



ENVIRONMENTAL SERVICE GROUP JOB # AS-1907

ASBESTOS INSPECTION REPORT

COMMERCIAL PROPERTY

**509 9TH AVE. NORTH
MYRTLE BEACH, SC**



Prepared For:

**City of Myrtle Beach
Construction Services
ATTN: Chris Lee
843.918.1111
843.602.2635**

Prepared By:

**Jeremy Hudson
Environmental Service Group
P.O. Box 2798
Myrtle Beach, SC 29578
843-742-1344**

24 July 2019

TABLE OF CONTENTS

1.0	Signature Page
2.0	Executive Summary
3.0	Scope of Work
4.0	Material Data Tables
	4.1 Suspect Material Data Table
	4.2 Building Materials
5.0	Conclusions
6.0	Recommendations

APPENDICES

SITE PLAN

PHOTOGRAPHS

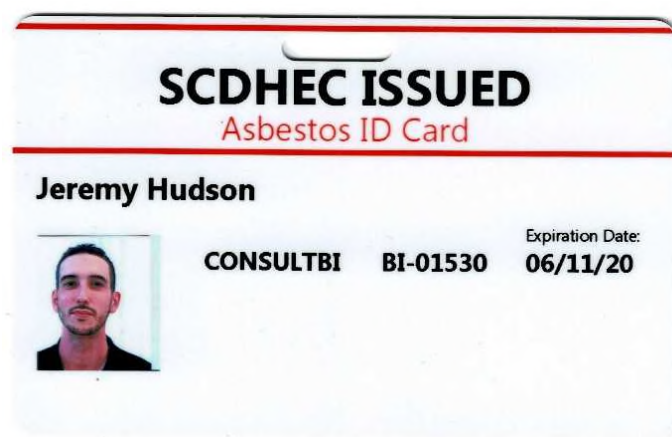
LABORATORY RESULTS

Section 1.0

Signature Page

This report, entitled Inspection Report: Commercial Property – 509 9th Ave. North in Myrtle Beach, SC has been prepared, at the request of Chris Lee, of the City of Myrtle Beach, by Environmental Service Group (ESG). The inspection was conducted by and the report was prepared and reviewed by the undersigned.

Inspection Conducted By:	SC-DHEC #	License Expiration Date	Signature	Date
Jeremy Hudson	BI-01530	06/11/2020		05/23/2019
Report Prepared By:	SC-DHEC #	License Expiration Date	Signature	Date
Jeremy Hudson	BI-01530	06/11/2020		07/24/2019



Section 2.0

Executive Summary

As authorized by Chris Lee, ESG conducted an Asbestos Survey of the facility on Thursday May 23, 2019. The purpose of this survey was to identify any Asbestos Containing Building Materials (ACBM's) within the structure. The facility has been vacant for some time and is scheduled for future demolition.

The subject building, total approximately 4,853 Sq Ft ± is a single story commercial structure with previous use unknown. The facility consisted of one large open space, spanning from front to back. There were no indications that it had ever been utilized for the manufacturing and/or storage of materials that would be considered a threat to human health, however, multiple containers containing oils/lubricants were identified throughout the structure. Information gained would indicate that the building was constructed in 1950.

A visual description of building materials found within the facility would include floor coverings of *12x12 Floor Tiles w/Mastic, and two layers of *9x9 Floor Tiles w/Mastic. Ceiling coverings consisted of non-suspect exposed wooden roof decking. Interior walls consisted of Brick and Mortar w/*Plaster-Like Wall Covering. There was no insulation observed within the interior wall cavities. The roof consisted of a Build-Up Roof System with multiple layers of *Asphalt/Tar-Like Membrane and *Asphalt/Tar Flashing.

NOTE: Materials with * were suspect of containing asbestos and were sampled.

Asbestos Assessment: There were materials suspect of being Asbestos Containing Building Materials (ACBMs).

During the asbestos survey, a total of twenty-two (22) samples of suspect/unknown building materials were collected and submitted for laboratory analysis by Polarized Light Microscopy (PLM) and the Point Count Method.

((((Asbestos Containing Building Materials (ACBMs) WERE identified within the facility.))))

***HA1 – 9x9 Floor Tiles (Bottom Layer) – 5% Chrysotile Present in Floor Tile, 2% Chrysotile in Mastic**

***HA2 – 9x9 Floor Tiles (Middle Layer) – 5% Chrysotile Present in Floor Tile, 7% Chrysotile in Mastic**

***HA3 – 12x12 Floor Tiles (Top Layer) – Positive by Association with HA1 and HA2**

^see Section 3(Site Plan) and Section 4.1 for details

***These materials are currently classified as Friable Asbestos Containing Building Materials (ACBMs) and will need to be removed by a South Carolina Licensed Abatement Contractor.**

If desired, *Environmental Service Group* will assist in preparing, an *Asbestos Abatement Project Licenses Application* (DHEC form 3430) and a *Notification of Demolition* (DHEC Form 3428), and forward them to the South Carolina Department of Health and Environmental Control-Asbestos Division for action as appropriate. The projected date for approval to proceed will be approximately ten (10) working days after date of posting.

This report is based on a non-destructive survey of an unfamiliar site. Every effort was made to locate the presence of asbestos containing building materials (ACBMs) within the areas included in the survey. It is recognized that construction techniques often create inaccessible void spaces, which without destructive sampling techniques being employed, would not be accessed during this survey. It must therefore be assumed that ACBMs other than those located within the survey may exist within the facility.

For the reasons set above, we cannot give assurances that all asbestos containing materials have been located and as such we recommend that further sampling be undertaken should these areas become accessible during the course of any future renovation and/or demolition activities.

Jeremy Hudson

Consultant

SCDHEC Accreditation # BI-01530

Section 3.0

Scope of Work

Environmental Service Group utilized only SCDHEC licensed and AHERA certified asbestos building inspectors, management planners and/or project designers, as needed, to complete the project. The laboratory utilized, EHS Laboratories, is accredited IAW 40 CFR 163 & FR/ Vol. 52. No. 210_763.91 Analysis.

Visual Inspection

An initial building walk-through was conducted to determine the presence and condition of suspect materials that were accessible and/or exposed. Materials which were visually similar in color, texture, and general appearance, and which appeared to have been installed at the same time were grouped into homogeneous sampling areas. Such materials are termed “homogeneous materials” by the EPA. During this walk-through, the approximate locations of the observed homogeneous materials were noted. Only materials that were accessible and/or exposed and suspected to contain asbestos were identified. Following the EPA inspection protocol, each identified suspect homogeneous material may be placed in one of the following EPA classifications:

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

Sampling Procedures

Following the visual survey, the inspector collected representative samples of exposed and/or accessible materials identified as suspect ACM. Sampling was limited to those accessible materials not involving wholesale destruction of walls, other building elements, physical barriers, or the structural integrity of the component being tested.

General EPA guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous materials.

Quantification

Quantities of accessible and/or exposed building materials that were identified as suspect asbestos-containing materials were estimated. This estimation was conducted by taking approximate measurements in the field.

Quantities are estimates and should be confirmed by an engineering survey if demolition activities are contemplated. The level of detail provided by an engineering survey, which is required for a construction estimate, is beyond the scope of the present survey.

Material Assessment

The condition of the suspect material is an indication of the likelihood that it may release asbestos fibers in to the environment. The combination of its current condition coupled with the potential for damage to the material in the future determines which EPA response priority is appropriate for that material.

The condition of each homogeneous suspect material identified within the facility was assessed using the EPA decision tree approach. The friability of each material was determined and then its condition and potential for future damage was assessed using the following criteria:

Source and type of damage

- Physical contact
- Water or air erosion
- Deterioration or material delamination

Extent of damage:

- Good: No damage or little damage
- Damaged: Less than 10% damage, evenly distributed over the entire material or less than 25% damage confined to a localized area of the material.
- Significantly damaged: 10% or more damage distributed evenly over the entire material or 25% or more damage within a localized area of the material

Potential for future damage:

- Frequency of access to material
- Height of material
- Location of material in a plenum
- Exposure of material
- Accessibility
- Presence in an area of air movement, vibrations, loud noises

Section 4.0 Material Data Tables

4.1 Suspect Material Data Table

Project Name: AS1907 – Commercial Property
Site: 509 9th Ave. N. Myrtle Beach, SC

Inspector Name: Jeremy Hudson
Date: 24 July 2019

HA #	AC M	MATERIAL DESCRIPTION	CATEGORY	FRIABLE F/NF	QUANTITY SQ FT±	NO. SAMPLE TAKEN	PRESENT CONDITION	POTENTIAL FOR DISTURBANCE	COMMENTS
1	P	9X9 FLOOR TILES W/MASTIC (BOTTOM LAYER)	MISC	F	4,850 SQ FT±	3	SD	PD	5% CHRYSOTILE PRESENT IN TILES 2% CHRYSOTILE PRESENT IN MASTIC
	LOCATION: ZONE 1						NOTE:		
2	P	9X9 FLOOR TILES W/MASTIC (MIDDLE LAYER)	MISC	F	4,250 SQ FT±	3	SD	PD	5% CHRYSOTILE PRESENT IN TILES 7% CHRYSOTILE PRESENT IN MASTIC
	LOCATION: ZONE 1						NOTE:		
3	P/A	12X12 FLOOR TILES W/MASTIC (TOP LAYER)	MISC	F	2,150 SQ FT±	3	SD	PD	POSITIVE BY ASSOCIATION WITH HA1 AND HA2
	LOCATION: ZONE 1						NOTE:		
20	ND	PLASTER WALL COVERING	SURF	--	3,000 SQ FT±	5	SD	LPD	ND
	LOCATION: INTERIOR WALLS						NOTE:		
80	ND	ROOFING MATERIALS – CORE SAMPLES	MISC	--	4,853 SQ FT±	3	G	LPD	ND
	LOCATION: ENTIRE ROOF						NOTE:		
81	ND	ROOFING TAR (INTERIOR ROOF DECK)	MISC	--	<1,000 SQ FT±	3	G	LPD	ND
	LOCATION: EXPOSED ROOF DECK (DRIPPING THROUGH CRACKS)						NOTE:		
	LOCATION:						NOTE:		
	LOCATION:						NOTE:		

(ACM) ASBESTOS FINDINGS P = POSITIVE (%) ND = NON DETECT

PRESENT CONDITION

CATEGORY (SURF) SURFACING, TSI, (MISC) MISCELLANEOUS

G = GOOD (VERY LOCALIZED LIMITED DAMAGE)

D = DAMAGED (DAMAGE < 10% DISTRIBUTED OR < 25% LOCALIZED)

SD = SIGNIFICANTLY DAMAGED (DAMAGE = OR > 10% DISTRIBUTED / 25% LOCALIZED)

POTENTIAL FOR FUTURE DISTURBANCES

LPD = LOW POTENTIAL FOR DISTURBANCE (CONTACT/VIBRATION/AEROSION ALL OF LOW CONCERN)

HA# = HOMOGENOUS AREA NUMBER

PD = POTENTIAL FOR DAMAGE (CONTACT/ VIBRATION/ AIR EROSION OF MODERATE CONCERN)

PSD = POTENTIAL FOR SIGNIFICANT DAMAGE (CONTACT/VIBRATION/AIR EROSION OF HIGH CONCERN)

4.2 Building Materials

Project Name: AS1907 – Commercial Property
 Site: 509 9th Ave. N. Myrtle Beach, SC

Inspector Name: Jeremy Hudson
 Date: 24 July 2019

Floors: All Building Size: 4,853 SQ FT±

<u>BUILDING MATERIALS/ CONSTRUCTION</u>	SQ FT	* Tested for ACM's
<i>EXTERIOR</i>		
STRUCTURE:		CONCRETE FOUNDATION, BRICK&MORTAR WALLS
EXTERIOR COVERING:		BRICK&MORTAR
EXTERIOR COATING:		PAINT
DOORS:		METAL/GLASS
WINDOWS:		STOREFRONT ALUMINUM FRAMED WINDOWS
ROOF MATERIALS:		*ASPHALT TAR FLASHING, *BLACK TAR-LIKE MEMBRANE, *FELT MEMBRANE
ROOF INSULATION:		NONE
EAVES:		NONE
ROOF DRAIN:		PVC
<i>INTERIOR</i>		
FLOOR COVERING:		*9X9 FLOOR TILES W/MASTIC, *9X9 FLOOR TILES W/MASTIC, *12X12 FLOOR TILES W/MASTIC
WALL COVERING:		*PLASTER WALL COVERING, BRICK & MORTAR
CEILING MATERIALS:		NON-SUSPECT EXPOSED ROOF DECKING
WATERPROOFING:		NONE
FIRE DOORS:		NONE
<i>MECHANICAL</i>		
FURNACE/ BOILER JACKET:		NONE
EXHAUST BREECHING:		NONE
PIPE INSULATION		NONE
FITTING INSULATION:		NONE
HEAT SHIELDS:		NONE
EXPANSION TANK INSULATION:		NONE
PIPE INSULATION:		NONE
FITTING INSULATION:		NONE
HVAC DUCTWORK:		NONE
FLEX CONNECTORS:		NONE
<i>NOTE: THERE WERE NO OTHER SUSPECT MATERIALS IDENTIFIED</i>		

Section 5.0

Conclusion

A visual inspection and sampling survey of impacted materials within the facility was conducted in accordance with the general Environmental Protection Agency (EPA) / Asbestos Hazard Emergency Response Act (AHERA) sampling guidelines to determine the presence of exposed and/or accessible suspect asbestos-containing materials.

((((Asbestos Containing Building Materials (ACBMs) WERE identified within the facility.))))

***HA1 – 9x9 Floor Tiles (Bottom Layer) – 5% Chrysotile Present in Floor Tile, 2% Chrysotile in Mastic**

***HA2 – 9x9 Floor Tiles (Middle Layer) – 5% Chrysotile Present in Floor Tile, 7% Chrysotile in Mastic**

***HA3 – 12x12 Floor Tiles (Top Layer) – Positive by Association with HA1 and HA2**

^see Section 3(Site Plan) and Section 4.1 for details

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Jeremy Hudson

Consultant

SCDHEC Accreditation # BI-01530

Section 6.0

Recommendations

It is recommended that notification of the presence of ACMs be provided to personnel engaged in day-to-day activities within the structure.

During demolition activities, if additional materials suspect of containing asbestos are identified, suspend work activities, and contact Richard Eason @ 843.902.4495 or Jeremy Hudson @ 843.742.1344

Jeremy Hudson

Jeremy Hudson
SC DHEC # BI-01530

**F = Friable Non = Non-friable*

**Chry = Chrysotile, Amos = Amosite, Croc = Crocidolite, Anth = Anthophyllite, Trem = Tremolite, Act = Actinolite*

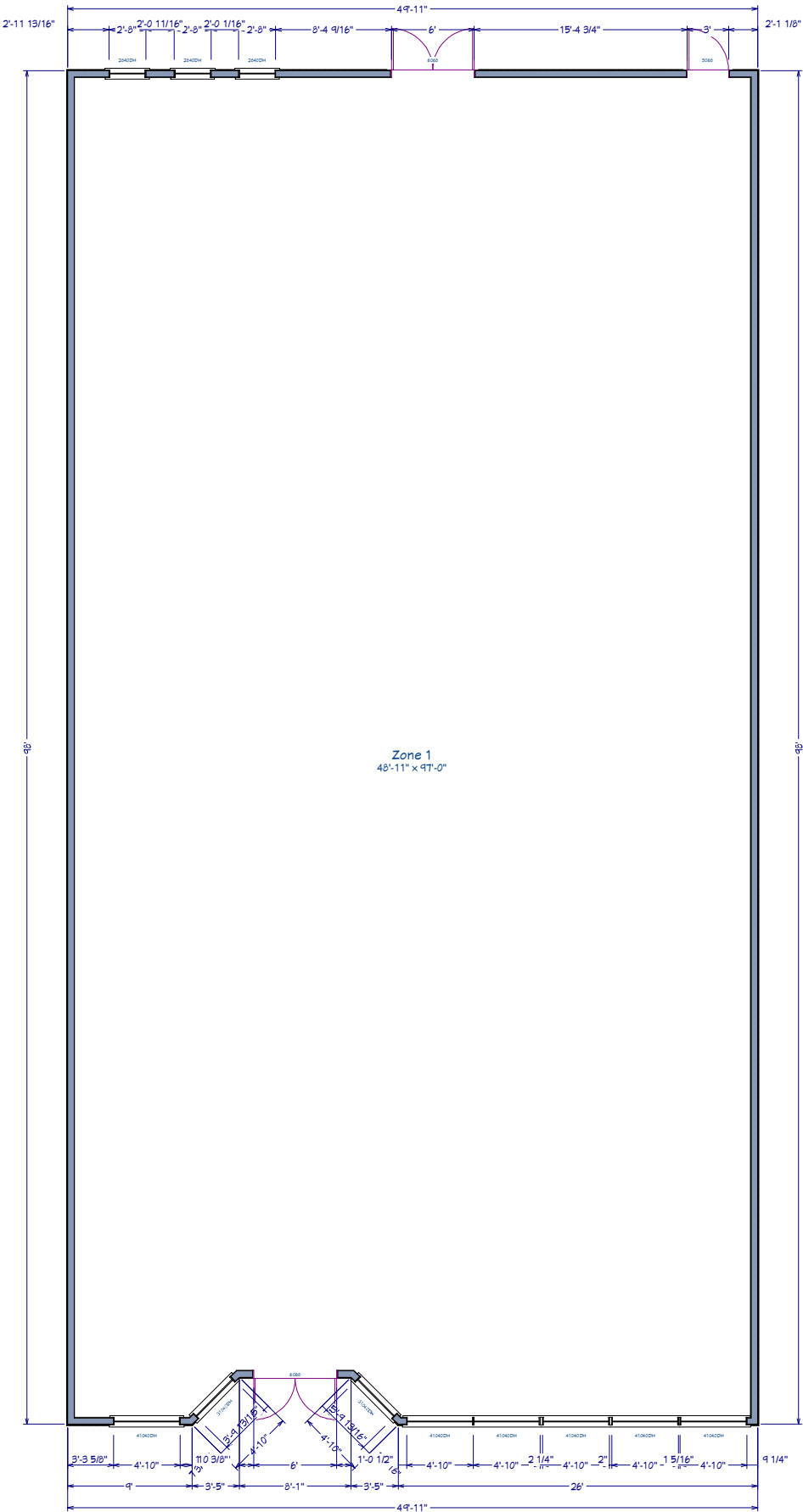
GRAPHICS

GRAPHICS – SITE PLANS

509 9th Ave N. Myrtle Beach, SC
Original Site Plan - Ground Level

ESG - Asbestos Division
Jeremy Hudson
SCDHEC# BI-01530
Exp. 06/11/20

Notes: _____

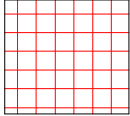


LIVING AREA
4853 sq ft

509 9th Ave N. Myrtle Beach, SC

ACBM Site Plan - Ground Level - Flooring Materials

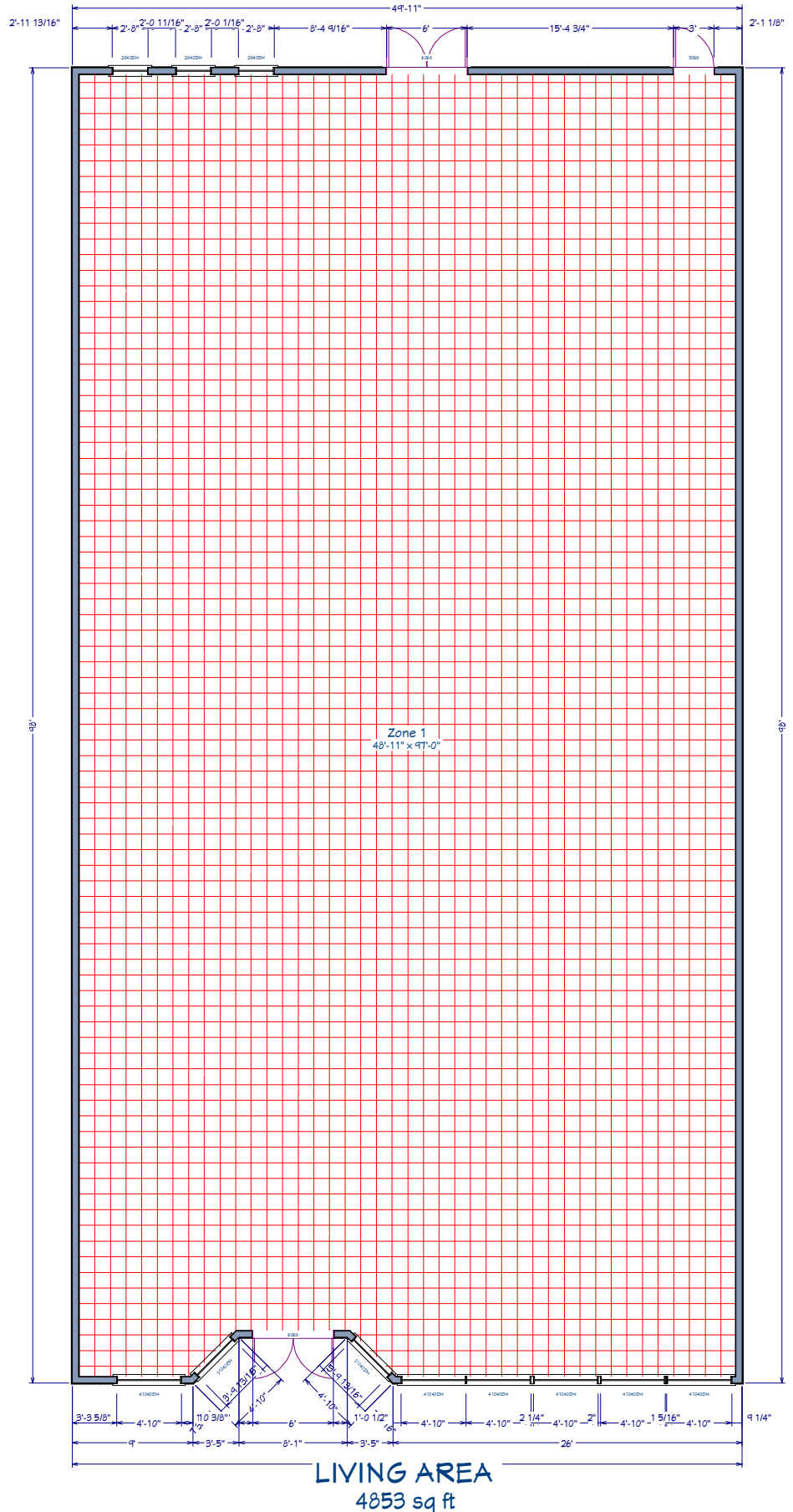
ESG - Asbestos Division
Jeremy Hudson
SCDHEC# BI-01530
Exp. 06/11/20



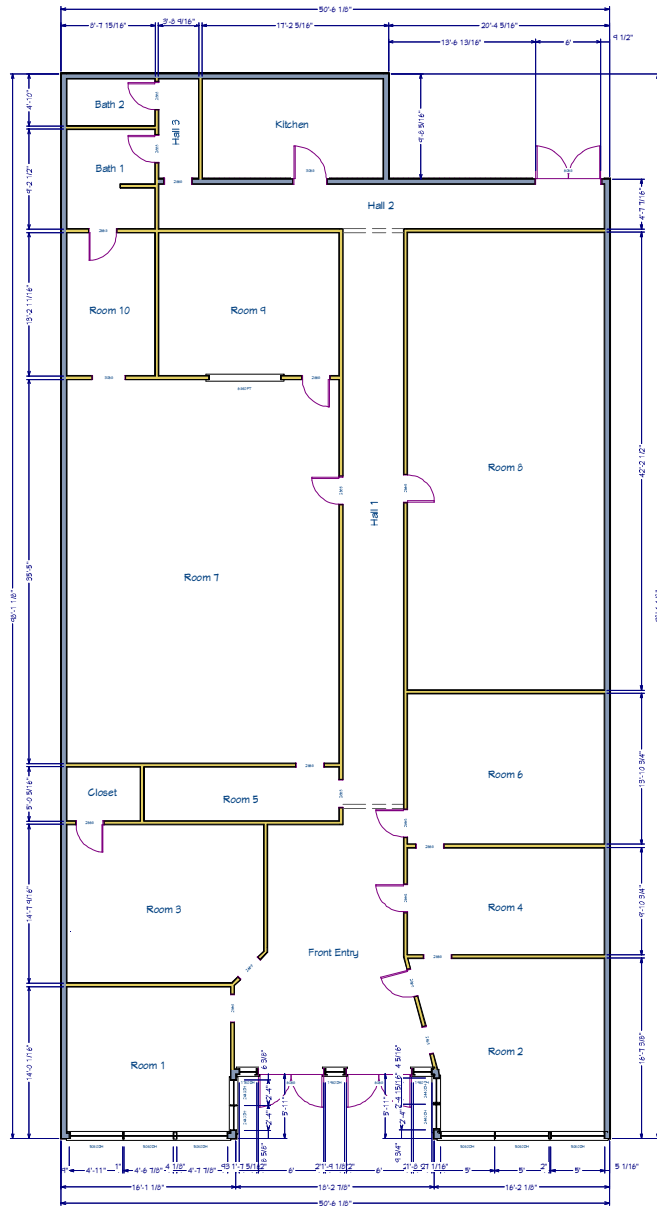
- *HA1 9x9 Floor Tiles w/Mastic (Bottom Layer)
- *HA2 9x9 Floor Tiles w/Mastic (Middle Layer)
- *HA3 12x12 Floor Tiles w/Mastic (Top Layer)

5% Chrysotile Present in HA1 Floor Tiles
2% Chrysotile Present in HA1 Mastic
Approx. 4,850 sq ft
5% Chrysotile Present in HA2 Floor Tiles
7% Chrysotile Present in HA2 Mastic
Approx. 4,250 sq ft
NAD in HA3 Floor Tiles
NAD in HA3 Mastic
Positive by Association w/HA1 & HA2
Approx. 2,150 sq ft

Notes: _____

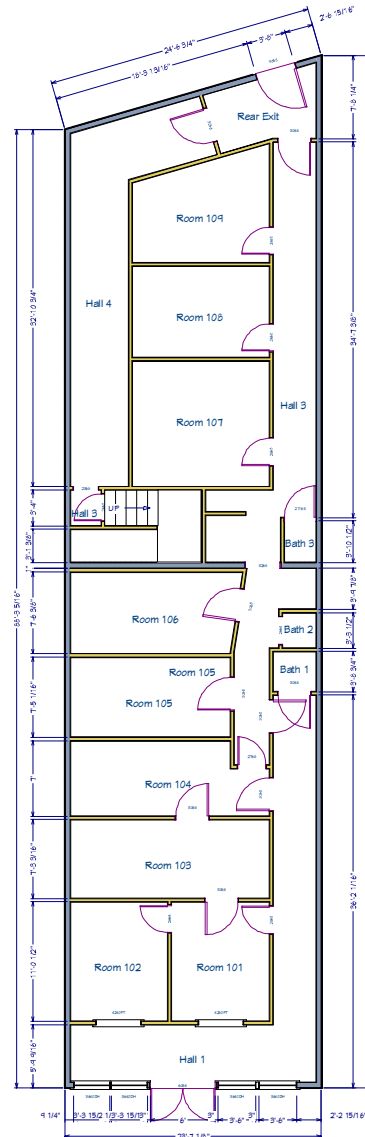


505 9th Ave. Myrtle Beach, SC



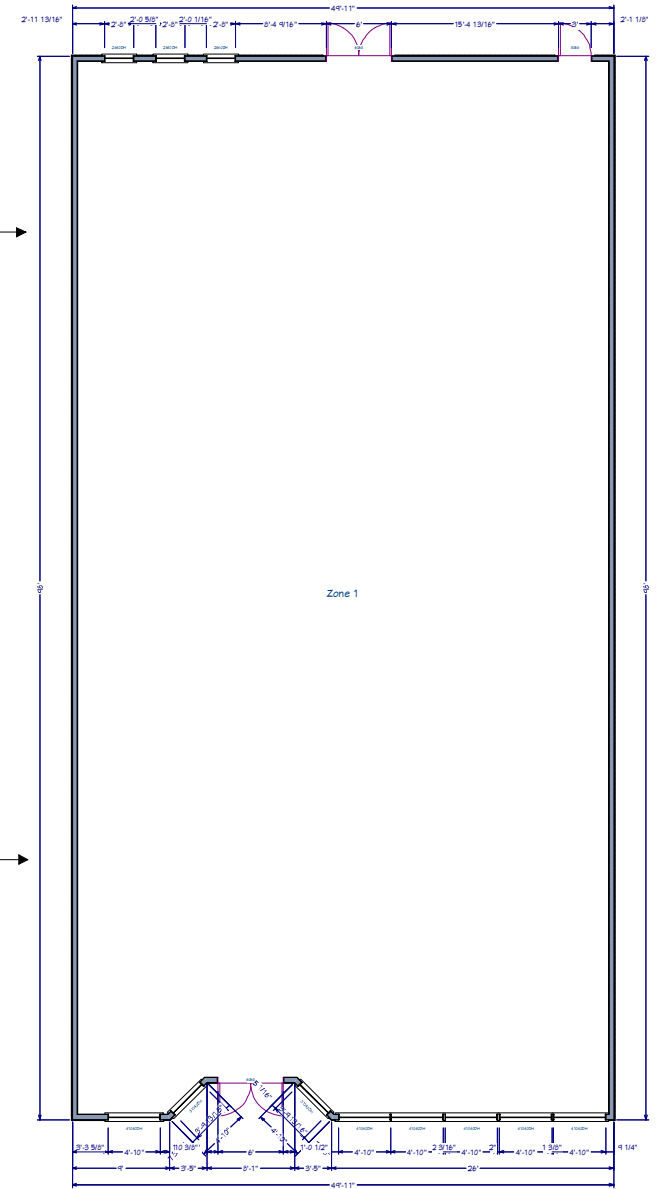
LIVING AREA
4652 sq ft

507 9th Ave. Myrtle Beach, SC



LIVING AREA
2162 sq ft

509 9th Ave. Myrtle Beach, SC



LIVING AREA
4853 sq ft

9th Ave. North

9th Ave. North

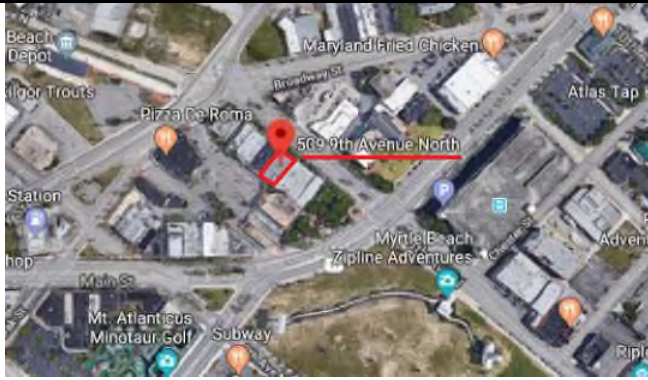
9th Ave. North

PHOTOGRAPHS

PHOTOGRAPHS

PICTURES

PROJECT No. AS-1907



Picture 1 – Property Map



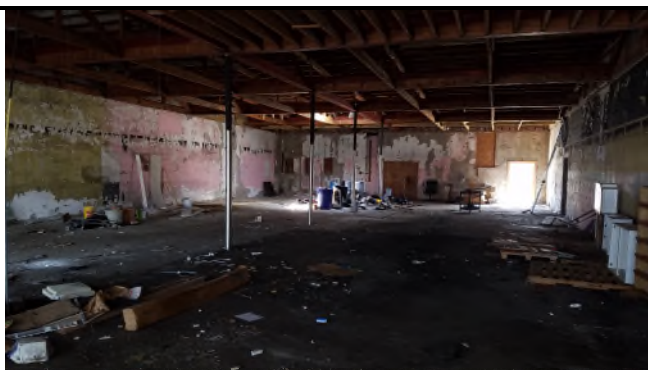
Picture 2 – Property Map



Picture 3 – Front of Building



Picture 4 – View from East Corner



Picture 5 – View from North Corner



Picture 6 – View from West Corner

PICTURES

PROJECT No. AS-1907



Picture 7 – View from South Corner



Picture 8 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 9 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 10 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 11 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 12 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)

PICTURES

PROJECT No. AS-1907



Picture 13 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 14 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 15 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 16 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 17 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 18 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)

PICTURES

PROJECT No. AS-1907



Picture 19 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 20 – *HA1 9x9 Floor Tiles, *HA2 9x9 Floor Tiles and *HA3 12x12 Floor Tiles w/Mastic (3 Layers)



Picture 21 – *HA20 Plaster Wall Covering



Picture 22 – *HA20 Plaster Wall Covering



Picture 23 – *HA20 Plaster Wall Covering



Picture 24 – *HA20 Plaster Wall Covering

PICTURES

PROJECT No. AS-1907



Picture 25 – *HA20 Plaster Wall Covering



Picture 26 – Non-Suspect exposed Roof Deck



Picture 27 – Non-Suspect exposed Roof Deck



Picture 28 – *HA81 Roofing Tar



Picture 29 – *HA81 Roofing Tar



Picture 30 – Roofing Materials – (view from Front to Back)

PICTURES

PROJECT No. AS-1907



Picture 31 – Roofing Materials (view from Back to Front)



Picture 32 – Roofing Materials – Core Sample R1



Picture 33 – Roofing Materials – Core Sample R2



Picture 34 – Roofing Materials – Core Sample R3

**CHAIN OF CUSTODY
AND
LABORATORY RESULTS**

**CHAIN OF CUSTODY
&
LABORATORY RESULTS**



Environmental Hazards Services, LLC
www.lead.com 7469 Whitepine Rd
 (800) 347-4010 Richmond, VA 23237
 (804) 275-4907 (fax)

Asbestos Chain-of-Custody

COMPANY USE ONLY

Company Name: Environmental Service Group Address: PO Box 2798 City/State/Zip: Myrtle Beach, SC 29578

Phone: (843) 902-4495 Fax: (843) 293-7977 E-mail: environmentalservice@sc.rr.com Acct. Number: 42-6337

Project Name / Testing Address: Commercial Property – 509 9th Ave. N. City/State (Required): Myrtle Beach, SC

Collected by: Jeremy Hudson Purchase Order No. AS1907

Turn Around Times:

If No TAT is specified, sample(s) will be processed and charged as 3-day TAT.

1-Day 2-Day ☒ 3-Day Same Day (Must call ahead) Weekend (Must call ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS			
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM (Chatfield Bulk)	TEMAHERA (Air)	Time On	Time Off	Flow Rate (L/Min)	Total Time (minutes)	Volume (Total Liters)				
1	1-F1	05/23/19	X												9x9 Floor Tiles w/Mastic (Bottom Layer)			
2	1-F2		X												9x9 Floor Tiles w/Mastic (Bottom Layer)			
3	1-F3							X							9x9 Floor Tiles w/Mastic (Bottom Layer)			
4	2-F1		X							POSITIVE STOP					9x9 Floor Tiles w/Mastic (Middle Layer)			
5	2-F2		X															9x9 Floor Tiles w/Mastic (Middle Layer)
6	2-F3							X										9x9 Floor Tiles w/Mastic (Middle Layer)
7	3-F1		X															12x12 Floor Tiles w/Mastic (Top Layer)
8	3-F2		X												12x12 Floor Tiles w/Mastic (Top Layer)			
9	3-F3							X							12x12 Floor Tiles w/Mastic (Top Layer)			
10	20-P1		X												Plaster Walls			
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Environmental Hazards Services, LLC
www.lead.com 7469 Whitepine Rd
(800) 347-4010 Richmond, VA 23237
(804) 275-4907 (fax)

Asbestos Chain-of-Custody

COMPANY USE ONLY

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Phone: (843) 902-4495 Fax: (843) 293-7977 E-mail: environmentalservice@sc.rr.com Acct. Number: 42-6337

Project Name / Testing Address: Commercial Property – 509 9th Ave. N. City/State (Required): Myrtle Beach, SC

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1-Day 2-Day ☒ 3-Day Same Day (Must call ahead) Weekend (Must call ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM (Chatfield Bulk)	TEMAHERA (Air)	Time On	Time Off	Flow Rate (L/Min)	Total Time (minutes)	Volume (Total Liters)	
11	20-P2	05/23/19	X											Plaster Walls	
12	20-P3		X											Plaster Walls	
13	20-P4		X											Plaster Walls	
14	20-P5		X							POSITIVE STOP				Plaster Walls	
15	80-R1		X							POSITIVE STOP				Roofing Materials – Core Sample	
16	80-R2		X											Roofing Materials – Core Sample	
17	80-R3						X							Roofing Materials – Core Sample	
18	81-R1		X											Roofing Materials – Black Tar	
19	81-R2		X											Roofing Materials – Black Tar	
20	81-R3						X							Roofing Materials – Black Tar	
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Received by:			Signature:										Date/Time:		



Environmental Hazards Services, L.L.C.

7469 Whitepine Rd

Richmond, VA 23237

Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 19-05-04767

Client: Environmental Service Group
P.O. Box 2798
Myrtle Beach, SC 29578

Received Date: 05/30/2019

Analyzed Date: 06/04/2019

Reported Date: 06/04/2019

Project/Test Address: Commercial Property; 509 9th Ave N; Myrtle Beach, SC

Client Number:

42-6337

Fax Number:

843-293-7977

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-05-04767-001A	1-F1	Tile	Gray Vinyl; Homogenous	5% Chrysotile	95% Non-Fibrous
Total Asbestos: 5%					
19-05-04767-001B	1-F1	Mastic	Black Tar; Homogenous	2% Chrysotile	6% Cellulose 92% Non-Fibrous
Total Asbestos: 2%					
19-05-04767-002A	1-F2	Tile		Did Not Analyze (Positive Stop)	
19-05-04767-002B	1-F2	Mastic		Did Not Analyze (Positive Stop)	
19-05-04767-003A	2-F1	Tile	Brown Vinyl; Homogenous	5% Chrysotile	95% Non-Fibrous
Total Asbestos: 5%					
19-05-04767-003B	2-F1	Mastic	Black Tar; Homogenous	7% Chrysotile	2% Cellulose 91% Non-Fibrous
Total Asbestos: 7%					

Environmental Hazards Services, L.L.C

Client Number: 42-6337

Report Number: 19-05-04767

Project/Test Address: Commercial Property; 509 9th Ave N;
Myrtle Beach, SC

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-05-04767-004A	2-F2	Tile		Did Not Analyze (Positive Stop)	
19-05-04767-004B	2-F2	Mastic		Did Not Analyze (Positive Stop)	
19-05-04767-005A	3-F1	Tile	Tan Vinyl; Homogenous	NAD	100% Non-Fibrous
19-05-04767-005B	3-F1	Mastic	Yellow Adhesive; Tan Granular; Inhomogenous	NAD	2% Cellulose 98% Non-Fibrous
19-05-04767-006A	3-F2	Tile	Tan Vinyl; Homogenous	NAD	100% Non-Fibrous
19-05-04767-006B	3-F2	Mastic	Yellow Adhesive; Homogenous	NAD	2% Cellulose 98% Non-Fibrous
19-05-04767-007	20-P1		Tan Granular; Green Paint; Inhomogenous	NAD	100% Non-Fibrous
19-05-04767-008	20-P2		Tan Granular; Green Paint; Inhomogenous	NAD	100% Non-Fibrous
19-05-04767-009	20-P3		Tan Granular; Green Paint; Inhomogenous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 42-6337

Report Number: 19-05-04767

Project/Test Address: Commercial Property; 509 9th Ave N;
Myrtle Beach, SC

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
19-05-04767-010	20-P4		Tan Granular; Green Paint; Inhomogenous	NAD	100% Non-Fibrous
19-05-04767-011	20-P5		Tan Granular; Green Paint; Inhomogenous	NAD	100% Non-Fibrous
19-05-04767-012	80-R1		Black Tar; Homogenous	NAD	12% Cellulose 88% Non-Fibrous
19-05-04767-013	80-R2		Black Tar; Homogenous	NAD	12% Cellulose 88% Non-Fibrous
19-05-04767-014	81-R1		Black Tar; Homogenous	NAD	100% Non-Fibrous
19-05-04767-015	81-R2		Black Tar; Homogenous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 42-6337

Report Number: 19-05-04767

Project/Test Address: Commercial Property; 509 9th Ave N;
Myrtle Beach, SC

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
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QC Sample: 38-M22009-1

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Christian H. Schaible

Reviewed By Authorized Signatory:



Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected



Environmental Hazards Services, LLC
www.lead.com 7469 Whitepine Rd
(800) 347-4010 Richmond, VA 23237
(804) 275-4907 (fax)

Asbestos Chain-of-Custody

19-05-04767



Due Date:
06/04/2019
(Tuesday)
AE

Ch
20
15 PM

Company Name: Environmental Service Group Address: PO Box 2798 City/State/Zip: Myrtle Beach, SC 29578
Phone: (843) 902-4495 Fax: (843) 293-7977 E-mail: environmentalSERVICE@sc.rr.com Acct. Number: 42-6337
Project Name / Testing Address: Commercial Property - 509 9th Ave. N. City/State (Required): Myrtle Beach, SC
Collected by: Jeremy Hudson Purchase Order No. AS1907

Turn Around Times:

1-Day 2-Day ☒ 3-Day

If No TAT is specified, sample(s) will be processed and charged as 3-day TAT.

Same Day (Must call ahead) Weekend (Must call ahead)

No.	Client Sample ID	Date Collected	ASBESTOS						AIR				COMMENTS		
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM (Chatfield Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/Min)		Total Time (minutes)	Volume (Total Liters)
1	1-F1	05/23/19	X												9x9 Floor Tiles w/Mastic (Bottom Layer)
2	1-F2		X												9x9 Floor Tiles w/Mastic (Bottom Layer)
3	1-F3							X							9x9 Floor Tiles w/Mastic (Bottom Layer)
4	2-F1		X												9x9 Floor Tiles w/Mastic (Bottom Layer)
5	2-F2		X												9x9 Floor Tiles w/Mastic (Middle Layer)
6	2-F3														9x9 Floor Tiles w/Mastic (Middle Layer)
7	3-F1		X					X							9x9 Floor Tiles w/Mastic (Middle Layer)
8	3-F2		X												12x12 Floor Tiles w/Mastic (Top Layer)
9	3-F3							X							12x12 Floor Tiles w/Mastic (Top Layer)
10	20-P1		X												12x12 Floor Tiles w/Mastic (Top Layer)
															Plaster Walls

Released by: Jeremy Hudson Signature: *[Signature]* 1 OF 2 PAGES Date/Time: 05/29/2019 1600 hrs
Received by: *Nicoll* Signature: *Nicoll* Date/Time: 5/30/19 12:24 PM



Environmental Hazards Services, LLC
www.lead.com 7469 Whitepine Rd
 (800) 347-4010 Richmond, VA 23237
 (804) 275-4907 (fax)

Asbestos Chain-of-Custody

4767
COMPANY USE ONLY

Company Name: Environmental Service Group Address: PO Box 2798 City/State/Zip: Myrtle Beach, SC 29578
 Phone: (843) 902-4495 Fax: (843) 293-7977 E-mail: environmentalservice@sc.rr.com Acct. Number: 42-6337
 Project Name / Testing Address: Commercial Property – 509 9th Ave. N. City/State (Required): Myrtle Beach, SC
 Collected by: Jeremy Hudson Purchase Order No. AS1907

Turn Around Times:

If No TAT is specified, sample(s) will be processed and charged as 3-day TAT.

1-Day 2-Day X 3-Day Same Day (Must call ahead) Weekend (Must call ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM (Chatfield Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/Min)	Total Time (minutes)	Volume (Total Liters)	
11	20-P2	05/23/19	X												Plaster Walls
12	20-P3		X												Plaster Walls
13	20-P4		X												Plaster Walls
14	20-P5		X							POSITIVE STOP					Plaster Walls
15	80-R1		X												Roofing Materials – Core Sample
16	80-R2		X												Roofing Materials – Core Sample
17	80-R3						X								Roofing Materials – Core Sample
18	81-R1		X												Roofing Materials – Black Tar
19	81-R2		X												Roofing Materials – Black Tar
20	81-R3						X								Roofing Materials – Black Tar

Released by: Jeremy Hudson

Signature: [Signature]

2 OF 2 PAGES

Date/Time: 05/29/2019 1600 hrs

Received by: S. Nicollet

Signature: [Signature]

Date/Time: 5/30/19 12:24 pm



CERTIFICATE OF ANALYSIS

Chain of Custody: 616309
Client: Environmental Hazards Services, LLC
Address: 7469 Whitepine Road
Richmond, VA 23237
Attention: Kathy Tyler

Job Name: Commercial Property EHS# 19-05-04767
Job Location: 509 9th Avenue N; Myrtle Beach, SC
Job Number: 19-07-03738
P.O. Number: Not Provided

Date Submitted: 07/23/2019
Date Analyzed: 07/24/2019
Report Date: 07/24/2019
Date Sampled: Not Provided
Person Submitting: Tiffany Stone

Summary of Asbestos Analysis of Non-Friable Organically Bound (NOB) Bulk Samples

AMA Sample	Client Sample	Sample Type *	% Total Asbestos	% Asbestos by PLM ***	% Asbestos by TEM ***	Type(s) of Asbestos	% Organics	% Acid Soluble	% Other	Material Type	Sample Color	Comments
616309-1	3-F3	Whole	NAD	N/A	NAD		20.6	47.5	32	FT	Tan	
616309-1A	3-F3	Whole	TR	N/A	TR	Chrysotile	61.9	24.7	13.4	MS	Brown	
616309-2	80-R3	Whole	NAD	N/A	NAD		98.5	0.9	0.6	Roof	Black	
616309-3	81-R3	Whole	TR	N/A	TR	Chrysotile	91.7	3.4	4.9	Roof	Black	

* Whole = Whole sample submitted and gravimetric reduction performed by AMA Analytical Services, Residue = Gravimetric reduction of sample performed by client and residue only submitted for analysis.

** NAD = "No Asbestos Detected" TR = "Trace equals less than 1% of this component"

*** PLM = Polarized Light Microscopy after gravimetric reduction (NY ELAP Method 198.6) TEM = Transmission Electron Microscopy after gravimetric reduction (NY ELAP Method 198.4)

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

Analyst(s): George Land

Technical Director Michael Greenberg

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from us. Sample types, locations, and collection protocols are based upon the information provided by the persons submitting them and, unless collected by personnel of these Laboratories, we expressly disclaim any knowledge and liability for the accuracy and completeness of this information. Residual sample material will be discarded in accordance with the appropriate regulatory guidelines, unless otherwise requested by the client. This report must not be used to claim, and does not imply product certification, approval, or endorsement by AIHA-LAP or any agency of the Federal Government. All rights reserved. AMA Analytical Services, Inc.



Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

TEM Bulk 1-Day

Received Date: 07/22/2019

Due Date: 07/24/2019

EHS Client #: 42-6337

Report Number: 19-07-03738

Project/Test Address: Commercial Property; 509 9th Ave N; Myrtle Beach, SC;
EHS# 19-05-04767

1-Day

Analysis Requested: TEM Bulk 1-Day

Sample #	Sample Type	Sample Location and/or Comments	Volume (liters)
3-F3	TEM Bulk	Tile Only	
3-F3		Mastic Only	
80-R3		Roofing Only	
81-R3		Roofing Only	

Date/Time	Released By:	Date/Time	Received By:
7/22/19 5:37 pm	Jeffery Stone		