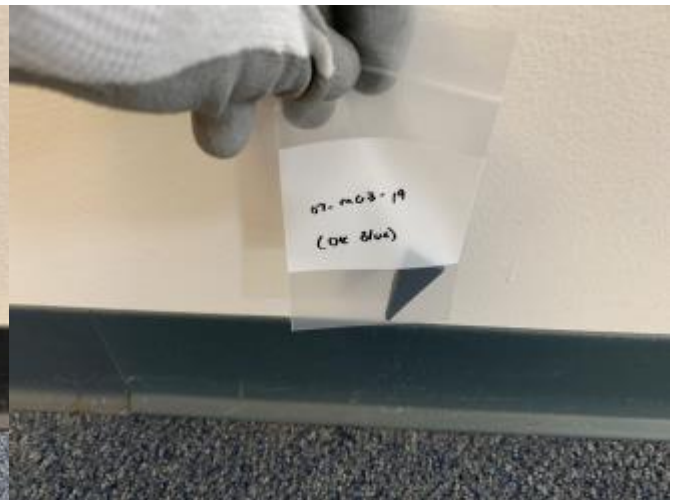


Photo 8: HA 07, 4" dark blue cove base and mastic located in room 252, 1102, 1113, 1112, 1116, 1103, and suites 220, 290, and 300.



Photo 9: HA 08, 2" x 2" tan ceramic floor and wall tile located in the public restrooms on both floors.



Photo 10: HA 09, grey duct sealant located on the HVAC seams throughout the building.



Photo 11: HA 10, 12" x 12" tan flecked floor tile located in rooms 220-12, 220-13, 1124, and 1114.



Photo 12: HA 11, 6" x 6" army green ceramic floor tile located in the restrooms in suite 220.



Photo 13: HA 12, 12" x 12" light blue and dark blue floor tile located in room 220-17.



Photo 14: HA 13, grey sink undercoating located in room 220-17.



Photo 15: HA 14, tan rock linoleum sheet flooring located in suite 290 restrooms.

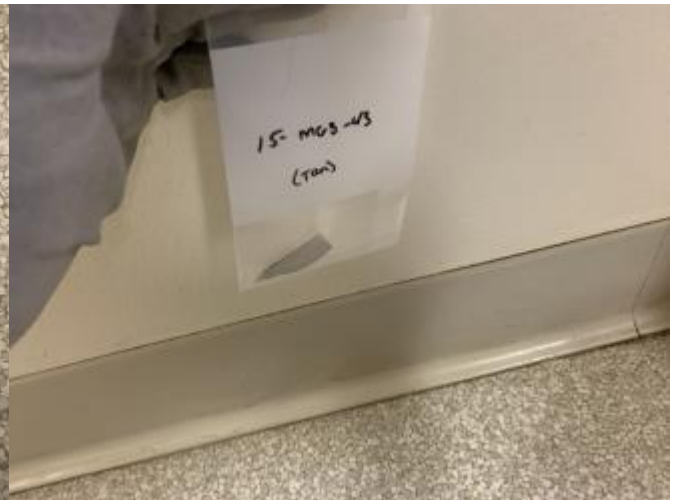


Photo 16: HA 15, 4" tan cove base and mastic located in suite 290.



Photo 17: HA 16, 12" x 12" grey flecked floor tile located in room 281.



Photo 18: HA 17, 2' x 2' pin and fissure ceiling tiles located in suite 280 and room 281.



Photo 19: HA 18, yellow and black mastic under carpet located in the entry of suite 280.

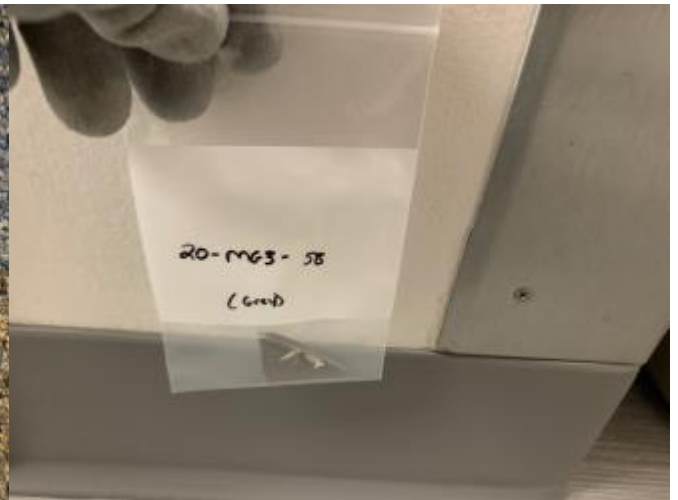


Photo 20: HA 20, 4" grey cove base and mastic located in the lower level hallways and rooms 1127, 1126, and 1130.



Photo 21: HA 21, 12" x 12" tan w/ brown flecks floor tile and black flecked floor tile located in room 1121.

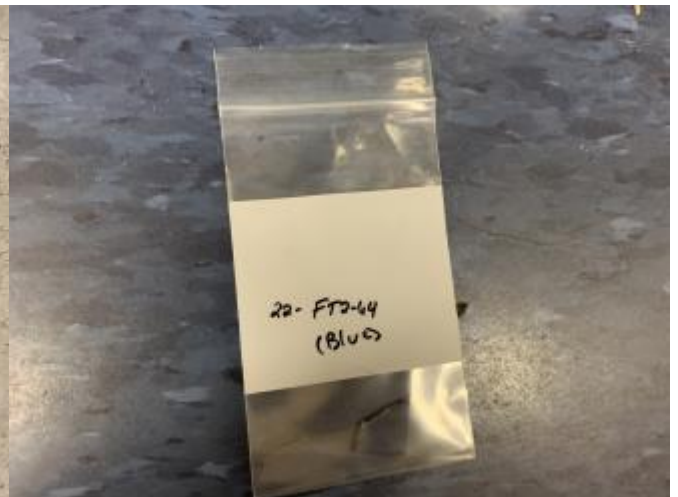


Photo 22: HA 22, 12" x 12" blue flecked floor tile located on patches in room 1121.

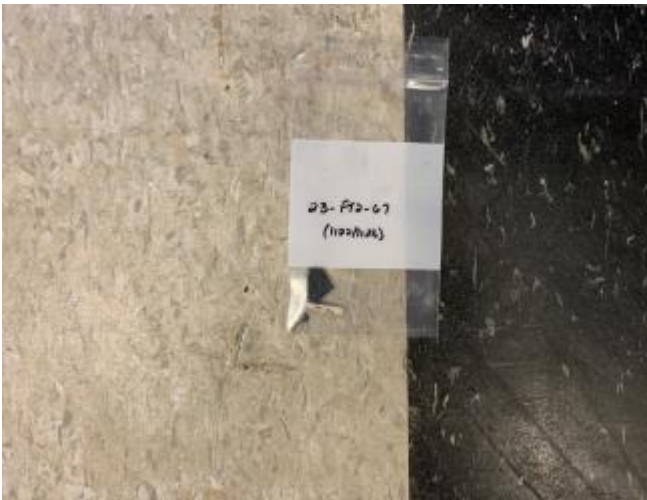


Photo 23: HA 23, 12" x 12" tan flecked and black flecked floor tile located in room 1122.

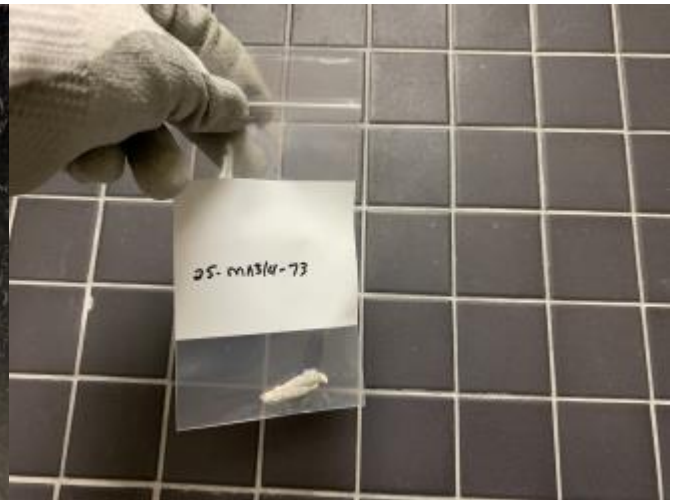


Photo 24: HA 25, 2" x 2" navy blue ceramic wall tile located in the men's lower level restroom.



Photo 25: HA 26, drywall and joint compound located throughout the building.



Photo 26: HA 27, brick grout located on the exterior.



Photo 27: HA 26, stucco located on the exterior.

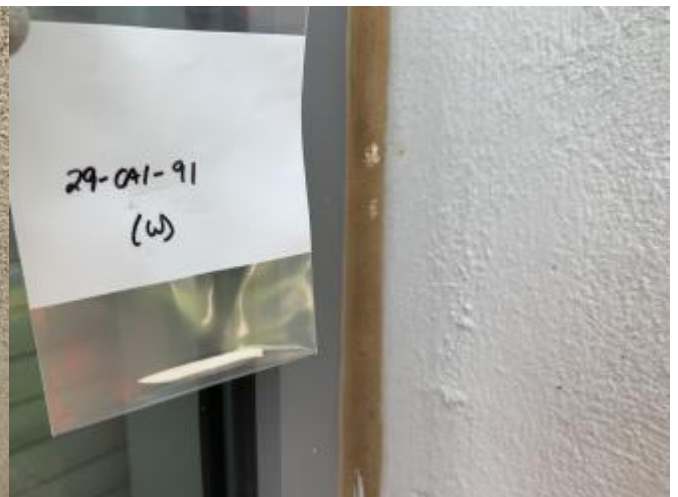


Photo 28: HA 29, **ACM white window caulk** located on the exterior lower level windows.



Photo 29: HA 30, black door caulk located on the exterior entrance doors.



Photo 1: P01, off-white paint on drywall.

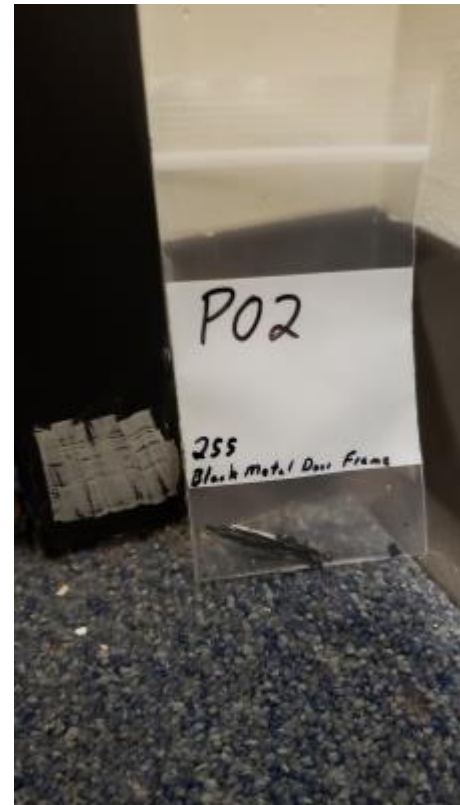


Photo 2: P02, black paint on metal door frame.

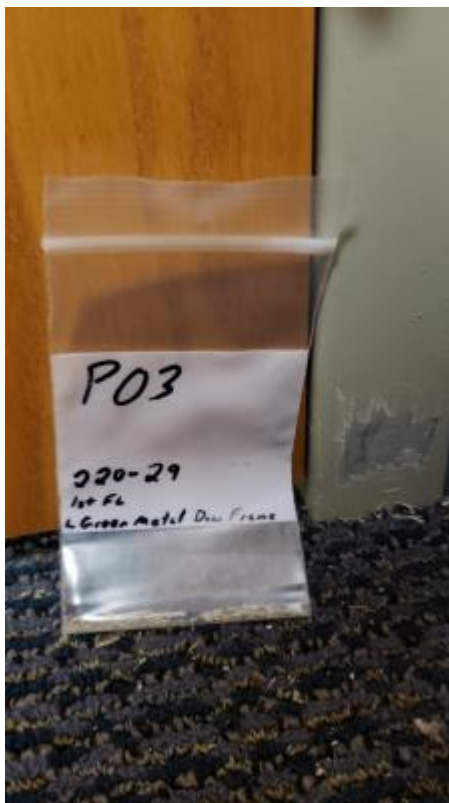


Photo 3: P03, light green paint on metal door frame.



Photo 4: P04, off-white paint on concrete block.



Photo 5: P05, white paint on metal I-beam.



Photo 6: P06, peach paint on drywall.



Photo 7: P07, grey paint on metal support beam.



Photo 8: P08, off-white paint on metal door frame.



Photo 9: P09, grey paint on drywall.

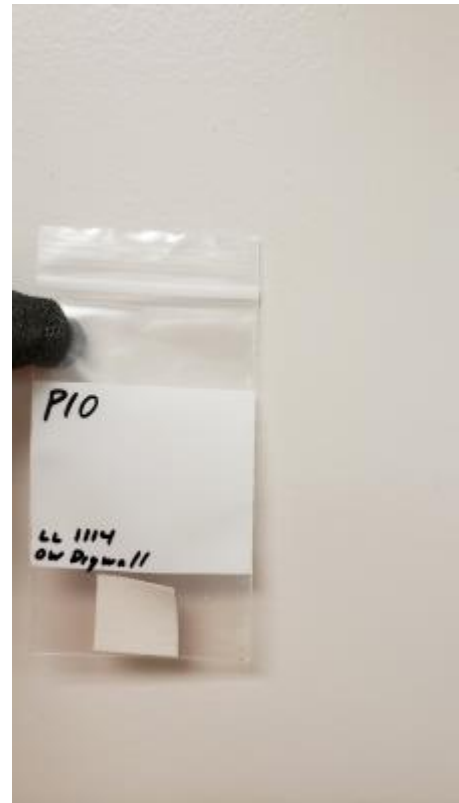


Photo 10: P10, off-white paint on drywall.

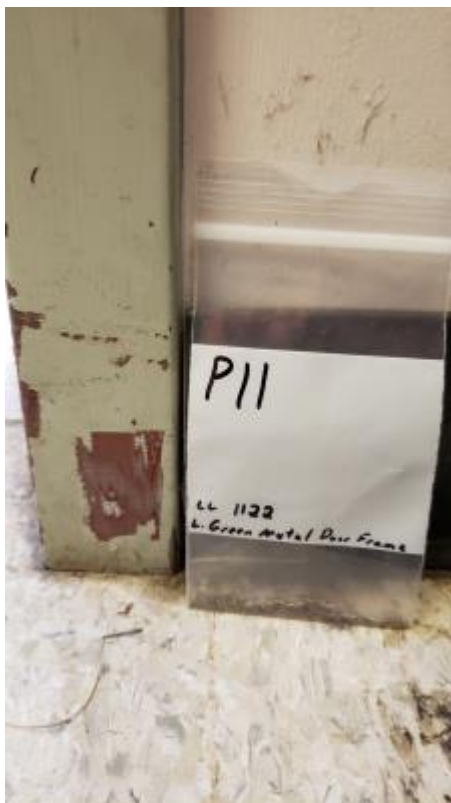


Photo 11: P11, light green paint on metal door frame.

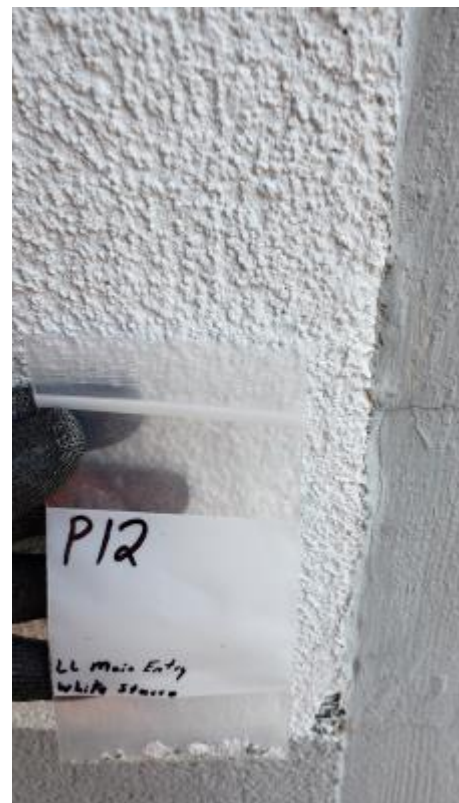


Photo 12: P12, white paint on stucco.



Photo 13: P13, light grey paint on stucco.



Photo 14: P14, tan paint on stucco.



Photo 15: P15, red paint on metal door frame.

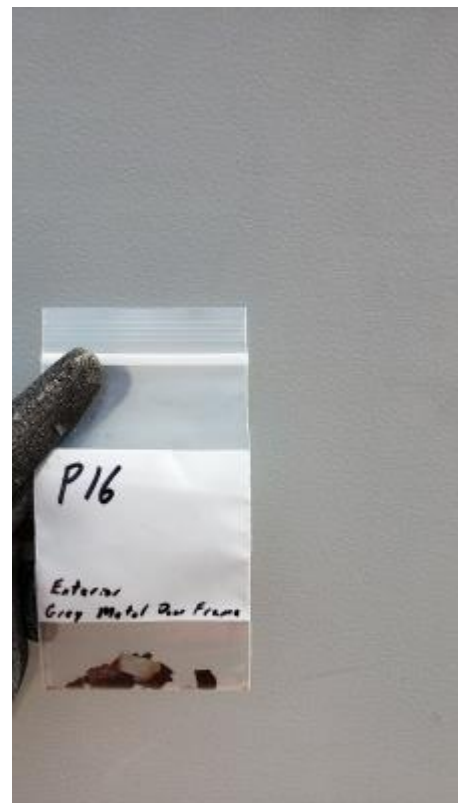


Photo 16: P16, grey paint on metal door frame.



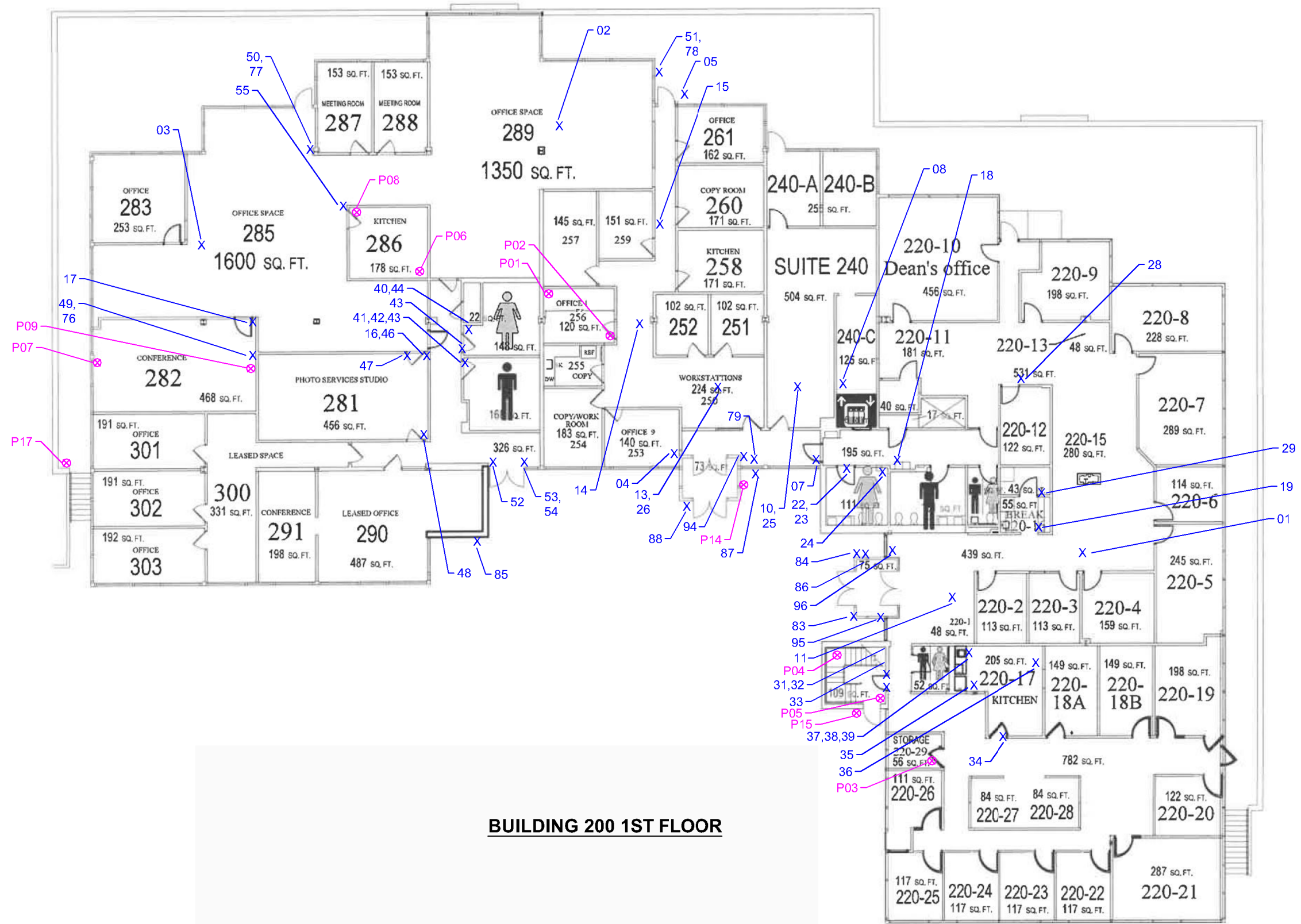
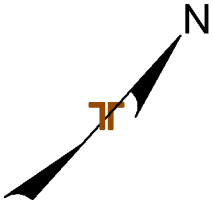
Photo 17: P17, grey paint on concrete.



Photo 18: P18, light grey paint on concrete.

APPENDIX G

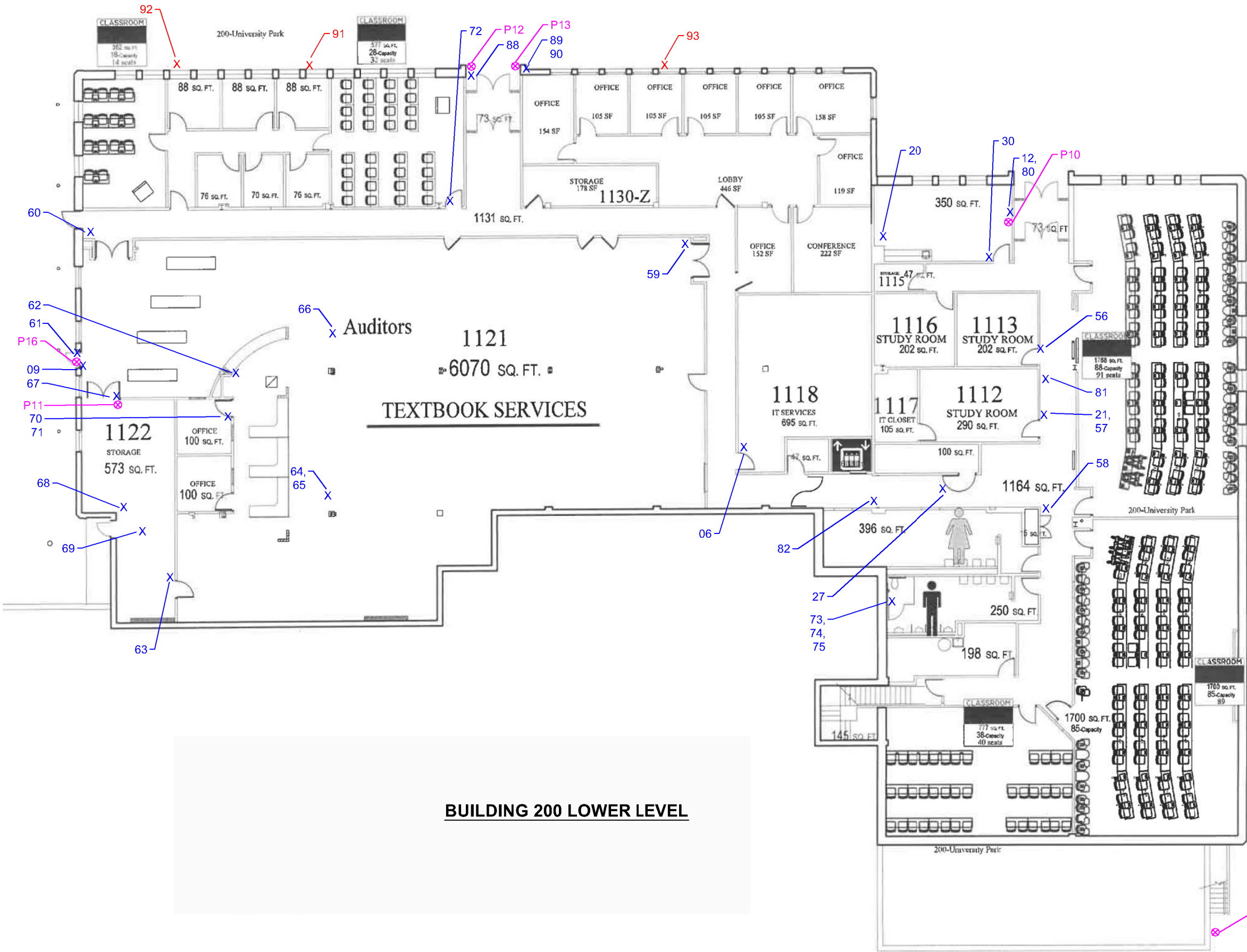
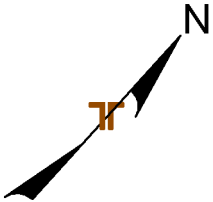
SITE DIAGRAM



BUILDING 200 1ST FLOOR

LEGEND	
X	ACM SAMPLE LOCATION
X	ACM POSITIVE SAMPLE LOCATION
X	LBP SAMPLE LOCATION

Project Mng:	SNS	Project No.	15217051	Terracon Consulting Engineers and Scientists 11600 LILBURN PARK RD SAINT LOUIS, MO 63146-3535 PH. (314) 692-8811	ASSUMED ASBESTOS-CONTAINING MATERIALS (ACMS) AND LEAD-BASED PAINT (LBP) SAMPLE LOCATIONS SIUE HEALTH SCIENCES BUILDINGS 200 AND 220 200 AND 220 UNIVERSITY PARK DRIVE EDWARDSVILLE, ILLINOIS	EXHIBIT 2
Approved By:	SNS	Scale:	NOT TO SCALE			
Checked By:	SNS	Date:	08/31/2021			
Drawn By:	DBM	File No.	S2_105.dwg			



BUILDING 200 LOWER LEVEL

LEGEND	
X	ACM SAMPLE LOCATION
X	ACM POSITIVE SAMPLE LOCATION
P	LBP SAMPLE LOCATION

Project Mng:	SNS	Project No.	15217051
Approved By:	SNS	Scale:	NOT TO SCALE
Checked By:	SNS	Date:	08/31/2021
Drawn By:	DBM	File No.	S2 105 .dwg

Consulting Engineers and Scientists

11600 LILBURN PARK RD SAINT LOUIS, MO 63146-3535
PH. (314) 692-8811

ASSUMED ASBESTOS-CONTAINING MATERIALS (ACMS) AND LEAD-BASED PAINT (LBP) SAMPLE LOCATIONS
SIUE HEALTH SCIENCES BUILDINGS 200 AND 220 200 AND 220 UNIVERSITY PARK DRIVE EDWARDSVILLE, ILLINOIS

EXHIBIT
3