

SUPPLEMENTAL HAZARDOUS MATERIALS SURVEY REPORT

Arts & Communication Magnet Academy

**11375 SW Center Street
Beaverton, OR 97005**

Prepared for:

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Inspection Date: December 21, 2017 – January 11, 2018 & January 2-9, 2019
Report Prepared: January 23, 2019

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EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) was contracted by the Beaverton School District to conduct a supplemental hazardous materials survey, including collection of bulk samples, laboratory analysis, and preparation of a report for the Arts & Communication Magnet Academy located at 11375 SW Center Street in Beaverton, Oregon 97005. The survey was conducted due to the District's future planned demolition of the building. Mr. Ed Gay and Mr. Jason Stone, AHERA accredited building inspectors, performed the survey between December 21st and January 11th, 2017. The survey activities included the review of prior sampling documentation and reports provided by the District, inspection and assessment of accessible suspect building materials, collection of bulk samples of suspect asbestos containing building materials that had previously not be sampled, and submission of bulk samples for laboratory analysis. In addition to the bulk sampling of suspect asbestos containing building materials, representative paint chip samples were collected throughout the building to determine the presence of lead. TRC also conducted a visual inspection for other suspect hazardous materials such as polychlorinated biphenyl containing materials (PCBs) as well as mercury containing thermostats and light tubes.

ASBESTOS MATERIAL SUMMARY

Suspect asbestos containing building materials were sampled and submitted under the chain-of-custody (COC) protocol to an accredited laboratory for polarized light microscopy (PLM) bulk sample analysis. Inspection, sampling and analytical procedures were performed in general accordance with the U.S. Environmental Protection Agency's (EPA's) National Emission Standards for Hazardous Air Pollutants (NESHAP) EPA 40 CFR 61 Subpart M, the EPA Asbestos Hazard Emergency Response Act (AHERA) 40 CFR Part 763, and Federal Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 guidelines.

The following materials sampled during this investigation and prior investigations were identified as asbestos containing materials:

- Black Mastic associated with non-ACM 12" x 12" Blue Floor Tile
- 9" x 9" Floor Tile (Various Colors) and Associated Black Mastic
- White Thermal Pipe Insulation
- Black Sink Undercoating
- Corrugated (Aircell) Pipe Insulation
- Black Paper Beneath Wood Floors in Library (PACM)
- Floor Tile and Associated Mastic Beneath Wood Floors in Dance Rooms #156 & #158
- Window Glazing throughout the Window System

Additionally, any materials uncovered during demolition activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

LEAD PAINT MATERIAL SUMMARY

Lead-based paint (LBP) is defined by the United States Department of House and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one mg/cm² or more of lead or 0.5% by weight (5,000 micrograms per gram [µg/g] or 5,000 parts of lead per

million [ppm]). The United States' Consumer Product Safety Commission (CPSC) banned lead paint in 1977 in residential properties and public buildings (16 Code of Federal Regulations 1303). According the Oregon Occupational Safety and Health Division's (OR OSHA) Program Directive, Lead: Exposure in Construction, "For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than 0.5% by weight, but greater than the laboratory detection limit is considered to be a lead-containing paint.

Five of the seven paint chip samples collected in conjunction with this survey contained lead in concentrations above the laboratory reporting limits.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints.

POLYCHLORINATED BIPHENYL (PCB) MATERIAL SUMMARY

Polychlorinated Biphenyls (PCBs) are commonly found in fluorescent light ballasts as well as caulking and glazings in construction. No sampling was conducted for PCBs during this investigation; however, these materials should be assumed to contain PCBs and treated as such during the demolition/renovation activities. Typically, all newer light ballasts may say "no-PCB" on the label and thus would not need to be disposed of as PCB containing waste.

Based on applicable federal and state regulations, all PCB-containing or assumed PCB-containing light ballast and other materials must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle PCB-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

MERCURY CONTAINING MATERIAL SUMMARY

Mercury is commonly found in fluorescent light tubes as well as in older wall mounted thermostats. No sampling was conducted for mercury during this investigation; however, these materials should be assumed to contain mercury and treated as such during the demolition/renovation activities. TRC did not observe any suspect mercury containing thermostats, as they all appear to be of newer vintage. However, it is possible for mercury containing thermostats to be located in the building.

Based on applicable federal and state regulations, all mercury-containing or assumed mercury-containing fluorescent light tubes and thermostats must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle mercury-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

INTRODUCTION

A supplemental hazardous materials survey was conducted by TRC at Arts & Communication Magnet Academy, located at 11375 SW Center Street in Beaverton, Oregon. It was reported by the client that this limited asbestos survey is being conducted in conjunction with their renovation project. The survey activities were performed between December 21st and January 11th, 2018, as well as between January 2nd and January 9th, 2019 and included the review of prior sampling documentation and reports as well as the inspection, assessment and bulk sampling of suspect asbestos containing building materials that had not previously been sampled. Sample locations are presented on the Sample Location Diagram in Appendix A.

Mr. Ed Gay and Mr. Jason Stone, AHERA accredited building inspectors, conducted the asbestos survey inspection and sampling activities. Copies of training certificates and state licenses (where applicable) are presented in Appendix C, Inspector Certifications.

BACKGROUND

Asbestos Containing Materials

The United States Environmental Protection Agency (EPA) define an asbestos-containing material (ACM) as any material containing more than one percent (>1.0%) asbestos by weight. In addition, ACMs are designated as:

Friable asbestos - material which can be crumbled, pulverized or reduced to powder by hand pressure, a.k.a. Regulated Asbestos Containing Materials (RACM).

Category I Non-friable - includes resilient floor coverings, asphalt roofing products, gaskets and packing.

Category II Non-friable - any non-friable ACM that is not in Category I (i.e. Asbestos-cement (Transite) siding or roofing material).

OSHA Regulated Materials

The Occupational Safety and Health Administration (OSHA) regulates all materials containing any detectable level of asbestos by weight, including those materials containing 1.0% or less.

Asbestos Sampling and Analytical Procedures

Representative bulk samples of suspect asbestos-containing building materials were randomly collected from the interior of the building. Homogenous material determination was based on the following criteria:

- Similar physical characteristics (same color and texture, etc.),
- Application (sprayed or trowel-on, assembly into a system, etc.),
- Material function (thermal insulation, floor tile, wallboard system, etc.).

The bulk samples were collected, labeled, and shipped to the certified analytical laboratory under proper COC documentation, and condition and approximate quantity assessments were performed by the accredited inspector during the inspection. Laboratory services were provided by TRC Environmental Laboratory, in Windsor, Connecticut, as well as EMC in Phoenix, AZ, both are National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratories (NVLAP code #101424-0 and #101926-0).

Bulk samples were analyzed by PLM utilizing the EPA's Test Methods: Methods for the Determination of Asbestos in Bulk Building Materials (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's The Asbestos Particle Atlas as method references.

Analysis by PLM was performed by visual observation of the bulk sample and slides prepared of the bulk sample for microscopic examination and identification. The samples were analyzed for asbestos (Chrysotile, Amosite, Crocidolite, Anthophyllite, and Actinolite/Tremolite), fibrous non-asbestos constituents (mineral wool, cellulose, etc.) and non-fibrous constituents. Using a stereoscope, the microscopist visually estimates the relative amounts of each constituent by determining the estimated area of the asbestos compared with the area estimate of the total sample.

Lead-based and Lead-containing Paints

Lead-based paint (LBP) is defined by the United States Department of House and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one mg/cm² or more of lead or 0.5% by weight (5,000 micrograms per gram [µg/g] or 5,000 parts of lead per million [ppm]).

According the Occupational Safety and Health Division's (OSHA) Program Directive, Lead: Exposure in Construction, "For all occupational exposure to lead occurring in the course of construction work, the standard (1926.62) does not specify a minimum amount or concentration of lead that triggers a determination that lead is present and the potential for occupational exposure exists. Therefore any paint containing less than 0.5% by weight, but greater than the laboratory detection limit is considered to be a lead-containing paint.

Laboratory services were provided by International Asbestos Testing Laboratories (IATL), in Mount Laurel, New Jersey, a National Lead Laboratory Accreditation Program (NLLAP) certified laboratory (NVLAP code #100188). Paint Chip samples were analyzed by EPA Method 7420.

ASBESTOS FINDINGS & RECOMMENDATIONS

The following table presents the location and quantities of each suspect building material identified and sampled during this survey as well as all applicable analytical results:

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
ACMA-01A ACMA-01B ACMA-01C	12" x 12" Ceiling Tile (Slotted)	East Entry Hall East Corridor Upper Hall	ND	NA
ACMA-02A ACMA-02B ACMA-02C	12" x 12" Ceiling Tile (Pinholes)	Room 158	ND	NA
ACMA-03A ACMA-03B	2' x 2' Ceiling Tile (Fissures)	Office in Room 136	ND	NA
ACMA-04A ACMA-04B	2' x 4' Ceiling Tile (Fissures)	Office in Room 130	ND	NA
ACMA-05A ACMA-05B ACMA-05C ACMA-05D	12" x 12" Ceiling Tile (Fissures) with Associated Mastic	Main Entry South Computer Room	CT – ND Mastic – ND	NA

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
ACMA-06A ACMA-06B ACMA-06C ACMA-06D	2' x 4' Ceiling Tile (Fissures)	Library Office Library Station Library Hall Downstairs	ND	NA
ACMA-07A ACMA-07B ACMA-07C	Exterior Window Caulk	NE Exterior South Center Exterior SW Exterior	ND	NA
ACMA-08A ACMA-08B ACMA-08C	Purple Sheet Vinyl Flooring (Pebble Pattern)	Principal's Restroom	ND	NA
ACMA-09A ACMA-09B ACMA-09C	Off-White Compound Beneath Carpet	Office	ND	NA
ACMA-10A ACMA-10B ACMA-10C ACMA-10D ACMA-10E	Off-White 12" x 12" Floor Tile & Associated Glue	N. End (Upper Hall) Room 152 W. End (Main Hall) Room 140 Room 134	Tile – ND Glue – ND	NA
ACMA-11A ACMA-11B ACMA-11C ACMA-11D ACMA-11E ACMA-11F ACMA-11G ACMA-11H ACMA-11I	9" x 9" Floor Tile (Various Colors) & Associated Mastic	Throughout	Tile – 10% Chrysotile Mastic – 5% Chrysotile	8,000 SF
ACMA-12A ACMA-12B ACMA-12C	Red Ceramic Tile Grout/Glue	Boys' Restroom (Main Hall) Girls' Restroom (East Corridor)	ND	NA
ACMA-13A ACMA-13B ACMA-13C	White & Gray Ceramic Tile Grout/Glue	Boys' Restroom (Main Hall) Girls' Restroom (East Corridor)	ND	NA
ACMA-14A ACMA-14B ACMA-14C	Brown & Gray 12" x 12" Textured Floor Tile & Associated Glue	East Corridor (Between A150 & A148)	Tile – ND Glue – ND	NA
ACMA-15A ACMA-15B ACMA-15C	Gray 12" x 12" Floor Tile & Associated Glue	A116 A128	Tile – ND Glue – ND	N/A
ACMA-16A ACMA-16B ACMA-16C	Black Fiber Panels	Library	ND	N/A
ACMA-17A ACMA-17B ACMA-17C	Brown 18" x 18" Pirell Floor Tile & Associated Mastic	Stairs From Library to Counseling	Tread – ND Mastic – ND	N/A
ACMA-18A ACMA-18B ACMA-18C	Beige/Brown 12" x 12" Floor Tile & Mastic	Counseling	Tile – ND Mastic – ND	N/A

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
ACMA-19A ACMA-19B ACMA-19C	Dark Brown 12" x 12" Floor Tile & Mastic	Counseling Lunch Room Hall by Xerox Hall by Restroom	Tile – ND Mastic – ND	N/A
ACMA-20A ACMA-20B	Gold/Gray Swirl Sheet Vinyl Flooring	Small Bath	ND	N/A
ACMA-21A ACMA-21B	12" x 12" Blue Floor Tile & Associated Mastic	Food Court	Tile – ND Mastic – 3% Chrysotile	3,850 SF
ACMA-22A ACMA-22B	Beige 12" x 12" Floor Tile & Associated Mastic	Small Room Behind Galley	Tile – ND Mastic – ND	N/A
ACMA-23A ACMA-23B ACMA-23C	Carpet Mastic with Tile Beneath Carpet & Associated Mastic	Room 136 Room 130	Mastic - ND Tile – ND Mastic – ND	N/A
ACMA-24A ACMA-24B	Cream 12" x 12" Floor Tile & Associated Mastic	Room LL102 Small Room	Tile – ND Mastic – ND Tile – ND Mastic – ND	N/A
ACMA-25A ACMA-25B ACMA-25C ACMA-25D	4" Light Brown Covebase & Mastic	Room LL102 Room LL103 Lower Lever by Lunch Room	Covebase – ND Mastic – ND	N/A
ACMA-26A ACMA-26A	Tile & Associated Mastic Under Carpet	Lower Level Counseling Near Room LL103	Tile – ND Mastic – ND	N/A
ACMA-27A ACMA-27B ACMA-27C ACMA-27D ACMA-27E	4" Black Covebase & Associated Mastic	Library Main Floor By Room 102 By Student Store Room 134 Room 136	Covebase – ND Mastic – ND	N/A
ACMA-28A Through ACMA-28V	Gypsum Board & Joint Compound and Plaster Systems	Walls/Ceilings Throughout	GB & JC – ND Plaster – ND	N/A
ACMA-29A ACMA-29B ACMA-29C	Pipe Insulation and Hard Fittings	Throughout (Tunnels, Wall & Ceiling Cavities)	20% Chrysotile & 20 % Amosite	3,600 LF
ACMA-30A ACMA-30B ACMA-30C	Concrete	Boiler Room	ND	N/A
ACMA-31A ACMA-31B ACMA-31C ACMA-31D ACMA-31E ACMA-31F	Exterior Stucco	Throughout	ND	N/A
ACMA-32A ACMA-32B ACMA-32C	Black Work Tops	Room 128	ND	N/A
ACMA-33A ACMA-33B ACMA-33C	Black Sink Undercoating Insulation	Various Rooms Throughout	3% Chrysotile	10 Sinks

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
ACMA-34A ACMA-34B ACMA-34C	Corrugated Pipe Insulation	Throughout (Tunnels, Wall & Ceiling Cavities)	70% Chrysotile	3,600 LF
ACMA-35A ACMA-35B ACMA-35C	Pink 12" x 12" Floor Tile & Associated Glue	Staff Restroom	Tile – ND Mastic – ND	N/A
ACMA-36A ACMA-36B ACMA-36C	Carpet Glue	Room 130 Room 138 Room 132	ND	N/A
ACMA-37A ACMA-37B ACMA-37C	1'x1' Ceiling Tile Glue	Entry	ND	N/A
ACMA-38A ACMA-38B ACMA-38C	Fiber Board Vinyl Tape, & Contact Cement	South Hall East Hall to North East Hall to South	ND	N/A
ACMA-39A ACMA-39B ACMA-39C	Floor Tile and Black Mastic under Wood	Dance Studio	8% Chrysotile	1,800 SF
ACMA-40A ACMA-40B ACMA-40C	Univent Vinyl and Glue (Brown)	Dance Room, A136, A134	Vinyl – ND Glue – ND	N/A
ACMA-41A ACMA-41B ACMA-41C	Wood Panel Glue	Hallway	ND	N/A
ACMA-42A ACMA-42B ACMA-42C	White Sink Undercoating	A136, A134, A132	ND	N/A
ACMA-43A ACMA-43B ACMA-43C	Countertop Glue	A136, A134, A132	ND	N/A
ACMA-44A ACMA-44B ACMA-44C	Gypsum Board and Joint Compound	A136, A108, A104	G.B. – ND J.C. – ND	N/A
ACMA-45A ACMA-45B ACMA-45C	Univent Countertop and Glue (White)	A132, A130, A132	ND	N/A
ACMA-46A ACMA-46B ACMA-46C	Corkboard System	A140, A143, Hallway	ND	N/A
ACMA-47A ACMA-47B ACMA-47C	Gray Sink Undercoating	A142, A128, Library	ND	N/A
ACMA-48A ACMA-48B ACMA-48C	1' x 1' Nailed-on Ceiling Tile with Fissures	A128	ND	N/A
ACMA-49A ACMA-49B ACMA-49C	Brown/Black Floor Tile with Circles and Glue	Hallway	Tile – ND Glue – ND	N/A
ACMA-50A ACMA-50B ACMA-50C	Wall Plaster	A118, Breakroom	ND	N/A

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
ACMA-51A ACMA-51B ACMA-51C	Gray Pebble Vinyl Sheet Flooring and Glue	Staff Restroom	VSF – ND Glue – ND	N/A
ACMA-52A ACMA-52B ACMA-52C	Window Glazing	Throughout	2% Chrysotile	4,600 LF
ACMA-53A ACMA-53B ACMA-53C	Black Vapor Barrier	Roof Hatch	ND	N/A
ACMA-54A ACMA-54B ACMA-54C	Roof Mastic	Roof (Library)	ND	N/A
ACMA-55A ACMA-55B ACMA-55C	Sliver Paint	Roof (Library, Front Entry, A146)	ND	N/A
ACMA-56A ACMA-56B ACMA-56C	3-Tab Roofing	Roof - Cafeteria	ND	N/A
ACMA-57A ACMA-57B ACMA-57C	Wall Panel Glue	Lower Level Restroom	ND	N/A
ACMA-58A ACMA-58B ACMA-58C	Built-up Roofing	Roof (A136, A130, A146)	ND	N/A
ACMA-59A ACMA-59B ACMA-59C	Built-up Roofing	Roof (A148, A116, A156)	ND	N/A
ACMA-60A ACMA-60B ACMA-60C	Built-up Roofing	Roof (A108, Office, A102)	ND	N/A
ACMA-61A ACMA-61B ACMA-61C	Built-up Roofing	Roof (Library)	ND	N/A
ACMA-62A ACMA-62B ACMA-62C	Built-up Roofing	Roof (Breeze Way Entry, Storage 6)	ND	N/A
ACMA-63A ACMA-63B ACMA-63C	Built-up Roofing	Roof (Boiler)	ND	N/A
ACMA-64A ACMA-64B ACMA-64C	Built-up Roofing	Roof (Breeze Way)	ND	N/A
ACMA-65A ACMA-65B ACMA-65C	Built-up Roofing	Roof (Storage 9, Storage 9/10, Storage 10)	ND	N/A

ND = Non-detect

SF = Square feet

LF = Linear Feet

N/A = Not Applicable

Asbestos Containing Materials (ACMs)

Asbestos was detected in the following materials sampled during this and prior investigations:

Material	Approximate Location(s)	Approximate Quantity
9" x 9" Floor Tile (Various Colors) & Associated Mastic	Throughout	8,000 SF
Mastic Associated with 12" Blue Floor Tile	Food Court	3,850 SF
Pipe Insulation and Hard Fittings	Throughout (Tunnels, Wall & Ceiling Cavities)	3,600 LF
Black Sink Undercoating Insulation	Throughout	10 Sinks
Corrugated Pipe Insulation	Throughout (Tunnels, Wall & Ceiling Cavities)	3,600 LF
Floor Tile and Mastic under Wood Flooring	Dance Studio	1,800 SF
Window Glazing	Throughout	4,600 LF

Non-Detect Materials (ND)

Asbestos was not detected in the following materials sampled during this investigation:

Material	Location
12" x 12" Ceiling Tile (Slotted)	East Entry, Hall East Corridor, and Upper Hall
12" x 12" Ceiling Tile (Pinholes)	Room 158
2' x 2' Ceiling Tile (Fissures)	Office in Room 136
2' x 4' Ceiling Tile (Fissures)	Office in Room 130
12" x 12" Ceiling Tile (Fissures) with Associated Mastic	Main Entry South and Computer Room
2' x 4' Ceiling Tile (Fissures)	Library Office, Library Station, Library Hall, and Downstairs
Exterior Window Caulk	Throughout
Purple Sheet Vinyl Flooring (Pebble Pattern)	Principal's Restroom
Off-White Compound Beneath Carpet	Office
Off-White 12" x 12" Floor Tile & Associated Glue	N. End (Upper Hall), Room 152, W. End (Main Hall), Room 140, and Room 134
Red Ceramic Tile Grout/Glue	Boys' Restroom (Main Hall), and Girls' Restroom (East Corridor)
White & Gray Ceramic Tile Grout/Glue	Boys' Restroom (Main Hall), and Girls' Restroom (East Corridor)
Brown & Gray 12" x 12" Textured Floor Tile & Associated Glue	East Corridor (Between A150 & A148)
Gray 12" x 12" Floor Tile & Associated Glue	A116 and A128
Black Fiber Panels	Library
Brown 18" x 18" Pirell Floor Tile & Associated Mastic	Stairs From Library to Counseling
Beige/Brown 12" x 12" Floor Tile & Mastic	Counseling
Dark Brown 12" x 12" Floor Tile & Mastic	Counseling Lunch Room, Hall by Xerox, and Hall by Restroom
Gold/Gray Swirl Sheet Vinyl Flooring	Small Bath

Material	Location
12" x 12" Blue Floor Tile	Food Court
Beige 12" x 12" Floor Tile & Associated Mastic	Small Room Behind Galley
Carpet Mastic with Tile Beneath Carpet & Associated Mastic	Room 136 and Room 130
Cream 12" x 12" Floor Tile & Associated Mastic	Room LL102 and Small Room
4" Light Brown Covebase & Mastic	Room LL102, Room LL103, Room LL103, and Lower Level by Lunch Room
Tile & Associated Mastic Under Carpet	Lower Level Counseling and Near Room LL103
4" Black Covebase & Associated Mastic	Library Main Floor, By Room 102, By Student Store, Room 134, and Room 136
Gypsum Board & Joint Compound, Plaster, and Plaster Partition	Throughout
Concrete	Boiler Room
Exterior Stucco	Throughout
Black Work Tops	Room 128
Pink 12"x12" Floor Tile & Associated Glue	Staff Restroom
Carpet Glue	Room 130, Room 138 & Room 132
1'x1' Ceiling Tile Glue	Entry
Fiber Board Vinyl Tape, & Contact Cement	South Hall, East Hall to North and South
Univent Vinyl and Glue (Brown)	Throughout
Wood Panel Glue	Hallway
White Sink Undercoating	A136, A134, A132
Countertop Glue	Throughout
Gypsum Board and Joint Compound	A136, A108, A104
Univent Countertop and Glue (White)	Throughout
Corkboard System	Throughout
Gray Sink Undercoating	A142, A128, Library
1' x 1' Nailed-on Ceiling Tile with Fissures	A128
Brown/Black Floor Tile with Circles and Glue	Hallway
Wall Plaster	A118, Breakroom
Gray Pebble Vinyl Sheet Flooring and Glue	Staff Restroom
Black Vapor Barrier	Roof Hatch
Roof Mastic	Roof (Library)
Sliver Paint	Roof (Library, Front Entry, A146)
3-Tab Roofing	Roof - Cafeteria
Wall Panel Glue	Lower Level Restroom
Built-up Roofing	Roof (A136, A130, A146)
Built-up Roofing	Roof (A148, A116, A156)
Built-up Roofing	Roof (A108, Office, A102)
Built-up Roofing	Roof (Library)
Built-up Roofing	Roof (Breeze Way Entry, Storage 6)
Built-up Roofing	Roof (Boiler)
Built-up Roofing	Roof (Breeze Way)
Built-up Roofing	Roof (Storage 9, Storage 9/10, Storage 10)

Due to the Site being an occupied building at the time of the inspection and sampling, only limited destructive investigation for concealed materials was performed. Hidden building materials (e.g., old floor mastic patches hidden under carpeting, chalkboard mastic, mirror mastic, etc.), other than those discussed in this report, could be uncovered when removing building finishes during

demolition activities. Any materials encountered during the demolition activities that are not identified in this report, should either be presumed to be asbestos containing and handled as ACM or be sampled by an accredited asbestos inspector to determine if it contains asbestos.

LEAD PAINT FINDINGS & RECOMMENDATIONS

The following table presents the suspect paints identified and sampled during this survey as well as all applicable analytical results:

Sample Number	Paint Description	Lead Concentration (wt%)	HUD/OSHA Category
ACMA-Pb-01	White Interior Paint: Hallway Wall (Plaster)	<0.0093%	BRL
ACMA-Pb-02	Maroon Interior Paint: Interior Door Casing (Metal)	<0.20%	BRL
ACMA-Pb-03	White Exterior Paint: Wall (Concrete)	0.018%	LCP
ACMA-Pb-04	Black Exterior Paint: Door (Wood)	0.054%	LCP
ACMA-Pb-05	White Exterior Paint: Boiler Room Vent (Metal)	0.39%	LCP
ACMA-Pb-06	Red Exterior Paint: Handrail (Metal)	0.42%	LCP
ACMA-Pb-07	Light Blue Interior Paint: Room A158 Door (Wood)	0.020%	LCP

HUD/OSHA Categories: LBP = Lead Based Paint LCP = Lead Containing Paint BRL = Below Reporting Limit

Five of the seven paint chip samples collected in conjunction with this survey contained lead in concentrations above the laboratory reporting limits.

Based on applicable federal and state regulations, all identified and/or assumed lead-paints must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove, handle and dispose of lead paints which will not typically generate a large amount of additional cost above and beyond the general demolition activities.

PCB FINDINGS & RECOMMENDATIONS

Polychlorinated Biphenyls (PCBs) are commonly found in fluorescent light ballasts as well as caulking and glazing in construction. No sampling was conducted for PCBs during this investigation; however, these materials should be assumed to contain PCBs and treated as such during the demolition/renovation activities. Typically, all newer light ballasts may say “no-PCB” on the label and thus would not need to be disposed of as PCB containing waste.

Based on applicable federal and state regulations, all PCB-containing or assumed PCB-containing light ballast and other materials must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle PCB-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

MERCURY FINDINGS & RECOMMENDATIONS

Mercury is commonly found in fluorescent light tubes as well as in older wall mounted thermostats. No sampling was conducted for mercury during this investigation; however, these materials should be assumed to contain mercury and treated as such during the demolition/renovation activities. TRC did not observe any suspect mercury containing thermostats, as they all appear to be of newer vintage. However, it is possible for mercury containing thermostats to be located in the building. Based on applicable federal and state regulations, all mercury-containing or assumed mercury-containing fluorescent light tubes and thermostats must be handled and disposed of by trained personnel. In general, demolition contractors are trained to remove and handle mercury-containing materials which will not typically generate a large amount of additional cost above and beyond the general demolition activities. However; disposal/recycling is typically completed by an outside contractor.

RECOMMENDATIONS

All identified asbestos containing materials from this investigation and previous investigations must be removed by a licensed asbestos abatement contractor prior to any renovation or demolition activities. Additionally, any materials uncovered during renovation or demolition activities that are not addressed in this inspection report or prior reports for the building are considered presumed asbestos containing materials and must be sampled by an accredited asbestos inspector prior to disturbance, or they must be treated as asbestos containing.

All identified and/or assumed lead-paints, assumed PCB-containing equipment or materials and assumed mercury-containing equipment or materials should be removed, handled and/or disposed of in accordance with all applicable federal, state and local regulations.

DISCLAIMER

The content presented in this report is based on data collected during the site inspection and survey, review of pertinent regulations, requirements, guidelines and commonly followed industry standards, and information provided by the Beaverton School District, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. TRC believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties.

This survey report is designed to aid the property owner, architect, construction manager, general contractor, and abatement contractor in locating potential hazardous materials. This report is not intended for, and may not be utilized as, a bidding document or as an abatement project specification document.

If you have any questions, or need any further clarification regarding this report, please do not hesitate to contact Mr. Ron Landolt at (503) 407-0734.

Sincerely,
TRC Environmental Corporation



Jason Stone
Project Manager



Ron Landolt, CAC
NW Region BSI Practice Manager

Appendix A – Figure(s)

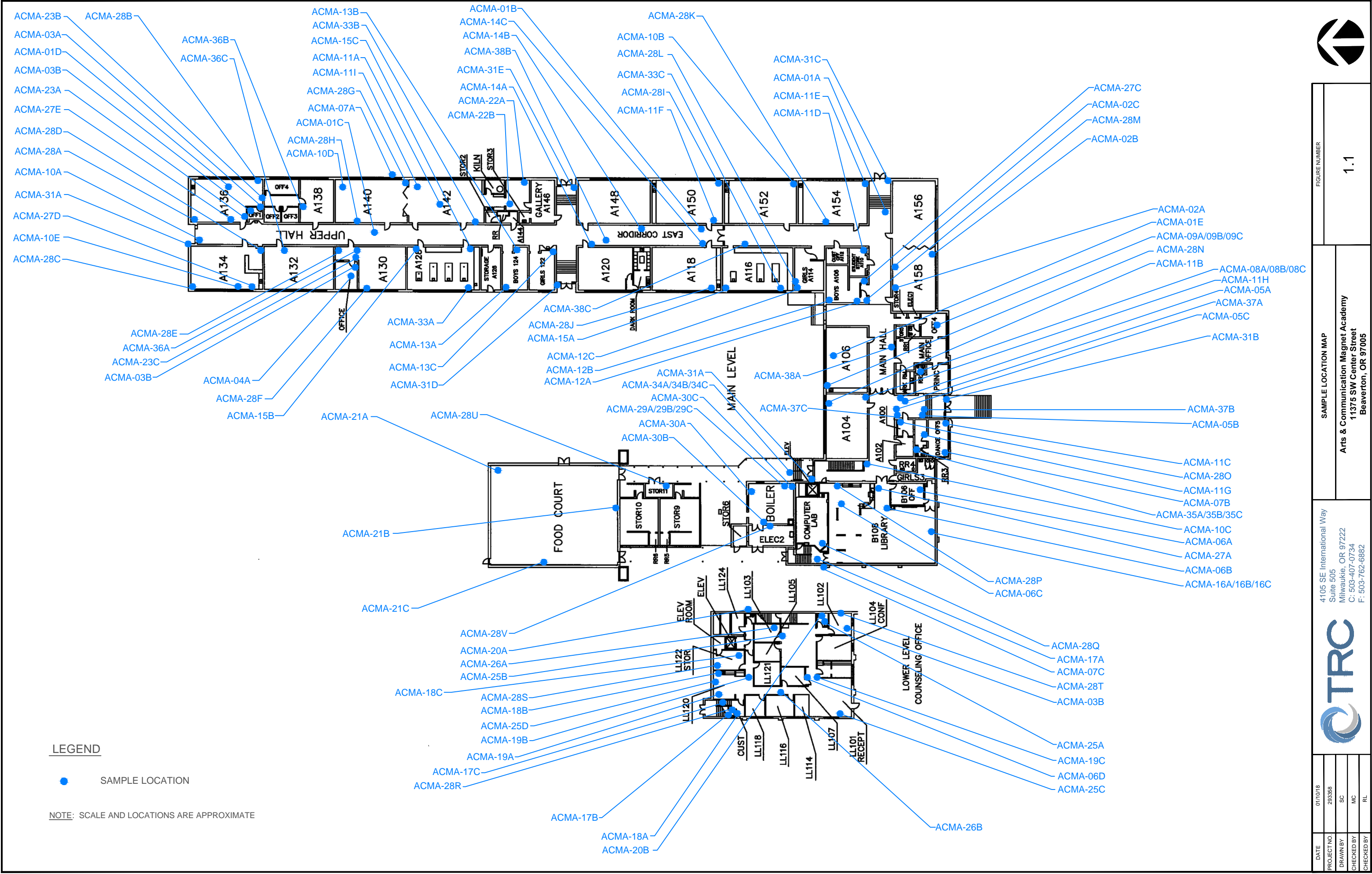


FIGURE NUMBER		1.1
SAMPLE LOCATION MAP		Arts & Communication Magnet Academy 11375 SW Center Street Beaverton, OR 97005
4105 SE International Way Suite 505 Milwaukie, OR 97222 C: 503-407-0734 F: 503-762-6882		
DATE	01/10/18	
PROJECT NO.	293358	
DRAWN BY	SC	
CHECKED BY	MC	
CHECKED BY	RL	

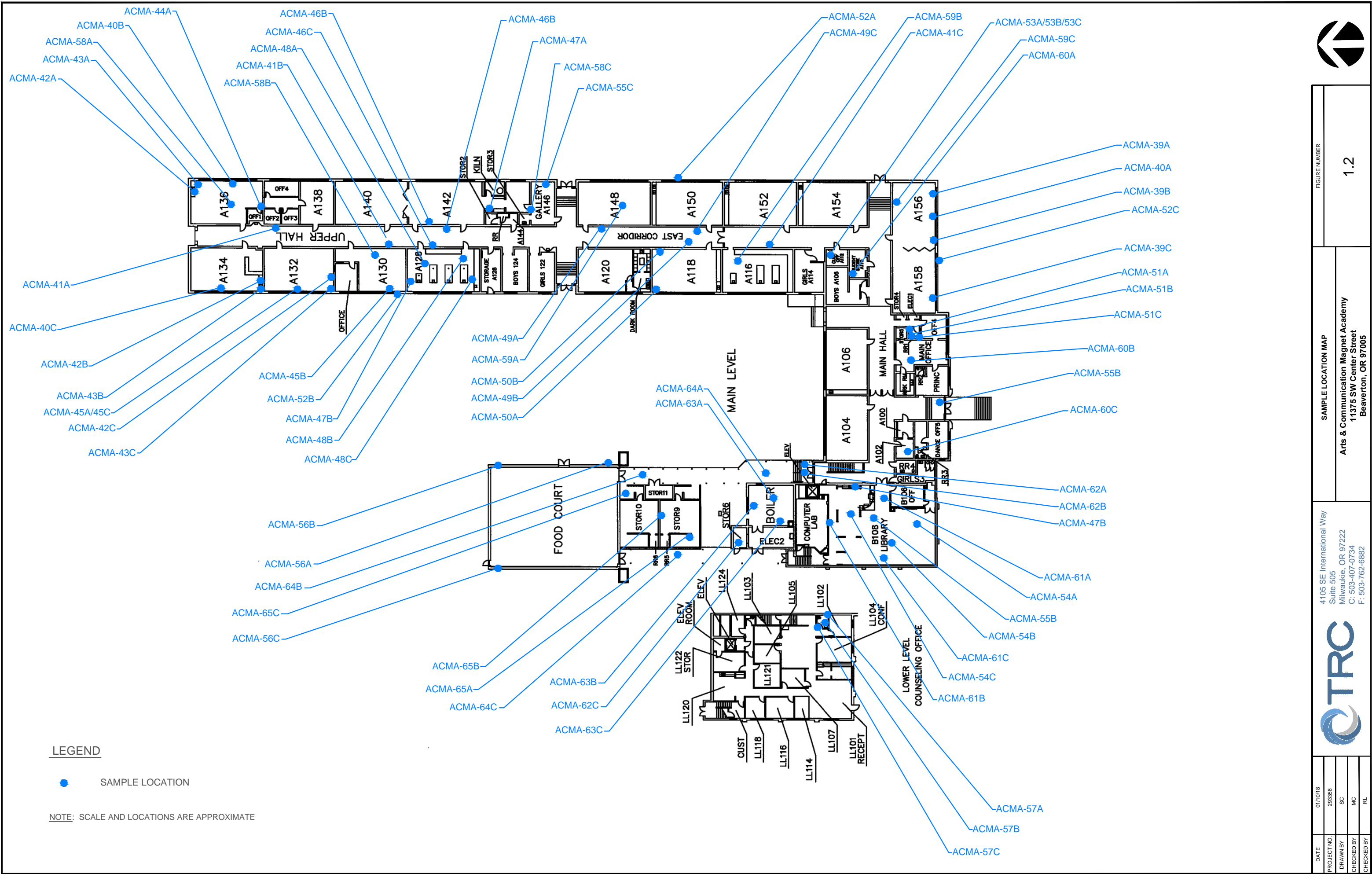


FIGURE NUMBER

1.2

SAMPLE LOCATION MAP

Arts & Communication Magnet Academy
11375 SW Center Street
Beaverton, OR 97005

4105 SE International Way
Suite 505
Milwaukie, OR 97222
C: 503-407-0734
F: 503-762-6882



DATE	PROJECT NO.	DRAWN BY	CHECKED BY	CHECKED BY
01/10/18	293358	SC	MC	RL



LEGEND

- ASBESTOS-CONTAINING 9" x 9" FLOOR TILE AND BLACK MASTIC
- ASBESTOS-CONTAINING MASTIC AND NON-ASBESTOS-CONTAINING BLUE 12" x 12" FLOOR TILE
- ASBESTOS-CONTAINING FLOOR TILE AND MASTIC UNDER WOOD FLOORING
- ASBESTOS-CONTAINING BLACK SINK UNDERCOATING
- ASSUMED ASBESTOS-CONTAINING MIRROR MASTIC
- ASSUMED ASBESTOS-CONTAINING FIRE DOORS

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE

DATE	01/10/18	ASBESTOS-CONTAINING MATERIALS LOCATION MAP	FIGURE NUMBER
PROJECT NO.	293356	Arts & Communication Magnet Academy	2.1
DRAWN BY	SC	11375 SW Center Street	
CHECKED BY	MC	Beaverton, OR 97005	
CHECKED BY	RL		



FIGURE NUMBER

2.2

ASBESTOS-CONTAINING MATERIALS LOCATION MAP




Arts & Communication Magnet Academy
11375 SW Center Street
Beaverton, OR 97005

4105 SE International Way
Suite 505
Milwaukie, OR 97222
C: 503-407-0734
F: 503-762-6882

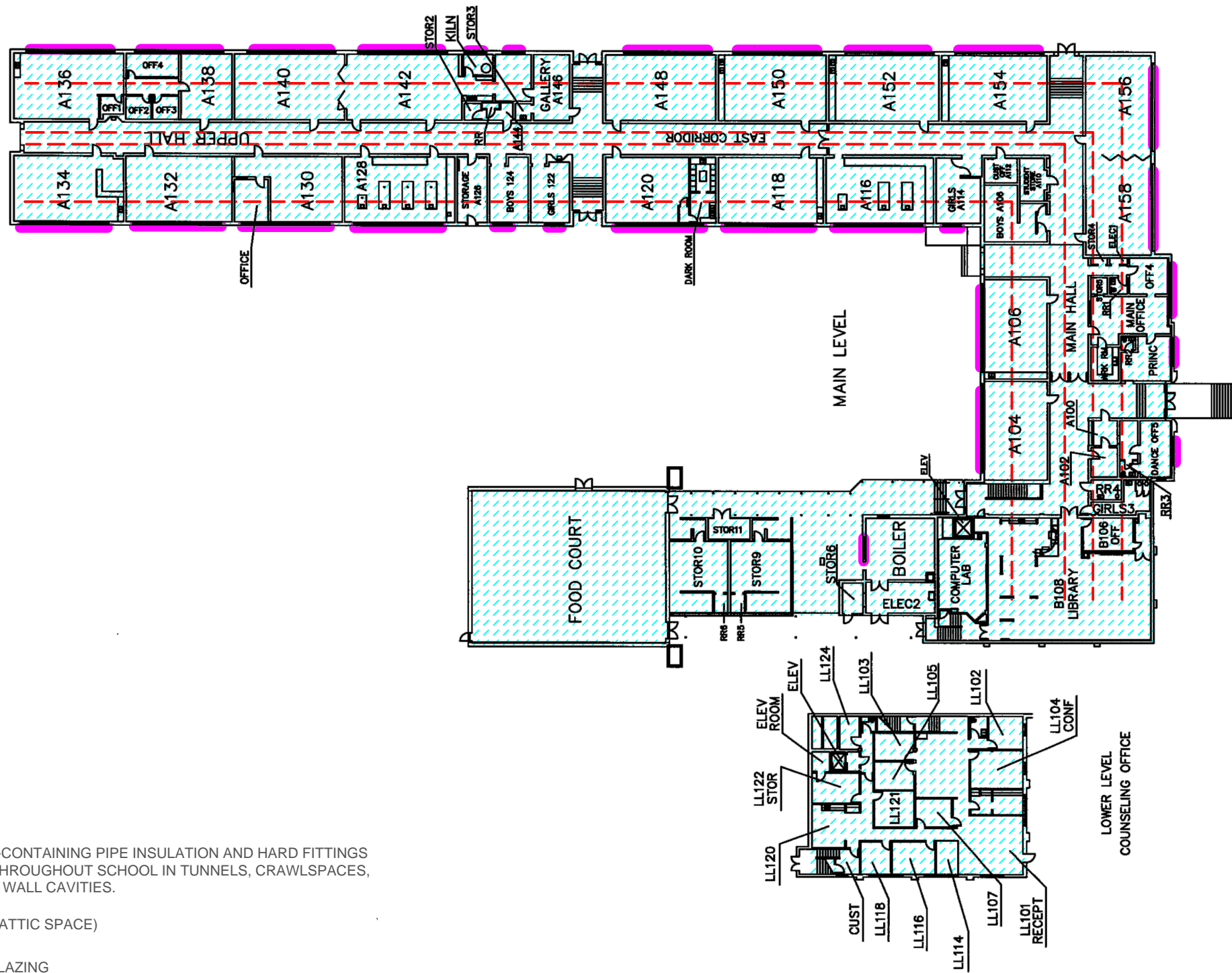


DATE	01/10/18
PROJECT NO.	293356
DRAWN BY	SC
CHECKED BY	MC
CHECKED BY	RL

LEGEND

-  ASBESTOS-CONTAINING PIPE INSULATION AND HARD FITTINGS LOCATED THROUGHOUT SCHOOL IN TUNNELS, CRAWLSPACES, ATTIC, AND WALL CAVITIES.
-  PIPE RUN (ATTIC SPACE)
-  WINDOW GLAZING

NOTE: SCALE AND LOCATIONS ARE APPROXIMATE



Appendix B – Laboratory Analytical Data Sheets



BULK ASBESTOS ANALYSIS REPORT

CLIENT: Beaverton School District

Lab Log #: 0051745
Project #: 293358.0000.0000
Date Received: 12/29/2017
Date Analyzed: 01/03/2018

Site: Arts & Communication Magnet Academy, Beaverton, OR

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
ACMA-01A	White/Light Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-01B	White/Light Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-01C	White/Light Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-01D	White/Light Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-01E	White/Light Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-02A	White/Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-02B	White/Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-02C	White/Brown (ceiling tile)	Yes	No	--	90% cellulose	ND	None
ACMA-03A	White/Grey (ceiling tile)	Yes	No	--	20% cellulose 60% mineral wool	ND	None
ACMA-03B	White/Grey (ceiling tile)	Yes	No	--	20% cellulose 60% mineral wool	ND	None
ACMA-04A	White/Grey (ceiling tile)	Yes	No	--	20% cellulose 60% mineral wool	ND	None
ACMA-04B	White/Grey (ceiling tile)	Yes	No	--	20% cellulose 60% mineral wool	ND	None
ACMA-05A	Light Grey (ceiling tile)	No	Yes	1	60% cellulose 20% mineral wool	ND	None
ACMA-05A	White (drywall)	No	Yes	2	2% cellulose	ND	None
ACMA-05B	Light Grey (ceiling tile)	No	Yes	1	60% cellulose 20% mineral wool	ND	None
ACMA-05B	White (drywall)	No	Yes	2	2% cellulose	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0	AIHA-LAP, LLC #100122	CT #PH-0426	ME LA-0075, LB-0071	MA #AA000052	NY #10980	WV# LT000411
RI #AAL-007	TX #300354	VT #AL014538 LA#05011	VA #3333 000283	AZ #A20944	HI #L-09-004	NJ #CT004 CA #2907
CO# AL-15020	PHIL# 461	PA#68-03387				



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
ACMA-05C	Light Grey (ceiling tile)	No	Yes	1	60% 20%	cellulose mineral wool	ND	None
ACMA-05C	White (drywall)	No	Yes	2	2%	cellulose	ND	None
ACMA-05D	Light Grey (ceiling tile)	No	Yes	1	80%	mineral wool	ND	None
ACMA-05D	White (drywall)	No	Yes	2	2%	cellulose	ND	None
ACMA-06A	White/Grey (ceiling tile)	Yes	No	--	60% 20%	cellulose mineral wool	ND	None
ACMA-06B	White/Grey (ceiling tile)	Yes	No	--	60% 20%	cellulose mineral wool	ND	None
ACMA-06C	White/Grey (ceiling tile)	Yes	No	--	60% 20%	cellulose mineral wool	ND	None
ACMA-06D	White/Grey (ceiling tile)	Yes	No	--	60% 20%	cellulose mineral wool	ND	None
ACMA-07A	White (caulk)	Yes	No	--		---	ND	None
ACMA-07B	White (caulk)	Yes	No	--		---	ND	None
ACMA-07C	White (caulk)	Yes	No	--		---	ND	None
ACMA-08A	Purple/Grey (sheet vinyl)	Yes	No	--	60% 2%	cellulose synthetic fiber	ND	None
ACMA-08B	Purple/Grey (sheet vinyl)	Yes	No	--	60% 2%	cellulose synthetic fiber	ND	None
ACMA-08C	Purple/Grey (sheet vinyl)	Yes	No	--	60% 2%	cellulose synthetic fiber	ND	None
ACMA-09A	Off White (compound)	Yes	No	--		---	ND	None
ACMA-09B	Off White (compound)	Yes	No	--		---	ND	None
ACMA-09C	Off White (compound)	Yes	No	--		---	ND	None
ACMA-10A	Yellow (glue)	No	Yes	1		---	ND	None
ACMA-10A	Off White (tile)	No	Yes	2		---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122
VT #AL014538 LA#05011
PHIL# 461

CT #PH-0426
VA #3333 000283
PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
ACMA-10B	Yellow (glue)	No	Yes	1	---	ND	None
ACMA-10B	Off White (tile)	No	Yes	2	---	ND	None
ACMA-10C	Yellow (glue)	No	Yes	1	---	ND	None
ACMA-10C	Off White (tile)	No	Yes	2	---	ND	None
ACMA-11A	Black (mastic)	No	Yes	1	---	5%	Chrysotile
ACMA-11A	Light Green (tile)	No	Yes	2	---	3%	Chrysotile
ACMA-11B	Black (mastic)	No	Yes	1	---	ND	None
ACMA-11B	Beige (tile)	No	Yes	2	---	ND	None
ACMA-11C	Black (mastic)	No	Yes	1	---	5%	Chrysotile
ACMA-11C	Dark Green (tile)	No	Yes	2	---	5%	Chrysotile
ACMA-11D	Black (mastic)	No	Yes	1	---	5%	Chrysotile
ACMA-11D	Grey (tile)	No	Yes	2	---	5%	Chrysotile
ACMA-11E	--	--	--	--	--	SNA	--
ACMA-11E	Orange (tile)	No	Yes	2	---	5%	Chrysotile
ACMA-11F	Black (mastic)	No	Yes	1	---	3%	Chrysotile
ACMA-11F	Light Grey (tile)	No	Yes	2	---	10%	Chrysotile
ACMA-11G	--	--	--	--	--	SNA	--
ACMA-11G	Off White (tile)	No	Yes	2	---	ND	None
ACMA-11H	Black (mastic)	No	Yes	1	---	3%	Chrysotile
ACMA-11H	Red (tile)	No	Yes	2	---	5%	Chrysotile
ACMA-11I	Black (mastic)	No	Yes	1	---	3%	Chrysotile
ACMA-11I	Brown (tile)	No	Yes	2	---	5%	Chrysotile
ACMA-12A	Grey (grout)	Yes	No	--	---	ND	None
ACMA-12B	Grey (grout)	Yes	No	--	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP,LLC #100122 CT #PH-0426
VT #AL014538 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
ACMA-12C	Grey (grout)	Yes	No	--	---		ND	None
ACMA-13A	Light Grey (grout)	Yes	No	--	---		ND	None
ACMA-13B	Light Grey (grout)	Yes	No	--	---		ND	None
ACMA-13C	Light Grey (grout)	Yes	No	--	---		ND	None
ACMA-14A	Dark Grey (glue)	No	Yes	1	10%	cellulose	ND	None
ACMA-14A	Brown/Grey (tile)	No	Yes	2	---		ND	None
ACMA-14B	Dark Grey (glue)	No	Yes	1	10%	cellulose	ND	None
ACMA-14B	Brown/Grey (tile)	No	Yes	2	---		ND	None
ACMA-14C	Dark Grey (glue)	No	Yes	1	10%	cellulose	ND	None
ACMA-14C	Brown/Grey (tile)	No	Yes	2	---		ND	None
ACMA-15A	Yellow (glue)	No	Yes	1	3%	cellulose	ND	None
ACMA-15A	Grey (tile)	No	Yes	2	---		ND	None
ACMA-15B	Black (glue)	No	Yes	1	3%	cellulose	ND	None
ACMA-15B	Grey (tile)	No	Yes	2	---		ND	None
ACMA-15C	Yellow (glue)	No	Yes	1	3%	cellulose	ND	None
ACMA-15C	Grey (tile)	No	Yes	2	---		ND	None
ACMA-16A	Black/ Brown (fiber panel)	Yes	No	--	80%	fibrous glass	ND	None
ACMA-16B	Black/ Brown (fiber panel)	Yes	No	--	80%	fibrous glass	ND	None
ACMA-16C	Black/ Brown (fiber panel)	Yes	No	--	80%	fibrous glass	ND	None
ACMA-17A	White (mastic)	No	Yes	1	---		ND	None
ACMA-17A	Brown (pirell tile)	No	Yes	2	---		ND	None
ACMA-17B	White (mastic)	No	Yes	1	---		ND	None
ACMA-17B	Brown (pirell tile)	No	Yes	2	---		ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP,LLC #100122 CT #PH-0426
VT #AL014538 LA#05011 VA #3333 000283
PHIL# 461 PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
ACMA-17C	White (mastic)	No	Yes	1	---		ND	None
ACMA-17C	Brown (stair tread)	No	Yes	2	---		ND	None
ACMA-18A	Tan (mastic)	No	Yes	1	---		ND	None
ACMA-18A	Brown (tile)	No	Yes	2	3%	cellulose	ND	None
ACMA-18A	Grey (tile)	No	Yes	3	3%	cellulose	ND	None
ACMA-18B	Tan (mastic)	No	Yes	1	---		ND	None
ACMA-18B	Brown (tile)	No	Yes	2	3%	cellulose	ND	None
ACMA-18B	Grey (tile)	No	Yes	3	3%	cellulose	ND	None
ACMA-18C	Tan (mastic)	No	Yes	1	---		ND	None
ACMA-18C	Brown (tile)	No	Yes	2	3%	cellulose	ND	None
ACMA-18C	Grey (tile)	No	Yes	3	3%	cellulose	ND	None
ACMA-19A	Tan (mastic)	No	Yes	1	---		ND	None
ACMA-19A	Tan (tile)	No	Yes	2	---		ND	None
ACMA-19A	Grey (tile)	No	Yes	3	---		ND	None
ACMA-19B	Tan (mastic)	No	Yes	1	---		ND	None
ACMA-19B	Tan (tile)	No	Yes	2	---		ND	None
ACMA-19B	Grey (tile)	No	Yes	3	---		ND	None
ACMA-19C	Tan (mastic)	No	Yes	1	---		ND	None
ACMA-19C	Tan (tile)	No	Yes	2	---		ND	None
ACMA-19C	Grey (tile)	No	Yes	3	---		ND	None
ACMA-20A	Gold/Grey (sheet vinyl)	Yes	No	--	---		ND	None
ACMA-20B	Gold/Grey (sheet vinyl)	Yes	No	--	---		ND	None
ACMA-21A	Yellow (mastic)	No	Yes	1	---		ND	None
ACMA-21A	Blue (tile)	No	Yes	2	---		ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
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HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
ACMA-21B	--	--	--	--	--	--	SNA	--
ACMA-21B	Blue (tile)	No	Yes	2	---	---	ND	None
ACMA-21C	Black (mastic)	No	Yes	1	---	---	3%	Chrysotile
ACMA-21C	Blue (tile)	No	Yes	2	---	---	ND	None
ACMA-22A	--	--	--	--	--	--	SNA	--
ACMA-22A	Beige (tile)	No	Yes	2	---	---	ND	None
ACMA-22B	--	--	--	--	--	--	SNA	--
ACMA-22B	Beige (tile)	No	Yes	2	---	---	ND	None
ACMA-23A	Yellow (carpet mastic)	No	Yes	1	5%	cellulose	ND	None
ACMA-23A	White (tile)	No	Yes	2	---	---	ND	None
ACMA-23A	Black (mastic)	No	Yes	3	3%	cellulose	ND	None
ACMA-23B	Yellow (carpet mastic)	No	Yes	1	5%	cellulose	ND	None
ACMA-23B	White (tile)	No	Yes	2	---	---	ND	None
ACMA-23B	Black (mastic)	No	Yes	3	3%	cellulose	ND	None
ACMA-23C	Yellow (carpet mastic)	No	Yes	1	5%	cellulose	ND	None
ACMA-23C	White (tile)	No	Yes	2	---	---	ND	None
ACMA-23C	Black (mastic)	No	Yes	3	3%	cellulose	ND	None
ACMA-10D	Yellow (mastic)	No	Yes	1	---	---	ND	None
ACMA-10D	Off White (tile)	No	Yes	2	---	---	ND	None
ACMA-10E	Yellow (mastic)	No	Yes	1	---	---	ND	None
ACMA-10E	Off White (tile)	No	Yes	2	---	---	ND	None
ACMA-24A	Yellow (mastic)	No	Yes	1	---	---	ND	None
ACMA-24A	Grey-Pink (tile)	No	Yes	2	---	---	ND	None
ACMA-24A	Black (mastic)	No	Yes	3	---	---	ND	None
ACMA-24A	Light Grey (tile)	No	Yes	4	---	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP,LLC #100122
VT #AL014538 LA#05011
PHIL# 461

CT #PH-0426
VA #3333 000283
PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
ACMA-24B	Yellow (mastic)	No	Yes	1	---	ND	None
ACMA-24B	Grey-Pink (tile)	No	Yes	2	---	ND	None
ACMA-24B	Black (mastic)	No	Yes	3	---	ND	None
ACMA-24B	Light Grey (tile)	No	Yes	4	---	ND	None
ACMA-25A	White (mastic)	No	Yes	1	---	ND	None
ACMA-25A	Light Brown (cove base)	No	Yes	2	---	ND	None
ACMA-25B	White (mastic)	No	Yes	1	---	ND	None
ACMA-25B	Light Brown (cove base)	No	Yes	2	---	ND	None
ACMA-25C	White (mastic)	No	Yes	1	---	ND	None
ACMA-25C	Light Brown (cove base)	No	Yes	2	---	ND	None
ACMA-25D	White (mastic)	No	Yes	1	---	ND	None
ACMA-25D	Light Brown (cove base)	No	Yes	2	---	ND	None
ACMA-26A	Yellow (mastic)	No	Yes	1	---	ND	None
ACMA-26A	Light Grey (tile)	No	Yes	2	---	ND	None
ACMA-26B	Yellow (mastic)	No	Yes	1	---	ND	None
ACMA-26B	Light Grey (tile)	No	Yes	2	---	ND	None
ACMA-27A	Cream (mastic)	No	Yes	1	---	ND	None
ACMA-27A	Black (cove base)	No	Yes	2	---	ND	None
ACMA-27B	Cream (mastic)	No	Yes	1	---	ND	None
ACMA-27B	Black (cove base)	No	Yes	2	---	ND	None
ACMA-27C	Cream (mastic)	No	Yes	1	---	ND	None
ACMA-27C	Black (cove base)	No	Yes	2	---	ND	None
ACMA-27D	Cream (mastic)	No	Yes	1	---	ND	None
ACMA-27D	Black (cove base)	No	Yes	2	---	ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP,LLC #100122
VT #AL014538 LA#05011
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ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
ACMA-27E	Cream (mastic)	No	Yes	1	---		ND	None
ACMA-27E	Black (cove base)	No	Yes	2	---		ND	None
ACMA-28A	White (texture/joint compound)	Yes	No	--	---		ND	None
ACMA-28B	White (texture/plaster)	Yes	No	--	---		ND	None
ACMA-28C	White (texture/plaster)	Yes	No	--	---		ND	None
ACMA-28D	White (texture/plaster)	Yes	No	--	---		ND	None
ACMA-28E	White (texture/joint compound)	No	Yes	1	---		ND	None
ACMA-28E	White (gypsum board)	No	Yes	2	---		ND	None
ACMA-28F	White (texture/joint compound)	No	Yes	1	---		ND	None
ACMA-28F	White (gypsum board)	No	Yes	2	---		ND	None
ACMA-28G	White (texture/plaster)	Yes	No	--	---		ND	None
ACMA-28H	White (texture/skim coat)	No	Yes	1	---		ND	None
ACMA-28H	Light Grey (plaster)	No	Yes	2	2%	horse hair	ND	None
ACMA-28I	White (texture/skim coat)	No	Yes	1	---		ND	None
ACMA-28I	Light Grey (plaster)	No	Yes	2	---		ND	None
ACMA-28J	White (texture/skim coat)	No	Yes	1	---		ND	None
ACMA-28J	Light Grey (plaster)	No	Yes	2	---		ND	None
ACMA-28K	White (texture/skim coat)	No	Yes	1	---		ND	None
ACMA-28K	Light Grey (plaster)	No	Yes	2	---		ND	None
ACMA-28L	White (texture/skim coat)	No	Yes	1	---		ND	None
ACMA-28L	Light Grey (plaster)	No	Yes	2	---		ND	None
ACMA-28M	White (texture/skim coat)	No	Yes	1	---		ND	None
ACMA-28M	Light Grey (plaster)	No	Yes	2	---		ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122
VT #AL014538 LA#05011
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ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
ACMA-28N	White (texture/skim coat)	No	Yes	1	---		ND	None
ACMA-28N	Light Grey (plaster)	No	Yes	2	---		ND	None
ACMA-28O	White (texture/skim coat)	Yes	No	--	---		ND	None
ACMA-28P	White (joint compound)	No	Yes	1	---		ND	None
ACMA-28P	Light Grey (gypsum board)	No	Yes	2	---		ND	None
ACMA-28Q	White (joint compound)	No	Yes	1	---		ND	None
ACMA-28Q	Light Grey (gypsum board)	No	Yes	2	---		ND	None
ACMA-28R	White (joint compound)	No	Yes	1	---		ND	None
ACMA-28R	Light Grey (gypsum board)	No	Yes	2	---		ND	None
ACMA-28S	White (joint compound)	No	Yes	1	---		ND	None
ACMA-28S	Light Grey (gypsum board)	No	Yes	2	---		ND	None
ACMA-28T	White (joint compound)	Yes	No	--	---		ND	None
ACMA-28U	White (joint compound)	No	Yes	1	---		ND	None
ACMA-28U	White (gypsum board)	No	Yes	2	---		ND	None
ACMA-29A	Brown (aircell)	Yes	No	--	99%	cellulose	ND	None
ACMA-29B	White (mag)	Yes	No	--	---		20% 20%	Chrysotile Amosite
ACMA-29C	--	--	--	--	--		NA/PS	--
ACMA-30A	Grey (concrete)	Yes	No	--	---		ND	None
ACMA-30B	Grey (concrete)	Yes	No	--	---		ND	None
ACMA-30C	Grey (concrete)	Yes	No	--	---		ND	None
ACMA-28V	White (skim coat)	No	Yes	1	---		ND	None
ACMA-28V	Grey (plaster)	No	Yes	2	---		ND	None
ACMA-31A	White/Red/Grey (stucco)	Yes	No	--	---		ND	None
ACMA-31B	White/Red/Grey (stucco)	Yes	No	--	---		ND	None

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122 CT #PH-0426
VT #AL014538 LA#05011 PHIL# 461
VA #3333 000283 PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907



POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
ACMA-31C	White/Red/Grey (stucco)	Yes	No	--	---	ND	None
ACMA-31D	White/Red/Grey (stucco)	Yes	No	--	---	ND	None
ACMA-31E	White/Red/Grey (stucco)	Yes	No	--	---	ND	None
ACMA-31F	White/Red/Grey (stucco)	Yes	No	--	---	ND	None
ACMA-32A	Black (work top)	Yes	No	--	---	ND	None
ACMA-32B	Black (work top)	Yes	No	--	---	ND	None
ACMA-32C	Black (work top)	Yes	No	--	---	ND	None
ACMA-33A	Black (sink insulation)	Yes	No	--	---	ND	None
ACMA-33B	Black (sink insulation)	Yes	No	--	---	ND	None
ACMA-33C	Black (sink insulation)	Yes	No	--	---	3%	Chrysotile

Reporting limit- asbestos present at 1%

ND - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by:

Cathryn Lemire, Laboratory Analyst

Reviewed by:

Kathleen Williamson, Laboratory Manager

Date Issued

01/05/2018

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122
VT #AL014538 LA#05011
PHIL# 461

CT #PH-0426
VA #3333 000283
PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980
NJ #CT004

WV# LT000411
CA #2907



ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6380

PROJECT NUMBER

293358

PROJECT NAME

ACMA School
BSP. Bawerton OR

PARAMETERS

LAB ID #.

51745,

TURNAROUND TIME

PLM: 8hr 24hr 48hr 3day
TEM: 24hr 48hr 3day 5day

SIGNATURE

[Signature]

INSPECTOR

ED GAY (Person Stone)

FIELD
SAMPLE
NUMBER

DATE

TIME

TYPE
COMP
GRAB

SAMPLE LOCATION

PLM EPA 600/R93/116
(POSITIVE STOP)

PLM EPA 600/R93/116
(w/ gravimetric reduction)
(POSITIVE STOP)

ANALYZE BY LAYER

POINT COUNT
(IF >1% & <10%)

TEM NY NOB 198.4
(IF PLM SERIES NEG)

MATERIAL

Various

ACMA-014 21, 23, 26, 27 6:30

ARTS & COMMUNICATION
MAGNET ACADEMY

Bawerton
School
DISTRICT

ACMA-33C

2:30

2:30

2:30

2:30

2:30

Relinquished by: (Signature)

[Signature]

Date:

12-28-17

Received by: (Signature)

[Signature] 12/29/17

Relinquished by: (Signature)

(Printed)

(Printed)

ED GAY

Time:

8AM

(Printed)

[Signature] 10:00

(Printed)

(Printed)

Date:

Time:

(Printed)

(Printed)

Received by: (Signature)

Remarks:

Multiple Days - some overlap on DataSheets
if not clear pls call - Thanks Ed

Condition of Samples: ☒ Yes ☐ No
Acceptable: Yes ☒ No ☐
Comments:

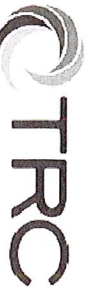
ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358
 Name: BSD Bond Renovation Work
 Location: Arts & Communication Magnet Academy (ACMA)

Inspector Name and License #: EDH
 Date of Inspection: 12-21-17
 Inspector Signature: [Signature]

Sample #	Material Description	Sample Location	Quantity (SF or LF)	Friability (NF or F)	Damage (ND, D, SD)
ACMA-01A	1'x1' SLOTTED CT	EAST ENTRY			
01B	on driving surface	HA HALL EAST CORRIDOR	check white glass?		
01C		UPPER HALL	"	"	"
01D		Room A136			
01E		Room A106			
ACMA-02A	1x1 Pinhole	Rm 158			
02B	"	"	on surface		
02C					
ACMA-03A	2'x2' FISSURE GRID CT	OFFICE in Rm 136			
03B	2x2	entrance 136			
ACMA-04A	2x4 small fissure grid CT	OFFICE Rm 130			
04B		" " 130			
ACMA-05A	1x1 CT FISSURE	main ENTRY - south -			
05B	large of mastic	left for the mastic in the whole sample			
05C	new 2x4' framed	reference of office			
05D	1x1 CT FISSURE	COMPUTER ROOM - LIBRARY - VERY HIGH - look for mastic			
ACMA-06A	new 2x4' framed	LIBRARY OFFICE			
06B		" STATION			
06C		" hall			
06D		DOWNSTAIRS			

Read by: [Signature] 12/29/17 1100
 4105 SE International Way, Suite 505, Milwaukie, OR 97222 Phone: (503) 387-3251 Fax: (503) 908-1318



57745

ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358

Inspector Name and License #:

Name: BSD Bond Renovation Work

Date of Inspection: 12-22-17

Location: Arts & Communication Magnet Academy (ACMA)

Inspector Signature:

Edgely Tom Stone
Page 2 of 3

Sample #	Material Description	Sample Location	Quantity (SF or LF)	Friability (NF or F)	Damage (ND, D, SD)
ACMA-07A	EXT. WINDOW COULDS	NORTH EAST EXTERIOR			
07B		CENTER SOUTH "			
07C		SOUTH WEST "			
-08A	Purple (Pebble Pattern)	Principal's Restroom			
-08B	Sheet Vinyl Flooring				
-08C					
-09A	Off-white compound	Office			
-09B	beneath carpet				
-09C					
-10A		N. end (Upper Hall)			
-10B	Off-White 12"x12" Floor Tile & Glue	Rm. #152			
-10C		W. end (Main Hall)			
-11A		Light Green (A142)			
-11B	9"x9" Floor Tile & Mastic	Beige (A104)			
-11C		Dark Green (Break Room)			
-11D		Gray (Student Store)			
-11E		Orange (A154)			
-11F		Light Gray (A150)			
-11G		Off-white (Break Room)			
-11H		Red (A104)			
-11I		Brown (A142)			
-12A	Red Ceramic Tile Grout/Glue	Boys' Restroom (Main Hall)			
-12B					
-12C		Girls' Restroom (East Corridor)			
-13A					
-13B	White & Gray Ceramic Tile	Boys' Restroom (Upper Hall)			
-13C	Grout/Glue	Girls' Restroom			


* No mastic

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Phone: (503) 387-3251 Fax: (503) 908-1318

ASBESTOS INSPECTION FIELD DATA SHEET

51745

Project #: 293358 Inspector Name and License #: _____
 Name: BSD Bond Renovation Work Date of Inspection: 12-26-17
 Location: Arts & Communication Magnet Academy (ACMA) Inspector Signature: 

Page 3 of 6

Sample #	Material Description	Sample Location	Quantity (SF or LF)	Friability (NF or F)	Damage (ND, D, SD)
ACMA-14A	Brown & Gray 12"x12" Textured	East Corridor (Between A150 & A148)			
-14B	Floor Tile & Glue				
-14C					
-15A	Gray 12"x12" Floor Tile & Glue	A116			
-15B		A128			
-15C					
16A	Fiber Panels Black	Library (Between 12-26)			
17A	Brown 18"x18" Floor Tiles	Stairs From Library To Counseling			
18A	Beige Brown 12"x12" FT	Counseling			
19A	Dark Brown 12"x12" FT	Counseling - Junction Double Layer SV			
20A	Silver Gray Swirl	Hall By Restroom			
21A	Food Court	12x12 Blue FT			
22A	12x12 Blue FT	Food Court			
23A	12x12 Blue FT	Behind Gallery			
24A	12x12 Blue FT	Small Room			

Red bar: None 12/26/17 11:00
 *NO MASTIC
 4105 SE International Way, Suite 505, Milwaukie, OR 97222 Phone: (503) 387-3251 Fax: (503) 908-1318



ASBESTOS INSPECTION FIELD DATA SHEET

51745

Project #: 293358 Inspector Name and License #: _____
 Name: BSD Bond Renovation Work Date of Inspection: 12-26-17
 Location: Arts & Communication Magnet Academy (ACMA) Inspector Signature: *[Signature]*

Page 3 of 6

Sample #	Material Description	Sample Location	Quantity (SF or LF)	Friability (NF or F)	Damage (ND, D, SD)
ACMA-77A	Brown Gray 12"x12" Terrazzo	East Corridor (between 410 & 415)			
14B	Gray 12"x12" Floor Tile & Glue	AD18			
14C	Gray 12"x12" Floor Tile & Glue	AD18			
15A	Gray 12"x12" Floor Tile & Glue	AD18			
15B	Gray 12"x12" Floor Tile & Glue	AD18			
15C	Gray 12"x12" Floor Tile & Glue	AD18			
16A	Fiber Panels Black	Library			
B					
C					
17A	Brown 18"x18" P. Roll:	Stairs From Library			
B	8" tile Red mastic	To Counseling			
C					
18A	Beige Brown 12"x12 FT	Counseling			
B					
C	(2 layers) mastic				
19A	Dark Brown 12"x12 FT	Counseling - junction			
B	mastic	Hall by Restrm			
C		Hall by Restrm			
20A	SV colored gray swirl	Small Rest			
20B	Small mastic				
21A	Food Court mastic	12x12 blue FT			
21B	12x12 Blue FT	Food Court			
22A	12x12 beige	Recessed Gallery			
22B	FT mastic	Small room			

Read by: *[Signature]* 12/29/17 noc
 4105 SE International Way, Suite 505, Milwaukie, OR 97222 Phone: (503) 387-3251 Fax: (503) 908-1318



ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358
Name: BSD Bond Renovation Work
Location: Arts & Communication Magnet Academy (ACMA)
Inspector Name and License #: _____
Date of Inspection: 12-26-17
Inspector Signature: *[Signature]*

Page 4 of 6

57745

Sample #	Material Description	Sample Location	Quantity (SF or LF)	Friability (NF or F)	Damage (ND, D, SD)
ACMA-234 A 233 233	Carpet mastic Tile under Carpet mastic	Rm 136 " " Rm 130			
ACMA-100 100	12x12 of w/ FT & mastic	Rm 140 Rm 134			
ACMA-244 B	12x12 cream tiles 2 layers Mastic	Rm LL102 small room			
254 B	4" lite Brn cote base Mastic	Rm LL402 near Rm LL403			
264 B	Tile under carpet BY LL116 Mastic	lower level (counseling near Rm LL103)			
274 B	cove base 4" Black h " r " Mastic	library main fl. BY 102 BY STUDENT STORE			
284 B	" " " " " " Mastic	Rm 134 Rm 136			
284 B	Walls gypsum mud plaster	Rm 136 sketch " " plaster	gypsum board joint compound		
C	" " plaster	Rm 134 plaster			
D	plaster	" " " "			
E	gypsum board joint mud	Rm 130			
F	" " "	" " "			

350 4" lite Brn cote base
Mastic 4105 SE International Way, Suite 505, Milwaukie, OR 97222 Phone: (503) 387-3251 Fax: (503) 908-1318

Red br.
12/26/17
100



ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358
Name: BSD Bond Renovation Work
Location: Arts & Communication Magnet Academy (ACMA)
Inspector Name and License #: ED GAH
Date of Inspection: 12-27-17
Inspector Signature: [Signature]

51745

Sample #	Material Description	Sample Location	Quantity (SF or LF)	Friability (NF or F)	Damage (ND, D, SD)
ACMA-285	Plaster	Rm 140	(End 12-26)		
H		Rm 150			
I	Plaster	Rm 118	(Begin 12-27 4/21/15)		
J		Rm 154			
K		GIRLS R-R			
L		Boys Rm			
M		Rm 106			
N		Rm 100			
O		Li-Rm - mostly paved - plaster under?			
P	SYNTH STUCK	Computer Lab			
Q	" " "	Locker Level - Custodian			
R	" " "	" " Rm 122			
S	" " "	" " Rm 102			
T	" " "	STORAGE BY FOOD COURT			
U	" " "	Boiler Rm Turnell			
ACMA-29A	3" AIR Cell				
B	6" MAG				
C	8" "				
204	Concrete	Boiler Rm			
B	" "	" "			
C	" "	" "			
ACMA-28V	Plaster - Partition	Boiler Rm			
31A	EXT STAIRS	NORTH ENTRY BUILDING			
31B		SOUTH MAIN ENTRY			
C		EAST ENTRY - SOUTH END			

Red line: 12/25/17 1100
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ASBESTOS INSPECTION FIELD DATA SHEET

Project #: 293358
Name: BSD Bond Renovation Work
Location: Arts & Communication Magnet Academy (ACMA)

Inspector Name and License #: ED SAT
Date of Inspection: 12-27-17
Inspector Signature: [Signature]

Page 5 of 6
51745

Sample #	Material Description	Sample Location	Quantity (SF or LF)	Friability (NF or F)	Damage (ND, D, SD)
ACMA 285	Plaster	Rm 140	End 12-26		
4	Plaster	Rm 140	End 12-26		
5	Plaster	Rm 150	End 12-26		
6	Plaster	Rm 118	End 12-26		
7	Plaster	Rm 154	End 12-26		
8	Plaster	Rm 154	End 12-26		
9	Plaster	Rm 154	End 12-26		
10	Plaster	Rm 154	End 12-26		
11	Plaster	Rm 154	End 12-26		
12	Plaster	Rm 154	End 12-26		
13	Plaster	Rm 154	End 12-26		
14	Plaster	Rm 154	End 12-26		
15	Plaster	Rm 154	End 12-26		
16	Plaster	Rm 154	End 12-26		
17	Plaster	Rm 154	End 12-26		
18	Plaster	Rm 154	End 12-26		
19	Plaster	Rm 154	End 12-26		
20	Plaster	Rm 154	End 12-26		
21	Plaster	Rm 154	End 12-26		
22	Plaster	Rm 154	End 12-26		
23	Plaster	Rm 154	End 12-26		
24	Plaster	Rm 154	End 12-26		
25	Plaster	Rm 154	End 12-26		
26	Plaster	Rm 154	End 12-26		
27	Plaster	Rm 154	End 12-26		
28	Plaster	Rm 154	End 12-26		
29	Plaster	Rm 154	End 12-26		
30	Plaster	Rm 154	End 12-26		
31	Plaster	Rm 154	End 12-26		
32	Plaster	Rm 154	End 12-26		
33	Plaster	Rm 154	End 12-26		
34	Plaster	Rm 154	End 12-26		
35	Plaster	Rm 154	End 12-26		
36	Plaster	Rm 154	End 12-26		
37	Plaster	Rm 154	End 12-26		
38	Plaster	Rm 154	End 12-26		
39	Plaster	Rm 154	End 12-26		
40	Plaster	Rm 154	End 12-26		
41	Plaster	Rm 154	End 12-26		
42	Plaster	Rm 154	End 12-26		
43	Plaster	Rm 154	End 12-26		
44	Plaster	Rm 154	End 12-26		
45	Plaster	Rm 154	End 12-26		
46	Plaster	Rm 154	End 12-26		
47	Plaster	Rm 154	End 12-26		
48	Plaster	Rm 154	End 12-26		
49	Plaster	Rm 154	End 12-26		
50	Plaster	Rm 154	End 12-26		
51	Plaster	Rm 154	End 12-26		
52	Plaster	Rm 154	End 12-26		
53	Plaster	Rm 154	End 12-26		
54	Plaster	Rm 154	End 12-26		
55	Plaster	Rm 154	End 12-26		
56	Plaster	Rm 154	End 12-26		
57	Plaster	Rm 154	End 12-26		
58	Plaster	Rm 154	End 12-26		
59	Plaster	Rm 154	End 12-26		
60	Plaster	Rm 154	End 12-26		
61	Plaster	Rm 154	End 12-26		
62	Plaster	Rm 154	End 12-26		
63	Plaster	Rm 154	End 12-26		
64	Plaster	Rm 154	End 12-26		
65	Plaster	Rm 154	End 12-26		
66	Plaster	Rm 154	End 12-26		
67	Plaster	Rm 154	End 12-26		
68	Plaster	Rm 154	End 12-26		
69	Plaster	Rm 154	End 12-26		
70	Plaster	Rm 154	End 12-26		
71	Plaster	Rm 154	End 12-26		
72	Plaster	Rm 154	End 12-26		
73	Plaster	Rm 154	End 12-26		
74	Plaster	Rm 154	End 12-26		
75	Plaster	Rm 154	End 12-26		
76	Plaster	Rm 154	End 12-26		
77	Plaster	Rm 154	End 12-26		
78	Plaster	Rm 154	End 12-26		
79	Plaster	Rm 154	End 12-26		
80	Plaster	Rm 154	End 12-26		
81	Plaster	Rm 154	End 12-26		
82	Plaster	Rm 154	End 12-26		
83	Plaster	Rm 154	End 12-26		
84	Plaster	Rm 154	End 12-26		
85	Plaster	Rm 154	End 12-26		
86	Plaster	Rm 154	End 12-26		
87	Plaster	Rm 154	End 12-26		
88	Plaster	Rm 154	End 12-26		
89	Plaster	Rm 154	End 12-26		
90	Plaster	Rm 154	End 12-26		
91	Plaster	Rm 154	End 12-26		
92	Plaster	Rm 154	End 12-26		
93	Plaster	Rm 154	End 12-26		
94	Plaster	Rm 154	End 12-26		
95	Plaster	Rm 154	End 12-26		
96	Plaster	Rm 154	End 12-26		
97	Plaster	Rm 154	End 12-26		
98	Plaster	Rm 154	End 12-26		
99	Plaster	Rm 154	End 12-26		
100	Plaster	Rm 154	End 12-26		

Read by: [Signature] 12/25/17 1102
4105 SE International Way, Suite 505, Milwaukie, OR 97222 Phone: (503) 387-3251 Fax: (503) 908-1318



Page 6 of 2

64x

Handwritten signature

Inspector Signature: _____



Reed bay: ~~Reed~~ 12/25/17 med

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EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

0196574

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS
Address: 4120 SE INTERNATIONAL WAY
STE A110
MILWAUKIE OR 97086
Collected: 01/11/2018
Project Name: BSD-ARTS & COMMUNICATION
ACADEMY (ACMA)
Address:
Job# / P.O. #:
Date Received: 01/12/2018
Date Analyzed: 01/17/2018
Date Reported: 01/17/2018
EPA Method: EPA 600/R-93/116
Submitted By: JASON STONE
Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents		
0196574-001 ACMA-34A	BOILER RM TUNNEL	Pipe Insulation, White/ Brown	Yes	Chrysotile	70%	Cellulose Fiber	15%
						Carbonates Quartz Gypsum Binder/Filler	15%
0196574-002 ACMA-34B	BOILER RM TUNNEL	Pipe Insulation, White/ Brown	Yes	Chrysotile	70%	Cellulose Fiber	15%
						Carbonates Quartz Gypsum Binder/Filler	15%
0196574-003 ACMA-34C	BOILER RM TUNNEL	Pipe Insulation, White/ Brown	Yes	Chrysotile	70%	Cellulose Fiber	15%
						Carbonates Quartz Gypsum Binder/Filler	15%
0196574-004 ACMA-35A	STAFF RESTRM	LAYER 1	No	None Detected		Carbonates	
		12"x12" Floor Tile, Pink				Gypsum Quartz Binder/Filler	
		LAYER 2	No	None Detected		Cellulose Fiber	<1%
		Glue, Tan				Carbonates Gypsum Quartz Binder/Filler	99%

EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

0196574

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS
Address: 4120 SE INTERNATIONAL WAY
STE A110
MILWAUKIE OR 97086
Collected: 01/11/2018
Project Name: BSD-ARTS & COMMUNICATION
ACADEMY (ACMA)
Address:
Job# / P.O. #:
Date Received: 01/12/2018
Date Analyzed: 01/17/2018
Date Reported: 01/17/2018
EPA Method: EPA 600/R-93/116
Submitted By: JASON STONE
Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0196574-005 ACMA-35B	STAFF RESTRM	LAYER 1 12"x12" Floor Tile, Pink	No	None Detected	Cellulose Fiber <1% Carbonates Gypsum Quartz Binder/Filler 99%
		LAYER 2 Glue, Tan	No	None Detected	Cellulose Fiber 1% Synthetic Fiber <1% Carbonates Gypsum Quartz Binder/Filler 98%
0196574-006 ACMA-35C	STAFF RESTRM	LAYER 1 12"x12" Floor Tile, Pink	No	None Detected	Carbonates Gypsum Quartz Binder/Filler 100%
		LAYER 2 Glue, Tan	No	None Detected	Cellulose Fiber 2% Synthetic Fiber <1% Carbonates Gypsum Quartz Binder/Filler 97%
0196574-007 ACMA-36A		Carpet Glue, Yellow	No	None Detected	Cellulose Fiber <1% Carbonates Gypsum Quartz Binder/Filler 99%
0196574-008 ACMA-36B		Carpet Glue, Yellow	No	None Detected	Synthetic Fiber 1% Carbonates Gypsum Quartz Binder/Filler 99%

EMC LABS, INC.

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Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

0196574

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS
Address: 4120 SE INTERNATIONAL WAY
STE A110
MILWAUKIE OR 97086
Collected: 01/11/2018
Project Name: BSD-ARTS & COMMUNICATION
ACADEMY (ACMA)
Address:
Job# / P.O. #:
Date Received: 01/12/2018
Date Analyzed: 01/17/2018
Date Reported: 01/17/2018
EPA Method: EPA 600/R-93/116
Submitted By: JASON STONE
Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0196574-009 ACMA-36C		Carpet Glue, Yellow	No	None Detected	Cellulose Fiber Carbonates Gypsum Quartz Binder/Filler	<1% 99%
0196574-010 ACMA-37A	ENTRY	1x1 Ceiling Tile Glue, Yellow	No	None Detected	Cellulose Fiber Mineral Wool Carbonates Gypsum Quartz Perlite Binder/Filler	1% 1% 98%
0196574-011 ACMA-37B	ENTRY	1x1 Ceiling Tile, Yellow	No	None Detected	Cellulose Fiber Carbonates Gypsum Quartz Perlite Binder/Filler	<1% 99%
0196574-012 ACMA-37C	ENTRY	1x1 Ceiling Tile Glue, Yellow	No	None Detected	Cellulose Fiber Mineral Wool Carbonates Gypsum Quartz Perlite Binder/Filler	1% 1% 98%

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Laboratory Report
0196574

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: TRC SOLUTIONS
Address: 4120 SE INTERNATIONAL WAY
STE A110
MILWAUKIE OR 97086
Collected: 01/11/2018
Project Name: BSD-ARTS & COMMUNICATION
ACADEMY (ACMA)
Address:
Job# / P.O. #:
Date Received: 01/12/2018
Date Analyzed: 01/17/2018
Date Reported: 01/17/2018
EPA Method: EPA 600/R-93/116
Submitted By: JASON STONE
Collected By:

Lab ID	Sample	Layer Name /	Asbestos	Asbestos Type	Non-Asbestos
Client ID	Location	Sample Description	Detected	(%)	Constituents



Analyst - James A. Storm



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(800) 362-3373 Fax (480) 893-1726

LAB#: 196574

TAT: 3 day

Rec'd: JAN 12 P.M.

COMPANY NAME:

TRC SOLUTIONS

BILL TO:

(If Different Location)

4120 SE International Way, Suite A110

Phoenix, AZ

Milwaukie, Oregon 97086

CONTACT:

Ron Landolt Scan & Excel

Phone/Fax:

(503) 387-3251 / (503) 908-1318

Email:

rlandolt@trcsolutions.com and mcuda@trcsolutions.com

Now Accepting:

VISA - MASTERCARD

Price Quoted: \$ / Sample \$ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. TURNAROUND TIME: [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. DISPOSAL INSTRUCTIONS: [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. Project Name: BSD - Arts & Communication Academy (ACMA)

P.O. Number:

Project Number: 293358

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	ACMA-34A	1/11/17	Corrugated Pipe Insulation	Y N			
2	-34B		Boiler Room Tunnel	Y N			
3	-34C			Y N			
4	-35A		Pink 12"x12" Floor Tile & Glue	Y N			
5	-35B		Staff Restroom	Y N			
6	-35C			Y N			
7	-36A		Carpet Glue	Y N			
8	-36B			Y N			
9	-36C			Y N			
10	-37A		1"x1" Ceiling Tile Glue	Y N			
11	-37B		Entry	Y N			
12	-37C			Y N			
				Y N			
				Y N			
				Y N			

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Jason Stone(Signature) Jason StoneRelinquished by: Jason StoneDate/Time: 1/11/17 1500Received by: Dianna FedericoDate/Time: 1/12/18 935Relinquished by: Dianna FedericoDate/Time: 1/12/18 1400Received by: JLLDate/Time: 1/12/18

Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



BULK ASBESTOS ANALYSIS REPORT

CLIENT: Beaverton School District

Lab Log #: 0051820
Project #: 293358.0000.0000
Date Received: 01/15/2018
Date Analyzed: 01/15/2018

Site: Arts & Communication Magnet Academy, Beaverton, OR

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
ACMA-38A	White (tape)	No	Yes	1	- - -	ND	None
ACMA-38A	White (plaster)	No	Yes	2	- - -	ND	None
ACMA-38A	Brown (fiber board)	No	Yes	3	99% cellulose	ND	None
ACMA-38B	White (tape)	No	Yes	1	- - -	ND	None
ACMA-38B	White (plaster)	No	Yes	2	- - -	ND	None
ACMA-38B	Brown (fiber board)	No	Yes	3	99% cellulose	ND	None
ACMA-38C	White (tape)	No	Yes	1	- - -	ND	None
ACMA-38C	White (plaster)	No	Yes	2	- - -	ND	None
ACMA-38C	Brown (fiber board)	No	Yes	3	99% cellulose	ND	None

Reporting limit- asbestos present at 1%

ND - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2018. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by:

K. Williamson
Kathleen Williamson, Laboratory Manager

Reviewed by:

Cathryn Lemire
Cathryn Lemire, Approved Signatory

Date Issued

01/16/2018

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122
VT #AL014538 LA#05011
PHIL# 461

CT #PH-0426
VA #3333 000283
PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980
NJ #CT004

WV# LT000411
CA #2907



Inspector Signature: _____

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Edgar

[illegible]

Read by: <i>W. H. H. H.</i>	1/5/18	0900
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5-1820

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Laboratory Report

0213967

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-001 ACMA-39A	DANCE STUDIO	LAYER 1 Mastic, Black	Yes	Chrysotile 8%	Carbonates Gypsum Quartz Binder/Filler 92%
		LAYER 2 Mastic, Brown	No	None Detected	Cellulose Fiber 2% Carbonates Quartz Binder/Filler 98%
	DANCE STUDIO	LAYER 1 Mastic, Black	Yes	Chrysotile 5%	Carbonates Gypsum Quartz Binder/Filler 95%
		LAYER 2 Mastic, Brown	No	None Detected	Cellulose Fiber 2% Synthetic Fiber 1% Carbonates Quartz Binder/Filler 97%
0213967-003 ACMA-39C	DANCE STUDIO	LAYER 1 Mastic, Black	Yes	Chrysotile 8%	Carbonates Gypsum Quartz Binder/Filler 92%
		LAYER 2 Mastic, Brown	No	None Detected	Cellulose Fiber 2% Carbonates Quartz Binder/Filler 98%
	DANCE STUDIO	LAYER 1 Mastic, Black	Yes	Chrysotile 8%	Carbonates Gypsum Quartz Binder/Filler 92%
		LAYER 2 Mastic, Brown	No	None Detected	Cellulose Fiber 2% Carbonates Quartz Binder/Filler 98%

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NVLAP#101926-0

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	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-004 ACMA-40A	DANCE STUDIO	LAYER 1	No	None Detected	Cellulose Fiber 20%
		Univent Vinyl, Beige/ Gray/ Tan			Carbonates Quartz Binder/Filler 80%
		LAYER 2			Cellulose Fiber 5%
		Glue, Brown			Carbonates Quartz Binder/Filler 95%
0213967-005 ACMA-40B	A136	LAYER 1	No	None Detected	Cellulose Fiber 20%
		Univent Vinyl, Beige/ Gray/ Tan			Carbonates Quartz Binder/Filler 80%
		LAYER 2			Cellulose Fiber 3%
		Glue, Brown			Carbonates Quartz Binder/Filler 97%
0213967-006 ACMA-40C	A134	LAYER 1	No	None Detected	Cellulose Fiber 20%
		Univent Vinyl, Beige/ Gray/ Tan			Carbonates Quartz Binder/Filler 80%
		LAYER 2			Cellulose Fiber 5%
		Glue, Brown			Carbonates Quartz Binder/Filler 95%
0213967-007 ACMA-41A	HALLWAY	Wood Panel Glue, Yellow	No	None Detected	Cellulose Fiber 1%
					Carbonates Quartz Binder/Filler 99%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-008 ACMA-41B	HALLWAY	Wood Panel Glue, Yellow	No	None Detected	Cellulose Fiber 3% Carbonates Quartz Binder/Filler 97%
0213967-009 ACMA-41C	HALLWAY	Wood Panel Glue, Yellow	No	None Detected	Cellulose Fiber 1% Carbonates Quartz Binder/Filler 99%
0213967-010 ACMA-42A	A136	Sink Undercoating, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0213967-011 ACMA-42B	A134	Sink Undercoating, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0213967-012 ACMA-42C	A132	Sink Undercoating, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0213967-013 ACMA-43A	A136	Counter Top Glue, Yellow	No	None Detected	Cellulose Fiber 3% Carbonates Binder/Filler 97%
0213967-014 ACMA-43B	A134	Counter Top Glue, Yellow	No	None Detected	Cellulose Fiber 3% Carbonates Binder/Filler 97%

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	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-015 ACMA-43C	A132	Counter Top Glue, Yellow	No	None Detected	Cellulose Fiber 3% Carbonates Binder/Filler 97%
0213967-016 ACMA-44A	A136	LAYER 1 Gypsum Board, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
		LAYER 2 Joint Compound/ Paint, White/ Off White	No	None Detected	Carbonates Perlite Mica Quartz Binder/Filler 100%
0213967-017 ACMA-44B	A104	LAYER 1 Gypsum Board, White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%
		LAYER 2 Joint Compound/ Paint, White/ Off White	No	None Detected	Carbonates Perlite Mica Quartz Binder/Filler 100%
0213967-018 ACMA-44C	A104	Gypsum Board, White/ Brown Note: No Joint Compound Present	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Carbonates Mica Quartz 88%

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	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-019 ACMA-45A	A132	Univent Counter Top Glue, Tan	No	None Detected	Carbonates Quartz Binder/Filler 100%
0213967-020 ACMA-45B	A130	Univent Counter Top Glue, Tan	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 99%
0213967-021 ACMA-45C	A132	Univent Counter Top Glue, Tan	No	None Detected	Cellulose Fiber Synthetic Fiber Carbonates Quartz Binder/Filler 98%
0213967-022 ACMA-46A	A140	LAYER 1 Corkboard, Brown Note: No Glue Present	No	None Detected	Cellulose Fiber Carbonates Gypsum Binder/Filler 10%
		LAYER 2 Corkboard Cover, White	No	None Detected	Cellulose Fiber Synthetic Fiber Carbonates Quartz Binder/Filler 45%
0213967-023 ACMA-46B	A142	LAYER 1 Corkboard, Brown Note: No Glue Present	No	None Detected	Cellulose Fiber Carbonates Gypsum Binder/Filler 10%
		LAYER 2 Corkboard Cover, White	No	None Detected	Cellulose Fiber Synthetic Fiber Carbonates Quartz Binder/Filler 45%

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NVLAP#101926-0

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	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-024 ACMA-46C	HALLWAY	LAYER 1 Corkboard, Brown	No	None Detected	Cellulose Fiber 90% Carbonates Gypsum Binder/Filler 10%
		LAYER 2 Corkboard Cover, White	No	None Detected	Cellulose Fiber 30% Synthetic Fiber 25% Carbonates Quartz Binder/Filler 45%
		LAYER 3 Glue, Yellow	No	None Detected	Cellulose Fiber 1% Carbonates Gypsum Quartz Binder/Filler 99%
0213967-025 ACMA-47A	A142	Sink Undercoating, Gray	No	None Detected	Cellulose Fiber 10% Carbonates Mica Quartz Binder/Filler 90%
0213967-026 ACMA-47B	A128	Sink Undercoating, Gray	No	None Detected	Cellulose Fiber 10% Carbonates Mica Quartz Binder/Filler 90%
0213967-027 ACMA-47C	LIBRARY	Sink Undercoating, Gray	No	None Detected	Cellulose Fiber 10% Carbonates Mica Quartz Binder/Filler 90%

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0213967-028 ACMA-48A	A128	1'x1' Nailed-on Ceiling Tile, White/ Off White Note: Fissures Pattern	No	None Detected	Mineral Wool Carbonates Quartz Gypsum Perlite Binder/Filler	85% 15%
0213967-029 ACMA-48B	A128	1'x1' Nailed-on Ceiling Tile, White/ Off White Note: Fissures Pattern	No	None Detected	Mineral Wool Carbonates Quartz Gypsum Perlite Binder/Filler	85% 15%
0213967-030 ACMA-48C	A128	1'x1' Nailed-on Ceiling Tile, White/ Off White Note: Fissures Pattern	No	None Detected	Mineral Wool Carbonates Quartz Gypsum Perlite Binder/Filler	85% 15%
0213967-031 ACMA-49A	HALLWAY	LAYER 1 Floor Tile, Brown/ Black	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler	3% 97%
		LAYER 2 Glue, Yellow	No	None Detected	Cellulose Fiber Synthetic Fiber Carbonates Quartz Binder/Filler	4% <1% 95%

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Laboratory Report

0213967

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

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Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-032 ACMA-49B	HALLWAY	LAYER 1 Floor Tile, Brown/ Black	No	None Detected	Cellulose Fiber 3% Carbonates Quartz Binder/Filler 97%
		LAYER 2 Glue, Yellow	No	None Detected	Cellulose Fiber 3% Synthetic Fiber <1% Carbonates Quartz Binder/Filler 96%
0213967-033 ACMA-49C	HALLWAY	LAYER 1 Floor Tile, Brown/ Black	No	None Detected	Cellulose Fiber 3% Carbonates Quartz Binder/Filler 97%
		LAYER 2 Glue, Yellow	No	None Detected	Cellulose Fiber 4% Synthetic Fiber <1% Carbonates Quartz Binder/Filler 95%
0213967-034 ACMA-50A	A118	Wall Plaster, White	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Binder/Filler 99%

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Laboratory Report

0213967

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-035 ACMA-50B	A118	LAYER 1 Wall Plaster-Scratch Coat, Gray	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
		LAYER 2 Wall Plaster-Finish Coat, White	No	None Detected	Cellulose Fiber 1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
		LAYER 3 Wall Plaster-Texture/Paint, White/ Green	No	None Detected	Carbonates Quartz Binder/Filler 100%
	BREAK RM	LAYER 1 Wall Plaster-Scratch Coat, Gray	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
		LAYER 2 Wall Plaster-Finish Coat, White	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
		LAYER 3 Wall Plaster-Texture/Paint, White	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Binder/Filler 99%
		LAYER 1 Wall Plaster-Scratch Coat, Gray	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
		LAYER 2 Wall Plaster-Finish Coat, White	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
		LAYER 3 Wall Plaster-Texture/Paint, White	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Binder/Filler 99%

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Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-037 ACMA-51A	STAFF RR 1	LAYER 1 Vinyl Sheet Flooring, Gray/ Beige	No	None Detected	Cellulose Fiber 15% Synthetic Fiber 3% Fibrous Glass 2% Carbonates Quartz Gypsum Binder/Filler 80%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber 3% Synthetic Fiber 1% Fibrous Glass <1% Carbonates Quartz Gypsum Binder/Filler 95%
0213967-038 ACMA-51B	STAFF RR 1	LAYER 1 Vinyl Sheet Flooring, Gray/ Beige	No	None Detected	Cellulose Fiber 15% Synthetic Fiber 3% Fibrous Glass 2% Carbonates Quartz Gypsum Binder/Filler 80%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber 5% Carbonates Quartz Gypsum Binder/Filler 95%

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-039 ACMA-51C	STAFF RR 1	LAYER 1 Vinyl Sheet Flooring, Gray/ Beige	No	None Detected	Cellulose Fiber 15% Synthetic Fiber 3% Fibrous Glass 2% Carbonates Quartz Gypsum Binder/Filler 80%
		LAYER 2 Mastic, Beige	No	None Detected	Cellulose Fiber 3% Synthetic Fiber 1% Fibrous Glass <1% Carbonates Quartz Gypsum Binder/Filler 95%
0213967-040 ACMA-52A		Window Glazing, Off White/ Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
0213967-041 ACMA-52B		Window Glazing, Off White/ Beige	No	None Detected	Carbonates Quartz Binder/Filler 100%
0213967-042 ACMA-52C		Window Glazing, Off White/ Beige	Yes	Chrysotile 2%	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 97%
0213967-043 ACMA-53A	ROOF HATCH	Vapor Barrier, Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-044 ACMA-53B	ROOF HATCH	Vapor Barrier, Black	No	None Detected	Fibrous Glass Synthetic Fiber Carbonates Quartz Binder/Filler 15% 5% 80%
0213967-045 ACMA-53C	ROOF HATCH	Vapor Barrier, Black	No	None Detected	Fibrous Glass Synthetic Fiber Carbonates Quartz Binder/Filler 15% 5% 80%
0213967-046 ACMA-54A	LIBRARY	Roof Mastic, Black	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 1% 99%
0213967-047 ACMA-54B	LIBRARY	Roof Mastic, Black	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 1% 99%
0213967-048 ACMA-54C	LIBRARY	Roof Mastic, Black	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler <1% 99%
0213967-049 ACMA-55A	LIBRARY	Roof Paint, Silver	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler <1% 99%
0213967-050 ACMA-55B	FRONT ENTRY	Roof Paint, Silver	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler <1% 99%

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0213967-051 ACMA-55C	A146	Roof Paint, Silver	No	None Detected	Cellulose Fiber	1%
					Carbonates Quartz Binder/Filler	99%
0213967-052 ACMA-56A	CAFETERIA	LAYER 1 Roofing, Gray/ Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler	80%
		LAYER 2 Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler	80%
		LAYER 3 Roofing, Brown/ Gray/ Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler	80%
		LAYER 4 Roofing, Black	No	None Detected	Cellulose Fiber	40%
					Carbonates Quartz Binder/Filler	60%
0213967-053 ACMA-56B	CAFETERIA	LAYER 1 Roofing, Gray/ Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler	80%
		LAYER 2 Roofing, Brown/ Gray/ Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler	80%
		LAYER 3 Roofing, Black	No	None Detected	Cellulose Fiber	40%
					Carbonates Quartz Binder/Filler	60%

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-054 ACMA-56C	CAFETERIA	LAYER 1 Roofing, Gray/ Black	No	None Detected	Fibrous Glass 20%
					Carbonates Quartz Binder/Filler 80%
		LAYER 2 Roofing, Brown/ Gray/ Black	No	None Detected	Fibrous Glass 20%
					Carbonates Quartz Binder/Filler 80%
		LAYER 3 Roofing, Black	No	None Detected	Cellulose Fiber 40%
					Carbonates Quartz Binder/Filler 60%
0213967-055 ACMA-57A	LOWER LEVEL RR	Wall Panel Glue, Tan	No	None Detected	Cellulose Fiber 5%
					Carbonates Gypsum Binder/Filler 95%
0213967-056 ACMA-57B	LOWER LEVEL RR	Wall Panel Glue, Tan	No	None Detected	Cellulose Fiber 5%
					Carbonates Gypsum Binder/Filler 95%
0213967-057 ACMA-57C	LOWER LEVEL RR	Wall Panel Glue, Tan	No	None Detected	Cellulose Fiber 5%
					Carbonates Gypsum Binder/Filler 95%

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Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-058 ACMA-58A	A136	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Cellulose Fiber 15% Synthetic Fiber 3% Fibrous Glass 2% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%
0213967-059 ACMA-58B	A130	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-060 ACMA-58C	A146	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Cellulose Fiber 15% Synthetic Fiber 3% Fibrous Glass 2% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 35% Fibrous Glass 5% Carbonates Gypsum Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-061 ACMA-59A	A148	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Cellulose Fiber 5% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-062 ACMA-59B	A116	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Cellulose Fiber 5% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0213967-063 ACMA-59C	A156	LAYER 1	No	None Detected	Fibrous Glass	10%
		Built-up Roofing, Dk. Gray/ Black			Synthetic Fiber	10%
					Carbonates	
					Quartz	
					Binder/Filler	80%
		LAYER 2	No	None Detected	Cellulose Fiber	30%
		Built-up Roofing, Black			Fibrous Glass	10%
					Synthetic Fiber	5%
					Carbonates	
					Gypsum	
					Quartz	
					Binder/Filler	55%
		LAYER 3	No	None Detected	Cellulose Fiber	40%
		Built-up Roofing, Black			Carbonates	
					Gypsum	
					Binder/Filler	60%
		LAYER 4	No	None Detected	Cellulose Fiber	70%
		Built-up Roofing, Beige/ Tan/ Black			Gypsum	
					Binder/Filler	30%

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-064 ACMA-60A	A108	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 10% Synthetic Fiber 10% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 35% Synthetic Fiber 10% Carbonates Gypsum Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Fibrous Glass 35% Cellulose Fiber 5% Carbonates Gypsum Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan/ Black	No	None Detected	Cellulose Fiber 85% Gypsum Binder/Filler 15%

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Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-065 ACMA-60B	OFFICE	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Carbonates Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 90% Gypsum Binder/Filler 10%
0213967-066 ACMA-60C	A102	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Gypsum Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black/ Brown	No	None Detected	Cellulose Fiber 70% Gypsum Binder/Filler 30%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 90% Gypsum Binder/Filler 10%

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Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-067 ACMA-61A	LIBRARY EAST	LAYER 1 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 15% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Carbonates Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Cellulose Fiber 5% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%
0213967-068 ACMA-61B	LIBRARY NORTH	LAYER 1 Built-up Roofing/ Paint, Silver	No	None Detected	Cellulose Fiber 1% Carbonates Quartz Binder/Filler 99%
		LAYER 2 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 20% Carbonates Quartz Binder/Filler 80%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Carbonates Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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NVLAP#101926-0

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Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-069 ACMA-61C	LIBRARY WEST	LAYER 1 Built-up Roofing/ Paint, Silver	No	None Detected	Cellulose Fiber 3% Carbonates Quartz Binder/Filler 97%
		LAYER 2 Built-up Roofing, Dk. Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Carbonates Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Beige/ Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%
0213967-070 ACMA-62A	BREEZEWAY ENTRY	LAYER 1 Built-up Roofing, Off White/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 55%

EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

0213967

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-071 ACMA-62B	BREEZEWAY ENTRY	LAYER 1 Built-up Roofing, Off White/ Black	No	None Detected	Fibrous Glass 15% Cellulose Fiber 3% Synthetic Fiber 2% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 40% Carbonates Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%
0213967-072 ACMA-62C	STORAGE	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Cellulose Fiber 10% Carbonates Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Laboratory Report

0213967

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-073 ACMA-63A	BOILER EAST	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Carbonates Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-074 ACMA-63B	BOILER NORTH	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 3% Cellulose Fiber 2% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Cellulose Fiber 5% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 60%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Carbonates Quartz Binder/Filler 60%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-075 ACMA-63C	BOILER WEST	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 70% Carbonates Quartz Binder/Filler 30%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%
0213967-076 ACMA-64A	BREEZEWAY	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 70% Carbonates Quartz Binder/Filler 30%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-077 ACMA-64B	BREEZEWAY	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 40% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 70% Carbonates Quartz Binder/Filler 30%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%
0213967-078 ACMA-64C	BREEZEWAY	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 10% Cellulose Fiber 5% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 70% Carbonates Gypsum Binder/Filler 30%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

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Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-079 ACMA-65A	STORAGE 9	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 15% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 70% Carbonates Quartz Binder/Filler 30%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%
0213967-080 ACMA-65B	STORAGE 9/10	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 15% Synthetic Fiber 5% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 15% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 70% Carbonates Quartz Binder/Filler 30%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%

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Laboratory Report
0213967

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	293358
Address:	4105 SE INTERNATIONAL WAY	Date Received:	01/14/2019
	STE 505	Date Analyzed:	01/21/2019
	MILWAUKIE OR 97222		
Collected:	01/10/2019	Date Reported:	01/21/2019
Project Name:	BSD-ARTS & COMMUNICATION	EPA Method:	EPA 600/R-93/116
Address:	MAGNET ACADEMY	Submitted By:	JASON STONE
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0213967-081 ACMA-65C	STORAGE 10	LAYER 1 Built-up Roofing, Gray/ Black	No	None Detected	Fibrous Glass 10% Synthetic Fiber 10% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Built-up Roofing, Black	No	None Detected	Fibrous Glass 30% Synthetic Fiber 15% Carbonates Quartz Binder/Filler 55%
		LAYER 3 Built-up Roofing, Black	No	None Detected	Cellulose Fiber 70% Carbonates Quartz Binder/Filler 30%
		LAYER 4 Built-up Roofing, Tan	No	None Detected	Cellulose Fiber 95% Gypsum Binder/Filler 5%



Analyst - James A. Storm



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(480) 940-5294 Fax (480) 893-1726

LAB#: 213967
TAT: 1 day
Rec'd: JAN 14 P.M.

COMPANY NAME: **TRC SOLUTIONS**
Address: 4105 SE International Way, Suite 505
Milwaukie, Oregon 97222
CONTACT: Ron Landolt **Scan & Excel**
Phone/Fax: (503) 387-3251 / (503) 908-1318
Email: rlandolt@trcsolutions.com and mncuda@trcsolutions.com

BILL TO: (If Different Location)
Phoenix, AZ

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ / Sample \$ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [Same Day Rush] [1-2 Days] 3-4-5 Days [6-10 Days]

****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSP-Arts & Communication Magnet Academy

P.O. Number: Project Number: 293358

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	ACMA-39A		Black Mastic under Wood (Dance Studio)	Y N			
2	-39B		↓	Y N			
3	-39C		↓	Y N			
4	-40A		Univent Vinyl & Glue (Brown) (Dance Rm)	Y N			
5	-40B		(A136)	Y N			
6	-40C		↓ (A134)	Y N			
7	-41A		Wood Panel Glue (Hallway)	Y N			
8	-41B		↓	Y N			
9	-41C		↓	Y N			
10	-42A		White Sink Undercoat (A136)	Y N			
11	-42B		(A134)	Y N			
12	-42C		↓ (A132)	Y N			
13	-43A		Countertop Glue (A136)	Y N			
14	-43B		(A134)	Y N			
15	-43C		↓ (A132)	Y N			

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Jason Stone

(Signature) Jason Stone

Relinquished by: Jason Stone Date/Time: 1/10/19 Received by: Diana Federico Date/Time: 1/14/19

Relinquished by: Diana Federico Date/Time: 1/14/19 Received by: [Signature] Date/Time: 1/14/19

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(480) 940-5294 Fax (480) 893-1726

LAB#:

TAT:

Rec'd:

213467

COMPANY NAME: **TRC SOLUTIONS**

Address: 4105 SE International Way, Suite 505
Milwaukie, Oregon 97222

CONTACT: Ron Landolt **Scan & Excel**

Phone/Fax: (503) 387-3251 / (503) 908-1318

Email: rlandolt@trcsolutions.com and mrcuda@trcsolutions.com

BILL TO: (If Different Location)

Phoenix, AZNow Accepting: **VISA - MASTERCARD**

Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day Rush] [1-2 Days] 3-4-5 Days [6-10 Days]****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense](If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)**4. Project Name:** Arts & Communication Magnet AcademyP.O. Number: _____ Project Number: 293358

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
16	ACMA-44A		Gypsum Board & Joint Compound (A132)	N			
17	-44B		↓	(A104) N			
18	-44C		↓	(A104) N			
19	-45A		Univent Countertop & Glue (White) (A132)	N			
20	-45B		↓	(A130) Y N			
21	-45C		↓	(A132) Y N			
22	-46A		Corkboard & Glue (A140)	Y N			
23	-46B		↓	(A142) Y N			
24	-46C		↓	(Hallway) Y N			
25	-47A		Gray Sink Undercoat (A142)	Y N			
26	-47B		↓	(A128) Y N			
27	-47C		↓	(Library) Y N			
28	-48A		1'x1' Nailed-on Ceiling Tile (A128)	Y N			
29	-48B		(Fissures) ↓	Y N			
30	-48C		↓	↓ N			

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Jason Stone (Signature) Jason Stone

Relinquished by: Jason Stone Date/Time: 1/10/19 Received by: Diana Federico Date/Time: 1/14/19

Relinquished by: Diana Federico Date/Time: 1/14/19 Received by: [Signature] Date/Time: 1/14/19

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

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CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(480) 940-5294 Fax (480) 893-1726

LAB#:

TAT:

Rec'd:

213967

COMPANY NAME: **TRC SOLUTIONS**
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 Milwaukie, Oregon 97222
 CONTACT: Ron Landolt **Scan & Excel**
 Phone/Fax: (503) 387-3251 / (503) 908-1318
 Email: landolt@trcsolutions.com and mouda@trcsolutions.com

BILL TO: (If Different Location)

Phoenix, AZ

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSD - Arts & Communication Magnet Academy

P.O. Number:

Project Number: 293358

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
31	ACMA-49A		Brown/Black Floor Tile & Glue (Hallway)				
32	-49B		(w/circles)	Y N			
33	-49C			Y N			
34	-50A		Wall Plaster (A118)	Y N			
35	-50B			Y N			
36	-50C		(Break Room)	Y N			
37	-51A		Gray Pebble Vinyl (Staff RR1)	Y N			
38	-51B		Sheet Floor	Y N			
39	-51C			Y N			
40	-52A		Window Glazing	Y N			
41	-52B			Y N			
42	-52C			Y N			
43	-53A		Black Vapor Barrier (Roof Hatch)	Y N			
44	-53B			Y N			
45	-53C			Y N			

SPECIAL INSTRUCTIONS:Sample Collector: (Print) Jason Stone

(Signature)

Jason StoneRelinquished by: Jason Stone Date/Time: 11/10/19 Received by: Diana Federico Date/Time: 11/14/19Relinquished by: Diana Federico Date/Time: 11/14/19 Received by: [Signature] Date/Time: 1/14/20

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

CHAIN OF CUSTODY

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9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(480) 940-5294 Fax (480) 893-1726

LAB#:

TAT:

Rec'd:

2/3/97

COMPANY NAME: **TRC SOLUTIONS**
Address: 4105 SE International Way, Suite 505
Milwaukie, Oregon 97222
CONTACT: Ron Landolt **Scan & Excel**
Phone/Fax: (503) 387-3251 / (503) 908-1318
Email: landolt@trcsolutions.com and mowda@trcsolutions.com

BILL TO: (If Different Location)
Phoenix, AZ

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]****Prior confirmation of turnaround time is required

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2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSD - Arts & Communication Magnet Academy**P.O. Number:** _____ **Project Number:** 293358

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
46	ALMA-54A		Roof Mastie (Library)	<u>Y</u> N			
47	-54B		↓	Y N			
48	-54C		↓	Y N			
49	-55A		Silver Paint ^{Roof} (Library)	Y N			
50	-55B		↓ (Front Entry)	Y N			
51	-55C		↓ (A146)	Y N			
52	-56A		3-Tab Roofing (Cafeteria)	Y N			
53	-56B		↓	Y N			
54	-56C		↓	Y N			
55	-57A		Wall Panel Glue (Lower Level RR)	Y N			
56	-57B		↓	Y N			
57	-57C		↓	Y N			
58	-58A		Built-up Roofing (A136)	Y N			
59	-58B		↓ (A130)	Y N			
60	-58C		↓ (A146)	<u>Y</u> N			

SPECIAL INSTRUCTIONS:Sample Collector: (Print) Jason Stone(Signature) Jason StoneRelinquished by: Jason Stone Date/Time: 1/10/19 Received by: Diana Federico Date/Time: 1/14/19Relinquished by: Diana Federico Date/Time: 1/14/19 Received by: [Signature] Date/Time: 1/14/19

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(480) 940-5294 Fax (480) 893-1726

LAB#:

TAT:

Rec'd:

213967

COMPANY NAME: **TRC SOLUTIONS**

Address: 4105 SE International Way, Suite 505
Milwaukie, Oregon 97222

CONTACT: Ron Landolt **Scan & Excel**

Phone/Fax: (503) 387-3251 / (503) 908-1318

Email: landolt@trcsolutions.com and ronlandolt@trcsolutions.com

BILL TO: (If Different Location)

Phoenix, AZNow Accepting: **VISA - MASTERCARD**

Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)

4. Project Name: BSD - Arts & Communication Magnet Academy

P.O. Number:

Project Number: 293358

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
61	ACMA - 59A		Built-up Roofing (A148)	N			
62	-59B		(A116)	N			
63	-59C		(A156)	N			
64	-60A		Built-up Roofing (A108)	N			
65	-60B		(Office)	N			
66	-60C		(A102)	N			
67	-61A		Built-up Roofing Library (E)	N			
68	-61B		(N)	N			
69	-61C		(W)	N			
70	-62A		Built-up Roofing Breese Way Entry	N			
71	-62B		(N)	N			
72	-62C		(W)	N			
73	-63A		Built-up Roofing Storage	N			
74	-63B		Built-up Roofing Boiler (E)	N			
75	-63C		(N)	N			
			(W)	N			

SPECIAL INSTRUCTIONS:Sample Collector: (Print) Jason Stone

(Signature)

Jason StoneRelinquished by: Jason StoneDate/Time: 11/10/19Received by: Diana FedericoDate/Time: 11/14/19Relinquished by: Diana FedericoDate/Time: 11/14/19Received by: [Signature]Date/Time: 11/14/19

Relinquished by: _____ Date/Time: _____

Received by: _____

Date/Time: _____

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BILL TO: (If Different Location)

Phoenix, AZ

Now Accepting: VISA - MASTERCARD

Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day Rush] [1-2 Days] [3-4-5 Days] [6-10 Days]***Prior confirmation of turnaround time is required

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2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]
(If you do not indicate preference, EMC will dispose of samples 30 days from analysis.)**4. Project Name:** BSD - Arts & Communication Magnet Academy

P.O. Number:

Project Number: 293358

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
76	ACMA-64A	1/10/19	Built-up Roofing Breze Way	Y N			
77	-64B			Y N			
78	-64C			Y N			
79	-65A		Built-up Roofing Storage 9	Y N			
80	-65B		Storage 9/10	Y N			
81	-65C		Storage 10	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

SPECIAL INSTRUCTIONS:Sample Collector: (Print) Jason Stone(Signature) Jason StoneRelinquished by: Jason StoneDate/Time: 1/10/19Received by: Diana FedericoDate/Time: 1/14/19Relinquished by: Diana FedericoDate/Time: 1/14/19Received by: [Signature]Date/Time: 1/14/19

Relinquished by: _____ Date/Time: _____

Received by: _____

Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

Appendix C – Inspector Certification(s)

Appendix D – Prior Reports & Documentation

Certificate of Completion

This is to certify that

Jason Stone

has satisfactorily completed
4 hours of refresher training as an
AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

170699

Certificate Number



Dec 12, 2018 Expires in 1 year.

Date(s) of Training

Exam Score (if applicable):

A handwritten signature in black ink, likely belonging to the instructor, written over a horizontal line.

Instructor

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

JASON CHRISTOPHER STONE
650 SE 154TH AVE
PORTLAND OR 97233

CONSTRUCTION CONTRACTORS BOARD
LEAD BASED PAINT RISK ASSESSOR LICENSE
LICENSE NO.: 9151698-RA
EXPIRATION DATE: 10/4/2019

This document certifies that

JASON CHRISTOPHER STONE
650 SE 154TH AVE
PORTLAND OR 97233

is licensed in accordance with Oregon Law as a
Lead Based Paint Risk Assessor

STATE OF OREGON
CONSTRUCTION CONTRACTORS BOARD
LEAD BASED PAINT RISK ASSESSOR LICENSE

LICENSE NUMBER: 9151698-RA

This document certifies that

JASON CHRISTOPHER STONE
650 SE 154TH AVE
PORTLAND OR 97233

is licensed in accordance with Oregon Law as a Lead Based Paint Risk Assessor

License Details:

LICENSE NO.: 9151698-RA
EXPIRATION DATE: 10/4/2019

THIS IS TO CERTIFY THAT

ED GAY

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for

**ASBESTOS INSPECTOR / MANAGEMENT
PLANNER REFRESHER**

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

Course Date:

04/06/2017

Course Location:

Portland, OR

Certificate:

IMR-17-0060A



AHERA is the Asbestos Hazard
Emergency Response Act enacting Title II
of Toxic Substance Control Act (TSCA)

Expiration Date: 04/06/2018

For verification of the authenticity of this
certificate contact:

PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

Gregory M. Baker

Greg Baker, Instructor