

LIMITED SUPPLEMENTAL ASBESTOS AND LEAD PAINT SURVEY REPORT

Highland Park Middle School

**7000 SW Wilson Avenue
Beaverton, OR 97008**

Prepared for:

Beaverton School District

**16550 SW Merlo Road
Beaverton, OR 97006**

Inspection Dates: March 6, 2019

Report Prepared: March 21, 2019

Prepared By:



**4105 SE International Way, Suite 505
Milwaukie, OR 97222
503.387.3251**

TRC Project Number: 332367

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EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) was contracted by the Beaverton School District to conduct a supplemental asbestos and lead paint survey, including collection of bulk asbestos samples, laboratory analysis, and preparation of a report for Highland Park Middle School located at 7000 SW Wilson Avenue in Beaverton, Oregon 97008. Mr. Matt Cuda, AHERA accredited building inspector and Mr. Ron Landolt, lead risk assessor, performed the survey on March 6th, 2019. 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.

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 Lab Countertops
- Gypsum Wallboard/ Joint Compound (Previously Sampled)
- Vinyl Floor Tile (Previously Sampled)
- Boiler Door Insulation (Previously Sampled)
- Hard Fittings on Fiberglass Pipe Insulation (Previously Sampled)
- Mag Block Insulation (Previously Sampled)
- Mag Pipe Insulation (Previously Sampled)
- Exterior Window Caulk (Previously Sampled)
- Cove Base Mastic (Previously Sampled)
- Mastic (Splash Guards) (Previously Sampled)
- Window Glazing Compound (Previously Sampled)
- Ceramic Tile Mastic, Brown (Previously Sampled)
- Ceramic Tile Grout, White (Previously Sampled)
- Pipe Insulation (Previously Sampled)
- Duct Felt Tape (Previously Sampled)
- Air Cell Duct Insulation (Previously Sampled)

The following materials sampled during this investigation and prior investigations were identified as OSHA Regulated Materials (OSHA):

- Brown Cove Base Glue

Additionally, any materials uncovered during renovation 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/GLAZING 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 one (1) mg/cm², but greater than the laboratory or XRF detection limit is considered to be a lead-containing paint.

The paint chip sample collected in conjunction with this survey contained lead in concentrations above the laboratory limits, however it is not considered to be a lead-based paint.

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

INTRODUCTION

A supplemental asbestos and lead paint survey was conducted by TRC at Highland Park Middle School, located at 7000 SW Wilson Avenue in Beaverton, Oregon. It was reported by the client that this limited hazardous materials survey is being conducted in conjunction with their HVAC renovation project. The survey activities were performed on March 6th, 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 Diagrams in Appendix A.

Mr. Matt Cuda, AHERA accredited building inspector and Mr. Ron Landolt, lead risk assessor, conducted the 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 EMC Labs, Inc., in Phoenix, Arizona, a National Voluntary Laboratory Accreditation Program (NVLAP code #101424-0).

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 Housing and Urban Development (HUD) as any paint, varnish, stain, or other applied coating that has one (1) 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 one (1) mg/cm², but greater than the laboratory detection limit is considered to be a lead-containing paint.

Laboratory services were provided by EMC Labs, Inc., in Phoenix, Arizona, a National Voluntary Laboratory Accreditation Program (NVLAP) certified laboratory (NVLAP code #101926-O). 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
HPMS-01A HPMS-01B HPMS-01C	Gray Duct Seam Mastic	Mechanical Room Above C-16	ND	N/A
HPMS-02A HPMS-02B HPMS-02C	Countertop Glue, Yellow	Throughout C Hallway	ND	N/A
HPMS-03A HPMS-03B HPMS-03C	Lab Countertop	Throughout Lab Classrooms	20% Chrysotile	2,160 SF
HPMS-04A HPMS-04B HPMS-04C	Brown Cove Base and Associated Brown Glue	Throughout	Cove – ND Glue – <1% Tremolite	1,800 LF

ND = Non-detect

SF = Square feet

LF = Linear Feet

N/A = Not Applicable

Sample No.	Material	Sample Location	Asbestos Content	Approximate Quantity
HPMS-05A HPMS-05B HPMS-05C	Countertop Glue, Yellow	Throughout B Hallway	ND	N/A
HPMS-06A HPMS-06B HPMS-06C	Countertop Glue, Yellow	Throughout A Hallway	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
Lab Countertop	Throughout Lab Classrooms	2,160 SF
Gypsum Wallboard/ Joint Compound	Throughout	Unknown – Prior Report
Vinyl Floor Tile	Classroom 3	Unknown – Prior Report
Boiler Door Insulation	Boiler Room	Unknown – Prior Report
Hard Fittings on Fiberglass Pipe Insulation	Throughout	Unknown – Prior Report
Mag Block Insulation	Boiler Room, Tunnel System	Unknown – Prior Report
Mag Pipe Insulation	Boiler Room, Tunnel System	Unknown – Prior Report
Exterior Window Caulk	C13	Unknown – Prior Report
Cove base Mastic	C13	Unknown – Prior Report
Mastic (Splashguards)	C13	Unknown – Prior Report
Window Glazing Compound	C13	Unknown – Prior Report
Ceramic Tile Mastic	Boys Restroom 3	Unknown – Prior Report
Ceramic Tile Grout, White	Boys Restroom 3	Unknown – Prior Report
Duct Felt Tape	Mechanical Loft	Unknown – Prior Report
Air Cell Duct Insulation	Room B-14	Unknown – Prior Report

OSHA Regulated Materials (<1.0%)

Material	Approximate Location(s)	Approximate Quantity
Brown Cove Base and Associated Brown Glue	Throughout	1,800 LF

Non-Detect Materials (ND)

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

Material	Location
Gray Duct Seam Mastic	Mechanical Room Above C-16
Countertop Glue, Yellow	Throughout C Hallway
Countertop Glue, Yellow	Throughout B Hallway
Countertop Glue, Yellow	Throughout A Hallway
Glued- On Ceiling Tiles, 1' x 1' random fissures with brown mastic	A Hallway, B Hallway, C Hallway, A10, C13, CR 1, Main Lobby, Music Room,
Hard Fitting Insulation	Attic above workroom
Silver Paint	Boiler Room

Material	Location
Gasket	Boiler Room
End Cap	Boiler Room
Boiler Insulation	Boiler Room
Built-up Roofing (asphaltic)	Cafeteria, Gymnasium, Main Roof
Paneling	Cafeteria
Cove Base Mastic	Classroom 3, Classroom 7, Office A203, Reception
Caulk	Classroom 3 and 4
Miscellaneous Curtain	CR 3 and CR 4
Miscellaneous Grout	CR 3
Lay-in Ceiling Tile	CR 3, Office A203
Settled Dust	Hallway by Kitchen
Fire Brick	Boiler Room
Formica Countertop Glue	C13
Wainscot Mastic	C13
Roof Penetration Sealant	Main Roof Center
Sheet Floor Covering	Reception
Formica	Room B-10
Countertop	Room B-14

Due to the Site being an occupied building at the time of the inspection and sampling, a full destructive investigation for concealed materials was not performed. Hidden building materials (e.g., old floor mastic patches hidden under carpeting, chalkboard mastic, mirror mastic, wood paneling mastic, etc.), other than those discussed in this report, could be uncovered when removing building finishes during renovation activities. Any materials encountered during the renovation 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
HPMS-P-01	Beige Interior Paint –Boiler Room	0.045%	LCP

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

The paint chip sample collected in conjunction with this survey contained lead in concentrations above the laboratory limits, however it is not considered to be a lead-based paint.

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

RECOMMENDATIONS

All identified asbestos containing materials from this investigation and previous investigations must be removed by a licensed asbestos abatement contractor prior to them being impacted by 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.

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 asbestos and lead paint survey report is designed to aid the property owner, architect, construction manager, general contractor, and asbestos abatement contractor in locating potential ACMs. 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



Matthew Cuda
Project Manager



Ron Landolt, CAC
NW Region BSI Practice Manager




Appendix A – Figure(s)

D

SAMPLE LOCATION

ASBESTOS-CONTAINING SAMPLE LOCATION

OSHA REGULATED MATERIAL SAMPLE LOCATION

-  SAMPLE LOCATION
 ASBESTOS-CONTAINING SAMPLE LOCATION
 OSHA REGULATED MATERIAL SAMPLE LOCATION



ENCLOSURE NUMBER

7

SAMPLE LOCATION MAP

Highland Park Middle School
7000 SW Wilson Avenue
Beaverton, Oregon 97008

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



March 2010

March 2019

332367

MC	SC
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RL

DATE _____

DATE	OBJECT NO.
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OBJECT NO.	
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RAWN BY	
ECKED BY	

HECKED BY	
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Appendix B – Laboratory Analytical Data Sheets

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

0216747

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	TRC SOLUTIONS	Job# / P.O. #:	332367.0001
Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0216747-001 HPMS-01A	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-002 HPMS-01B	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-003 HPMS-01C	MECHANICAL RM ABOVE C-16	Duct Seam Mastic, Gray	No	None Detected	Carbonates Binder/Filler	100%
0216747-004 HPMS-02A	RM C-1	LAYER 1 Counter Top, White/ Tan	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	95% 5%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	<1% 99%
0216747-005 HPMS-02B	RM C-5	LAYER 1 Counter Top, White/ Tan	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	95% 5%
		LAYER 2 Mastic, Yellow	No	None Detected	Cellulose Fiber Gypsum Binder/Filler	3% 97%

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NVLAP#101926-0

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Address:	4105 SE INTERNATIONAL WAY, STE 505	Date Received:	03/11/2019
	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0216747-006 HPMS-02C	RM C-2	LAYER 1	No	None Detected	Cellulose Fiber
		Counter Top, White/ Tan			95%
					Gypsum Binder/Filler
					5%
		LAYER 2	No	None Detected	Cellulose Fiber
		Mastic, Yellow			10%
					Gypsum Binder/Filler
					90%
0216747-007 HPMS-03A	RM C-8	Counter Top, Black	Yes	Chrysotile	20%
					Carbonates Quartz Binder/Filler
					80%
0216747-008 HPMS-03B	RM B-8	Counter Top, Black	Yes	Chrysotile	20%
					Carbonates Quartz Binder/Filler
					80%
0216747-009 HPMS-03C	RM A-6	Counter Top, Black	Yes	Chrysotile	20%
					Carbonates Quartz Binder/Filler
					80%
0216747-010 HPMS-04A	RM C-8	LAYER 1	No	None Detected	Carbonates Quartz Binder/Filler
		Cove Base, Brown/ Tan			100%
		LAYER 2	No	None Detected	Gypsum Carbonates Binder/Filler
		Mastic, Brown			100%

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Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0216747-011 HPMS-04B	RM B-8	LAYER 1 Cove Base, Brown/ Tan	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Brown	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 99%
		LAYER 1 Cove Base, Brown/ Tan	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Mastic, Brown	Yes	Tremolite <1%	Talc Non-Fibrous Tremolite Gypsum Quartz Binder/Filler 2% 2% 95%
0216747-013 HPMS-05A	RM B-8	LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
		LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
0216747-014 HPMS-05B	RM B-5	LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%
		LAYER 1 Counter Top, Green/ Tan	No	None Detected	Cellulose Fiber Gypsum Carbonates Binder/Filler 85% 15%
		LAYER 2 Mastic, Yellow	No	None Detected	Gypsum Binder/Filler 100%

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Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0216747-015 HPMS-05C	RM B-4	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-016 HPMS-06A	RM A-12	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-017 HPMS-06B	RM A-9	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, Green/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%
0216747-018 HPMS-06C	RM A-4	LAYER 1	No	None Detected	Cellulose Fiber	85%
		Counter Top, White/ Tan			Gypsum Carbonates Binder/Filler	15%
		LAYER 2			Cellulose Fiber	<1%
		Mastic, Yellow			Gypsum Binder/Filler	99%

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Laboratory Report

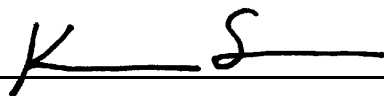
0216747

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	MILWAUKIE OR 97222	Date Analyzed:	03/14/2019
Collected:	03/06/2019	Date Reported:	03/14/2019
Project Name:	BSD-HIGHLAND PARK MIDDLE	EPA Method:	EPA 600/R-93/116
Address:	SCHOOL	Submitted By:	MATT CUDA
		Collected By:	

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



Analyst - Kenneth Scheske



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#: 216747
TAT: 3day
Rec'd: MAR 11 P.M.

COMPANY NAME: **TRC SOLUTIONS**
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 mcuda@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: [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- Highland Park Middle School

P.O. Number: _____ **Project Number:** 332367.0001

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS		
					ON	OFF	FLOW RATE
1	HPMS-01A	3-6-19	See Attached Field Logs	Y N			
				Y N			
				Y N			
				Y N			
				Y N			
18	HPMS-06C			Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			
				Y N			

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Math Cuda

(Signature) Math Cuda

Relinquished by: Math Cuda

Date/Time: 3-8-19 1600

Received by: Diana Federico

Date/Time: 3/11/19 1935

Relinquished by: Diana Federico

Date/Time: 3/11/19 8:10

Received by: [Signature]

Date/Time: 3/11/19 1510

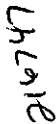
Relinquished by: _____

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.



Project #: 332367

Inspector Name and License #:

Name: Highland Park M.S. HVAC upgrade

Date of Inspection: 3-6-19

Location: 7000 SW Wilson Avenue, Beaverton, OR Inspector Signature:

Page 1 of 1

[illegible]



9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES
EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #: L74040		DATE RECEIVED: 03/11/19			
CLIENT: TRC Solutions		REPORT DATE: 03/14/19			
		DATE OF ANALYSIS: 03/13/19			
CLIENT ADDRESS: 4105 SE International Way, Suite 505 Milwaukie, OR 97222		P.O. NO.:			
PROJECT NAME: BSD – Highland Park Middle School		PROJECT NO.: 332367.0001			
EMC # L74040-	SAMPLE DATE /19	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
1	03/06	HPMS-P-01	Beige Interior Paint – Boiler Room	0.010	0.045

^ = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results **BRL** = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. 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. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition 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. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST:

Jason Thompson

QA COORDINATOR:

Kurt Kettler

CHAIN OF CUSTODY

EMC Labs, Inc.

9830 S. 51st St., Ste B-109

Phoenix, AZ 85044

(800) 362-3373 Fax (480) 893-1726

LAB#:

TAT:

Rec'd:

COMPANY NAME: **TRC SOLUTIONS**

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 mcuda@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: [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– Highland Park Middle School

P.O. Number: **Project Number:** 332367.0001

[illegible]

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Math Cuda

(Signature)

Relinquished by: [Signature] Date/Time: 3-8-19 1600

Received by: L. V. 4 C

Date/Time: 3/11/19

Relinquished by: N. Payne Date/Time: 3/11/19

Received by: [Signature]

Date/Time: 3/24/8

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)

The Environmental Institute

Matthew Cuda

Social Security Number - XXX-XX-8274
TRC - 4105 SE International Way #505 - Milwaukie, Oregon 97222

*Has completed coursework and satisfactorily passed
an examination that meets all criteria required for
EPA/AHERA/ASHARA (TSCA Title II) Approved Reaccreditation*

Asbestos in Buildings: Inspector Refresher

February 1, 2019

Course Date

17225

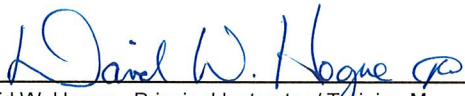
Certificate Number

February 1, 2019

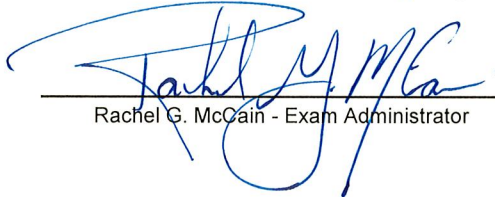
Examination Date

January 31, 2020

Expiration Date



David W. Hogue - Principal Instructor / Training Manager



Rachel G. McCain - Exam Administrator



(Approved by the ABIH Certification Maintenance Committee for 1/2 CM point - Approval #11-577)

(Florida Provider Registration Number FL49-0001342 - Course #FL49-0002805)

TEI - 1841 West Oak Parkway, Suite F - Marietta, Georgia 30062 - (770) 427-3600 - www.tei-atl.com

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

LICENSE NUMBER: 9152079-RA

This document certifies that

RONALD ALAN LANDOLT
4105 SE INTERNATIONAL WAY STE 505
MILWAUKIE OR 97222

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

License Details:

LICENSE NO.: 9152079-RA
EXPIRATION DATE: 10/24/2019