

Regulated Building Materials Survey Report

Purpose: Pre-Demolition

Client:

Hahn and Associates, Inc. 434 NW 6th Avenue, Suite 203 Portland, Oregon 97209

Project:

Multiple Buildings 635-655 Manzanita Avenue Manzanita, Oregon 97130

G2 Project #: 22-1340

August 24, 2022

Prepared By:

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Regulated Building Materials Survey Report

G2 Consultants Project #: 22-1340

Purpose of Inspection:

Pre-Demolition

Scope of Inspection:

Multiple Buildings

Project Address:

635-655 Manzanita Avenue

Project Address 2:

Manzanita, Oregon 97130

Project Description:

Regulated Building Materials Survey

Owner or Facility Operator:

City of Manzanita 167 S 5th Street Manzanita, Oregon 97130

Owner or Facility
Operator Phone #:

503-812-2514

Technical Certifications					
Consultant	Discipline	Certification #	Regulatory Agency	Phone Number	
Noal Kraft	Lead-Based Paint Risk Assessor	1842-Indv-R	EPA / OR Health Authority	503-784-2941	
		9151842-RA	Oregon CCB		
	Asbestos Inspector	IR-21-1561A	EPA		

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Executive Summary

G2 Consultants (G2) was retained by Hahn and Associates, Inc. (HAI) to conduct a regulated building materials survey. The survey included a building inspection for asbestos-containing materials (ACM), lead-containing paint (LCP), and a visual inspection for universal waste and items suspected of containing mercury or polychlorobiphenyls (PCB). As part of the scope, a mold assessment was also conducted. The survey was conducted at the commercial property located at 635-655 Manzanita Avenue in Manzanita, Oregon. Authorization was provided by Gary Hahn with HAI.

Date(s) of Inspection: August 1 & 2, 2022

Purpose of Inspection: Pre-Demolition

Scope of Inspection: Regulated Building Materials Survey

Asbestos

Results of this inspection have determined that asbestos is present in the following materials:

Asbestos-Containing Materials Identified or Presumed - Overview					
Material Description	Material Location	Approx. Quantity	Condition	Friable Y/N	
Floor Tile, 9" x 9" Blue & Black Mastic	Areas 1-8, 10 and 11 Floor tile and mastic are located on the counters in Area 8 and potentially under cabinets/fixtures and walls throughout.	860 sq. ft. 3,690 sq. ft. (Under Carpet) 300 sq. ft. (Under Various Flooring Materials)	Good	N*	
Light Fixture Insulation	Areas 1, 2, 3, 7, 8, 10 and 11 (Note: Some of the lights have been removed and are located on counters and in cabinets)	40 fixtures	Good	Y	
Texture, Drywall & Joint Compound	Throughout Areas 1-15. (Note: Drywall was observed above ceiling tile, and behind plaster in some locations. Therefore it is assumed to throughout Areas 1-15).	19,400 sq. ft.	Fair-Good	Υ	

Asbestos-Containing Materials Identified or Presumed - Overview					
Material Description	Material Location	Approx. Quantity	Condition	Friable Y/N	
AirCell Pipe Insulation	Material observed in attics of Areas 1, 3, 4, 5 and 6. It was also observed in Area 9 and assumed to be throughout Buildings 1 and 2. Bagged Insulation was also observed in Areas 9 and 17	300 lf.	Fair-Poor	Y	
Pipe Fitting Insulation	Material observed in attics of Areas 1, 3, 4, 5 and 6. It was also observed in Area 9 and assumed to be throughout Buildings 1 and 2. Bagged Insulation was also observed in Areas 9 and 17	60 Fittings	Fair-Poor	Y	
Boiler Insulation	Area 9	80 sq. ft.	Fair-Poor	Y	
Silver Coating	Building 3 - Exterior and Debris Present on Ground	5,300 sq. ft.	Poor	Y	
Roof Patch & Repair Material, Black	Buildings 1 and 2 Roof	425 sq. Ft.	Good	N*	
Silver Coating on Built up Roofing	Buildings 1 and 2 Roof	8,870 sq. ft.	Good	Υ	

^{* -} This material may become friable during abatement activities

Lead-Containing Paint

Results of the inspection have determined that lead-based paint (LBP) was identified in multiple areas throughout the interior and exterior of the structures, that is equal to or above the concentration of 1.0 milligram per centimeter squared (mg/cm²). LCP below the threshold concentration of 1.0 mg/cm² was identified on additional painted components. One non-paint material, a sink, was identified with a lead concentration equal to or above the threshold of 1.0 mg/cm².

Universal Waste, Mercury and PCBs

Results of the inspection indicate that items suspect for containing mercury and PCBs, or that are classified as universal waste, such as fluorescent tubes, ballasts, and thermostats were present in the structures included as part of this scope of work.

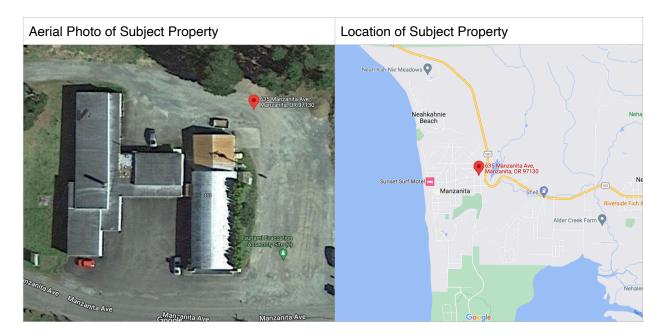
Mold

Results of the inspection indicate that staining and mold growth was observed throughout the four buildings. Based on the results of the non-viable mold air samples collected in representative locations, the presence of elevated presence of airborne fungal spore concentrations were identified, when compared to outdoor levels.

Details of the inspection, descriptions and locations of materials, quantities, condition and friability can be found in the following sections of this report.

Description of Structure(s)

Type of facility:	Multiple Buildings
Past uses:	School, Commercial and Storage
Age of construction:	~1948
Approximate square footage:	10,785 sq. ft.
Number of floors:	Single Story
Outbuildings included in inspection:	None



Scope of Inspection

G2 was contracted by HAI to perform a regulated building materials survey. The survey included a building inspection for ACM, LCP, and a visual inspection for PCBs, mercury and universal waste. As part of the scope, a mold assessment was also conducted. The survey was conducted at the property located at 635-655 Manzanita Avenue, in Manzanita, Oregon. The scope of work included the interior, exterior, attic and roof, as specified by HAI.

The site includes two buildings, with a covered corridor between them, that represents the original school on the west side of the property. These buildings were vacant and not currently utilized. On the east side of the property, is a Quonset hut building utilized for storing the cities' emergency response equipment. A fourth building/garage is attached to the Quonset hut, and is currently used to store maintenance equipment.

Asbestos

The scope of services was to perform a visual and tactile inspection, and identify the presence, quantity, and location of the accessible ACM, within the area(s) of the scope of work. All identified accessible suspect materials were sampled. Some destructive sampling techniques were utilized during this survey to gain access to potentially hidden materials. Additional suspect materials may be present in other interstitial spaces that were inaccessible at the time of the site visit.

Lead-Containing Paint

Readings of the lead content of painted surfaces throughout the interior and exterior of the structures were collected using an X-Ray Fluorescence (XRF) device. The readings were taken on the predominant interior and exterior colors of paint to provide a general understanding of the distribution of lead in these surfaces.

Universal Waste, Mercury and PCBs

A visual inspection of the buildings was conducted for the presence of universal waste and items suspected to contain PCBs and mercury.

Mold

G2 performed a visual assessment and air sampling for fungal growth and moisture-related issues at the site. The purpose of the investigation was to conduct a visual assessment, to address the concerns related to suspect mold growth, and recommend corrective actions.

Inspection Findings

Asbestos

Results of the survey indicate that asbestos is present in the materials listed in the table below and following pages:

Asbe	Asbestos-Containing Materials Identified						
HM No.†	Material Description	Material Location	No. of Samples	Approx. Quantity	Asb. Type & Percent	Condition	Friable Y/N
4/5	Floor Tile, 9" x 9" Blue & Black Mastic	Areas 1-8, 10 and 11 Floor tile and mastic are located on the counters in Area 8 and potentially under cabinets/fixtures and walls throughout.	2	860 sq. ft. 3,690 sq. ft. (Under Carpet) 300 sq. ft. (Under Various Flooring Materials)	Tile - Chrysotile 7% Mastic - 2% Chrysotile	Good	N*
9	Light Fixture Insulation	Areas 1, 2, 3, 7, 8, 10 and 11 (Note: Some of the lights have been removed and are located on counters and in cabinets)	2	40 fixtures	Chrysotile 90%	Good	Y
11/12	Texture, Drywall & Joint Compound	Throughout Areas 1-15. (Note: Drywall was observed above ceiling tile, and behind plaster in some locations. Therefore it is assumed to throughout Areas 1-15)	3	19,400 sq. ft.	Texture - Chrysotile 2% Joint Compound - Chrysotile 3% Drywall - ND	Fair - Good	Y

Asbe	Asbestos-Containing Materials Identified						
HM No.†	Material Description	Material Location	No. of Samples	Approx. Quantity	Asb. Type & Percent	Condition	Friable Y/N
24	AirCell Pipe Insulation	Material observed in attics of Areas 1, 3, 4, 5 and 6. It was also observed in Area 9 and assumed to be throughout Buildings 1 and 2. Bagged insulation was also observed in Areas 9 and 17	3	300 lf.	Chrysotile 70%	Fair-Poor	Y
27	Pipe Fitting Insulation	Material observed in attics of Areas 1, 3, 4, 5 and 6. It was also observed in Area 9 and assumed to be throughout Buildings 1 and 2. Bagged insulation was also observed in Areas 9 and 17	3	60 Fittings	Chrysotile 15% Amosite 15%	Fair-Poor	Y
28	Boiler Insulation	Area 9	3	80 sq. ft.	Chrysotile 20% Amosite 10%	Fair-Poor	Υ
30	Silver Coating	Building 3 - Exterior and Debris Present on Ground	3	5,300 sq. ft.	Chrysotile 5%	Poor	Υ
34	Roof Patch & Repair Material, Black	Buildings 1 and 2 Roof	2	425 sq. Ft.	Chrysotile 3%	Good	N*

Asbe	Asbestos-Containing Materials Identified						
HM No.†	Material Description	Material Location	No. of Samples	Approx. Quantity	Asb. Type & Percent	Condition	Friable Y/N
35	Silver Coating on Built-up Roofing	Buildings 1 and 2 Roof	4	8,870 sq. ft.	Silver Coating: Chrysotile 4% Felt: ND Shingle: ND Tar: ND Insulation: ND	Good	Y

Results of the survey indicate that asbestos was not detected in the following materials:

Non-	Non-Asbestos-Containing Materials					
HM No.†	Material Description	Material Location	No. of Samples			
1	Plaster	Throughout Areas 1-15	5			
2	Drywall behind Plaster	Throughout Areas 1-15	2			
3	Brown Adhesive behind Wallboard	Area 2	2			
6	Ceiling Tile, 12" x 12" w/ Holes	Areas 1, 2, 3, 10 and 11	2			
7	Reflective Paper behind 12" x 12" Ceiling Tile w/ Holes	Areas 1, 2, 3, 10 and 11	2			
8	Fiberglass Insulated Pipe Wrapping (4" OD)	Area 2	3			
10	Carpet Glue, Tan	Areas 1, 3, 4, 5, 6, 7, 10, 11 and 12	3			
13	2nd-Layer Floor Material, under Carpet	Area 3, on Ramp	2			
14/ 15	Cove Base, 4" Brown (Painted white in some areas) and Brown Adhesive	Area 7	2			
16	Ceiling Tile, 1' x 2' Smooth	Area 7	2			
17	Ceramic Tile & Mortar	Area1 1 and 10	2			

^{† -} Homogeneous material number * - This material may become friable during abatement activities

Non-	Non-Asbestos-Containing Materials					
HM No.†	Material Description	Material Location	No. of Samples			
18	Grout from Ceramic Tile	Area1 1 and 10	2			
19	Black Adhesive behind Cork Board	Areas 10 and 11	2			
20	Black Adhesive behind 12" x 12" Ceiling Tile w/ Holes	Areas 1, 2, 3, 10 and 11	2			
21	Batt Insulation Paper Backing	Attic - Throughout Buildings 1 and 2	2			
22	Fiberglass Batt Insulation Backing	Throughout Buildings 1 and 2	2			
23	Marmoleum Flooring, Brown	Area 1	2			
25	Silver Paint	Area 17 - Interior	3			
26	Building Felt behind Exterior Siding	Buildings 1 and 2	2			
29	Window Putty	Buildings 1 and 2	2			
31	Chimney Brick	Building 1 - Roof	2			
32	Chimney Mortar	Building 1 - Roof	2			
33	Roof Patch & Repair Material, White	Buildings 1 and 2	2			

^{† -} Homogeneous material number

Additional bagged/stored asbestos-containing thermal system insulation (TSI), including pipe/fitting insulation was observed in Areas 9 and 18.

Details of the samples collected, including locations of individual samples can be found in Appendix C: Laboratory Results and Chain of Custody

Lead-Containing Paint

The types of components listed in the table below and on the following page indicate the presence of lead at or above the Environmental Protection Agency Renovation, Repair and Painting Rule (EPA RRP) and the U.S. Department of the Housing and Urban Development (HUD) Guidelines action level. The EPA and HUD definition of "positive" LBP is lead equal to or greater than 1.0 mg/cm². Additional details including reading number, floor, substrate, side, color and lead content details are located in the XRF Readings Table found in Appendix D.

Identified Components with Lead Equal to or Greater than 1.0 mg/cm ²				
Location	Component	Condition	Result	
Bldgs. 1 and 2 - Interior	Window Sill	Intact-Poor	LBP	

Identified Components with Lead Equal to or Greater than 1.0 mg/cm ²				
Location	Component	Condition	Result	
Bldgs. 1 and 2 - Interior	Window Trim	Intact-Fair	LBP	
Bldgs. 1 and 2 - Interior	Window	Intact-Poor	LBP	
Bldgs. 1 and 2 - Interior	Baseboard	Intact - Poor	LBP	
Bldgs. 1 and 2 - Interior	Door	Intact-Fair	LBP	
Bldgs. 1 and 2 - Interior	Door Trim	Intact	LBP	
Bldgs. 1 and 2 - Interior	Door Jamb	Intact	LBP	
Bldgs. 1 and 2 - Interior	Sink	Intact	Positive	
Bldgs. 1 and 2 - Exterior	Window	Intact - Poor	LBP	
Bldgs. 1 and 2 - Exterior	Siding	Fair	LBP	
Bldgs. 1 and 2 - Exterior	Window Sill	Intact-Fair	LBP	
Bldgs. 1 and 2 - Exterior	Ceiling of Corridor	Intact-Fair	LBP	
Bldgs. 1 and 2 - Exterior	Door Trim	Fair	LBP	
Bldg 3 - Exterior	Roof	Poor	LBP	
Bldg 3 - Exterior	Siding/Roofing	Poor	LBP	
Bldg 3 - Exterior	Door Trim	Intact	LBP	

Readings in the table noted as LBP, are paint films with lead concentrations at or above 1.0 mg/cm². Readings in the table noted as Positive, are non-painted surfaces, such as ceramic tile, with lead concentrations at or above 1.0 mg/cm²

The table is not intended to provide an exhaustive list of all LBP on the subject property. Readings of representative painted surfaces throughout the interior and exterior of the structure(s) were collected in order to provide the property owner a general indication of the distribution of lead for renovation or demolition purposes. Not all painted components were tested as part of this LCP inspection. This table lists only those unique testing combinations (building, component and substrate) that were determined by XRF to contain lead equal to or greater than 1.0 mg/cm². If one testing combination in a building (i.e. wood door jambs) is determined to be LBP, then all other equivalent components in that building should also be assumed to be LBP.

A total of two stained glass windows (approximately 2.5' x 3') were also observed in Areas 4 and 5. These types of windows often contain lead in the channels that join the glass together or "came", and the solder.

Universal Waste, Mercury and PCBs

Results of the inspection indicate that items suspect for containing mercury and PCBs, or that are classified as universal waste, such as fluorescent tubes and ballasts were present in the structure s included as part of this scope of work. The following is a list of items observed:

4' Fluorescent Tubes: ~19
8' Fluorescent Tubes: ~18
Compact Fluorescent Bulbs: ~3

Ballasts: ~20Thermostats: ~3

Additional stored and packaged fluorescent tubes and ballasts were observed in Building 3/Area 18.

Mold

Based on the visual assessment, mold growth and staining is present throughout all of the buildings on site. Additionally, the non-viable air sample results identified an elevated presence of airborne fungal spore concentrations in several areas.

Results of Microbial Air Sampling

Two outdoor air samples were collected from the south and north exteriors of the buildings to serve as a control group for comparison. Eight indoor air samples were collected in representative areas throughout the buildings.

The fungal spore concentrations identified by the samples collected were elevated in several areas, when compared to the amount identified outdoors. The microbial air sampling results are only representative of conditions that were present at the time of this assessment. The details of the microbial air sampling are provided in the table below and on the following page:

Microbial Air Sampling Results

Sample ID	Sample Description	Sample Location	Confirming Results*
22-1340-080122-OA1	Air Sample - Non-Viable (Control)	Outdoors - South Side of the Property	Control
22-1340-080122-IA1	Air Sample - Non-Viable	Indoors - Area 1	-
22-1340-080122-IA2	Air Sample - Non-Viable	Indoors - Area 3	Penicillium/Aspergillus
22-1340-080122-IA3	Air Sample - Non-Viable	Indoors - Area 7	Penicillium/Aspergillus
22-1340-080122-IA4	Air Sample - Non-Viable	Indoors - Area 8	Penicillium/Aspergillus
22-1340-080122-IA5	Air Sample - Non-Viable	Indoors - Area 10	Penicillium/Aspergillus
00 1040 000100 IAC	Air Caranla Nan Viabla	Jadeeus Ause 11	Penicillium/Aspergillus
22-1340-080122-IA6	Air Sample - Non-Viable	Indoors - Area 11	Cladosporium

Sample ID	Sample Description	Sample Location	Confirming Results*
22-1340-080122-IA7	Air Sample - Non-Viable	Indoors - Area 16	-
22-1340-080122-IA8	Air Sample - Non-Viable	Indoors - Area 17	-
22-1340-080122-OA2	Air Sample - Non-Viable (Control)	Outdoors - North Side of the Property	Control

^{*} Results shown in the table only reflect data which indicates elevated fungal spore concentrations. For a complete list of the specific fungal types that were present, see laboratory analytical report in Appendix C.

Results of Visual Inspection

Area 1:

Staining was observed on the ceiling tile. Visible mold growth (VMG) was observed on the North door and at the windows/shades.

Area 2:

Staining was observed on the ceiling tile, around windows and the base of the walls. VMG was observed on the interior of the wall, on the back wallboard.

Area 3:

Staining was observed on the ceiling tile. VMG was observed on the East windows.

Area 4:

Staining was observed on the carpet. VMG was observed on the windows.

Area 5:

Staining was observed on the carpet. VMG was observed on the windows.

Area 6:

Staining was observed on the ceiling tile. VMG was observed on the East windows.

Area 7:

Staining was observed on the ceiling tile. VMG was observed on the East windows and West door and windows.

Area 8:

VMG was observed on the West windows.

Area 10:

VMG was observed on the West windows and door on the East side of the room.

Area 11:

Staining was observed on the ceiling tile and carpet on the West side of the room. VMG was observed on the West windows and window shades.

Area 15:

Staining and degradation was observed North and West walls and windows. A portion of the ceiling had been removed, which appeared to be due to water intrusion. VMG was observed on the bathroom stalls.

Area 16:

Staining and VMG was observed on ceiling tiles throughout this area.

Area 17:

Staining was observed throughout the walls/ceiling. Degradation of the wood around the base of the walls were observed. VMG was observed in the NW corner of the building.

On the day of the assessment, all recorded interior temperature readings were within the American Society of Heating Refrigeration and Air-Conditioning Engineers (ASHRAE) recommended range of 67-82 °F. All recorded relative humidity readings were below the recommended upper limit of 65% published by ASHRAE Standard 62.1-2013, *Ventilation for Acceptable Indoor Air Quality*.

Temperature and relative humidity measurements were collected in each area and all were within industry acceptable ranges at the time of this assessment. Overall, signs of water intrusions from the roofs, building envelope and potential window failures were observed as the likely source. Lack of ongoing building conditioning appears to have also contributed to mold growth on items such as window shades.

Recommended Response Actions

Asbestos

Asbestos-Containing Materials (ACM)

Any building material which contains asbestos in an amount greater than 1% is considered ACM by the the United States Environmental Protection Agency (EPA), Occupational Safety and Health Administration (OSHA), the State of Oregon Department of Environmental Quality (DEQ) and the Oregon Occupational Safety and Health Division (OR-OSHA).

Laboratory results of the survey have determined that multiple materials throughout the structures included in this scope of work are considered ACMs.

- The floor tile, roofing materials on buildings 1 and 2, and light fixtures were found to be in good condition.
- Small holes were observed in several walls.
- Damaged TSI was observed in the boiler room.
- Bagged/stored TSI (pipe/fitting/boiler insulation) was observed in Areas 9 and 18
- Silver coating is in poor condition on the exterior of building 3, with debris present on ground around the building.

All identified and presumed ACM must be removed by licensed asbestos abatement contractor, or other certified individual, prior to impact if they are to be disturbed during renovation or demolition activities.

Any damaged/stored ACM or materials likely to be disturbed during renovation or demolition activities, other than by incidental contact with no generation of debris related to other construction activities, should be abated by a licensed asbestos abatement contractor. Any activities conducted where the primary object of the activity is the removal of ACM must be conducted by a licensed asbestos abatement contractor or other properly trained individuals.

The National Emissions Standards for Hazardous Air Pollutants (NESHAPs) requires that all Regulated Asbestos-Containing Materials (RACMs) be removed from a building prior to demolition.

Asbestos-Containing Materials - 1% Asbestos or Less

Any building material which contains asbestos in an amount of 1% or less is considered asbestos-containing by OSHA, and by OR-OSHA. Although these materials are not considered ACMs, workers must be protected from exposure to asbestos, regardless of the percentage.

No materials sampled were found to contain 1% or less asbestos.

Lead-Containing Paint

Results of the inspection have determined that LBP was identified in multiple areas throughout the interior and exterior of the structures, that is equal to or above the concentration of 1.0 mg/cm². LCP below the threshold concentration of 1.0 mg/cm² was identified on additional painted components. One non-paint material (sink) was identified with a lead concentration equal to or above the threshold of 1.0 mg/cm².

LBP films could create lead dust or lead contaminated soil hazards if the paint is turned to dust by abrasion, scraping or sanding. If conditions of intact paint surfaces become destabilized, these conditions will need to be addressed. All paint films in poor condition must be stabilized if the structure is to be demolished. If any construction or modernization work is done on the premises, this report should be given to the contractor(s). OSHA/OR-OSHA have requirements for employees working with or around LCP.

Contractors and other personnel who may impact these materials should be informed of the results of this inspection. LBP is a common cause of lead poisoning in children and represents a threat to the health and welfare of the occupants. Where economically feasible, it is our recommendation that all components that tested positive, and any similar untested components, be considered lead-laden, and lead-safe procedures are incorporated into any overall renovation and maintenance strategy in order to reduce the potential for contamination and/or exposure. Safe methods include: containing any work area to prevent dispersal of lead dust and chips, wet sanding and scraping at a minimum; collecting all paint chips and debris and, properly disposing of them.

Details of the locations and lead content for all of the readings can be found in Appendix D: XRF Readings Table.

If additional painted surfaces are discovered that were not tested as part of this inspection, or that are expected to be impacted as part of any renovation or demolition work, they should be presumed LBP until tested to show otherwise.

A risk assessment has not been conducted to evaluate potential lead hazards present at the building and surrounding soil as part of this scope of work.

Universal Waste, Mercury and PCBs

Results of the inspection indicate that items suspect for containing mercury and PCBs, or that are classified as universal waste, such as fluorescent tubes, ballasts, and thermostats were present in the structures included as part of this scope of work. These items must be disposed of properly.

Mold

Based on the findings of this assessment, G2 recommends that the following corrective actions are performed, using qualified industry professionals as appropriate:

- The identified areas of water-related damage were likely caused by roof leaks, water intrusion through the exterior building envelope and lack of conditioning in the buildings. G2 recommends that the roof and exterior walls/building envelope be inspected for potential leaks and addressed as necessary by a qualified industry professional. If no leaks can be identified from the exterior, consider removing a portion of the interior walls and/or insulation covering the underside of the roof deck to determine the pathway of the water intrusion issue. All work should be completed by qualified industry professionals.
- G2 recommends that future water intrusions be promptly responded to by qualified industry professionals, and that water extraction services be performed in accordance with industry best practices as detailed in the Institute of Inspection, Cleaning and Restoration Certification (IICRC) S500 Standard and Reference Guide for Professional Water Damage Restoration.
- G2 recommends that indoor environmental conditions be controlled, if feasible, in order to prevent elevated indoor relative humidity levels. Relative humidity is the ratio of vapor pressure in air compared to the vapor pressure of that air if it were completely saturated at the same temperature, expressed as a percentage. For the purpose of managing moisture in buildings, G2 recommends adhering to industry best practices of implementing effective condensation control measures to keep the dew point below the temperature of indoor surfaces. The dew point can be lowered by installing and maintaining proper HVAC systems to control indoor humidity. It's recommended that the dew point be keep to below 55°F (i.e. maximum 50% relative humidity when indoor temperature is 75°F). Properly designed and installed HVAC systems remove the large and nearly continuous humidity load from incoming ventilation and makeup air, and smaller humidity loads from indoor sources may be removed by exhaust systems, increased natural ventilation, and dehumidification systems when the dew point rises above 55°F.
- An indoor environment contaminated with the presence of actual mold growth equal to or greater than 10 square feet should be remediated within a containment. The type of containment should be guided by how much building material and/or contents are impacted. If mold remediation is performed, G2 recommends it be performed by qualified, industry professionals who adhere to industry best practices and the guidance documents listed in the attached resources. All building materials exhibiting mold growth should be removed to 18" beyond visible staining and/or mold growth. Remediation should be conducted in a manner that limits the amount of mold that is aerosolized and limits aerosolized materials in the workspace. After completion of remediation activities, a post remediation verification inspection and mold air clearance sampling is recommended to confirm the absence of elevated mold spore concentrations within the contained work area

prior to any removal of engineering controls.

Prior to these materials being impacted, asbestos content of the materials being impacted must also be considered to ensure federal, state and local regulatory agency requirements are being met.

Methodology

Asbestos

The field work was conducted using industry best practices. Samples of representative accessible suspect materials within the scope of work were collected during the course of the inspection. Materials were sampled according to homogeneous groupings using the Asbestos Hazard Emergency Response Act (AHERA) sampling guidelines.

Samples were collected in such a manner as to minimize release of the material into the surroundings. Sample number, material description, sample location and material location were recorded at the time of sampling. Each sample was placed in a sample container labeled with a unique sample number and submitted to Southeast Environmental Microbiology Laboratories, an NVLAP-accredited laboratory, for analysis under chain of custody documentation. Samples were analyzed in accordance with EPA Method 600/R-93-116, using PLM with dispersion staining and using visual area estimation to determine percent asbestos content. This method allows for the identification of the primary types of asbestos used in building materials. The lower limit of detection for this method is one percent. Samples containing one percent or less asbestos by PLM with visual area estimation are reported as "Trace". Limited destructive sampling techniques were utilized during this survey to gain access to potentially hidden materials. Additional suspect materials may be present in other interstitial spaces that were inaccessible at the time of the site visit.

Lead-Containing Paint

All testing of suspect LCP was conducted utilizing a Niton X-ray fluorescence LBP analyzer, Model XLp-300A bearing Serial #25643. The source type, cadmium-109 (Cd¹⁰⁹), was sourced on April 29, 2020. G2 followed the Performance Characteristics Sheets (PCS) for the specific X-Ray fluorescence instrument used during the LBP evaluation of the property. The XRF PCS is presented in Appendix E. The instrument was calibrated to the manufacturer's specifications and was also periodically verified against the National Institute of Standards and Testing (NIST) Standard Reference Material (SRM) 2579 lead film (1.0 mg/cm²).

The calibration of the instrument is conducted in accordance with the PCS for this instrument. These instruments are calibrated using a calibration standard block of known lead content. If for any reason the instruments do not maintain a consistent calibration reading within the manufacturer's standards for performance on the calibration block supplied by the manufacturer, manufacturer's recommendations are used to bring the instrument into calibration. If the instrument cannot be brought back into calibration, it is taken off the site and sent back to the manufacturer for repair and/or re-calibration.

Wall "A" in each room is the wall where the front entrance door opening is located (or aligned with street). Going clockwise and facing Wall "A", Wall "B" will always be to your right, Wall "C" directly to the rear and Wall "D" to the left. Doors, windows and closets may be designated as left, center or right depending on their location on the wall. Doors, windows, and closets are designated as left, center or right depending on their location on the wall.

All individuals who performed this XRF testing and visual assessment have EPA and/or state licenses as Lead Inspector/Risk Assessors and have been trained in the use, calibration and maintenance of the XRF, along with the principles of radiation safety, in accordance with the work practices of 40 CFR 745, section 227, for states and Native American tribal groups.

PCBs and Mercury-Containing Materials

As part of this survey, a visual inspection for PCBs and mercury-containing components and universal waste was conducted. Items known to be suspect for PCBs, if identified, were quantified and catalogued.

Mold

Visual Assessment

G2's assessment included a thorough visual inspection of the subject building site with photo documentation. During the inspection all suspect areas, determined by building history and the inspector's professional judgement, are examined and documented. A Surveymaster Protimeter dual-function moisture meter was used to determine moisture content of building materials. This is a direct read device which was used in Search mode to obtain relative moisture measurements of materials up to 3/4" beneath the surface. The moisture readings of these materials are compared to like building materials in non-affected areas as well as to industry standard moisture content standards. A FLIR One infrared camera is used to view a visual spectrum of thermal energy. This direct read device detects temperatures from -20 °F to 120 °F and has a thermal sensitivity of 100 mK.

Microbial Air Sampling

Air-O-Cell cassettes were used for particulate air sampling for bioaerosols. The cassettes are designed for rapid collection and analysis of a wide range of airborne bioaerosols including fungal spores. The sample pump was calibrated at a flow rate of 15 liters per minute and samples were collected for 5 minutes for a total sample volume of 75 liters. Samples were sent to an accredited laboratory and analyzed by light microscopy. Sample results are given in spores per meter cubed (S/m³), and are adjusted for outdoor control samples.

All microbial samples collected were individually labeled and submitted for analysis to EMLab P&K, a participating laboratory in the American Industrial Hygiene Association (AIHA) Environmental Microbiology Laboratory Accreditation Program (EMLAP).

Limitations

G2 has performed this inspection in accordance with best industry methods and practices of the profession, and consistent with the level of care and skill ordinarily exercised by reputable environmental consultants under similar circumstances and conditions. The observations contained within this assessment are based upon site conditions readily accessible at the time of the site inspection. No other representation, guarantee or warranty, express or implied, is included or intended in this hazardous materials survey report. If any untested suspect materials are encountered during demolition activities, they should be assumed to be ACM and not disturbed, unless sampling and analysis of the materials proves otherwise.

The LBP portion of the inspection was planned, developed, and implemented based on G2's professional experience in performing LBP inspections. G2 performed a limited inspection for lead-containing paint of the predominant painted surfaces in order to provide a general indication of the distribution of lead for demolition purposes. G2 utilized state-of-the-art practices and techniques in accordance with regulatory standards while performing this inspection. A copy of personnel and company certifications has been provided in Appendix G. G2's evaluation of the painted surfaces identified during this inspection is based on conditions observed at the time of the inspection. G2 cannot be responsible for changing conditions that may alter the relative exposure risk for future changes in accepted methodology.

The owner is responsible to convey information regarding identified lead content to inhabitants, contractors, etc. expected to potentially be exposed. G2 recommends that both the contractor and the owner keep the records for three years.

This report consists of a visual survey, and XRF analysis of the readily accessible areas of this building and tested components. The presence or absence of LBP or LBP hazards applies only to the tested or assessed surfaces on the date(s) of the field visit and it should be understood that conditions may change due to deterioration or maintenance. The results and material conditions noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the property after the date of the evaluation.

The current scientific understanding of microbial contamination issues in buildings does not allow for an absolute determination between safe and unsafe levels of fungi in a building. Some background levels of fungi are always present both indoors and outdoors and these levels change with time, season, and building conditions. Because of the vast number of potential fungi present in the environment, there are no numeric standards for comparison, and surface and air testing is useful only as a means to determine if extremely high levels of fungal spores are present that would warrant further evaluation.

Certain persons that may be at an elevated risk for infection or illness, above the general population include: infants, the elderly, the chronically ill, the severely immuno-compromised, persons recovering from serious burns or major surgery, and persons being treated with anti-rejection drugs.

The fungal assessment conducted by G2 was intended to provide a reasonable assurance that significant hidden fungi contamination would be identified. However, there is always the potential for discovering additional hidden fungal growth in buildings in areas where water damage or other conditions leading to fungal growth was not expected or could not be inspected, such as inside wall cavities. Mechanical equipment associated with the subject property, such as HVAC equipment, was not disassembled during the investigation.

G2 conducted this fungal investigation following industry best practices and the guidance documents listed in Appendix F. The protocols used are consistent with those exercised by other reputable consultants and based on current industry standards on projects of similar scope. No warranty, representation, or guarantee, express or implied, is included or intended in this fungal investigation report.

As with all environmental investigations, this inspection is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Respectfully Submitted and Reviewed By:

Sean Friend

Sr. Project Specialist

G2 Consultants

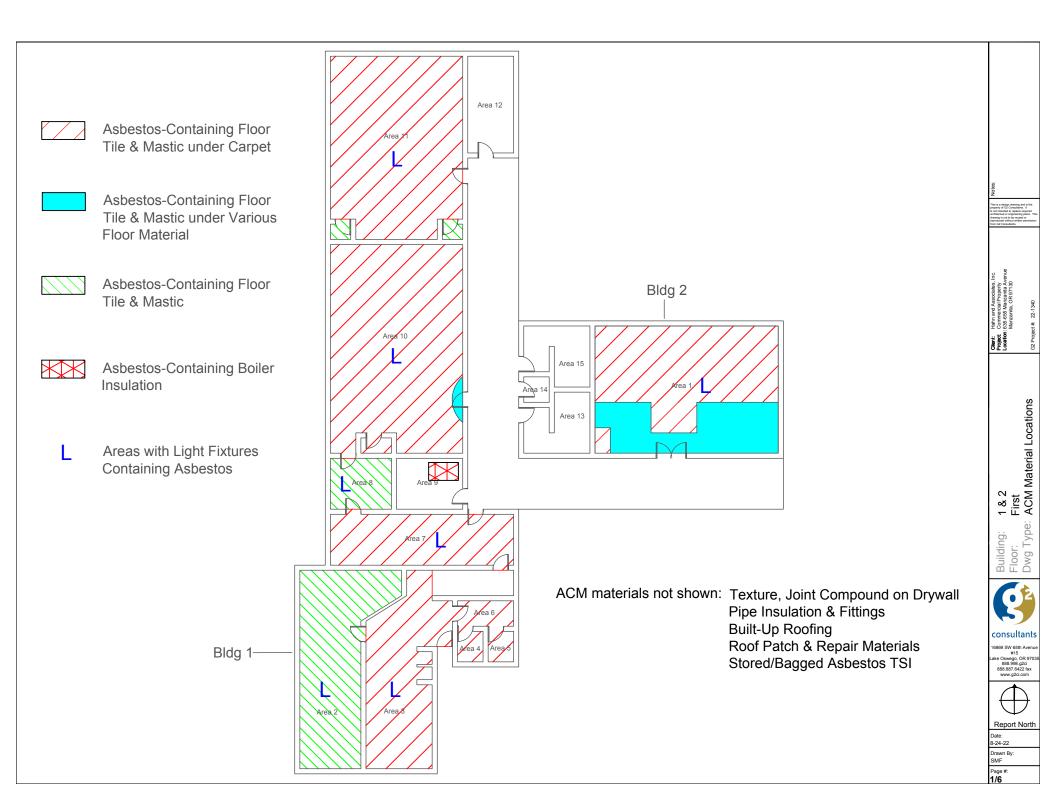
Noal Kraft

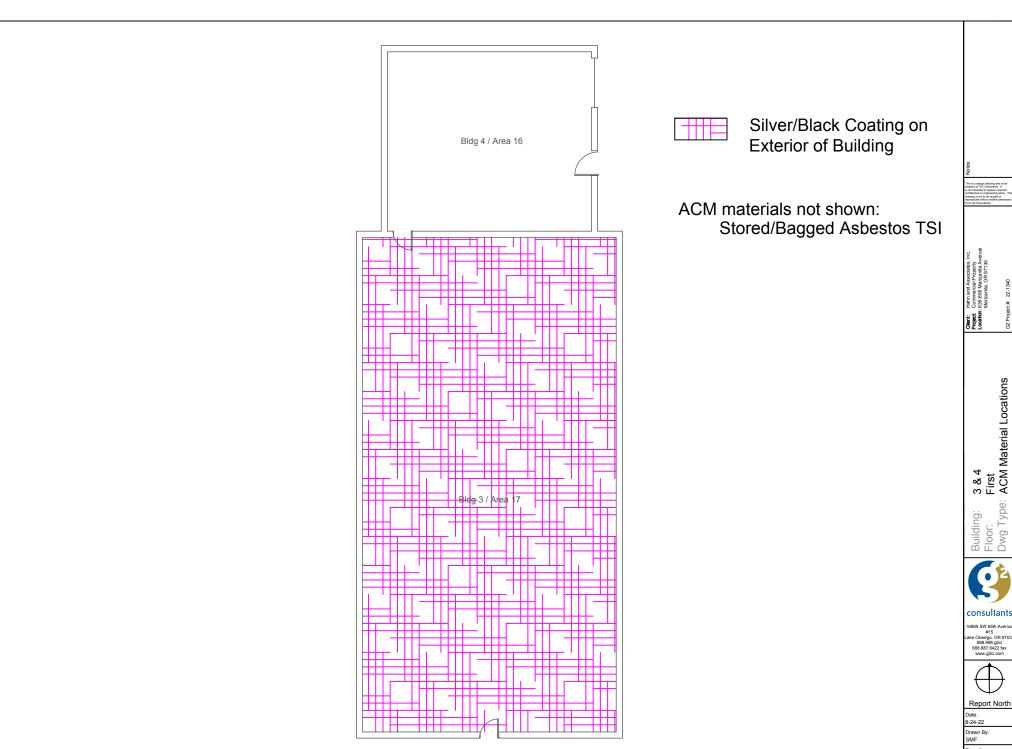
Sr. Vice President of Operations

G2 Consultants

Appendix A:

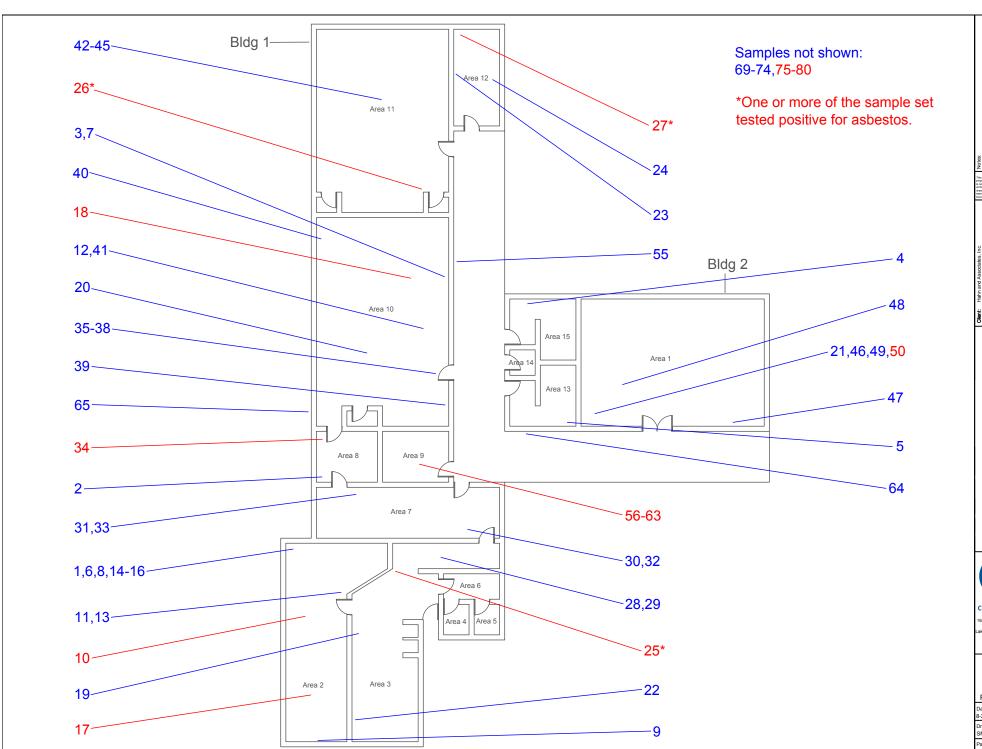
Drawings











NOTE: In a state of consider and in the

openly of GZ Consultants. It not intereded to replace required thitectual or engineering plans. The water plans is not to be reused or renduced without written permission or GZ Consultants.

Clent: Hahn and Associates, Inc. Project: Commercial Property Location: 635-656 Marrantia Avenue Marrantia, OR 97130

1 & 2 First Sample Locations

loor:



consultants

16869 SW 65th Avenue #15 ake Oswego, OR 97035 888.998.92ci 888.887.6422 fax www.g2ci.com

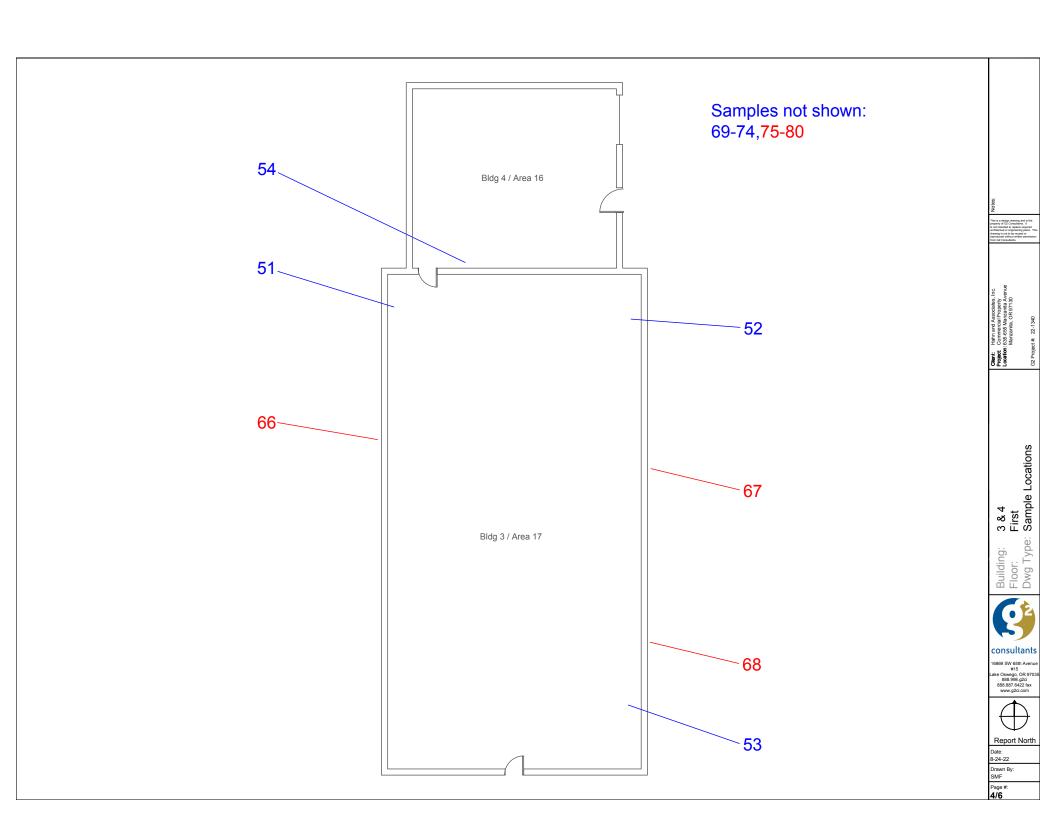


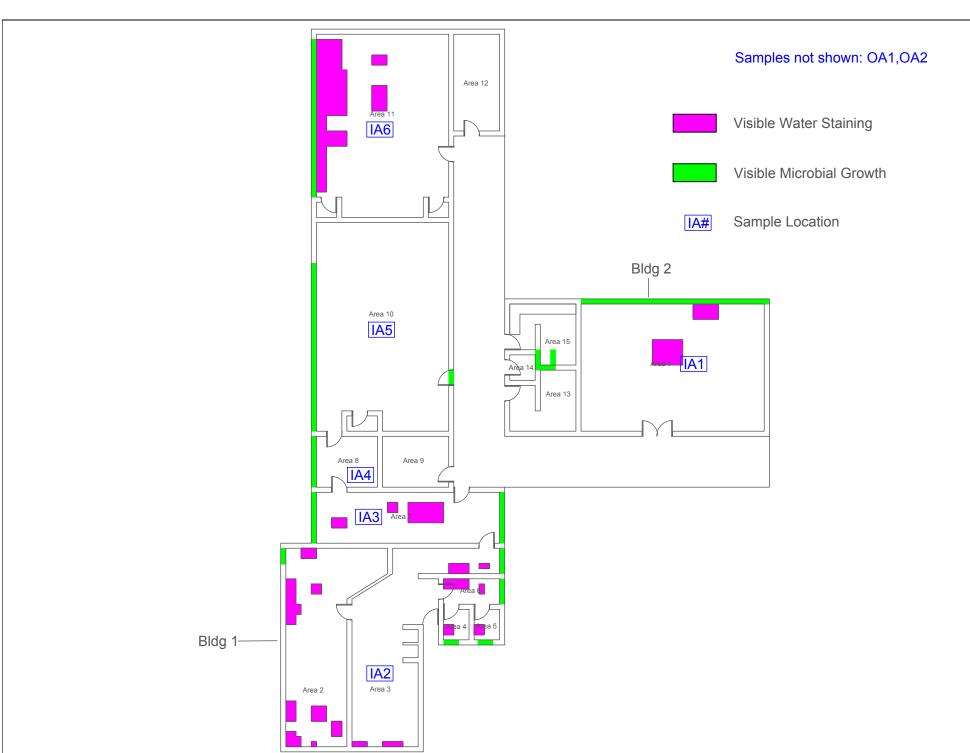
Report N

Date: 8-24-22

SMF

Page #:



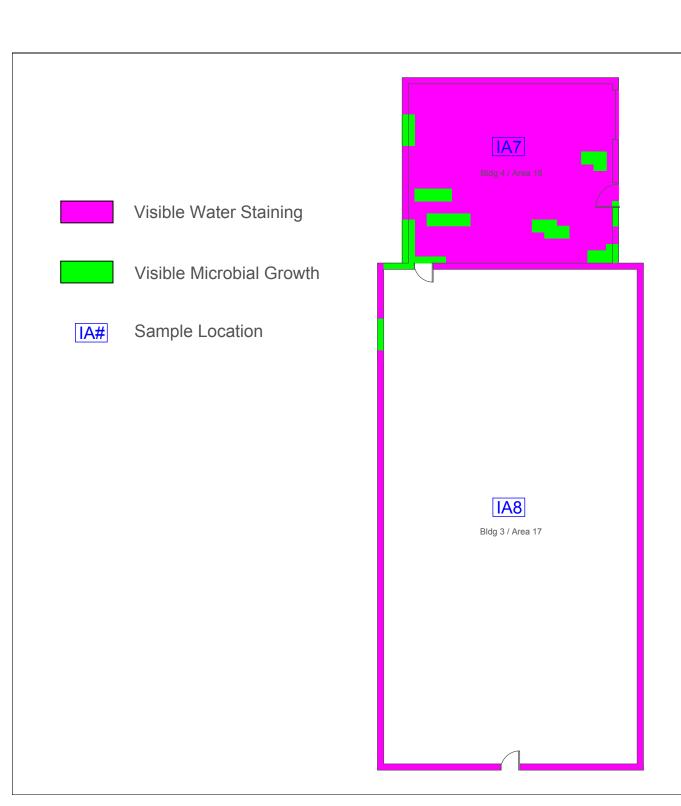


Building: 1 & 2 Floor: First Dwg Type: Mold/Staining/Sample Locations





Page #: **5/6**



Samples not shown: OA1,OA2

Building: 3 & 4 Floor: First Dwg Type: Mold/Staining/Sample Locations





Appendix B:

Photo Log



Exterior of Building 3: SW Side

Exterior of the Site: South Side



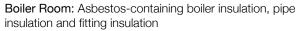


Exterior of Building 3: Asbestos-containing silver coating

Exterior of Buildings 2, 3 and 4: South Side









Boiler Room: Example of damaged asbestos-containing pipe insulation



Attic Above Areas 3 and 6: Asbestos-containing pipe insulation and fittings



Example of Light Fixture: Asbestos-containing insulation



Example of Mold Growth: Mold growth observed on wallboard, on the interior of the wall cavity



Example of Mold Growth: Mold growth observed on window shades



Example of Mold Growth: Mold growth observed on interior of door



Example of Mold Growth: Mold growth observed on interior wall



Example of Mold Growth: Mold growth observed on window

Example of Staining/Mold Growth: Staining and mold growth observed on ceiling



Example of Staining: Staining observed on ceiling

Building 3: Stored/bagged presumed asbestoscontaining materials



Building 3: Stored/packaged light ballasts presumed to contain PCBs



Building 3: Stored/packaged fluorescent light tubes

Appendix C:

Laboratory Analysis and Chain of Custody

SEEML Reference Number: 220804008-PLM-R
Date Issued: 08/24/22



Southeast Environmental Microbiology Laboratories

102 Edinburgh Court Greenville, SC. 29607 Phone: (864) 233-3770 Fax: (864) 233-6589

Asbestos Analytical Report By: Polarized Light Microscopy

This report has been prepared for **G2 Consultants** the information and data has been checked for thoroughness and accuracy. The results reported apply only to the materials as received. The documents(s) contained herein are confidential and privileged information intended for the exclusive use of the individual or entity named above. This report shall not be reproduced except in full without SEEML's approval.

Client Project Name: Hahn and Associates, Inc., 22-1340

The Following report was prepared using this test method(s) contained within this document.

P	LM Bulk Asbestos Fiber Analysis: EPA 600/R-93/116
☐ P	LM 400 Point Count (<0.25%) EPA 600/R-93/116
☐ P	LM 1000 Point Count (<0.1%) EPA 600/R-93/116
P	LM Carb 435 Level A Reporting Limit (<0.25%)
P	LM Carb 435 Level B (Reporting limit <0.1%)
P	LM by EPA/600/R-93/116 with Milling Prep 400 Point Count
P	LM Vermiculite Initial Screening EPA 600R-93/116
☐ P	LM Cincinnati Method 600/R-04/004 (Amphibole Only)
P	LM Vermiculite Method SOF-V 198.8 (Step 1 Chrysotile & Prep)
□ P	LM Vermiculite Method SOF-V 198.8 (Step 2 (Amphibole)

Thank you for choosing SEEML Labs. We strive to provide superior quality testing, analytical data and customer service. SEEML is accredited through the National Institute of Standards and Technology (NIST) National Voluntary Accreditation Program (NVLAP) for bulk asbestos analysis NVLAP # 201031-0 and licensed by the Texas Department of State Health Services (License Number: 300474). This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the US government.

Southeast Environmental Microbiology Laboratories - Asbestos Division



102 Edinburgh Court Greenville, SC 29607

Phone: 864-233-3770, Fax: 864-233-6589, www.seeml.com

NVLAP Lab ID:201031-0 Texas Lic: 300474

PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

Client: G2 Con		sultants	Date Sampled:	08/02/22	
16869 SW 6		5th Ave #15	Date Received:	08/04/22	
Lake Oswego, OR 97035			o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision:	Revision: Roofing Layer Sep		er Separation	Project Name:	Hahn and Associates, Inc.
				Project No:	22-1340
Analyzod by:	Analyza d lavy		hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzed by: Vi		VIIS	orini Sandovai	City, State. ZIP:	Manzanita, OR
Methodology: EPA/600/R-93/		/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R	
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
071A	None Detected		2% Cellulose	98% Carbon/Quartz	Plaster/Area 2
22-1340-1					
072A	None Detected		2% Cellulose	98% Carbon/Quartz	Plaster/Area 8
22-1340-2					
073A	None Detected		2% Cellulose	98% Carbon/Quartz	Plaster/Area 10
22-1340-3	Trone Detected			, , ,	
074A	None Detected		2% Cellulose	98% Carbon/Quartz	Plaster/Area 15
22-1340-4					
075A	None Detected		2% Cellulose	98% Carbon/Quartz	Plaster/Area 13
22-1340-5					
076A	None Detected		10% Cellulose	90% Gypsum	Drywall/Area 2
22-1340-6 077A					
22-1340-7	None Detected		10% Cellulose None Detected	90% Gypsum 100% Organic Matrix	Drywall/Area 10 Brown Mastic/Area 2
078A					
22-1340-8	None Detected				
079A	None Detected		None Detected	100% Organic Matrix	Brown Mastic/Area 3
22-1340-9					

Approved By: Vrishni Sandoval

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Form 8.0 Rev. 8 04/29/20

Southeast Environmental Microbiology Laboratories - Asbestos Division



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Phone: 864-233-3770, Fax: 864-233-6589, www.seeml.com

NVLAP Lab ID:201031-0 Texas Lic: 300474

PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

Client:		G2 Consultants		Date Sampled:	08/02/22	
16869 SW 6		55th Ave #15	Date Received:	08/04/22		
Lake Oswego, OR 97035			o, OR 97035	Date Analyzed:	08/09/22	
				Date Reported:	08/09/22	
				Date Revised:	08/24/22	
Revision: Roofing Layer Separation		Roofing Laye	er Separation	Project Name:	Hahn and Associates, Inc.	
		Project No:	22-1340			
Analyzed by: Vris		hai Candanal	Project Address:	635-655 Manzanita Ave		
		VIIS	shni Sandoval	City, State. ZIP:	Manzanita, OR	
Methodology: EPA/600/R-93,		/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R		
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location	
080A	6% Chrysotile		None Detected	94% Organic Matrix	Floor Tile/Area 2	
22-1340-10						
080B 22-1340-10	None Detected		None Detected	100% Organic Matrix	Black Mastic/Area 2	
081A	7% Chrysotile		None Detected	93% Organic Matrix	Floor Tile/Area 8	
22-1340-34						
081B	2% Chrysotile		None Detected	98% Organic Matrix	Black Mastic/Area 8	
22-1340-34						
082A	None Detected		90% Cellulose	10% Binder/Filler	Ceiling Tile/Area 2	
22-1340-11			3070 Cellulose	20 /0 2		
083A	None Detected		90% Cellulose	10% Binder/Filler	Ceiling Tile/Area 10	
22-1340-12						
084A	None Detected		50% Cellulose	50% Organic Matrix	Paper/Area 2	
22-1340-13						
085A	None Detected		50% Cellulose	50% Organic Matrix	Paper/Area 10	
22-1340-41						
086A	None Detected		50% Cellulose	30% Organic Matrix	Pipe Wrap/Area 2	
22-1340-14			20% Fiberglass	_		

Approved By: Vrishni Sandoval

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Form 8.0 Rev. 8 04/29/20



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NVLAP Lab ID:201031-0 Texas Lic: 300474

PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing Lay		er Separation	Project Name:	Hahn and Associates, Inc.	
	,			Project No:	22-1340
Analyzod by	hodology: EPA/600/R-93 ab No.: ent No.: 087A -1340-15 None Detected		hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzeu by.			IIIII Saliuovai	City, State. ZIP:	Manzanita, OR
Methodology:	Methodology: EPA/600/R-93		/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
087A			50% Cellulose	200/ 0	D: W /A 2
22-1340-15	NO	ne Detected	20% Fiberglass	30% Organic Matrix	Pipe Wrap/Area 2
088A	No	ne Detected	50% Cellulose	30% Organic Matrix	Pipe Wrap/Area 3
22-1340-16			20% Fiberglass	-	
089A	909	% Chrysotile	None Detected	10% Organic Matrix	Insulation/Area 2
22-1340-17					
090A 22-1340-18	909	% Chrysotile	None Detected	10% Organic Matrix	Insulation/Area 10
091A					
22-1340-19	No	ne Detected	None Detected	100% Organic Matrix	Tan Mastic/Area 3
092A				1000/ 0 1 11 11	- w .: /a .aa
22-1340-20	No	ne Detected	None Detected	100% Organic Matrix	Tan Mastic/Area 10
093A	NI-	ne Detected	None Detected	100% Organia Matrix	Tan Mactic/Arca 1
22-1340-21	140	ne vetected	None Detected	100% Organic Matrix	Tan Mastic/Area 1
094A	No	ne Detected	None Detected	100% Binder/Filler	Wall Texture/Area 3
22-1340-22			Tione Betetted	20070 Billiadiji ilidi	Trail Toxed G/Tica 3
095A	No	ne Detected	None Detected	100% Binder/Filler	Wall Texture/Area 12
22-1340-23				·	

Approved By: Vrishni Sandoval

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NVLAP Lab ID:201031-0 Texas Lic: 300474 LELAP ID: 224475

PLM Asbestos Bulk Sample Summary

Revision 1

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing Lay		er Separation	Project Name:	Hahn and Associates, Inc.	
			Project No:	22-1340	
Analyzod by	16869 SW Lake Oswer La		hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzeu by.			IIIII Saliuovai	City, State. ZIP:	Manzanita, OR
Methodology: EPA/600/R-93		/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R	
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
096A	NI-	D.44	None Detected	1000/ Diadau/Fillau	Mell Technic (Accept 12)
22-1340-24	NO	ne Detected	None Detected	100% Binder/Filler	Wall Texture/Area 12
097A	No	ne Detected	None Detected	100% Binder/Filler	Texture/Area 3
22-1340-25				20070 2	. 5.00. 5,7 52. 5
097B	No	ne Detected	None Detected	100% Binder/Filler	Joint Compound/Area 3
22-1340-25					
	No	ne Detected	10% Cellulose	90% Gypsum	Drywall/Area 3
					·
	2%	6 Chrysotile	None Detected	98% Binder/Filler	Texture/Area 11
	3%	6 Chrysotile	None Detected	97% Binder/Filler	Joint Compound/Area 11
	No	ne Detected	10% Cellulose	90% Gypsum	Drywall/Area 11
					Joint Compound and Drawall
22-1340-26	<10	% Chrysotile	5% Cellulose	>94% Binder/Filler/Gypsum	Joint Compound and Drywall Composite/Area 11
099A	No	ne Detected	None Detected	100% Binder/Filler	Joint Compound/Area 12
22-1340-27			Hone Betetted	230 /0 Billiaciji ilici	25/11/20/11/20/12/12

Approved By: Vrishni Sandoval

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NVLAP Lab ID:201031-0 Texas Lic: 300474

PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Project I		er Separation	Project Name:	Hahn and Associates, Inc.	
		Project No:	22-1340		
Analyzod by		Vric	hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzeu by.	nalyzed by: Vri		orini Sandovai	City, State. ZIP:	Manzanita, OR
Methodology: EPA/600/R-93		/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R	
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
099B	No	ne Detected	10% Cellulose	000/ Cyngum	Dwwwall/Aron 12
22-1340-27	NO	ne Detecteu	10% Cellulose	90% Gypsum	Drywall/Area 12
100A	No	ne Detected	None Detected	100% Organic Matrix	Yellow Mastic/Area 3
22-1340-28					
100B	No	ne Detected	40% Cellulose	60% Organic Matrix	Flooring/Area 3
22-1340-28				-	-
100C	No	ne Detected	None Detected	100% Organic Matrix	Black Mastic/Area 3
22-1340-28					
101A 22-1340-29	No	ne Detected	None Detected	100% Organic Matrix	Yellow Mastic/Area 3
101B					
22-1340-29	No	ne Detected	40% Cellulose	60% Organic Matrix	Flooring/Area 3
101C				1000/ 0	DI 144 11/4 6
22-1340-29	No	ne Detected	None Detected	100% Organic Matrix	Black Mastic/Area 3
102A	No	ne Detected	None Detected	100% Organic Matrix	Cove Base/Area 7
22-1340-30	140	ne Detected	None Detected	100% Organic Matrix	Cove base/Area /
102B	No	ne Detected	None Detected	100% Organic Matrix	Mastic/Area 7
22-1340-30					

Approved By: Vrishni Sandoval

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PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing Layer		er Separation	Project Name:	Hahn and Associates, Inc.	
			Project No:	22-1340	
Analyzad by		\/via	hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzed by: Vri		IIIII Salluovai	City, State. ZIP:	Manzanita, OR	
Methodology:		EPA/600/R-93,	/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
103A	103A	ne Detected	None Detected	100% Organic Matrix	Cove Base/Area 7
22-1340-31	NO	ne Detecteu	None Detected	100 /0 Organic Matrix	Cove Base/Alea 7
103B 22-1340-31	No	ne Detected	None Detected	100% Organic Matrix	Mastic/Area 7
104A	No	ne Detected	90% Cellulose	10% Binder/Filler	Ceiling Tile/Area 7
22-1340-32					
105A 22-1340-33	No	ne Detected	90% Cellulose	10% Binder/Filler	Ceiling Tile/Area 8
106A					
22-13 4 0-35	No	ne Detected	None Detected	100% Carbon/Quartz	Ceramic Tile/Area 10
106B					
22-1340-35	No	ne Detected	None Detected	100% Carbon/Quartz	Grout/Area 10
106C				1000/ 0 1 /0	
22-1340-35	No	ne Detected	None Detected	100% Carbon/Quartz	Mortar/Area 10
107A	Na	no Dotostod	None Detected	1000/ Carban/Ous-t-	Coromic Tile/Area 10
22-1340-36	NO	ne Detected	None Detected	100% Carbon/Quartz	Ceramic Tile/Area 10
107B	No	ne Detected	None Detected	100% Carbon/Quartz	Mortar/Area 10
22-1340-36	140	iie Detected	ווטווכ טפנפננפט	100 % Carbon/Quartz	Mortal/Area 10

Approved By: Vrishni Sandoval

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NVLAP Lab ID:201031-0 Texas Lic: 300474

PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision:	evision: Roofing Layer		er Separation	Project Name:	Hahn and Associates, Inc.
				Project No:	22-1340
Analyzed by:		Vric	hni Sandoval	Project Address:	635-655 Manzanita Ave
Alialyzeu by.		VIIS	orini Sandovai	City, State. ZIP:	Manzanita, OR
Methodology:		EPA/600/R-93,	/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
108A 22-1340-37	No	ne Detected	None Detected	100% Carbon/Quartz	Grout/Area 10
109A					
22-1340-38	No	ne Detected	None Detected	100% Carbon/Quartz	Grout/Area 10
110A	No	ne Detected	90% Cellulose	10% Organic Matrix	Cork Board/Area 10
22-1340-39	NO	ne Detected	90% Cellulose	10% Organic Matrix	Cork Board/Area 10
110B	No	ne Detected	None Detected	100% Organic Matrix	Mastic/Area 10
22-1340-39				200 /0 0. ga.mo . ma.m	
111A	No	ne Detected	90% Cellulose	10% Organic Matrix	Cork Board/Area 10
22-1340-40				,	,
111B	No	ne Detected	None Detected	100% Organic Matrix	Mastic/Area 10
22-1340-40					
112A	No	ne Detected	None Detected	100% Organic Matrix	Black Mastic/Area 11
22-1340-42					
113A 22-1340-43	No	ne Detected	None Detected	100% Organic Matrix	Black Mastic/Area 11
22-1340-43 114A					
22-1340-44	No	ne Detected	70% Cellulose	30% Organic Matrix	Paper/Area 11 - Attic
22-13TU-7T					

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NVLAP Lab ID:201031-0 Texas Lic: 300474 LELAP ID: 224475

PLM Asbestos Bulk Sample Summary

Revision 1

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing Lay		er Separation	Project Name:	Hahn and Associates, Inc.	
			Project No:	22-1340	
Analyzad by		Veia	bui Candayal	Project Address:	635-655 Manzanita Ave
Analyzed by: Vri		hni Sandoval	City, State. ZIP:	Manzanita, OR	
Methodology:		EPA/600/R-93,	/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
115A	No	ne Detected	70% Cellulose	30% Organic Matrix	Paper/Area 11
22-1340-45					
116A 22-1340-46	No	ne Detected	50% Cellulose 20% Mineral Wool	30% Organic Matrix	Insulation Backing/Area 1
117A	No	ne Detected	50% Cellulose 20% Mineral Wool	30% Organic Matrix	Insulation Backing/Area 1
22-1340-47			20% Milleral Wool		
118A 22-1340-48	None Detected		20% Cellulose	80% Organic Matrix	Red Floor Tile/Area 1
118B					
22-1340-48	No	ne Detected	None Detected	100% Organic Matrix	Gray Mastic/Area 1
118C	No	ne Detected	100% Cellulose	None Detected	Green Fibrous Racking/Area 1
22-1340-48	INO	ne Detected	100% Cellulose	None Detected	Green Fibrous Backing/Area 1
119A	No	ne Detected	20% Cellulose	80% Organic Matrix	Red Floor Tile/Area 1
22-1340-49	140	ne Detected	20 /0 Cellulose	50 /0 Organic matrix	Red Hoof The/Area 1
119B	No	ne Detected	None Detected	100% Organic Matrix	Gray Mastic/Area 1
22-1340-49		000000	Hone Betetted	200 /0 Organic Flatrix	5.47 . 1050,7,1,54 1
119C	No	ne Detected	100% Cellulose	None Detected	Green Fibrous Backing/Area 1
22-1340-49			20070 00	2 0.00.00	2. 23

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PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing Layer		er Separation	Project Name:	Hahn and Associates, Inc.	
			Project No:	22-1340	
Analyse ad by s		\/wie	hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzed by: Vri		IIIII Salluovai	City, State. ZIP:	Manzanita, OR	
Methodology:		EPA/600/R-93,	/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
120A	700	· · · · · · · · · · · · · · · · · · ·	200/ C-llul	100/ Oursels Makele	Dina Tanahatian (Ausa d. Altis
22-1340-50	709	% Chrysotile	20% Cellulose	10% Organic Matrix	Pipe Insulation/Area 1 - Attic
121A 22-1340-56	70 9	% Chrysotile	20% Cellulose	10% Organic Matrix	Pipe Insulation/Area 9
122A					
22-1340-57	709	% Chrysotile	20% Cellulose	10% Organic Matrix	Pipe Insulation/Area 9
123A	Na	ne Detected	None Detected	1000/ Overania Matrix	Silver Paint/Area 17 - Interior
22-1340-51	NO	ne Detected	None Detected	100% Organic Matrix	Sliver Pallit/Area 17 - Interior
124A	No	ne Detected	None Detected	100% Organic Matrix	Silver Paint/Area 17
22-1340-52	140	ne Detected	None Detected	100 % Organic Madix	Silver Fairty Area 17
125A	No	ne Detected	None Detected	100% Organic Matrix	Silver Paint/Area 17
22-1340-53			Hone Detected	100 /0 Organic HadiA	onter ranigrated 17
126A	No	ne Detected	70% Cellulose	30% Organic Matrix	Felt/Area 16
22-1340-54			7 0 70 000.000	2270 0.90017	. 5.47.1.50 25
127A	No	ne Detected	70% Cellulose	30% Organic Matrix	Felt/Area 10 - Exterior
22-1340-55					- 4
128A		% Chrysotile	5% Fiberglass	70% Binder/Filler	Pipe Insulation/Area 9
22-1340-58	15	% Amosite	- 5		,,

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NVLAP Lab ID:201031-0 Texas Lic: 300474 LELAP ID: 224475

PLM Asbestos Bulk Sample Summary

Revision 1

Client:		G2 Con	sultants	Date Sampled:	08/02/22	
		16869 SW 6	55th Ave #15	Date Received:	08/04/22	
		Lake Osweg	jo, OR 97035	Date Analyzed:	08/09/22	
				Date Reported:	08/09/22	
				Date Revised:	08/24/22	
Revision: Roofing Lay		Roofing Lay	er Separation	Project Name:	Hahn and Associates, Inc.	
			Project No:	22-1340		
Applyzod by	, ,		shni Sandoval	Project Address:	635-655 Manzanita Ave	
Analyzed by: Vri		VIIS	Silli Saliuovai	City, State. ZIP:	Manzanita, OR	
Methodology:	Methodology: EPA/600/R-93		/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R	
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location	
129A	159	% Chrysotile	50/ 5ib - : - ib	CEO/ Pin do //Fillor	Dina Translation (Aug. 0	
22-1340-59	15	6% Amosite	5% Fiberglass	65% Binder/Filler	Pipe Insulation/Area 9	
130A	159	% Chrysotile	5% Fiberglass	65% Binder/Filler	Pipe Insulation/Area 9	
22-1340-60	15	5% Amosite	3 70 1 lbcl gld33	03 /0 Billdel/Tillel	ripe insulation, near	
131A		% Chrysotile	5% Fiberglass	65% Binder/Filler	Boiler Insulation/Area 9	
22-1340-61	10	% Amosite	5 75 1 1551 glues	00 /0 Ddo./,	20.0. 1.00.00,	
132A		% Chrysotile	5% Fiberglass	65% Binder/Filler	Boiler Insulation/Area 9	
22-1340-62		% Amosite	,	,		
133A		% Chrysotile 1% Amosite	5% Fiberglass	65% Binder/Filler	Boiler Insulation/Area 9	
22-1340-63	10	190 Amosite				
134A	No	ne Detected	5% Talc	95% Binder/Filler	Putty/Bldg 2 Exterior	
22-1340-64						
135A	No	ne Detected	5% Talc	95% Binder/Filler	Putty/Bldg 1 Exterior	
22-1340-65						
136A 22-1340-66	5%	% Chrysotile	None Detected	95% Organic Matrix	Silver Coating/Bldg 3 Exterior	
137A						
22-1340-67	5%	6 Chrysotile	None Detected	95% Organic Matrix	Silver Coating/Bldg 3 Exterior	
10 10 07]	l		

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PLM Asbestos Bulk Sample Summary

Revision 1

LELAP ID: 224475

				-	-
Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	55th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing Lay		er Separation	Project Name:	Hahn and Associates, Inc.	
			Project No:	22-1340	
Analyzod by:		Vric	shni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzed by: Vri		illi Saliuovai	City, State. ZIP:	Manzanita, OR	
Methodology:		EPA/600/R-93	/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
138A				250/ 0	
22-1340-68	5%	6 Chrysotile	None Detected	95% Organic Matrix	Silver Coating/Bldg 3 Exterior
139A	No	ne Detected	None Detected	100% Carbon/Quartz	Brick/Bldg 1 - Roof
22-1340-69	110	ne Detected	None Detected	100 /0 Carbon/Quartz	Bricky Blug 1 1000
140A	No	ne Detected	None Detected	100% Carbon/Quartz	Brick/Bldg 1 - Roof
22-1340-70				100 /0 00:00:1/ Qualitz	2, 2.ug 1
141A 22-1340-71	No	ne Detected	None Detected	100% Carbon/Quartz	Mortar/Bldg 1 - Roof
142A					
22-1340-72	No	ne Detected	None Detected	100% Carbon/Quartz	Mortar/Bldg 1 - Roof
143A	N	D	None Detected	1000/ Ouri- M-tuis	Milita Dadio de Material/Dida de Dadi
22-1340-73	NO	ne Detected	None Detected	100% Organic Matrix	White Resinous Material/Bldg 1 - Roof
144A	No	ne Detected	None Detected	100% Organic Matrix	White Resinous Material/Bldg 1 - Roof
22-1340-74	140	ne Detected	None Detected	100% Organic Matrix	Willie Resilious Material/Blug 1 - Roof
145A	30/	6 Chrysotile	None Detected	97% Organic Matrix	Black Tar/Bldg 1 - Roof
22-1340-75			Hone Betetted	2. 70 Organic Fladix	2.00K 101/2.00 1 1001
146A	No	ne Detected	None Detected	100% Organic Matrix	Black Tar/Bldg 1 - Roof
22-1340-76				: 110 01ga :au	,ge.

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PLM Asbestos Bulk Sample Summary

Revision 1

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing La		Roofing Laye	er Separation	Project Name:	Hahn and Associates, Inc.
				Project No:	22-1340
Analyzed by:		Vrio	hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzeu by.		VIIS	ilili Saliuovai	City, State. ZIP:	Manzanita, OR
The state of the s		EPA/600/R-93/	/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
147A	20/	/- Chrysotile	None Detected	98% Organic Matrix	Silver Coated Roofing/Bldg 1 - Upper
22-1340-77	29	o Chrysotile	None Detected	96% Organic Matrix	Roof
147B	No	ne Detected	80% Cellulose	20% Organic Matrix	Felt/Bldg 1 - Upper Roof
22-1340-77		ne Detected	00 % Cchalosc	2070 Organic Matrix	rely blug 1 opper Roof
147C	No	ne Detected	20% Fiberglass	80% Organic Matrix	Shingle/Bldg 1 - Upper Roof
22-1340-77			20 /0 1 1501 91055	0070 Organic Flatin	Simigraphing 1 opportion
147D	No	% Asbestos Type 2% Chrysotile None Detected None Detected None Detected	100% Cellulose	None Detected	Fibrous Insulation/Bldg 1 - Upper Roof
22-1340-77					
147E	No	ne Detected	30% Cellulose	70% Organic Matrix	Fibrous Tar/Bldg 1 - Upper Roof
22-1340-77					. 5
148A	3%	6 Chrysotile	None Detected	97% Organic Matrix	Silver Coated Roofing/Bldg 1 -Mid Roof
22-1340-78					
148B	No	ne Detected	80% Cellulose	20% Organic Matrix	Felt/Bldg 1 -Mid Roof
22-1340-78					
148C 22-1340-78	No	ne Detected	20% Fiberglass	80% Organic Matrix	Shingle/Bldg 1 -Mid Roof
148D					
22-1340-78	No	ne Detected	100% Cellulose	None Detected	Fibrous Insulation/Bldg 1 -Mid Roof
148E					
22-1340-78	No	ne Detected	30% Cellulose	70% Organic Matrix	Fibrous Tar/Bldg 1 -Mid Roof
22 13 10 70				ĺ	

Approved By: Vrishni Sandoval

Disclaime

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PLM Asbestos Bulk Sample Summary

Revision 1

Client:		G2 Con	sultants	Date Sampled:	08/02/22
		16869 SW 6	5th Ave #15	Date Received:	08/04/22
		Lake Osweg	o, OR 97035	Date Analyzed:	08/09/22
				Date Reported:	08/09/22
				Date Revised:	08/24/22
Revision: Roofing Lay		Roofing Laye	er Separation	Project Name:	Hahn and Associates, Inc.
				Project No:	22-1340
Analyzed by:		Vric	hni Sandoval	Project Address:	635-655 Manzanita Ave
Analyzeu by.		VIIS	ilili Saliuovai	City, State. ZIP:	Manzanita, OR
Methodology: EP		EPA/600/R-93/	/116 Without Gravimetry	SEEML Ref#:	220804008-PLM-R
Lab No.: Client No.:	% A	sbestos Type	% Fibrous Non- Asbestos Material Type	% Non-Fibrous Material	Description/Location
149A	40/	Charactile	None Detected	OCO/ Organia Matrix	Silver Coated Roofing/Bldg 1&2 - Lower
22-1340-79	49	6 Chrysotile	None Detected	96% Organic Matrix	Roof
149B	No	ne Detected	80% Cellulose	20% Organic Matrix	Felt/Bldg 1&2 - Lower Roof
22-1340-79		ne Detected	00 % Cendiose	2070 Organic Matrix	
149C	No	ne Detected	20% Fiberglass	80% Organic Matrix	Shingle/Bldg 1&2 - Lower Roof
22-1340-79			20 /0 / 150. 9.000	0070 0. ga.me r taa 17	5g.5.ag 25 25c. 1.05.
149D	No	ne Detected	100% Cellulose	None Detected	Fibrous Insulation/Bldg 1&2 - Lower
22-1340-79					Roof
149E	No	ne Detected	30% Cellulose	70% Organic Matrix	Fibrous Tar/Bldg 1&2 - Lower Roof
22-1340-79				_	
150A	2%	6 Chrysotile	None Detected	98% Organic Matrix	Silver Coated Roofing/Bldg 2 - Upper Roof
22-1340-80					ROOI
150B	No	ne Detected	80% Cellulose	20% Organic Matrix	Felt/Bldg 2 - Upper Roof
22-1340-80					
150C	No	ne Detected	20% Fiberglass	80% Organic Matrix	Shingle/Bldg 2 - Upper Roof
22-1340-80					
150D	No	ne Detected	100% Cellulose	None Detected	Fibrous Insulation/Bldg 2 - Upper Roof
22-1340-80					
150E	No	ne Detected	30% Cellulose	70% Organic Matrix	Fibrous Tar/Bldg 2 - Upper Roof
22-1340-80					

Approved By: Vrishni Sandoval

Disclaimer

The results in this report only apply to the samples as received.

NOB samples are tested as a preliminary analysis. We highly recommend for Negative NOB samples resulting in less than 1% Asbestos to be verified by TEM or Point Analysis.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. NAD means no asbestos fibers were detected. When detected the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

Guidelines for Interpretation:

Any opinions/interpretations expressed in this report are outside the scope of this laboratory's accreditation. Interpretation of the data and information within this document is left to the company, consultant, and/or persons who conducted the fieldwork. A material is considered regulated asbestos containing material (ACM) where the asbestos content is determined to be one percent or greater. Several organizations, including the American Conference of Government Industrial Hygienists (ACGIH); the American Industrial Hygiene Association (AIHA); the Indoor Air Quality Association (IAQA); the United States Environmental Protection Agency (USEPA); the Centers for Disease Control (CDC) as well as the California Department of Health Services (CADHS) have published guidelines for assessment and interpretation of analytical data indicating a tested material is ACM.

CHAIN OF CUSTODY RECORD

G2 Contact: Noal Kraft

consultants

anzanita Ave. 220804008 - PLM

G2 Client: Hahn and Assoiciates, Inc Address: 434 NW 6th Avenue

071-150

rage #. G2 Job #: 22-1340 Sample Date: \$11-2/22 Submit Date: 8/3/22 Sampled By: KNAFT

□ PLM/Point Count 400 □ Wipe □ Vac	☐ Other: Note	531			
	☐ 4 Day				
			Condition	Friable	Quantity
ind Time: Same Day Rossing Indiana Ind	Sample # Sam	ple Location	I/P	Y/N	
Material Description					
Material Doos		Anea 2			
PLASTER		and 8	(€)		
	3 4	area 10	Condition	Friable	Quanti
	Sample # San	nple Location	I/P	Y/N	
Material Description					1
Material Description	AP	Max 15			
	5 A	wa 13			
1			Condition	Friable	Quant
	Sample # Sar	nple Location	I/P	Y/N	8
Material Description					
Material Description		Anea 2			
Drewar BEHTING PLASTER	7 1	Avea 10			
			Condition	Friable	Quan
	Sample # Sa	mple Location	I/P	Y/N	
Material Description		14.			120
ADJUSTING WENTERS WALL BOARD	8 1	ANEL Z		1	-
TURESTINE DELIZING		tv h			
	•		Condition	Friable	Quan
	Sample # Sa	mple Location	I/P	Y/N	
L A					
Material Description From The, 9"49" Blue & Blace The Brock	10	ANEA 2			
1 FLOOL TILE, & BLACK	34	Arros 8			
5 mustic			Condition	Friable	Quan
) Wasise	Sample # Sa	ample Location	I/P	Y/N	
Material Description CESTER TELE, 12" x 12" U/HOLE			7703		
Material Description	11	S wans			
CENTRY TAVE,	12	ANTA 10		+	
CEGIL			Condition	Friable	Quar
	Sample # S	ample Location	I/P	Y/N	
- dation . C T	Sample	7 D 1		-	
# Material Description On and DEHEM C.T.	13	Anea Z			_
# Material Description REFLECTIVE PAPER DELIMS C.T.	41	Area D			
7 12 x 12 w/HoLES			Condition	Friable	Qua
112 x 12 W/HOLES	Sample # S	Sample Location	I/P	Y/N	. Petros
	oampio			150.74	
Material Description	ાવ	Amer		-	
FIRENGUASS +D	15	" "		_	
	16				
8 4ª					
		Samples Relinquished by:			
Delinquished by:		Date and Time:			
amples Relinquisites		Samples Received by:			
hate and Time: Samples Received by:)	Date and Time:			

220804008-PM

Jobsite Address: G2 Job #: 22-1340

635-655 Manzanita Ave.

Manzanita 97130	Material Description	Sample #	Sample Location	Condition	0.00000000000	Quantity
нм#		***		I/P	Y/N	
-	LIGHT FIXTHING INSHLATION	17	Anea 2			1
9		18	AMED 10			40
нм#	Material Description	Sample #	Sample Location	Condition I/P	Friable Y/N	Quantity
	GLE UNDER COMPUT, TAN	19	Area 3			
10	State of the control of	20				
		21	Avea 1			O
нм#	Material Description	Sample #	Sample Location	Condition I/P	Friable Y/N	Quantity
. 1	WAY TEXTURE, OPTHER	22	Arma 3			
11	TO TO THE TOTAL TO THE TOTAL T	23	anon 12			
		24	u A	Condition	Friable	Quantity
нм#	Material Description	Sample #	Sample Location	I/P	Y/N	Quantity
. 1	Daywan & Josef Componer	25	Anea 3		-	-
15		26	Anca 11		-	-
		27	AMER 12	Condition	Friable	Quantity
нм#	Material Description	Sample #	Sample Location	I/P	Y/N	
. 1	FLOOR MATERIAL UNDER CARPET	2.8	Aroa 3			-
13		28 29	fi a			
				Condition	Friable	Quantity
нм#	Material Description	Sample #	Sample Location	I/P	Y/N	Quantity
12	Cove. Base 4" Brown (PAZATED)	30	AMOA 7			1
1-1	WELLY)	31	h h			_
h	U/BNW & Brace A DATATELL				F-1-1-1-	O
нм#	Material Description Certain Tire, 1' X2' Smooth	Sample #	Sample Location	Condition I/P	Y/N	Quantity
	Course True 1 x2 Smooth	32	Ansa 7			
16	1343	33	Anos 7			
, -	(No Aphterare) Material Description			Condition	Friable	Quantity
нм#	Material Description	Sample #	Sample Location	I/P	Y/N	Qualitity
	CERANTE TILE & MONTAN	35 額	DI ASNA			
1 (CERANTE TILE & MORTAN	36 95	11 9			-
HM#	Material Description	Sample #	Sample Location	Condition	Friable	Quantity
ner#	Guant (Ceramic Tire)	20.00	A	I/P	Y/N	
18	Guant (CERAMER Tare)	77 %	Anea 10			
10	***	38 35	" 1			
HM#	Material Description	Sample #	Sample Location	Condition I/P	Friable Y/N	Quantity
100	Applesius Metting Come Moans	39	Ansa 10 (Ans 11)			1,00 B
19		40	1. 1			75
	(Buga)			Condition	Friable	Quantity
нм#	Material Description	Sample #	Sample Location	G/F/P	Y/N	Quantity
7 -	Approxime MEHIMO 12" 412" C.T	42	Anea 11			
20	W/Holes (Neven	43	V \ 11			
	W/HOVEC (Dinen.					

220804008-PLM

Jobsite Address: 635-655 Manzanita Ave. G2 Job #: 22-1340

lanzanita 7130		Cample #	Sample Location	Condition	Friable	Quantity
IM#	Material Description	Sample #		I/P	Y/N	
	Instruction Paper	44	Angall. Artic			
21	7,00,000	44	to a			
-1				Condition	Friable	Quantity
М#	Material Description	Sample #	Sample Location	I/P	Y/N	Quantity
	Finencius MITT INMIGHTON		A			
22	rakenguss that Induced my	46	Anso 1			
20	Λ.	47				
	Material Description		C	Condition	Friable	Quantity
		Sample #	Sample Location	I/P	Y/N	
	Brown Monmoleum Fwongas	LIV	A and of			
22	many rommetern prosigno	48	A rue 1			
-)		-17				
		Sample #	Sample Location	Condition	Friable	Quantity
1#	Material Description	Sample #		I/P	Y/N	
	AJACON PERE INSULATION	50	Anea 1 (Arosc.)			
74	Function 1 ste Change	50	David 9			
- (37	9 7			
2710		Sample #	Sample Location	Condition	Friable	Quantity
М#	Material Description	Sample #		I/P	Y/N	
	SILVER PAINT	51	ANER 17 (INTERSOL			
25	132100 113201	52	11			
		53				
		Sample #	Sample Location	Condition		Quantity
M#	Material Description	Sample #		I/P	Y/N	
	MIDG FELT BEHTING CEDAL STREW	54	area 16			
26	TOOK I THE THEORY CENTER ADDRESS	22	ANEA 10 ExTENSIL			
		3 2	Aview 10 chieves			
		Commiss #	Sample Location	Condition		Quantity
M#	Material Description	Sample #	Sample Location	I/P	Y/N	
	PILE FAPTING IN MINISTER	5 Y 36	Amen 9			
27	1240 141.	71 70				
CI		60 50	u h			
		60 50	100	Condition	Friable	Quantity
М#	Material Description	Sample #	Sample Location	I/P	Y/N	
	1	/	A			
18	Bosion Insulation	61 52	AMED 9			
L		6260	a 4			
		63	a A	Condition	Friable	Quantit
M#	Material Description	Sample #	Sample Location	I/P	Y/N	2
				-/-	17.7	1
	WINDY PUTT	64	MUDIC 2 EXTENTIN		-	
29		65	15 Lac 4 "		_	-
4		• >	7000			
		Sample #	Sample Location	Condition	Friable	Quantity
M#	Material Description	Sample #	Sample Location	I/P	Y/N	
	Stur PAIN COATING	66	BUSG 3 ExTERC			
30	Julie 2					
		67	u			
		68	V	Condition	Friable	Quantit
M#	Material Description	Sample #	Sample Location	G/F/P	Y/N	Quantit
A-100 II				-7.7.	10.47.540	
21	CHIMAET MASCU	69	Kusa 1 - Rose		-	
31		70				

220804008-PUM

G2 Job #: 22-1340

Jobsite Address: 635-655 Manzanita Ave.

130	Material Description	Sample #	Sample Location	Condition I/P	Friable Y/N	Quantit
		22-1340-71	BLUE 1 - RIEST			
2	Chimney Months	72				
#	Material Description	Sample #	Sample Location	Condition I/P	Friable Y/N	Quanti
	ROOF PAREN & REPAREN MATERIAN, WHERE	73	SLOG 1 - VLOUR			
3	The state of the s	74	L Y	Condition	Friable	Quant
ŧ	Material Description	Sample #	Sample Location	I/P	Y/N	Quant
	Nos Parca & Repasa maronsa, Buaca	75	Susc 1 - Mase			
4	cost later a refraction	16	4	Condition	Friable	Quant
ŧ	Material Description	Sample #	Sample Location Whose I - Wasen Place	I/P	Y/N	
5	ROUF CONE	77	Sample Location VELOC 1 - WAREN PROFE SCAG 1 - WASA PROFE PLOG 1 & 2 - COMPRE PROFE SAMPLE LOCATION			
-		79	Muse 2 - Under Wase	Condition	Friable	Quan
#	Material Description	Sample #	Sample Location	I/P	Y/N	
#	Material Description	Sample #	Sample Location	Condition I/P	Friable Y/N	Quan
				Condition	Friable	Quan
#	Material Description	Sample #	Sample Location	I/P	Y/N	
	2		Country Logarian	Condition	Friable	Quar
ŧ	Material Description	Sample #	Sample Location	I/P	Y/N	+-
				Condition	Friable	Qua
#	Material Description	Sample #	Sample Location	I/P	Y/N	-
	_					
				Condition	Friable	Qua
ŧ	Material Description	Sample #	Sample Location	I/P	Y/N	
				Condition	Friable	Qua
#	Material Description	Sample #	Sample Location	G/F/P	Y/N	2



Report for:

Mr. Noal Kraft G2 Consultants 16869 SW 65th Ave. #15 Lake Oswego, OR 97035

Regarding: Project: 22-1340; 635-655 Manzanita Ave

EML ID: 2994432

Approved by:

Technical Manager

David Andrews

Dates of Analysis:

Spore trap analysis: 08-08-2022

Service SOPs: Spore trap analysis (EM-MY-S-1038) AIHA-LAP, LLC accredited service, Lab ID #178599

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Information supplied by the client which can affect the validity of results: sample air volume.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Eurofins EMLab P&K's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

19515 North Creek Pkwy N, #100, Bothell, WA 98011 (866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: G2 Consultants Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 C/O: Mr. Noal Kraft Re: 22-1340; 635-655 Manzanita Ave Date of Report: 08-08-2022

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		0-080122-		0-080122-		0-080122-		0-080122-
		A1:		A1:		A2:		A3:
				Air Sample. rea 1		ar Sample. rea 3		Air Sample. rea 7
		S. Side of terior	A	rea i	A.	rea 3	A	rea /
Comments (see below)		Vone	N	Vone	N	Vone	None	
Lab ID-Version‡:	1441	1930-1	1441	1931-1	1441	1932-1	14411933-1	
Analysis Date:	08/0	8/2022	08/0	08/2022	08/0	08/2022	08/0	08/2022
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	15	800	10	530	8	430	13	690
Basidiospores	4	210	4	210	4	210	3	160
Chaetomium								
Cladosporium	2	110			4	210	2	110
Epicoccum			1	13	1	13		
Fusarium								
Myrothecium								
Nigrospora								
Other brown							1	13
Other colorless								
Penicillium/Aspergillus types†					59	22,000	107	40,000
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes			2	27	4	53	3	40
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	4+		3+		4+		4+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		1,100		790		23,000		41,000

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

^{††}Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory. ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: G2 Consultants Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 C/O: Mr. Noal Kraft Re: 22-1340; 635-655 Manzanita Ave Date of Report: 08-08-2022

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		0-080122- A4:		0-080122- A5:	_	0-080122- A6:		0-080122- A7:
	Indoor A	ir Sample.	Indoor A	ir Sample.	Indoor A	ir Sample.	Indoor A	ir Sample.
		rea 8		ea 10		ea 11		ea 16
Comments (see below)	N	lone	N	Vone	N	Vone	None	
Lab ID-Version‡:	1441	1934-1	14411935-1		1441	1936-1	1441	1937-1
Analysis Date:	08/0	8/2022	08/0	8/2022	08/0	8/2022	08/0	8/2022
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	9	480	24	1,300	7	370	1	53
Basidiospores	10	530	4	210	2	110	1	53
Chaetomium								
Cladosporium	4	210	4	210	13	690	2	110
Curvularia								
Epicoccum	2	27						
Fusarium								
Myrothecium								
Nigrospora								
Other brown							1	13
Other colorless								
Penicillium/Aspergillus types†	204	76,000	33	1,800	729	270,000	10	530
Pithomyces								
Rusts	2	27					2	27
Smuts, Periconia, Myxomycetes	4	53	5	67	1	13	5	67
Stachybotrys					1	13		
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	> 4+		3+		3+		> 4+	
Hyphal fragments/m3	< 13		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		< 1+		< 1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		77,000		3,500		270,000		850

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

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[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

19515 North Creek Pkwy N, #100, Bothell, WA 98011 (866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: G2 Consultants Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 C/O: Mr. Noal Kraft Re: 22-1340; 635-655 Manzanita Ave Date of Report: 08-08-2022

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:		080122-IA8:		080122-OA2: ole, N. Side of Exterior
		Sample. Area 17		
Comments (see below)		None		None
Lab ID-Version‡:		11938-1		11939-1
Analysis Date:	08/	08/2022	08/0	08/2022
	raw ct.	spores/m3	raw ct.	spores/m3
Ascospores	7	370	23	1,200
Basidiospores	1	53	9	480
Botrytis				
Chaetomium				
Cladosporium	1	53		
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Other brown				
Other colorless				
Penicillium/Aspergillus types†	1	53	10	530
Pithomyces				
Rusts				
Smuts, Periconia, Myxomycetes	1	13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Background debris (1-4+)††	> 4+		1+	
Hyphal fragments/m3	< 13		< 13	
Pollen/m3	< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+	
Sample volume (liters)	75		75	
§ TOTAL SPORES/m3		550		2,200

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample, indicating a raw count of <1 spore.

The analytical sensitivity is the spores/m³ divided by the raw count, expressed in spores/m³, per spore and per sample.

[†] The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.

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For more information regarding analytical sensitivity, please contact QA by calling the laboratory. ‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

19515 North Creek Pkwy N, #100, Bothell, WA 98011 (866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldRANGETM: Extended Outdoor Comparison

Outdoor Location: 22-1340-080122-OA1, Outdoor Air Sample, S. Side of Exterior

Fungi Identified	Outdoor		Typica	l Outo	loor Da	ta for	:	,	Typica	l Outd	loor Da	ata for	:
	data	A	august i	n Oreg	gon† (n	‡=1579	9)	The e	ntire ye	ear in C	regon	(n‡=1	18247)
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	67	130	47	13	13	27	53	110	20
Bipolaris/Drechslera group	-	13	13	13	27	53	7	13	13	13	40	53	3
Chaetomium	-	7	13	13	27	40	11	8	13	13	27	40	5
Cladosporium	110	160	320	850	2,300	4,100	98	53	110	370	1,400	2,700	85
Curvularia	-	7	13	13	42	110	5	7	13	13	27	53	2
Epicoccum	-	13	13	27	53	110	33	13	13	20	53	93	14
Nigrospora	-	13	13	13	30	53	4	10	13	13	27	53	2
Other brown	-	13	13	27	53	93	38	13	13	27	53	67	24
Penicillium/Aspergillus types	-	53	110	320	850	1,300	90	53	110	270	690	1,200	86
Stachybotrys	-	13	13	13	27	40	3	13	13	13	42	130	1
Torula	-	13	13	25	53	100	16	13	13	20	53	80	6
Seldom found growing indoors**													
Ascospores	800	53	110	270	750	1,300	87	53	110	430	1,500	2,900	89
Basidiospores	210	160	280	910	2,500	4,400	98	110	270	1,200	4,400	8,500	96
Rusts	-	13	13	27	67	120	35	13	13	27	53	110	17
Smuts, Periconia, Myxomycetes	-	13	20	53	210	480	73	13	13	53	160	370	51
§ TOTAL SPORES/m3	1,100												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

 \ddagger n = number of samples used to calculate data.

^{*} The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**} These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

19515 North Creek Pkwy N, #100, Bothell, WA 98011 (866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldRANGETM: Extended Outdoor Comparison

Outdoor Location: 22-1340-080122-OA2, Outdoor Air Sample, N. Side of Exterior

Fungi Identified	Outdoor		Typical Outdoor Data for:					,	Typica	ıl Outd	loor Da	ata for	:
	data	A	August i	in Oreș	gon† (n	‡=157	9)	The e	ntire y	ear in C	regon ⁻	(n‡=1	18247)
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	-	13	13	27	67	130	47	13	13	27	53	110	20
Bipolaris/Drechslera group	-	13	13	13	27	53	7	13	13	13	40	53	3
Chaetomium	-	7	13	13	27	40	11	8	13	13	27	40	5
Cladosporium	-	160	320	850	2,300	4,100	98	53	110	370	1,400	2,700	85
Curvularia	-	7	13	13	42	110	5	7	13	13	27	53	2
Epicoccum	-	13	13	27	53	110	33	13	13	20	53	93	14
Nigrospora	-	13	13	13	30	53	4	10	13	13	27	53	2
Other brown	-	13	13	27	53	93	38	13	13	27	53	67	24
Penicillium/Aspergillus types	530	53	110	320	850	1,300	90	53	110	270	690	1,200	86
Stachybotrys	-	13	13	13	27	40	3	13	13	13	42	130	1
Torula	-	13	13	25	53	100	16	13	13	20	53	80	6
Seldom found growing indoors**													
Ascospores	1,200	53	110	270	750	1,300	87	53	110	430	1,500	2,900	89
Basidiospores	480	160	280	910	2,500	4,400	98	110	270	1,200	4,400	8,500	96
Rusts	-	13	13	27	67	120	35	13	13	27	53	110	17
Smuts, Periconia, Myxomycetes	-	13	20	53	210	480	73	13	13	53	160	370	51
§ TOTAL SPORES/m3	2,200												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

 \ddagger n = number of samples used to calculate data.

^{*} The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**} These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldRANGETM: Extended Outdoor Comparison

Outdoor Location: 22-1340-080122-OA1, Outdoor Air Sample, S. Side of Exterior

Fungi Identified	Outdoor	Typica	al Outdoo	or Data by	Date†	Typical	Outdoor 1	Data by L	ocation‡
	data		Month	: August			State	e: OR	
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	40	430	52	7	27	270	16
Bipolaris/Drechslera group	-	7	13	270	19	7	13	110	2
Chaetomium	-	7	13	130	11	7	13	110	4
Cladosporium	110	33	700	8,900	94	27	390	7,000	85
Curvularia	-	7	33	800	31	7	13	99	2
Nigrospora	-	7	27	290	24	7	13	70	2
Penicillium/Aspergillus types	-	27	270	3,500	67	27	270	2,900	83
Stachybotrys	-	7	13	470	3	7	13	420	< 1
Torula	-	7	20	210	11	7	13	160	4
Seldom found growing indoors**									
Ascospores	800	13	430	6,800	82	38	480	8,200	88
Basidiospores	210	27	850	43,000	93	53	1,100	25,000	95
Rusts	-	7	27	420	21	7	27	500	13
Smuts, Periconia, Myxomycetes	-	8	53	1,200	73	7	53	1,200	49
§ TOTAL SPORES/m3	1,100								

[†] The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

[‡] The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

^{*} The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**} These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldRANGETM: Extended Outdoor Comparison

Outdoor Location: 22-1340-080122-OA2, Outdoor Air Sample, N. Side of Exterior

Fungi Identified	Outdoor	Typica	al Outdoo	or Data by	Date†	Typical	Outdoor 1	Data by L	ocation‡
	data		Month	: August			State	e: OR	
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	40	430	52	7	27	270	16
Bipolaris/Drechslera group	-	7	13	270	19	7	13	110	2
Chaetomium	-	7	13	130	11	7	13	110	4
Cladosporium	-	33	700	8,900	94	27	390	7,000	85
Curvularia	-	7	33	800	31	7	13	99	2
Nigrospora	-	7	27	290	24	7	13	70	2
Penicillium/Aspergillus types	530	27	270	3,500	67	27	270	2,900	83
Stachybotrys	-	7	13	470	3	7	13	420	< 1
Torula	-	7	20	210	11	7	13	160	4
Seldom found growing indoors**									
Ascospores	1,200	13	430	6,800	82	38	480	8,200	88
Basidiospores	480	27	850	43,000	93	53	1,100	25,000	95
Rusts	-	7	27	420	21	7	27	500	13
Smuts, Periconia, Myxomycetes	-	8	53	1,200	73	7	53	1,200	49
§ TOTAL SPORES/m3	2,200								

[†] The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

[‡] The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

[§] Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

^{*} The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

^{**} These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Outdoor Summary: 22-1340-080122-OA1: Outdoor Air Sample, S. Side of Exterior

Species detected	Outdoor sample spores/m3				Typical outdoor ranges	Freq.
	<100 1K 10K >100K				(North America)	%
Ascospores				800	13 - 230 - 6,100	75
Basidiospores				210	13 - 440 - 25,000	89
Cladosporium				110	27 - 480 - 7,800	88
Penicillium/Aspergillus types				< 13	17 - 200 - 2,800	63
Smuts, Periconia, Myxomycetes				< 13	7 - 53 - 950	66
Total				1,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 22-1340-080122-IA1: Indoor Air Sample. Area 1

% of outdoor total spores/m3	spores/m3 square* (indoor variation)		nt ratio** outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)					
Result: 69%	Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes		0.5714	dF: 5 Result: 0.6750 Critical value: 0.8000 Outside Similar: No	Score: 114 Result: Low					
Species 1	Species Detected			Spores/m3						
		<100	1K	10K	>100K					
	Ascospores				530					
	Basidiospores				210					
	Epicoccum				13					
Smuts, P	Periconia, Myxomycetes				27					
	Total				790					

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Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA2: Indoor Air Sample. Area 3

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 2046%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result:	0.6667	dF: 6 Result: 0.4143 Critical value: 0.7714 Outside Similar: No	Score: 300 Result: High		
Species Detected		Spores/m3					
		<100	1K	10K	>100K		
	Ascospores				430		
	Basidiospores				210		
	Cladosporium				210		
Epicoccum					13		
Penicillium/Aspergillus types					22,000		
Smuts, Periconia, Myxomycetes					53		
	Total				23,000		

Location: 22-1340-080122-IA3: Indoor Air Sample. Area 7

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)	
Result: 3661%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667		dF: 6 Result: 0.4286 Critical value: 0.7714 Outside Similar: No		Score: 300 Result: High	
Species Detected		Spores/m3					
		<100	1K		10K		>100K
	Ascospores						690
	Basidiospores						160
	Cladosporium						110
	Other brown						13
Penicillium/Aspergillus types							40,000
Smuts, Periconia, Myxomycetes							40
	Total						41,000

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C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA4: Indoor Air Sample. Area 8

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)	
Result: 6904%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6000		dF: 7 Result: 0.5089 Critical value: 0.6786 Outside Similar: No		Score: 300 Result: High	
Species Detected				Spor	es/m3		
		<100	1K		10K	>100)K
	Ascospores						480
	Basidiospores						530
	Cladosporium						210
	Epicoccum						27
Penicillium/Aspergillus types							76,000
Rusts							27
Smuts, Periconia, Myxomycetes							53
,	Total						77,000

Location: 22-1340-080122-IA5: Indoor Air Sample. Area 10

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)			
Result: 320%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.2000 Critical value: 0.8000 Outside Similar: No	Score: 286 Result: High			
Species Detected		Spores/m3					
		<100 1K 10K		>100K			
	Ascospores			1,300			
	Basidiospores			210			
	Cladosporium			210			
Penicillium/Aspergillus types				1,800			
Smuts, Periconia, Myxomycetes				67			
·	Total			3,500			

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C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA6: Indoor Air Sample. Area 11

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)			
Result: 24213%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667		dF: 6 Result: 0.2714 Critical value: 0.7714 Outside Similar: No	Score: 300 Result: High			
Species Detected		Spores/m3						
		<100	1K	10K	>100K			
	Ascospores				370			
	Basidiospores				110			
	Cladosporium				690			
Penic	Penicillium/Aspergillus types				270,000			
Smuts, Periconia, Myxomycetes					13			
Stachybotrys					13			
	Total				270,000			

Location: 22-1340-080122-IA7: Indoor Air Sample. Area 16

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 76%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6000		dF: 7 Result: 0.1339 Critical value: 0.6786 Outside Similar: No	Score: 181 Result: Medium	
Species Detected				Spores/m3		
		<100	K	10K	>100K	
	Ascospores				53	
	Basidiospores				53	
	Cladosporium				110	
	Other brown				13	
Penici	Penicillium/Aspergillus types				530	
Rusts					27	
Smuts, Periconia, Myxomycetes					67	
,	Total				850	

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C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA8: Indoor Air Sample. Area 17

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)		ent ratio** r/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)	
Result: 48%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.7500		dF: 5 Result: 0.8250 Critical value: 0.8000 Outside Similar: Yes	Score: 108 Result: Low	
Species Detected				Spores/m3		
		<100 1K		10K	>100K	
	Ascospores				370	
	Basidiospores				53	
	Cladosporium				53	
Penicillium/Aspergillus types					53	
Smuts, Periconia, Myxomycetes					13	
	Total				550	

^{*} The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORETM is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. Eurofins EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

^{**} An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

^{***} The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Outdoor Summary: 22-1340-080122-OA2: Outdoor Air Sample, N. Side of Exterior

Species detected	Outdoor sample spores/m3				Typical outdoor ranges	Freq.
	<100	1K	10K	>100K	(North America)	%
Ascospores				1,200	13 - 230 - 6,100	75
Basidiospores				480] 13 - 440 - 25,000	89
Cladosporium				< 13] 27 - 480 - 7,800	88
Penicillium/Aspergillus types				530] 17 - 200 - 2,800	63
Smuts, Periconia, Myxomycetes				< 13] 7 - 53 - 950	66
Total				2,200]	

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurrence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 22-1340-080122-IA1: Indoor Air Sample. Area 1

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)		nt ratio** outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 35%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.5714		dF: 5 Result: 0.3750 Critical value: 0.8000 Outside Similar: No	Score: 110 Result: Low		
Species 1	Species Detected		Spores/m3				
		<100	1K	10K	>100K		
	Ascospores				530		
	Basidiospores				210		
Epicoccum					13		
Smuts, Periconia, Myxomycetes					27		
	Total				790		

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Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA2: Indoor Air Sample. Area 3

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 1036%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result:	0.6667	dF: 6 Result: 0.8429 Critical value: 0.7714 Outside Similar: Yes	Score: 300 Result: High		
Species Detected		Spores/m3					
		<100	1K	10K	>100K		
	Ascospores				430		
	Basidiospores				210		
	Cladosporium				210		
Epicoccum					13		
Penicillium/Aspergillus types					22,000		
Smuts, Periconia, Myxomycetes					53		
	Total				23,000		

Location: 22-1340-080122-IA3: Indoor Air Sample. Area 7

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)		
Result: 1855%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6667		dF: 6 Result: 0.8857 Critical value: 0.7714 Outside Similar: Yes	Score: 300 Result: High		
Species Detected		Spores/m3					
_		<100	1K	10K	>100K		
	Ascospores				690		
	Basidiospores				160		
	Cladosporium				110		
Other brown					13		
Penicillium/Aspergillus types					40,000		
Smuts, Periconia, Myxomycetes					40		
·	Total				41,000		

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C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA4: Indoor Air Sample. Area 8

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)		Spearman rank correlation*** (indoor/outdoor)		MoldSCORE**** (indoor/outdoor)	
Result: 3498%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.6000		dF: 7 Result: 0.8125 Critical value: 0.6786 Outside Similar: Yes		Score: 300 Result: High	
Species Detected				Spor	es/m3		
		<100	1K		10K	>100	K
	Ascospores						480
	Basidiospores						530
	Cladosporium						210
	Epicoccum						27
Penicillium/Aspergillus types							76,000
Rusts							27
Smuts, Periconia, Myxomycetes							53
·	Total						77,000

Location: 22-1340-080122-IA5: Indoor Air Sample. Area 10

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 162%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: 0.7500	dF: 5 Result: 0.8250 Critical value: 0.8000 Outside Similar: Yes	Score: 259 Result: High
Species 1	Detected		Spores/m3	
		<100 1K	10K	>100K
	Ascospores			1,300
	Basidiospores			210
	Cladosporium			210
Penici	illium/Aspergillus types			1,800
Smuts, P	Periconia, Myxomycetes			67
	Total			3,500

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Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA6: Indoor Air Sample. Area 11

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreemen (indoor/o		Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 12271%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result: ().6667	dF: 6 Result: 0.5571 Critical value: 0.7714 Outside Similar: No	Score: 300 Result: High
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Ascospores				370
	Basidiospores				110
	Cladosporium				690
Penic	illium/Aspergillus types				270,000
Smuts, P	Periconia, Myxomycetes				13
	Stachybotrys				13
	Total				270,000

Location: 22-1340-080122-IA7: Indoor Air Sample. Area 16

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)	Agreemen (indoor/o		corre	nan rank lation*** r/outdoor)	MoldSCORE**** (indoor/outdoor)			
Result: 38%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Result:	0.6000	Resu Critical	dF: 7 lt: 0.3482 value: 0.6786 Similar: No	Score: 151 Result: Medium			
Species 1	Detected			Spo	res/m3				
		<100	1K		10K	>100K			
	Ascospores						53		
	Basidiospores						53		
	Cladosporium						110		
	Other brown						13		
Penic	illium/Aspergillus types						530		
	Rusts						27		
Smuts, P	Periconia, Myxomycetes						67		
	Total						850		

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Client: G2 Consultants

C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022

Date of Receipt: 08-04-2022

Date of Report: 08-08-2022

MoldSTATTM: Supplementary Statistical Spore Trap Report

Location: 22-1340-080122-IA8: Indoor Air Sample. Area 17

% of outdoor total spores/m3	Friedman chi- square* (indoor variation)		nent ratio** r/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 24%	dF: 7 Result: 10.4907 Critical value: 14.0671 Inside Similar: Yes	Resu	lt: 0.7500	dF: 5 Result: 0.8250 Critical value: 0.8000 Outside Similar: Yes	Score: 103 Result: Low
Species 1	Detected			Spores/m3	
		<100	1K	10K	>100K
	Ascospores				370
	Basidiospores				53
	Cladosporium				53
Penici	illium/Aspergillus types				53
Smuts, P				13	
·	Total				550

^{*} The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORETM is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. Eurofins EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by Eurofins EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. Eurofins EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

^{**} An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

^{***} The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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Client: G2 Consultants C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

Outdoor Sample: 22-1340-080122-OA1 Outdoor Air Sample, S. Side of Exterior

Fungi Identified	Οι	ıtdo	or	san	ıpl	e	spor	es/	m3	Raw	Spores/
	<10	0		1K			10K	>	-1001	count	m3
Generally able to grow indoors*											
Alternaria										ND	< 13
Bipolaris/Drechslera group										ND	< 13
Chaetomium										ND	< 13
Cladosporium										2	110
Curvularia										ND	< 13
Nigrospora										ND	< 13
Penicillium/Aspergillus types†										ND	< 13
Stachybotrys										ND	< 13
Torula										ND	< 13
Seldom found growing indoors**											
Ascospores										15	800
Basidiospores										4	210
Rusts										ND	< 13
Smuts, Periconia, Myxomycetes										ND	< 13
Total				-							1,120

Location: 22-1340-080122-IA1 Indoor Air Sample. Area 1

Fungi Identified	Inc	loo	r s	amj	ple	S	por	es/i	m3		Raw	Spores/
	<100		1	K			10K		>100	K (count	m3
Generally able to grow indoors*												
Alternaria											ND	< 13
Bipolaris/Drechslera group											ND	< 13
Chaetomium											ND	< 13
Cladosporium											ND	< 13
Curvularia											ND	< 13
Epicoccum											1	13
Nigrospora											ND	< 13
Penicillium/Aspergillus types†											ND	< 13
Stachybotrys											ND	< 13
Torula											ND	< 13
Seldom found growing indoors**												
Ascospores											10	530
Basidiospores											4	210
Rusts											ND	< 13
Smuts, Periconia, Myxomycetes											2	27
Total												787

100	MoldSC(Score								
			100								
			100								
			100								
			100								
			100								
			105								
			100								
			100								
			100								
			100								
			182								
			113								
			100								
			105								
Fina	Final MoldSCORE										

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Client: G2 Consultants C/O: Mr. Noal Kraft

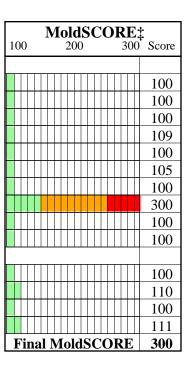
Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

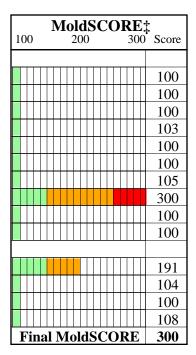
Location: 22-1340-080122-IA2 Indoor Air Sample. Area 3

	1A2 Illuool All Sample. Alea 5														
Fungi Identified	Iı	nd	00	rs	san	ıp]	le	S	poi	res	/r	n3		Raw	Spores/
	<10	00			1K				10K		>	100	K	count	m3
Generally able to grow indoors*															
Alternaria														ND	< 13
Bipolaris/Drechslera group														ND	< 13
Chaetomium														ND	< 13
Cladosporium														4	210
Curvularia														ND	< 13
Epicoccum														1	13
Nigrospora														ND	< 13
Penicillium/Aspergillus types†														59	22,000
Stachybotrys														ND	< 13
Torula														ND	< 13
Seldom found growing indoors**															
Ascospores														8	430
Basidiospores														4	210
Rusts														ND	< 13
Smuts, Periconia, Myxomycetes														4	53
Total															22,773



Location: 22-1340-080122-IA3 Indoor Air Sample. Area 7

Fungi Identified	In	ıdo	00	r	sam	ple	e s	spo	re	s/ı	m3	}	Raw	Spores/
	<10	0			1K			10	K	>	>100)K	count	m3
Generally able to grow indoors*														
Alternaria			Ш				Ш						ND	< 13
Bipolaris/Drechslera group			Ш										ND	< 13
Chaetomium			Ш										ND	< 13
Cladosporium			Ш										2	110
Curvularia			Ш										ND	< 13
Nigrospora													ND	< 13
Other brown			Ш										1	13
Penicillium/Aspergillus types†													107	40,000
Stachybotrys			Ш										ND	< 13
Torula													ND	< 13
Seldom found growing indoors**														
Ascospores													13	690
Basidiospores													3	160
Rusts			\prod										ND	< 13
Smuts, Periconia, Myxomycetes													3	40
Total														40,640



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Client: G2 Consultants C/O: Mr. Noal Kraft

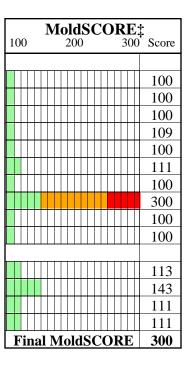
Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

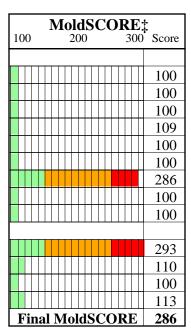
Location: 22-1340-080122-IA4 Indoor Air Sample. Area 8

LUCATION 22-1340-060122-1A4	14 Illuool Ali Sallipie. Alea o												
Fungi Identified	Ir	ıdo	or	sai	mp	le	SĮ	or	es/	m3	•	Raw	Spores/
	<10	0		1K				10K		>100	K	count	m3
Generally able to grow indoors*													
Alternaria												ND	< 13
Bipolaris/Drechslera group												ND	< 13
Chaetomium												ND	< 13
Cladosporium												4	210
Curvularia												ND	< 13
Epicoccum												2	27
Nigrospora												ND	< 13
Penicillium/Aspergillus types†												204	76,000
Stachybotrys												ND	< 13
Torula												ND	< 13
Seldom found growing indoors**													
Ascospores												9	480
Basidiospores												10	530
Rusts												2	27
Smuts, Periconia, Myxomycetes												4	53
Total													76,893



Location: 22-1340-080122-IA5 Indoor Air Sample. Area 10

Fungi Identified	In	do	or	sam	ple	S	por	es/	m.	3	Raw	Spores/
	<10	0		1K			10K		>10	0K	count	m3
Generally able to grow indoors*												
Alternaria											ND	< 13
Bipolaris/Drechslera group			Ш								ND	< 13
Chaetomium			Ш								ND	< 13
Cladosporium											4	210
Curvularia											ND	< 13
Nigrospora											ND	< 13
Penicillium/Aspergillus types†											33	1,800
Stachybotrys											ND	< 13
Torula											ND	< 13
Seldom found growing indoors**												
Ascospores											24	1,300
Basidiospores											4	210
Rusts											ND	< 13
Smuts, Periconia, Myxomycetes											5	67
Total												3,533



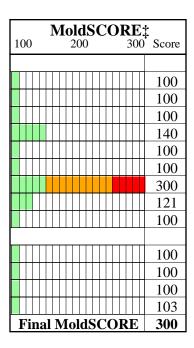
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Client: G2 Consultants C/O: Mr. Noal Kraft Re: 22-1340; 635-655 Manzanita Ave Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

Location: 22-1340-080122-IA6 Indoor Air Sample. Area 11

Fungi Identified	_	_	_	sam			_				Spores/
i ungi ruentmeu	<10	,,,	- '	1K	PIC	, ,	10K	CSI	>1		m3
Generally able to grow indoors*											
Alternaria										ND	< 13
Bipolaris/Drechslera group										ND	< 13
Chaetomium										ND	< 13
Cladosporium										13	690
Curvularia										ND	< 13
Nigrospora						Ш			П	ND	< 13
Penicillium/Aspergillus types†										729	270,000
Stachybotrys										1	13
Torula						Ш			П	ND	< 13
Seldom found growing indoors**											
Ascospores										7	370
Basidiospores										2	110
Rusts										ND	< 13
Smuts, Periconia, Myxomycetes										1	13
Total											271,200



Location: 22-1340-080122-IA7 Indoor Air Sample. Area 16

Fungi Identified	Inc	doo	r s	am	ple	S	por	es/	m	3	Raw	Spores/
	<100		1	K			10K		>10	0K	count	m3
Generally able to grow indoors*												
Alternaria											ND	< 13
Bipolaris/Drechslera group											ND	< 13
Chaetomium											ND	< 13
Cladosporium											2	110
Curvularia											ND	< 13
Nigrospora											ND	< 13
Other brown											1	13
Penicillium/Aspergillus types†											10	530
Stachybotrys											ND	< 13
Torula											ND	< 13
Seldom found growing indoors**												
Ascospores											1	53
Basidiospores											1	53
Rusts											2	27
Smuts, Periconia, Myxomycetes											5	67
Total												853

100	MoldSCO		Score											
			100											
			100											
			100											
			104											
	100													
	100													
			105											
			181											
			100											
			100											
			100											
			100											
			111											
			113											
Final	MoldSCO	RE	181											

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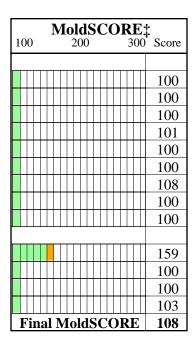
Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

Location: 22-1340-080122-IA8 Indoor Air Sample. Area 17

Location: 22-13-0-000122-1710	111	uo	01	1 1	711	Ju	111	pic.	11	10	<u>u</u>	1 /	
Fungi Identified	Iı	ndo	00	r	sam	pl	e s	por	es/	m	3	Raw	Spores/
	<10	00			1K			10K		>1	00F	count	m3
Generally able to grow indoors*													
Alternaria												ND	< 13
Bipolaris/Drechslera group												ND	< 13
Chaetomium												ND	< 13
Cladosporium												1	53
Curvularia												ND	< 13
Nigrospora												ND	< 13
Penicillium/Aspergillus types†												1	53
Stachybotrys												ND	< 13
Torula												ND	< 13
Seldom found growing indoors**													
Ascospores			П									7	370
Basidiospores			\prod							П		1	53
Rusts												ND	< 13
Smuts, Periconia, Myxomycetes												1	13
Total													547



^{*} The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

^{**} These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

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Client: G2 Consultants C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

Outdoor Sample: 22-1340-080122-OA2 Outdoor Air Sample, N. Side of Exterior

Fungi Identified	Oı	ıtde	00	r s	am	ıpl	e	spo	ore	es/	m.	Ra	w	Spores/
_	<10	0		11	K			10K		>	100	cou	nt	m3
Generally able to grow indoors*														
Alternaria												NE)	< 13
Bipolaris/Drechslera group												NE)	< 13
Chaetomium												NE)	< 13
Cladosporium												NE)	< 13
Curvularia												NE)	< 13
Nigrospora												NE)	< 13
Penicillium/Aspergillus types†												10)	530
Stachybotrys												NE)	< 13
Torula												NE)	< 13
Seldom found growing indoors**														
Ascospores												23		1,200
Basidiospores												9		480
Rusts												NE)	< 13
Smuts, Periconia, Myxomycetes												NE)	< 13
Total														2,240

Location: 22-1340-080122-IA1 Indoor Air Sample. Area 1

Fungi Identified	Inc	doo	r s	amj	ole	sį	or	es/ı	m3	Raw	Spores/
	<100		1	K			10K	3	>1001	count	m3
Generally able to grow indoors*											
Alternaria					Ш					ND	< 13
Bipolaris/Drechslera group										ND	< 13
Chaetomium										ND	< 13
Cladosporium										ND	< 13
Curvularia										ND	< 13
Epicoccum										1	13
Nigrospora										ND	< 13
Penicillium/Aspergillus types†										ND	< 13
Stachybotrys										ND	< 13
Torula										ND	< 13
Seldom found growing indoors**											
Ascospores										10	530
Basidiospores										4	210
Rusts										ND	< 13
Smuts, Periconia, Myxomycetes										2	27
Total											787

100	MoldSC0 200	ORE:	
			100
			100
			100
			100
			100
			105
			100
			100
			100
			100
			143
			104
			100
			105
Fina	al MoldSCO	ORE	110

19515 North Creek Pkwy N, #100, Bothell, WA 98011 (866) 888-6653 Fax (623) 780-7695 www.emlab.com

Client: G2 Consultants C/O: Mr. Noal Kraft

Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

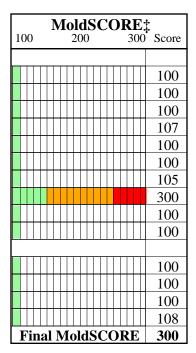
Location: 22-1340-080122-IA2 Indoor Air Sample. Area 3

Location: 22-1340-080122-1A2	1111	uo	ΟI		1 11	Sa	Ш.	ւբ	וע.	А	16	za	J		
Fungi Identified	In	ıdo	00	rs	sam	ıpl	le	S]	or	es	/n	n3		Raw	Spores/
	<10	0			1K				10K		>	100	K	count	m3
Generally able to grow indoors*															
Alternaria														ND	< 13
Bipolaris/Drechslera group		Ш												ND	< 13
Chaetomium		Ш												ND	< 13
Cladosporium														4	210
Curvularia														ND	< 13
Epicoccum														1	13
Nigrospora														ND	< 13
Penicillium/Aspergillus types†														59	22,000
Stachybotrys														ND	< 13
Torula														ND	< 13
Seldom found growing indoors**															
Ascospores														8	430
Basidiospores														4	210
Rusts														ND	< 13
Smuts, Periconia, Myxomycetes														4	53
Total															22,773

	MoldSCORE; 200 300 Score											
RE :	Score											
	100											
	100											
	100											
113 100												
105												
	100											
	300											
	100											
	100											
	100											
	100											
	100											
	111											
RE	300											
	300											

Location: 22-1340-080122-IA3 Indoor Air Sample. Area 7

Fungi Identified	In	ıdo	00	r	sam	ple	e s	spo	ore	es/i	m3	3	Raw	Spores/
	<10	0			1K			10	K	:	>10	0K	count	m3
Generally able to grow indoors*														
Alternaria			Ш										ND	< 13
Bipolaris/Drechslera group			Ш										ND	< 13
Chaetomium			Ш										ND	< 13
Cladosporium			Ш										2	110
Curvularia			Ш										ND	< 13
Nigrospora													ND	< 13
Other brown			Ш										1	13
Penicillium/Aspergillus types†													107	40,000
Stachybotrys			Ш										ND	< 13
Torula													ND	< 13
Seldom found growing indoors**														
Ascospores													13	690
Basidiospores													3	160
Rusts			\prod										ND	< 13
Smuts, Periconia, Myxomycetes													3	40
Total														40,640



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Client: G2 Consultants C/O: Mr. Noal Kraft

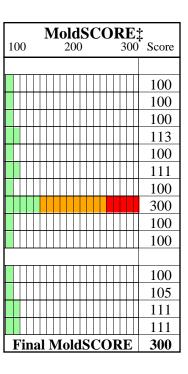
Re: 22-1340; 635-655 Manzanita Ave

Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

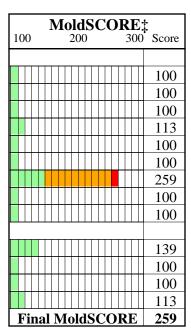
Location: 22-1340-080122-IA4 Indoor Air Sample. Area 8

Lucation. 22-1340-060122-1A4	111	uot	Л.	A 11	. 0	am.	Ψ	ıc.	Λ I	Ca	C	,	
Fungi Identified	Ir	ıdo	or	sai	mp	le	sį	oro	es/	m3	}	Raw	Spores/
	<10	0		1K				10K		>100)K	count	m3
Generally able to grow indoors*													
Alternaria												ND	< 13
Bipolaris/Drechslera group												ND	< 13
Chaetomium			Ш									ND	< 13
Cladosporium												4	210
Curvularia												ND	< 13
Epicoccum												2	27
Nigrospora												ND	< 13
Penicillium/Aspergillus types†												204	76,000
Stachybotrys												ND	< 13
Torula												ND	< 13
Seldom found growing indoors**													
Ascospores												9	480
Basidiospores												10	530
Rusts												2	27
Smuts, Periconia, Myxomycetes						\prod						4	53
Total													76,893



Location: 22-1340-080122-IA5 Indoor Air Sample. Area 10

Fungi Identified	In	ıdo	or	san	ıpl	le :	spo	re	s/r	n3	Raw	7	Spores/
	<100	0		1K			10	K	>	1001	coun	t	m3
Generally able to grow indoors*													
Alternaria											ND		< 13
Bipolaris/Drechslera group											ND		< 13
Chaetomium			Ш								ND		< 13
Cladosporium											4		210
Curvularia											ND		< 13
Nigrospora											ND		< 13
Penicillium/Aspergillus types†			Ш								33		1,800
Stachybotrys											ND		< 13
Torula											ND		< 13
Seldom found growing indoors**													
Ascospores			Ш								24		1,300
Basidiospores											4		210
Rusts											ND		< 13
Smuts, Periconia, Myxomycetes											5		67
Total													3,533



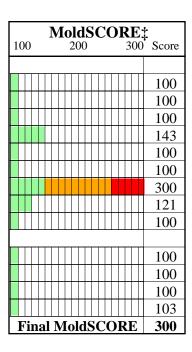
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Client: G2 Consultants C/O: Mr. Noal Kraft Re: 22-1340; 635-655 Manzanita Ave Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

Location: 22-1340-080122-IA6 Indoor Air Sample. Area 11

Location , 22-13-0-000122-1710	_						_	_				1 1	
Fungi Identified	Iı	ndo	0	r	sam	pl	e s	poi	es	m	3	Raw	Spores/
	<10	00			1K			10K		>1	00F	count	m3
Generally able to grow indoors*													
Alternaria												ND	< 13
Bipolaris/Drechslera group												ND	< 13
Chaetomium												ND	< 13
Cladosporium												13	690
Curvularia												ND	< 13
Nigrospora			\prod									ND	< 13
Penicillium/Aspergillus types†												729	270,000
Stachybotrys												1	13
Torula												ND	< 13
Seldom found growing indoors**													
Ascospores			П									7	370
Basidiospores												2	110
Rusts												ND	< 13
Smuts, Periconia, Myxomycetes												1	13
Total													271,200



Location: 22-1340-080122-IA7 Indoor Air Sample. Area 16

Fungi Identified	In	doo	r s	am	ple	S	por	es/	m3	3	Raw	Spores/
	<100		1	K			10K		>10	0K	count	m3
Generally able to grow indoors*												
Alternaria											ND	< 13
Bipolaris/Drechslera group											ND	< 13
Chaetomium									Ш		ND	< 13
Cladosporium											2	110
Curvularia											ND	< 13
Nigrospora									Ш		ND	< 13
Other brown											1	13
Penicillium/Aspergillus types†											10	530
Stachybotrys											ND	< 13
Torula											ND	< 13
Seldom found growing indoors**												
Ascospores											1	53
Basidiospores											1	53
Rusts									Ш		2	27
Smuts, Periconia, Myxomycetes											5	67
Total												853

100	MoldSCO		Score
			100
			100
			100
			107
			100
			100
			105
			151
			100
			100
			100
			100
			111
			113
Final	MoldSCO	RE	151

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Client: G2 Consultants C/O: Mr. Noal Kraft Re: 22-1340; 635-655 Manzanita Ave Date of Sampling: 08-01-2022 Date of Receipt: 08-04-2022 Date of Report: 08-08-2022

MoldSCORETM: Spore Trap Report

Location: 22-1340-080122-IA8 Indoor Air Sample. Area 17

Location. 22-13-0-000122-1710	111	uo	<u> </u>	- 4	X11 1	Du	111	Ρ,	<u>C. 1</u>	71	cu		. /	
Fungi Identified	Ir	ada	0	r	sam	ıpl	e s	sp	ore	s/ı	n3	3	Raw	Spores/
	<10	00			1K			10	OΚ	>	-100)K	count	m3
Generally able to grow indoors*														
Alternaria													ND	< 13
Bipolaris/Drechslera group													ND	< 13
Chaetomium													ND	< 13
Cladosporium													1	53
Curvularia													ND	< 13
Nigrospora													ND	< 13
Penicillium/Aspergillus types†													1	53
Stachybotrys													ND	< 13
Torula			\prod										ND	< 13
Seldom found growing indoors**														
Ascospores			Π										7	370
Basidiospores			П					Ш					1	53
Rusts													ND	< 13
Smuts, Periconia, Myxomycetes													1	13
Total		·												547

100	MoldSC 200		Score
			100
			100
			100
			103
			100
			100
			100
			100
			100
			131
			100
			100
			103
Fin	al MoldSC	ORE	103
Fin	al MoldSC	ORE	103

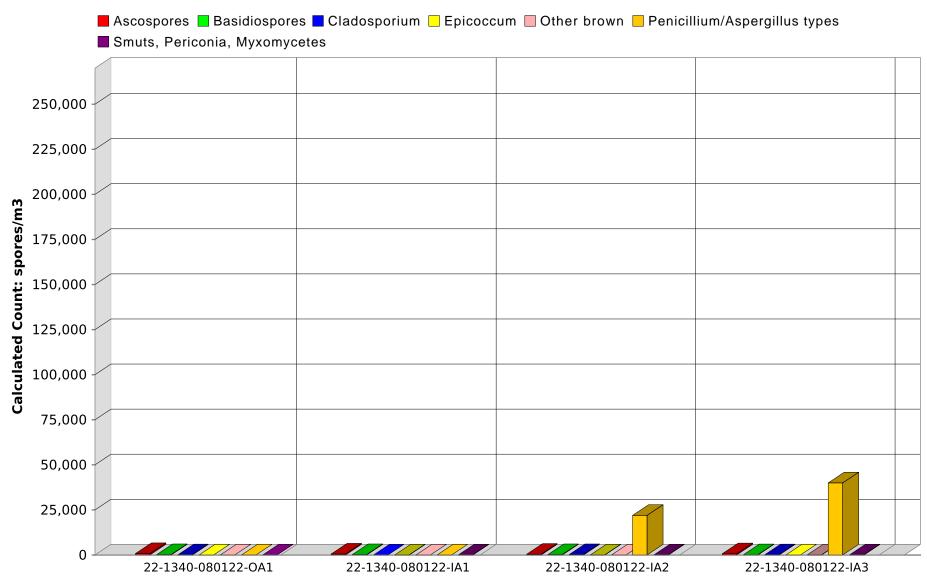
^{*} The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

^{**} These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

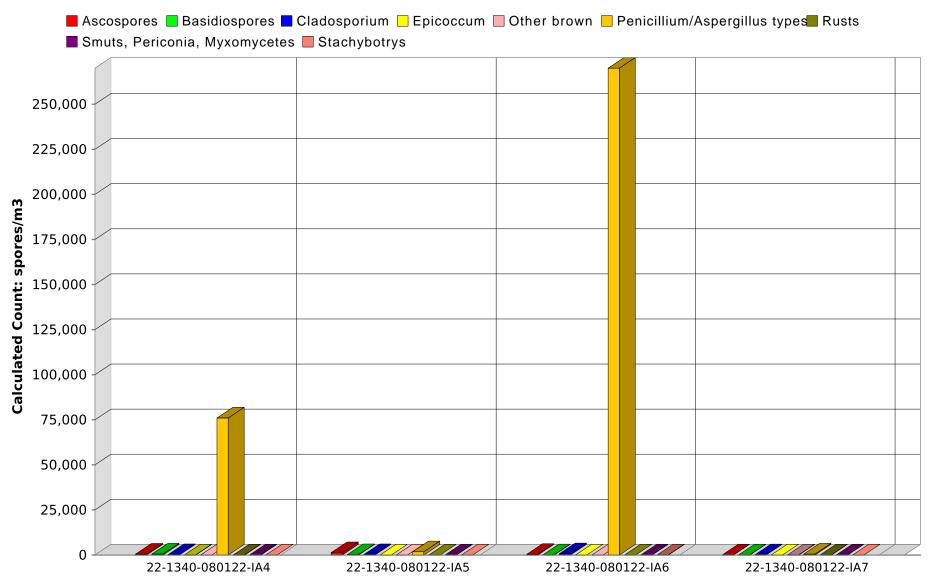


Comments:

Note: Graphical output may understate the importance of certain "marker" genera. Eurofins EPK Built Environment Testing, LLC

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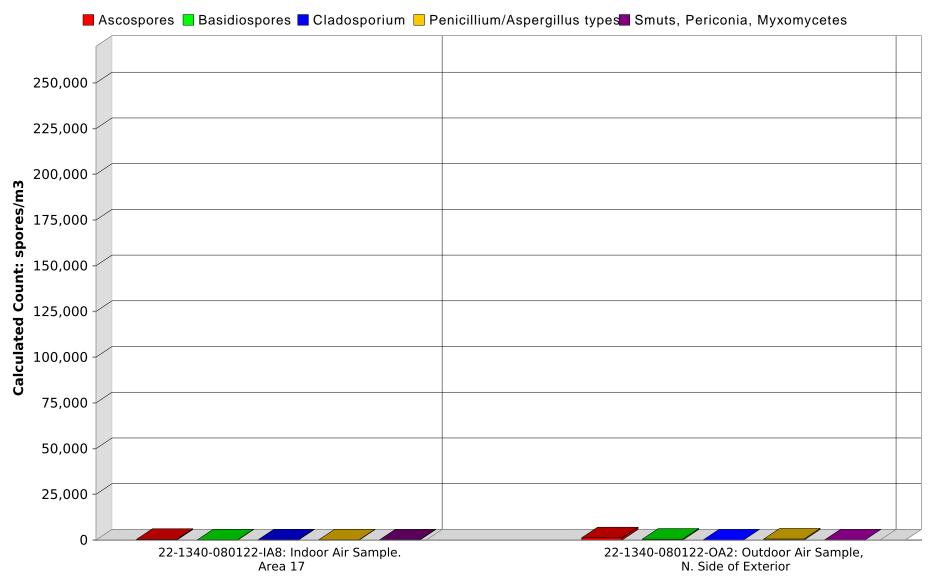
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

Note: Graphical output may understate the importance of certain "marker" genera. Eurofins EPK Built Environment Testing, LLC

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

Note: Graphical output may understate the importance of certain "marker" genera. Eurofins EPK Built Environment Testing, LLC



Client: Hahn and Assoiciates, Inc

Site Address: 635-655 Manzanita Ave.

Manzanita

OR

Page #: 1 OF



CHAIN OF CUSTODY RECORD

G2 Contact: Noal Kraft

Phone #: (503) 784-2941

G2 Job #: 22-1340 Sample Date: 8/1/22

Sampled by: Noge Krage

		Mold:	Other:				
Analysis Type	e:	□ Tapelift□ Bulk	AJR	Sample			
Turn-Around Time: Results to:	abresults@g	□ RUSH 2ci.com	□ 24-Hour	☑ 48-Hour ☐ 72-Hour	Notes:		
Sample #	Ma	terial Descri	ption	Sample Location	Material Extent	Condition	Quantity
22-1340-080122	Outbook	AGR SA	mple	5. Side OF Exterior		10: 27	
	COMUT	L ATTR SA	male	Anea 1	03/28 3419 - 7264	10:32	
) AI	1	-			03/23	14:39	
SAE				Arrea 3	3419-3266	10:41	
193				ANEX 7	3419-3251	10:49	
				8 Ama	03/23 3419 - 3267	10:54	
PAE				N	03/23	11:00	
ZAI				Avea 10	3419-3262	11:02	
146		_		Anea II	3419-3110	11:09	
				Anna #716	3419-3257	11:14	
LAT		+		Anna #17	3419-3252	11:24	
JA8		1			03/23	11:29	
0A2	Ogrosor	AIR SAM		N. SIDE OF EXTENSIVE	3729 - 4409	11:33	
Samples Re	and Time:	Her !		Samples Relinquished by: Date and Time: Samples Received by: Date and Time:		11.750	

Appendix D:

XRF Readings Table

READING NO	SITE	STRUCTURE	FLOOR	ROOM	COMPONENT	SUBSTRATE	SIDE	COLOR	RESULTS	CONDITION	PbC	UNITS	ACTION LEVEL	PbC Error
1	CALIBRATION										1.55	cps		0
2	CALIBRATION								POSITIVE		1	mg/cm ²	1	0.1
3	CALIBRATION								POSITIVE		1	mg/cm ²	1	0.1
4	CALIBRATION								POSITIVE		_	mg/cm ²	1	0.1
5	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Wall	Plaster	Α	Wallpaper	NEGATIVE	Intact		mg/cm ²	1	0.02
6	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Baseboard	Wood	Α	White	NEGATIVE	Intact	0.4	mg/cm ²	1	0.6
7	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Window Sill	Ceramic	Α	White	NEGATIVE	Intact		mg/cm ²	1	0.2
8	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Door Trim	Wood	В	White	NEGATIVE	Intact		mg/cm ²	1	0.48
9	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Ceiling	Plaster	В	White	NEGATIVE	Intact	0.01	mg/cm ²	1	0.03
10	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Cabinet Door	Wood	В	White	NEGATIVE	Intact		mg/cm ²	1	0.2
11	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Countertop	Ceramic	В	Gray	NEGATIVE	Intact		mg/cm ²	1	0.3
12	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Window	Wood	С	White	NEGATIVE			mg/cm ²	1	0.63
13	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Window Sill	Wood	С	White	NEGATIVE			mg/cm ²	1	0.53
14	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Window	Wood	С	White	NEGATIVE	Fair	0.06	mg/cm ²	1	0.09
15	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Window Trim	Wood	С	White	NEGATIVE			mg/cm ²	1	0.14
16	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Door	Wood	С	White	NEGATIVE			mg/cm ²	1	0.3
17	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Wall	Drywall	D	White	NEGATIVE			mg/cm ²	1	0.02
18	635-655 MANZANITA AVE, MANZANITA, OR	AREA 1	1st	INTERIOR	Ceiling	Ceiling Tile	Upper	White	NEGATIVE			mg/cm ²	1	0.02
19	635-655 MANZANITA AVE, MANZANITA, OR	AREA 2	1st	INTERIOR	Ceiling	Ceiling Tile	Upper	White	NEGATIVE			mg/cm ²	1	0.02
20	635-655 MANZANITA AVE, MANZANITA, OR	AREA 2	1st	INTERIOR	Wall	Plaster	C	Green	NEGATIVE			mg/cm ²	1	0.06
21	635-655 MANZANITA AVE, MANZANITA, OR	AREA 2	1st	INTERIOR	Window	Wood	В	Pink	NEGATIVE			mg/cm ²	1	0.17
22	635-655 MANZANITA AVE, MANZANITA, OR	AREA 2	1st	INTERIOR	Window Sill	Wood	В	Green	POSITIVE	Fair		mg/cm ²	1	0.2
23	NULL SAMPLE						_						_	
24	NULL SAMPLE													
25	635-655 MANZANITA AVE, MANZANITA, OR	AREA 2	1st	INTERIOR	Baseboard	Wood	Α	Green	NEGATIVE	Fair	0.19	mg/cm ²	1	0.48
26	635-655 MANZANITA AVE, MANZANITA, OR	AREA 2	1st	INTERIOR	Heater Cover	Metal	В	Green	NEGATIVE			mg/cm ²	1	0.16
27	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Window Sill	Wood	Α	White	NEGATIVE			mg/cm ²	1	0.03
28	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Window Trim	Wood	D	White	NEGATIVE			mg/cm ²	1	0.02
29	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Baseboard	Wood	D	White	NEGATIVE			mg/cm ²	1	0.27
30	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Wall	Plaster	D	White	NEGATIVE			mg/cm ²	1	0.02
31	NULL SAMPLE			-						_		Or -		
32	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Closet Door	Wood	D	White	NEGATIVE	Fair	0.5	mg/cm ²	1	0.3
33	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Closet Door Trim	Wood	D	White	NEGATIVE	Intact	0.06	mg/cm ²	1	0.08
34	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Door Trim	Wood	Α	White	NEGATIVE	Fair		mg/cm ²	1	0.24
35	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Door	Wood	Α	Stained	NEGATIVE	Fair	0.01	mg/cm ²	1	0.07
36	NULL SAMPLE											<u> </u>		
37	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Ceiling	Plaster	Upper	White	NEGATIVE	Intact	0.01	mg/cm ²	1	0.03
38	635-655 MANZANITA AVE, MANZANITA, OR	AREA 3	1st	INTERIOR	Ceiling	Ceiling Tile	Upper	White	NEGATIVE	Intact	0	mg/cm ²	1	0.02
39	635-655 MANZANITA AVE, MANZANITA, OR	AREA 4	1st	INTERIOR	Ceiling	Drywall	Upper	White	NEGATIVE	Intact	0.28	mg/cm ²	1	0.08
40	635-655 MANZANITA AVE, MANZANITA, OR	AREA 4	1st	INTERIOR	Wall	Drywall	Α	Beige	NEGATIVE	Intact	0.11	mg/cm ²	1	0.1
41	635-655 MANZANITA AVE, MANZANITA, OR	AREA 4	1st	INTERIOR	Window Trim	Wood	Α	Beige		Intact		mg/cm ²	1	0.5
42	635-655 MANZANITA AVE, MANZANITA, OR	AREA 4	1st	INTERIOR	Window	Wood	Α	Beige	1	Poor		mg/cm ²	1	3.8
43	635-655 MANZANITA AVE, MANZANITA, OR	AREA 4	1st	INTERIOR	Baseboard	Wood	В	White	POSITIVE	Poor		mg/cm ²	1	0.1
44	635-655 MANZANITA AVE, MANZANITA, OR	AREA 4	1st	INTERIOR	Sink	Metal	Α	White	NEGATIVE			mg/cm ²	1	0.2
45	635-655 MANZANITA AVE, MANZANITA, OR	AREA 5	1st	INTERIOR	Sink	Metal	Α	White	NEGATIVE			mg/cm ²	1	0.07
46	635-655 MANZANITA AVE, MANZANITA, OR	AREA 5	1st	INTERIOR	Door	Wood	С	White	POSITIVE	Intact		mg/cm ²	1	0.3
47	635-655 MANZANITA AVE, MANZANITA, OR	AREA 5	1st	INTERIOR	Door Jamb	Wood	С	White	POSITIVE	Intact	_	mg/cm ²	1	0.6

READING NO	SITE	STRUCTURE	FLOOR	ROOM	COMPONENT	SUBSTRATE	SIDE	COLOR	RESULTS	CONDITION	PbC	UNITS	ACTION LEVEL	PbC Error
48	635-655 MANZANITA AVE, MANZANITA, OR	AREA 6	1st	INTERIOR	Built Ins	Wood	D	White	NEGATIVE	Intact	0	mg/cm ²	1	0.03
49	635-655 MANZANITA AVE, MANZANITA, OR	AREA 6	1st	INTERIOR	Wall	Drywall	С	White	NEGATIVE	Intact	0	mg/cm ²	1	0.02
50	635-655 MANZANITA AVE, MANZANITA, OR	AREA 6	1st	INTERIOR	Window	Wood	D	White	POSITIVE	Poor	1.4	mg/cm ²	1	0.4
51	NULL SAMPLE											<u> </u>		
52	NULL SAMPLE													
53	635-655 MANZANITA AVE, MANZANITA, OR	AREA 7	1st	INTERIOR	Window Trim	Wood	D	White	NEGATIVE	Intact	0.13	mg/cm ²	1	0.18
54	635-655 MANZANITA AVE, MANZANITA, OR	AREA 7	1st	INTERIOR	Wall	Concrete	Α	White	NEGATIVE			mg/cm ²	1	0.69
55	635-655 MANZANITA AVE, MANZANITA, OR	AREA 7	1st	INTERIOR	Door Trim	Wood	Α	White	NEGATIVE			mg/cm ²	1	0.19
56	635-655 MANZANITA AVE, MANZANITA, OR	AREA 7	1st	INTERIOR	Door Trim	Wood	В	White		Intact		mg/cm ²	1	0.5
57	635-655 MANZANITA AVE, MANZANITA, OR	AREA 7	1st	INTERIOR	Door	Wood	В	White	NEGATIVE			mg/cm ²	1	0.14
58	635-655 MANZANITA AVE, MANZANITA, OR	AREA 7	1st	INTERIOR	Door	Wood	C	Purple	NEGATIVE			mg/cm ²	1	0.12
59	635-655 MANZANITA AVE, MANZANITA, OR	AREA 7	1st	INTERIOR	Ceiling	Ceiling Tile	Upper	White	NEGATIVE			mg/cm ²	1	0.02
60	635-655 MANZANITA AVE, MANZANITA, OR	AREA 8	1st	INTERIOR	Ceiling	Plaster	Upper	Yellow	NEGATIVE			mg/cm ²	1	0.1
61	635-655 MANZANITA AVE, MANZANITA, OR	AREA 8	1st	INTERIOR	Wall	Plaster	А	White	NEGATIVE			mg/cm ²	1	0.1
62	635-655 MANZANITA AVE, MANZANITA, OR	AREA 8	1st	INTERIOR	Door Jamb	Wood	Α	Blue	NEGATIVE			mg/cm ²	1	0.06
63	635-655 MANZANITA AVE, MANZANITA, OR	AREA 8	1st	INTERIOR	Baseboard	Wood	Α	Brown	NEGATIVE		0.3	, ,	1	0.19
64	635-655 MANZANITA AVE, MANZANITA, OR	AREA 8	1st	INTERIOR	Cabinet Door	Wood	С	Brown	NEGATIVE			mg/cm ²	1	0.4
65	635-655 MANZANITA AVE, MANZANITA, OR	AREA 8	1st	INTERIOR	Window Sill	Wood	В	White		Poor	1.1	mg/cm ²	1	0.1
66	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Door	Wood	D	White	NEGATIVE			mg/cm ²	1	0.06
67	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Door Trim	Wood	D	White	NEGATIVE		0.11	mg/cm ²	1	0.14
68	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Baseboard	Wood	D	White	NEGATIVE		_	mg/cm ²	1	0.1
69	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Cabinet Door	Wood	A	White	NEGATIVE		0.06		1	0.16
70	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Shelf	Wood	A	White	NEGATIVE			mg/cm ²	1	0.11
71	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Wall	Plaster	A	White	NEGATIVE			mg/cm ²	1	0.07
72	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Window Sill	Wood	В	White	POSITIVE	Intact		mg/cm ²	1	1.3
73	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Ceiling	Ceiling Tile	Upper	White	NEGATIVE			mg/cm ²	1	0.02
74	635-655 MANZANITA AVE, MANZANITA, OR	AREA 10	1st	INTERIOR	Wall Paneling	Wood	D	White	NEGATIVE			mg/cm ²	1	0.02
75	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Door Trim	Wood	D	Beige	NEGATIVE			mg/cm ²	1	0.02
76	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Wall	Drywall	В	White	NEGATIVE			mg/cm ²	1	0.18
77	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Baseboard	Wood	В	White	NEGATIVE			mg/cm ²	1	0.21
78	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Heater Cover	Metal	В	White	NEGATIVE			mg/cm ²	1	0.32
79	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Wall	Drywall	A	Green	NEGATIVE			mg/cm ²	1	0.04
80	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Cabinet Door	Wood	A	Brown	NEGATIVE		0.02	mg/cm ²	1	0.04
81	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Shelf	Wood	A	Brown	NEGATIVE			mg/cm ²	1	0.3
82	635-655 MANZANITA AVE, MANZANITA, OR	AREA 11	1st	INTERIOR	Ceiling	Ceiling Tile	Upper	White	NEGATIVE			mg/cm ²	1	0.02
83	635-655 MANZANITA AVE, MANZANITA, OR	AREA 12	1st	INTERIOR	Ceiling	Drywall	Upper	White	NEGATIVE			mg/cm ²	1	0.02
84	635-655 MANZANITA AVE, MANZANITA, OR	AREA 12	1st	INTERIOR	Wall	Drywall	D	White	NEGATIVE			mg/cm ²	1	0.02
85		AREA 12	1st	INTERIOR			D	Stained	NEGATIVE			mg/cm ²	1	0.02
86	635-655 MANZANITA AVE, MANZANITA, OR 635-655 MANZANITA AVE, MANZANITA, OR	AREA 12	1st	INTERIOR	Cabinet Door Door Trim	Drywall Wood	A	Stained	NEGATIVE			mg/cm ²	1	0.02
86	,	AREA 12	1st	INTERIOR	Door	Wood	A	Stained	NEGATIVE			mg/cm ²	1	0.03
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 12					В		1				+	0.02
88 89	635-655 MANZANITA AVE, MANZANITA, OR	AREA 12 AREA 13	1st 1st	INTERIOR INTERIOR	Baseboard Door	Wood Wood	В	Stained White	NEGATIVE NEGATIVE			mg/cm ²	1	0.02
	635-655 MANZANITA AVE, MANZANITA, OR											mg/cm ²		
90	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Door Jamb	Wood	В	White	POSITIVE	Intact	2.5	U/ -	1	1.2
91	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Wall	Plaster	В	Blue	NEGATIVE			mg/cm ²	1	0.08
92	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Ceiling	Plaster	Upper	White	NEGATIVE			mg/cm ²	1	0.04
93	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Window	Wood	A	White	POSITIVE	Intact		mg/cm ²	1	0.6
94	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Window Trim	Wood	Α	White	NEGATIVE	intact	0.03	mg/cm ²	1	0.1

READING NO	SITE	STRUCTURE	FLOOR	ROOM	COMPONENT	SUBSTRATE	SIDE	COLOR	RESULTS	CONDITION	PbC	UNITS	ACTION LEVEL	PbC Error
95	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Bathroom Stall	Wood	С	Blue	NEGATIVE	Intact	0.03	mg/cm ²	1	0.12
96	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Bathroom Stall	Wood	С	Blue	NEGATIVE	Intact	0.03	mg/cm ²	1	0.12
97	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Sink	Metal	Α	White	NEGATIVE	Intact	0.02	mg/cm ²	1	0.13
98	635-655 MANZANITA AVE, MANZANITA, OR	AREA 13	1st	INTERIOR	Floor	Concrete	Lower	Gray	NEGATIVE	Intact	0	mg/cm ²	1	0.02
99	635-655 MANZANITA AVE, MANZANITA, OR	AREA 14	1st	INTERIOR	Wall	Plaster	Α	Green	NEGATIVE	Intact	0.12	mg/cm ²	1	0.05
100	635-655 MANZANITA AVE, MANZANITA, OR	AREA 14	1st	INTERIOR	Shelf	Wood	D	White	NEGATIVE			mg/cm ²	1	0.03
101	635-655 MANZANITA AVE, MANZANITA, OR	AREA 14	1st	INTERIOR	Door	Wood	В	White	NEGATIVE			mg/cm ²	1	0.18
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 14	1st	INTERIOR	Sink	Metal	С	White	POSITIVE	Intact		mg/cm ²	1	6.2
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Sink	Metal	Α	White	NEGATIVE			mg/cm ²	1	0.03
104	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Door	Wood	В	White	NEGATIVE			mg/cm ²	1	0.03
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Door Trim	Wood	В	White	NEGATIVE			mg/cm ²	1	0.72
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Bathroom Stall	Wood	Α	White	NEGATIVE			mg/cm ²	1	0.25
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Bathroom Stall	Wood	Α	White	NEGATIVE			mg/cm ²	1	0.05
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Window	Wood	С	White		Poor		mg/cm ²	1	0.3
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Wall	Plaster	C	White	NEGATIVE			mg/cm ²	1	0.18
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Ceiling	Drywall	Upper	White	NEGATIVE			mg/cm ²	1	0.06
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 15	1st	INTERIOR	Floor	Concrete	Lower	Gray	NEGATIVE			mg/cm ²	1	0.02
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 16	1st	INTERIOR	Door	Wood	D	White	NEGATIVE			mg/cm ²	1	0.07
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 16	1st	INTERIOR	Garage Door	Metal	D	White	NEGATIVE			mg/cm ²	1	0.03
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 16	1st	INTERIOR	Siding	Wood	A	Brown	NEGATIVE			mg/cm ²	1	0.14
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR	Wall	Wood	В	Green	NEGATIVE			mg/cm ²	1	0.09
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR	Wall	Metal	В	Silver	NEGATIVE			•	1	0.05
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR	Structural Members	Metal	В	Silver	NEGATIVE			mg/cm ²	1	0.03
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR	Structural Members	Metal	В	Silver	NEGATIVE			mg/cm ²	1	0.03
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR	Structural Members	Metal	D	Silver	NEGATIVE			mg/cm ²	1	0.04
120	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR	Structural Members	Metal	D	Silver	NEGATIVE			mg/cm ²	1	0.04
121	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR	Garage Door	Metal	A	White	NEGATIVE			mg/cm ²	1	0.03
	635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st	INTERIOR		Metal	A	White	NEGATIVE			mg/cm ²	1	0.02
123		AREA 17	1st	INTERIOR	Garage Door	Metal		White				mg/cm ²	1	0.02
	635-655 MANZANITA AVE, MANZANITA, OR 635-655 MANZANITA AVE, MANZANITA, OR	AREA 17	1st		Door Wall	Wood	A D		NEGATIVE NEGATIVE			mg/cm ²	1	0.02
	,			INTERIOR			D	Green				-		0.03
125 126	635-655 MANZANITA AVE, MANZANITA, OR CALIBRATION	AREA 17	1st	INTERIOR	Wall	Metal	U	Silvrr	NEGATIVE POSITIVE	rair		mg/cm ²	1	0.12
													1	1
	CALIBRATION								POSITIVE			mg/cm ²		0.1
	CALIBRATION	-							POSITIVE			mg/cm ²	1	0.1
	CALIBRATION								POSITIVE			mg/cm ²	1	0.1
	CALIBRATION								DOCITIVE		1.69		4	0
	CALIBRATION								POSITIVE			mg/cm ²	1	0.1
	CALIBRATION								POSITIVE			mg/cm²	1	0.1
	CALIBRATION								POSITIVE			mg/cm ²	1	0.1
	CALIBRATION								POSITIVE			mg/cm ²	1	0.1
	CALIBRATION								NECATIVE		1.42	- 1 -		0
	CALIBRATION								NEGATIVE			mg/cm ²	1	0.1
137	CALIBRATION								POSITIVE			mg/cm²	1	0.1
138	CALIBRATION								POSITIVE			mg/cm ²	1	0.2
139	CALIBRATION								POSITIVE			mg/cm ²	1	0.1
140	CALIBRATION				_				POSITIVE			mg/cm ²	1	0.1
141	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	Roof	EXTERIOR	Gutter	Metal	D	White	NEGATIVE	Fair	0	mg/cm ²	1	0.02

READING NO	SITE	STRUCTURE	FLOOR	ROOM	COMPONENT	SUBSTRATE	SIDE	COLOR	RESULTS	CONDITION	PbC	UNITS	ACTION LEVEL	PbC Error
142	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	Roof	EXTERIOR	Fascia	Wood	D	White	NEGATIVE	Intact	0	mg/cm ²	1	0.02
143	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	Roof	EXTERIOR	Siding	Metal	D	White	NEGATIVE	Intact		mg/cm ²	1	0.02
144	NULL SAMPLE													
145	NULL SAMPLE													
146	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	Roof	EXTERIOR	Siding	Metal	В	White	NEGATIVE	Intact	0	mg/cm ²	1	0.02
147	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Siding	Wood	Α	Gray	NEGATIVE	Poor	0.01	mg/cm ²	1	0.04
148	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Window	Wood	Α	White	NEGATIVE	Poor		mg/cm ²	1	0.5
149	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Window Sill	Wood	Α	White	NEGATIVE	Poor	0.3	mg/cm ²	1	0.27
150	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Door Trim	Wood	Α	White	POSITIVE	Fair	1.5	mg/cm ²	1	0.4
151	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Door	Wood	Α	Brown	NEGATIVE	Poor	0.03	mg/cm ²	1	0.09
152	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Window	Wood	Α	White	NEGATIVE	Poor		mg/cm ²	1	0.02
153	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Siding	Wood	Α	Gray	NEGATIVE	Fair	0	mg/cm ²	1	0.02
154	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Siding	Wood	В	Gray	NEGATIVE	Poor	0	mg/cm ²	1	0.02
155	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Window covering	Wood	В	Gray	NEGATIVE	Poor	0	mg/cm ²	1	0.02
156	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Window	Wood	В	Gray	POSITIVE	Poor		mg/cm ²	1	4.9
157	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Downspout	Metal	В	Gray	NEGATIVE		0	mg/cm ²	1	0.02
158	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Gutter	Metal	В	White	NEGATIVE	Fair	0	mg/cm ²	1	0.02
159	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Door	Wood	В	Gray	NEGATIVE	Poor	0.08	mg/cm ²	1	0.2
160	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Door Trim	Wood	В	Gray	POSITIVE	Poor	4	mg/cm ²	1	2.9
161	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Siding	Wood	В	Gray	NEGATIVE	Fair	0	mg/cm ²	1	0.02
162	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Siding	Wood	В	Gray	POSITIVE	Fair	1.5	mg/cm ²	1	0.4
163	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Window	Wood	В	White	POSITIVE	Poor		mg/cm ²	1	1.9
164	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Siding	Wood	С	Gray	NEGATIVE	Poor		mg/cm ²	1	0.56
165	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Siding	Wood	D	Gray	NEGATIVE	Poor	0.03	mg/cm ²	1	0.11
166	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Door	Wood	D	White	NEGATIVE	Poor	0.01	mg/cm ²	1	0.03
167	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Door Trim	Wood	D	White	POSITIVE	Poor	4.5	mg/cm ²	1	3.3
168	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Column	Wood	D	White	NEGATIVE	Poor	0	mg/cm ²	1	0.02
169	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Ceiling	Wood	D	White	NEGATIVE	Fair	0.5	mg/cm ²	1	0.4
170	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Ceiling	Wood	D	White	NEGATIVE	Fair	0.5	mg/cm ²	1	0.4
171	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Door	Wood	D	White	NEGATIVE	Fair	0.04	mg/cm ²	1	0.12
172	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 1	1st	EXTERIOR	Wall	Concrete	D	Green	NEGATIVE	Intact	0.01	mg/cm ²	1	0.03
173	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Siding	Wood	D	Gray	NEGATIVE	Fair	0.08	mg/cm ²	1	0.27
174	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Siding	Wood	Α	Gray	NEGATIVE	Fair	0.09	mg/cm ²	1	0.3
175	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Window	Wood	Α	White	POSITIVE	Intact	3.4	mg/cm ²	1	2.3
176	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Window Sill	Wood	Α	White	POSITIVE	Intact	5.9	mg/cm ²	1	4.4
177	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Door	Wood	Α	White	NEGATIVE	Poor	0	mg/cm ²	1	0.02
178	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Door Trim	Wood	Α	White	NEGATIVE	Poor	0	mg/cm ²	1	0.02
179	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Column	Wood	Α	White	NEGATIVE	Intact	0	mg/cm ²	1	0.02
180	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Corridor Ceiling	Wood	Α	White	POSITIVE	Intact	1.9	mg/cm ²	1	0.9
181	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Corridor Ceiling	Wood	Α	White	POSITIVE	Intact	2.2	mg/cm ²	1	1.2
182	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Siding	Wood	В	Gray	NEGATIVE	Intact	0.03	mg/cm ²	1	0.1
183	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Door	Wood	В	White	NEGATIVE	Fair	0.04	mg/cm ²	1	0.16
184	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Door Trim	Wood	В	White	POSITIVE	Fair	3.3	mg/cm ²	1	1.9
185	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Siding	Wood	С	Gray	NEGATIVE	Poor	0.3	mg/cm ²	1	0.53
186	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Downspout	Metal	С	Gray	NEGATIVE	Intact	0	mg/cm ²	1	0.02
187	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Gutter	Metal	С	White	NEGATIVE	Intact	0	mg/cm ²	1	0.02
188	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Door	Wood	С	White	NEGATIVE	Fair	0.04	mg/cm ²	1	0.08

READING NO	SITE	STRUCTURE	FLOOR	ROOM	COMPONENT	SUBSTRATE	SIDE	COLOR	RESULTS	CONDITION	PbC UNITS	ACTION LEVEL	PbC Error
189	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 2	1st	EXTERIOR	Siding	Wood	С	Gray	NEGATIVE	Fair	0 mg/cm ²	1	0.02
190	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Wall	Concrete	Α	Gray	NEGATIVE	Poor	0 mg/cm ²	1	0.02
191	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Fascia	Wood	Α	Gray	NEGATIVE	Intact	0 mg/cm ²	1	0.02
192	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Siding	Wood	Α	Gray	NEGATIVE	Intact	0 mg/cm ²	1	0.02
193	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Door Trim	Wood	Α	White	NEGATIVE	Poor	0 mg/cm ²	1	0.02
194	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Door	Metal	Α	White	NEGATIVE	Poor	0 mg/cm ²	1	0.02
195	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Garage Door	Metal	Α	White	NEGATIVE	Fair	0 mg/cm ²	1	0.02
196	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Downspout	Metal	Α	Gray	NEGATIVE	Fair	0 mg/cm ²	1	0.02
197	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Gutter	Metal	Α	White	NEGATIVE	Intact	0 mg/cm ²	1	0.02
198	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Roof/Siding	Metal	В	SILVER	POSITIVE	Poor	1.3 mg/cm ²	1	0.2
199	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Door	Wood	В	White	NEGATIVE	Intact	0 mg/cm ²	1	0.02
200	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Door Trim	Wood	В	White	POSITIVE	Intact	1.2 mg/cm ²	1	0.2
201	NULL SAMPLE												
202	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Ceiling	Wood	В	White	NEGATIVE	Intact	0.9 mg/cm ²	1	0.1
203	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Siding	Wood	С	Gray	NEGATIVE	Poor	0.23 mg/cm ²	1	0.23
204	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 3	1st	EXTERIOR	Roof/'Siding	Metal	D	SILVER	POSITIVE	Poor	1.7 mg/cm ²	1	0.7
205	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Siding	Metal	В	White	NEGATIVE	Fair	0 mg/cm ²	1	0.03
206	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Downspout	Metal	В	White	NEGATIVE	Fair	0.01 mg/cm ²	1	0.06
207	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Gutter	Metal	В	White	NEGATIVE	Fair	<lod cm<sup="" mg="">2</lod>	1	0
208	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Siding	Metal	С	White	NEGATIVE	Fair	0 mg/cm ²	1	0.02
209	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Siding	Metal	D	White	NEGATIVE	Fair	0 mg/cm ²	1	0.03
210	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Garage Door	Metal	D	White	NEGATIVE	Fair	0 mg/cm ²	1	0.02
211	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Fascia	Wood	D	White	NEGATIVE	Poor	0 mg/cm ²	1	0.03
212	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Door	Wood	D	White	NEGATIVE	Poor	0.03 mg/cm ²	1	0.07
213	635-655 MANZANITA AVE, MANZANITA, OR	BLDG 4	1st	EXTERIOR	Door Trim	Wood	D	White	NEGATIVE	Poor	0.01 mg/cm ²	1	0.03
214	CALIBRATION								NULL		1.1 mg/cm ²	1	1.4
215	CALIBRATION								POSITIVE		1.1 mg/cm ²	1	0.1
216	CALIBRATION								POSITIVE		1.1 mg/cm ²	1	0.1
217	CALIBRATION								POSITIVE		1 mg/cm ²	1	0.1
218	CALIBRATION								POSITIVE		1.1 mg/cm ²	1	0.1

Appendix E:

XRF Performance Characteristic Sheets

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004 EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC
Tested Model: XLp 300
Source: 109Cd

Note: This PCS is also applicable to the equivalent model variations indicated

below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and

XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A. XLp 300A, XLp 301A, XLp 302A and XLp 303A. XLi 700A, XLi 701A, XLi 702A and XLi 703A. XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is <u>not</u> needed for: Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm²)
Results not corrected for substrate bias on any	Brick	1.0
substrate	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)								
	All Data			Median for laboratory-measured lead levels (mg/cm²)				
Substrate	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 <u><</u> Pb<1.0	1.0 <u><</u> Pb		
Wood Drywall	4	11	19	11	15	11		
Metal	4	12	18	9	12	14		
Brick Concrete Plaster	8	16	22	15	18	16		

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

Testing Protocol

Testing was conducted in accordance with Chapter 7 of the <u>Guidelines for the Evaluation and Control of Lead-Based Paint (LBP) Hazards in Housing</u> as published by HUD in October 1997. Exterior and interior XRF readings were taken on representative painted surfaces on each building component in each room equivalent, per the limited scope of work. The EPA and HUD definition of LBP is lead equal to or greater than 1.0 mg/cm². All XRF readings below the regulatory threshold are considered negative and all readings at and above this level are considered positive. Since readings below 1.0 mg/cm² can still pose health hazards, they are shown as <1%.

When establishing a sampling strategy, the following is used as a reference:

A "room" is an identifiable part of a residence, such as a room, foyer, staircase, hallway, or a house exterior or other exterior area. Exterior areas contain items such as play areas, painted swing sets, painted sandboxes, etc. Small closets or other similar areas adjoining rooms should not be considered as separate room equivalents unless they are obviously dissimilar from the adjoining room equivalent. However, walk-in closets should be considered as separate room equivalents.

Each room equivalent is made up of "components". Components may be located inside or outside a building. For example, components in a room could be its ceiling, floor, walls, a door and its casing, the window sash, and window casings. The substrate is the material underneath the paint of a component. Although many different substrates exist, HUD guidelines recommend classifying substrates into one of six types: (1) brick; (2) concrete; (3) drywall; (4) metal, (5) plaster; and (6) wood. If the true substrate under investigation is not one of the aforementioned types, HUD guidelines mandate the inspector/risk assessor to select the substrate type that most closely resembles one of the six defined substrate types. For substrates that are layered, such as plaster on concrete, the substrate directly beneath the painted surface is identified during a LBP inspection. A "testing combination" is characterized by the room equivalent, component, and substrate. Visible color may not be an accurate predictor of painting history and is not included in the definition of a testing combination. Components that are coated with paint, varnish, shellac, wallpaper, stain, or other coating should be considered as separate testing combinations. Certain building components that are adjacent to each other and not likely to have different painting histories can be grouped together into a single testing combination as follows:

- Window casings, stops, jambs, and aprons
- Interior window mullions and window sashes
- Interior window components may not be grouped with exterior window components
- Exterior window mullions and window sashes
- Door jambs, stops, transoms, casings, and other door parts
- Door stiles, rails, panels, mullions, and other door parts
- Baseboards and associated trim (such as quarter-round or other caps)
- Painted electrical sockets, switches, or plates can be grouped with the walls.

The "test location" is a specific area on a testing combination where the XRF was used to test for LBP.

De minimis levels for deteriorated LBP are defined follows: (1) For a component with a small surface area, such as window sills, or baseboards, 10% of the surface area; (2) For an interior component with a large surface area, such as an interior wall, 2 square feet of the surface area; and (3) For an exterior component with a large surface area, 20 square feet of the surface area.

According to the HUD guidelines, a lead reading by XRF of 1.0 mg/cm² or above is considered positive for the presence of LBP. An XRF reading below 1.0 mg/cm² is considered negative; however, a reading below 1.0 mg/cm² could still be harmful if proper precautions are not taken during activities that disturb

Testing Protocol

these paint films. If there are any inconclusive readings, a paint-chip sample may be collected for laboratory analysis. Laboratory analysis of samples collected will only be performed by an EPA approved National Lead Laboratory Accreditation Program (NLLAP) laboratory. There is no inconclusive range for laboratory measurements/results.

Only painted, stained, or varnished components of a dwelling are tested during a LBP evaluation. Wall "A" or "1" in each room is the wall where the front entrance door opening is located (or aligned with street). Going clockwise and facing outward Wall "A" or "1", Wall "B" or "2" will always be to your right, Wall "C" or "3" directly to the rear and Wall "D" or "4" to the left. Doors, windows and closets are designated as left, center or right depending on their location on the wall. When more than one window/door is on a wall, features are numbered left to right.

Assessment Logic

A LBP evaluation is performed by use of the following assessment logic. Any paint found to contain lead below the HUD standard of 1.0 mg/cm², regardless of condition, is not considered lead-based paint. Components having lead levels at or above the action level are visually assessed for condition and approximate surface area. The paint condition is placed into one of three categories using the risk assessor's professional judgment. These categories are: (1) intact (good), (2) fair and (3) deteriorated (poor), based on the HUD Guidelines for Evaluation and Control of LBP Hazards in Housing, Chapter 5: Risk Assessment [Table 5-3], June, 1995.

Categories of Paint Film Quality

	Total Area of Deteriorated Paint on Each Component				
Type of Building Component ¹	Intact	Fair ²	Poor ³		
Exterior components with large surface areas	Entire surface is intact	Less than or equal to 10 square feet	More than 10 square feet		
Interior components with large surface areas (walls, ceilings, floors, doors)	Entire surface is intact	Less than or equal to 10 square feet	More than 2 square feet		
Interior components with small surface areas (window sills, baseboards, soffits, trim)	Entire surface is intact	Less than or equal to 10 percent of the total surface area of the component	More than 10 percent of the total square		

Building component¹ in this table refers to each individual component or side of building, not the combined surface area of all similar components in a room (e.g., a wall with 1 square foot of deteriorated paint is in "fair" condition, even if the other three walls in a room are intact).

Fair² - Surfaces in "fair" condition should be repaired and/or monitored, but are not considered to be "lead-based paint hazards" as defined in Title X.

Poor³ - Surfaces in "poor" condition are considered to be "lead-based paint hazards" as defined in Title X and should be addressed through abatement or interim controls.

Appendix F:

Resources

National

EPA - Mold Remediation in Schools and Commercial Buildings

ACGIH - Bioaerosols: Assessment and Control

NYC Department of Health and Mental Hygiene - Guidelines on Assessment and Remediation of Fungi in Indoor Environments

Indoor Air Quality Association - ANSI/IICRC S520 Standard and Reference Guide for Professional Mold Remediation

NIOSH/CDC - ALERT: Preventing Occupational Respiratory Disease From Exposures Caused by Dampness in Office Buildings, Schools, and Other Nonindustrial Buildings

International

WHO - Guidelines for Indoor Air Quality: Dampness and Mould Certifications & Accreditation

Appendix G:

Certifications/Accreditations/Licenses

000578 DKI CONSULTANTS LLC 16869 SW 65TH AVE 15 LAKE OSWEGO OR 97035

CONSTRUCTION CONTRACTORS BOARD LEAD-BASED PAINT

LICENSE NUMBER: LBPI-223539

EXPIRATION DATE: 11/16/2022

ENTITY TYPE: Limited Liability

CONSTRUCTION CONTRACTORS BOARD LEAD-BASED PAINT

DKI CONSULTANTS LLC

16869 SW 65TH AVE 15

LAKE OSWEGO OR 97035



fold and detach along perforation



STATE OF OREGON CONSTRUCTION CONTRACTORS BOARD LEAD-BASED PAINT CERTIFICATE

This document certifies that:

DKI CONSULTANTS LLC 16869 SW 65TH AVE 15 LAKE OSWEGO OR 97035

is licensed in accordance with Oregon Law as Lead Inspection Contractor

LICENSE NUMBER: LBPI-223539

EXPIRATION DATE: 11/16/2022

ENTITY TYPE: Limited Liability Company

State of Oregon Oregon Health Authority

DKI Consultants, LLC dba G2 Consultants

is certified by the Oregon Health Authority to conduct Lead-Based Paint Activities

Certification Number:

1844--LBP FIRM

Issuance Date:

7/1/2020

Date of Expiration:

7/1/2023





THIS IS TO CERTIFY THAT

NOAL KRAFT

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE for ONLINE AHERA ASBESTOS INSPECTOR REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 09/10/2021

Course Location:

/10/2021 PBS

Certificate: IRO-21-1561A

CCB #SRA0615 4-Hr Training

4-Hour Online AHERA Inspector Refresher Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

Expiration Date: 09/10/2022

For verification of the authenticity of this certificate contact:

PBS Engineering and Environmental Inc.
4412 S Corbett Avenue

Portland, Oregon 97239
503.248.1939

Andy Fridley, Instructor

andew Fielly

State of Oregon Oregon Health Authority

Noal C. Kraft

is certified by the Oregon Health Authority to conduct Lead-Based Paint Activities

Risk Assessor

Certification Number:

1842--Indv--R

Issuance Date:

7/30/2020

Expiration Date:

7/30/2023





NOAL CHRISTOPHER KRAFT 16869 SW 65TH AVE #15 LAKE OSWEGO OR 97035

CONSTRUCTION CONTRACTORS BOARD LEAD-BASED PAINT

LIĆENSE NUMBER: 9151842-RA

EXPIRATION DATE: 07/24/2023

ENTITY TYPE: N/A

CONSTRUCTION CONTRACTORS BOARD LEAD-BASED PAINT

NOAL CHRISTOPHER KRAFT

16869 SW 65TH AVE #15

LAKE OSWEGO OR 97035



fold and detach along perforation



STATE OF OREGON CONSTRUCTION CONTRACTORS BOARD LEAD-BASED PAINT CERTIFICATE

This document certifies that:

NOAL CHRISTOPHER KRAFT 16869 SW 65TH AVE #15 LAKE OSWEGO OR 97035

is licensed in accordance with Oregon Law as Lead Risk Assessor Contractor LICENSE NUMBER: 9151842-RA

EXPIRATION DATE: 07/24/2023

ENTITY TYPE: N/A