

Via E-Mail and US Mail

December 12, 2013

Charlotte-Mecklenburg Housing Partnership, Inc.
4601 Charlotte Park Drive, Ste. 350
Charlotte, North Carolina 28217-1915

Attn: Mr. Fred Dodson, Jr.

RE: Asbestos Survey
Former Precision Dynamics Site
1033 Carter Avenue
Charlotte, North Carolina
H&H Job No. CHP-012

Dear Mr. Dodson,

In accordance with our authorized scope of work, please find the attached Asbestos Survey report for the above-referenced site. An electronic copy in PDF format was also provided by email. Thank you for the opportunity to assist you with this project. Please contact me with questions or if we can be of further assistance.

Sincerely,

Hart & Hickman, PC



Matt Bramblett
Principal and Project Manager

Attachment

Asbestos Survey Former Precision Dynamics Facility

1033 Carter Avenue
Charlotte, North Carolina

H&H Job No. CHP-013
December 12, 2013



Via E-Mail

December 12, 2013

Charlotte-Mecklenburg Housing Partnership, Inc.
4601 Charlotte Park Drive, Ste. 350
Charlotte, North Carolina 28217-1915

Attn: Mr. Fred Dodson, Jr.

RE: Asbestos Survey
Former Precision Dynamics Property
1033 Carter Avenue
Charlotte, North Carolina
H&H Job No. CHP-012

Dear Mr. Dodson,

1.0 Introduction

Hart & Hickman, PC (H&H) has completed an asbestos survey of the former Precision Dynamics Property located at 1033 Carter Avenue in Charlotte, North Carolina. A site location map is included as Figure 1. The building is an approximate 22,620 sq ft split-level manufacturing building with 7,020 sq ft office space. The easternmost part of the building was constructed in 1954 with additions in 1972 and 1981. The survey was conducted to identify asbestos-containing materials (ACMs) within the industrial building prior to demolition. This report presents the methods and results of the asbestos survey.

2.0 Asbestos Survey Activities

H&H conducted the asbestos survey in general accordance with Asbestos Hazard Emergency Response Act (AHERA) guidelines for asbestos building inspections. The objective of the asbestos survey was to:

- identify and assess the condition of suspect ACMs, either friable or non-friable, on the interior and exterior of the facility;
- collect samples from a representative number of random locations in accordance with the AHERA guidelines; and
- prepare a written report detailing findings of the inspection.

Mr. Jimmy Carr, a trained and licensed NC Health Hazards Control Unit (HHCU) asbestos inspector (#12606), conducted the asbestos survey on November 22, 2013. A copy of Mr. Carr's North Carolina asbestos inspector's licenses is included in Appendix C. During the survey, Mr. Carr collected a representative number of samples from each readily accessible homogeneous area in a random manner representative of the homogeneous material sampled. In accordance with United States Environmental Protection Agency (EPA) Regulation 40 CFR 763.85(a) (3-4), H&H conducted the following activities during our asbestos survey:

- visually inspected the site building to identify the locations of suspected ACMs;
- touched the ACMs to determine the friability of the material;
- identified homogeneous areas of friable and non-friable ACMs; and
- collected and submitted bulk samples of potential ACMs to a laboratory for analysis.

AHERA guidelines indicate that the following number of bulk samples be collected from each homogeneous area:

- three, five, and seven bulk samples are to be collected from interior and exterior surfacing materials with volumes totaling 1,000 square ft, 1,000 to 5,000 square ft, and greater than 5,000 square feet, respectively;
- three bulk samples are to be collected from each material identified as thermal system insulation (TSI). TSI that was identified by the inspector as fiberglass or as a non-suspect material was not sampled; and

- two bulk samples are to be collected from TSI that is patched, cemented pipe elbow material commonly found on TSI joints, and miscellaneous and non-friable materials (including floor tile, ceiling tile, and exterior siding).

Based on the AHERA guidelines listed previously, H&H collected a total of 67 samples from the following 30 homogeneous materials during sampling activities (see Table 1 for details). H&H collected samples of the following suspect ACMs identified during our survey:

- roof systems (4 homogenous materials)
- roof flashing systems (2 homogenous materials)
- black tar mastic (4 homogenous materials)
- white insulation in HVAC unit tray (1 homogenous material)
- insulation backing (3 homogenous materials)
- window glazing (3 homogenous materials)
- drywall, tape, and spackle (3 homogenous materials)
- ceiling tiles (4 homogenous materials)
- floor tiles with mastic (3 homogenous materials)
- shoe molding mastics (2 homogenous materials)
- transite (1 homogenous materials)

H&H submitted the samples to CEI Labs of Cary, NC for laboratory analysis by Polarized Light Microscopy (PLM). H&H instructed the laboratory to stop analysis of samples from a homogeneous area if a sample from the area contained greater than 1% asbestos. The laboratory results are included as Appendix A. H&H contracted a professional roofing contractor (Baker Roofing) to repair roof systems where samples were collected.

3.0 Positive Asbestos Detections

Of the materials sampled, the analytical data indicate that four homogeneous materials contain asbestos at concentrations >1%. The Environmental Protection Agency (EPA) definition of ACM is a material with asbestos concentration >1%. The general locations of the roof system positive asbestos detections and building positive asbestos detections are depicted on Figure 2. The roof system and building ACMs identified by H&H are summarized in Table 2. Photographs of the ACMs are included in Appendix B. H&H did not identify asbestos in the remaining materials sampled.

4.0 Assessment and Recommendations

Category 1 Non-Friable ACM

H&H identified the roof systems detections (samples A001 and C002) and the black mastic below the floor tiles (sample 016) as Category I non-friable ACMs. These materials are also identified under the AHERA Assessment Category “asbestos containing building material (ACBM) with potential for damage.” The EPA classifies resilient flooring, asphaltic roofing products, packings, and gaskets as non-friable Category I materials under the National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations. Removal of non-friable Category 1 materials is not required prior to demolition, as long as routine demolition activities are conducted. However, the landfill that receives the demolition debris should be notified and be permitted to accept non-friable Category 1 ACM. Landfills often charge a premium for debris containing asbestos. Therefore, removal of the asbestos-containing flashing and black mastic from other demolition materials should be considered.

Category 2 Non-Friable ACM

H&H identified the non-friable asbestos containing tansite board (sample 013) under the AHERA Assessment Category 2 which is any other non-friable ACBM not listed in Category 1. The transite board was also identified by H&H as “ACBM with potential for damage.” Because

the amount of transite is less than the NESHAP amount of regulated material (160 sq ft), the transite does not have to be removed prior to renovation or demolition, as long as routine demolition activities are conducted.

Friable ACM

No Friable ACM was identified in this survey.

It should also be noted that joint compound associated with drywall (sample 004) was found to contain 3% Chrysotile asbestos. However, in accordance with National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations, joint compound and drywall can be analyzed as a combined sample. Collectively the combined drywall and joint compound sampled was analyzed and found to contain less than <1% asbestos, and by definition, these materials are **not** ACMs according to EPA NESAHP regulations. It should also be noted that the shop office window glazing (sample 005) was also found to contain <1% Chrysotile asbestos.

Prior to the scheduled demolition activities, H&H recommends providing a copy of the asbestos survey to the demolition contractor to address worker protection requirements in accordance with Occupational Safety and Health Administration (OSHA) regulations.

5.0 Limitations

This report is an inspection report only and must not be taken as a project design plan. Also, there is the potential that other ACMs are present at the site which are not readily accessible (i.e., wall or column interiors, etc.). If other suspect ACMs are identified during demolition or renovation activities, they should be sampled to determine asbestos content and properly managed.

Mr. Fred Dodson
December 12, 2013
Page 6

We appreciate the opportunity to assist with this project. If you have any questions concerning this report, please do not hesitate to contact us.

Sincerely,

Hart & Hickman, PC



Jimmy Carr
Asbestos Inspector NC #12606



Matt Bramblett, PE
Principal

Attachments

Table 1
 Materials Sampled
 1033 Carter Avenue
 Charlotte, North Carolina
H&H Project CHP-012

Sample	Homogeneous Materials	Area	Sample Location
Roof Systems Samples			
A001	ISO, perlite, tar & felt, metal deck and brick	Roof System A	flashing along wall with Roof System B
A002	gravel, tar & fabric, ISO, tar, perlite, metal deck	Roof System A	roof
A003	black tar mastic	Roof System A	on stick-ups
A004	white insulation	Roof System A	in an HVAC plate
B001	foam, tar & gravel, tar & felt, wood decking	Barrel Roof System B	roof
B002	foam, black tar mastic	Barrel Roof System B	on stick-ups
C001	tar & gravel, 2 ISO sheets, tar paper, wood deck	Roof System C	roof
C002	black tar mastic	Roof System C	on HVAC system
D001	Foam, ISO, tar & gravel, tar paper, wood deck	Roof System D	roof
D002	foam, tar, wood deck and brick	Roof System D	flashing along the parapet wall
D003	foam, black tar mastic	Roof System D	on stick-ups

Table 1
 Materials Sampled
 1033 Carter Avenue
 Charlotte, North Carolina
H&H Project CHP-012

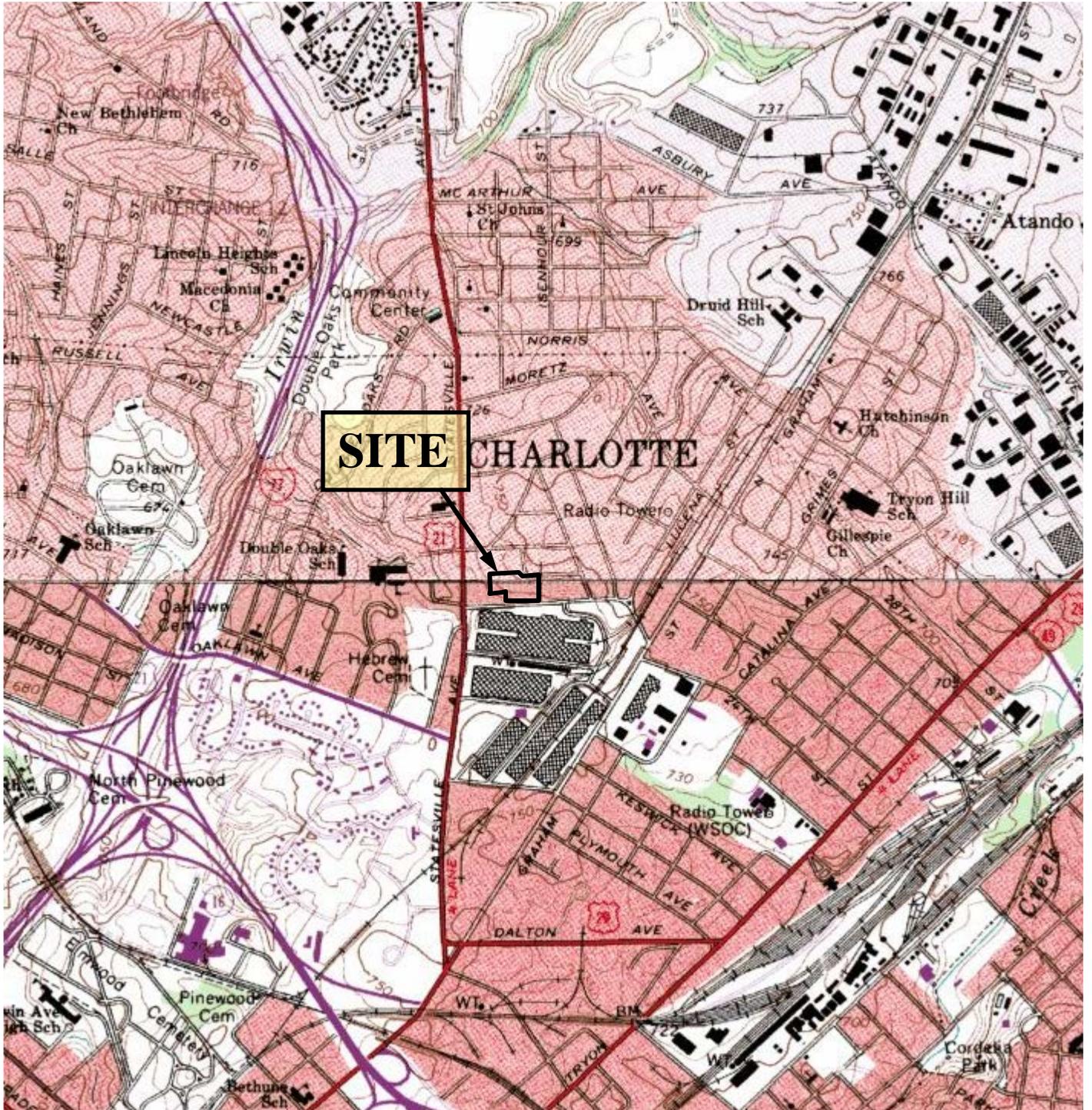
Sample	Homogeneous Materials	Area	Sample Location
Bulk Samples			
001	brown paper backing with black mastic	ceiling of warehouses B and D	fiberglass insulation
002	silver & black paper backing	ceiling of warehouses B and D	fiberglass insulation
003	window glazing	windows on east side of shipping & receiving	windows
004	drywall, tape & spackle	ceilings in bathroom and storage	ceilings
005	window glazing	elevated shop office	windows
006	silver & black paper backing	above office	fiberglass insulation
007	drywall, tape & spackle	office	interior walls
008	ceiling tiles (white) 2'x4' dots / gashes pattern	lower office area	interior walls
009	window glazing	west side office bathrooms	windows
010	floor tile (grey&white specks) 12"x12" with associated brown mastic	two offices on east side	interior flooring
011	mastic	behind grey shoe molding	lower level offices
012	mastic	behind green shoe molding	hall and QC area
013	transite board	ceiling of heater room	heater room
014	floor tile (cream marble) 12"x12" with associated mastic	bathroom in lower office area	bathroom
015	ceiling tiles (white) 1'x1' swirl	west main office area	ceilings
016	floor tile (beige, tan&grey) 12"x12" with associated mastic over pink 12"x12" floor tile and mastic	main level	interior flooring
017	ceiling tiles (white) 1'x1' solid	main hall & copy room	ceilings
018	window glazing	front side of main level	windows
019	ceiling tile (peg board) 1'x1'	East upper office and bathroom	ceilings
020	drywall, tape & spackle	upper office level	interior walls

Notes: Bulk samples are from the H&H survey conducted on 11/22/13
 H&H Samples analyzed by Carolina Environmental, Inc. (CEI) of Cary, NC on 11/26/13

Table 2
 Asbestos Detection Table
 1033 Carter Avenue
 Charlotte, North Carolina
 H&H Project CHP-012

Bulk Sample	Homogeneous Material	Surfacing, TSI, or Misc.	Location Observed	Condition	Friability/Category	Potential for Disturbance	Approximate Amount (SF/LF)	Result
A001	Flashing	Misc.	On Roof System A, along wall with Roof System B	Good	Non-friable category 1	Low (5)	100 LF	5% Chrysotile
C002	Mastic - black tar	Misc.	On HVAC Roof System C	Good	Non-friable category 1	Low (5)	20 SF	15% Chrysotile
013	Transite board	Misc.	ceiling of heater room on the mid-level	Good	Non-friable category 2	Low (5)	144 SF	20% Chrysotile
016	Mastic - black, below non-detect Pink 12X12 floor tile (which is below non-detect Grey swirled 12X12 floor tile)	Misc.	main office level floors	Good	Non-friable category 1	Low (5)	1,000 SF	5% Chrysotile

Notes: H&H Samples analyzed by Carolina Environmental, Inc. (CEI) of Cary, NC on 11/26/13
 (5) = AHERA Assessment Category "ACBM with the potential for damage"
 ACBM = asbestos containing building material
 Non-friable Category 1 materials include asphaltic roofing, resilient flooring, packaging, and gaskets
 LF = linear feet, SF = square feet



SCALE IN FEET

DERITA, NORTH CAROLINA 1996
CHARLOTTE EAST, NORTH CAROLINA 1991

U.S.G.S. QUADRANGLE MAP
 7.5 MINUTE SERIES (TOPOGRAPHIC)

SITE VICINITY MAP

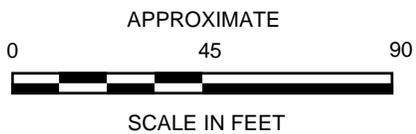
FORMER PRECISION DYNAMICS PROPERTY
1033 CARTER AVENUE
CHARLOTTE, NORTH CAROLINA



2923 S. Tryon Street, Suite 100
 Charlotte, NC 28203
 704.586.0007(p) 704.586.0373(f)

DATE: 11-21-13 REVISION NO: 0

JOB NO: CHP-012 FIGURE NO: 1



013 Positive Sample for Asbestos

 Asbestos Locations

SITE MAP WITH ASBESTOS DETECTIONS

**FORMER PRECISION DYNAMICS PROPERTY
1033 CARTER AVENUE
CHARLOTTE, NORTH CAROLINA**



2923 S. Tryon Street, Suite 100
Charlotte, NC 28203
704.586.0007(p) 704.586.0373(f)

DATE: 11-21-13

REVISION NO: 0

JOB NO: CHP-012

FIGURE NO: 2

Appendix A
Laboratory Report



ASBESTOS LABORATORY REPORT

Prepared for

Hart & Hickman, P. C.

PROJECT: CHP-012, 1033 Carter Ave, CLT, NC

CEI LAB CODE: A13-14219

DATE ANALYZED: 11/26/13

DATE REPORTED: 11/27/13

TOTAL SAMPLES ANALYZED: 24

SAMPLES >1% ASBESTOS: 2

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: CHP-012, 1033 Carter Ave, CLT, NC

CEI LAB CODE: A13-14219

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
B001A	Layer 1	A1603060	Black	Roofing	None Detected
	Layer 2	A1603060	Yellow	Foam	None Detected
B001B	Layer 1	A1603061	Black	Roofing	None Detected
	Layer 2	A1603061	Yellow	Foam	None Detected
B002A		A1603062	Yellow,Grey	Roofing	None Detected
B002B		A1603063	Yellow,Grey	Roofing	None Detected
C001A	Layer 1	A1603064	Black	Roofing	None Detected
	Layer 2	A1603064	Yellow	Foam	None Detected
C001B	Layer 1	A1603065	Black	Roofing	None Detected
	Layer 2	A1603065	Yellow	Foam	None Detected
C001C	Layer 1	A1603066	Black	Roofing	None Detected
	Layer 2	A1603066	Yellow	Foam	None Detected
C002A		A1603067	Black	Tar	None Detected
C002B		A1603068	Black,Grey	Tar	Chrysotile 15%
D001A	Layer 1	A1603069	Black	Roofing	None Detected
	Layer 2	A1603069	Yellow	Foam	None Detected
D001B	Layer 1	A1603070	Black	Roofing	None Detected
	Layer 2	A1603070	Yellow	Foam	None Detected
D002A	Layer 1	A1603071	Black	Roofing	None Detected
	Layer 2	A1603071	Yellow,Grey	Foam	None Detected
D002B	Layer 1	A1603072	Black	Roofing	None Detected
	Layer 2	A1603072	Yellow,Grey	Foam	None Detected
D003A		A1603073	Black,Grey	Roofing	None Detected
D003B		A1603074	Black,Grey	Roofing	None Detected
A001A	Layer 1	A1603075	Black	Roofing	None Detected
	Layer 2	A1603075	Brown	Insulation	None Detected
A001B	Layer 1	A1603076	Black	Roofing	Chrysotile 5%
	Layer 2	A1603076	Yellow	Foam	None Detected
	Layer 3	A1603076	Black	Roofing	None Detected
	Layer 4	A1603076	Brown	Insulation	None Detected
A002A	Layer 1	A1603077	Black	Roofing	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: CHP-012, 1033 Carter Ave, CLT, NC

CEI LAB CODE: A13-14219

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
	Layer 2	A1603077	Yellow	Foam	None Detected
A002B	Layer 1	A1603078	Black	Roofing	None Detected
	Layer 2	A1603078	Yellow	Foam	None Detected
A003A		A1603079	Black	Tar	None Detected
A003B		A1603080	Black	Tar	None Detected
A004A		A1603081	White	Insulation	None Detected
A004B		A1603082	White	Insulation	None Detected
A004C		A1603083	White	Insulation	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hart & Hickman, P. C.
 2923 S. Tryon Street, Suite 100
 Charlotte, NC 28203

CEI Lab Code: A13-14219
Date Received: 11-25-13
Date Analyzed: 11-26-13
Date Reported: 11-27-13

Project: CHP-012, 1033 Carter Ave, CLT, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
B001A Layer 1 A1603060	Roofing	Heterogeneous	10%	Cellulose	10%	Silicates	None Detected
		Black Fibrous Tightly Bound	20%	Fiberglass	60%	Tar	
Layer 2 A1603060	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
B001B Layer 1 A1603061	Roofing	Heterogeneous	10%	Cellulose	10%	Silicates	None Detected
		Black Fibrous Tightly Bound	20%	Fiberglass	60%	Tar	
Layer 2 A1603061	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
B002A A1603062	Roofing	Heterogeneous Yellow,Grey Non-fibrous Bound			90%	Foam	None Detected
					10%	Binder	
B002B A1603063	Roofing	Heterogeneous Yellow,Grey Non-fibrous Bound			90%	Foam	None Detected
					10%	Binder	
C001A Layer 1 A1603064	Roofing	Heterogeneous Black Fibrous Tightly Bound	5%	Cellulose	70%	Tar	None Detected
			25%	Fiberglass			



ASBESTOS BULK ANALYSIS

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Date Reported: 11-27-13

Project: CHP-012, 1033 Carter Ave, CLT, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 A1603064	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
C001B Layer 1 A1603065	Roofing	Heterogeneous Black Fibrous Tightly Bound	5% 25%	Cellulose Fiberglass	70%	Tar	None Detected
Layer 2 A1603065	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
C001C Layer 1 A1603066	Roofing	Heterogeneous Black Fibrous Tightly Bound	5% 25%	Cellulose Fiberglass	70%	Tar	None Detected
Layer 2 A1603066	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
C002A A1603067	Tar	Homogeneous Black Fibrous Tightly Bound	10% <1%	Cellulose Fiberglass	90%	Tar	None Detected
C002B A1603068	Tar	Homogeneous Black,Grey Fibrous Tightly Bound			85%	Tar	15% Chrysotile



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hart & Hickman, P. C.
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Date Received: 11-25-13
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Date Reported: 11-27-13

Project: CHP-012, 1033 Carter Ave, CLT, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
D001A Layer 1 A1603069	Roofing	Heterogeneous Black Fibrous Tightly Bound	<1%	Cellulose Fiberglass	15% 65%	Gravel Tar	None Detected
	Layer 2 A1603069	Foam Homogeneous Yellow Non-fibrous Bound			100%	Foam	
D001B Layer 1 A1603070	Roofing	Heterogeneous Black Fibrous Tightly Bound	<1%	Cellulose Fiberglass	15% 65%	Gravel Tar	None Detected
	Layer 2 A1603070	Foam Homogeneous Yellow Non-fibrous Bound			100%	Foam	
D002A Layer 1 A1603071	Roofing	Heterogeneous Black Fibrous Tightly Bound	<1%	Cellulose Fiberglass	15% 75%	Gravel Tar	None Detected
	Layer 2 A1603071	Foam Heterogeneous Yellow, Grey Non-fibrous Bound			90% 10%	Foam Binder	
D002B Layer 1 A1603072	Roofing	Heterogeneous Black Fibrous Tightly Bound	<1%	Cellulose Fiberglass	15% 75%	Gravel Tar	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hart & Hickman, P. C.
 2923 S. Tryon Street, Suite 100
 Charlotte, NC 28203

CEI Lab Code: A13-14219
Date Received: 11-25-13
Date Analyzed: 11-26-13
Date Reported: 11-27-13

Project: CHP-012, 1033 Carter Ave, CLT, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 A1603072	Foam	Heterogeneous Yellow,Grey Non-fibrous Bound			90% 10%	Foam Binder	None Detected
D003A A1603073	Roofing	Heterogeneous Black,Grey Fibrous Tightly Bound	30%	Synthetic Fiber	20% 50%	Gravel Tar	None Detected
D003B A1603074	Roofing	Heterogeneous Black,Grey Fibrous Tightly Bound	30%	Synthetic Fiber	20% 50%	Gravel Tar	None Detected
A001A Layer 1 A1603075	Roofing	Heterogeneous Black Fibrous Tightly Bound	5% 15%	Cellulose Fiberglass	70% 10%	Tar Gravel	None Detected
Layer 2 A1603075	Insulation	Homogeneous Brown Fibrous Loosely Bound	70% 5%	Cellulose Fiberglass	25%	Perlite	None Detected
A001B Layer 1 A1603076	Roofing	Heterogeneous Black Fibrous Tightly Bound			95%	Tar	5% Chrysotile
Layer 2 A1603076	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected



ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 3 A1603076	Roofing	Heterogeneous Black Fibrous Tightly Bound	<1% 15%	Cellulose Fiberglass	10% 75%	Gravel Tar	None Detected
Layer 4 A1603076	Insulation	Homogeneous Brown Fibrous Loosely Bound	70% 5%	Cellulose Fiberglass	25%	Perlite	None Detected
A002A Layer 1 A1603077	Roofing	Heterogeneous Black Fibrous Tightly Bound	5% 15%	Cellulose Fiberglass	70% 10%	Tar Gravel	None Detected
Layer 2 A1603077	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
A002B Layer 1 A1603078	Roofing	Heterogeneous Black Fibrous Tightly Bound	5% 15%	Cellulose Fiberglass	70% 10%	Tar Gravel	None Detected
Layer 2 A1603078	Foam	Homogeneous Yellow Non-fibrous Bound			100%	Foam	None Detected
A003A A1603079	Tar	Heterogeneous Black Fibrous Tightly Bound	30%	Synthetic Fiber	20% 50%	Gravel Tar	None Detected



ASBESTOS BULK ANALYSIS

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Project: CHP-012, 1033 Carter Ave, CLT, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
A003B A1603080	Tar	Heterogeneous Black Fibrous Tightly Bound	30%	Synthetic Fiber	20%	Gravel 50% Tar	None Detected
A004A A1603081	Insulation	Homogeneous White Fibrous Loosely Bound	95%	Fiberglass	5%	Tar	None Detected
A004B A1603082	Insulation	Homogeneous White Fibrous Loosely Bound	95%	Fiberglass	5%	Tar	None Detected
A004C A1603083	Insulation	Homogeneous White Fibrous Loosely Bound	95%	Fiberglass	5%	Tar	None Detected



LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

The detection limit for the method is <1% by visual estimation and 0.25% by 400 point counts or 0.1% by 1,000 point counts.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarizing light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

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ANALYST: Thomas Messina
Thomas Messina

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D.
Laboratory Director



CHP-012

Roof

H&H Asbestos Survey Form

Page 1 of 1

A13. 14219 (24)
A16 03066. A1603083
hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

2923 S. Tryon St. Charlotte, NC 28203

Phone # 704-586-0007 Fax # 704-586-0373

H&H Inspector: Jimmy Carr

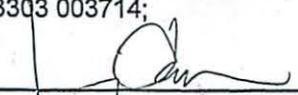
NC Accreditation # 12606; SC License # BI-00714; TN Accreditation # A-1-57739-6429; VA License # 3303 003714;

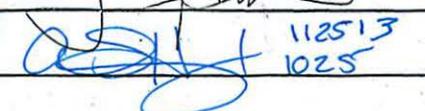
AL Accreditation # AIN 0512594101; MI License #A44216; CO certification # 20677

H&H Job #: CHP-012

Project Location: 1033 Carter Ave CLT NC

Inspection Date: 11/22/13

Signature of Sampler: 

Laboratory Signature of Receipt:  112513
1025

Bulk Sample #	Suspect ACBM Material Sampled	Location of Suspected ACBM	Estimated Quantity (SF/LF)	TSI/Surfacing/Misc.	Friable (Y/N)	NESHAP Category	AHERA Assessment Category *
B001AB	Foam tergarol, b.c. felt, deck	beam Rest B		MISC	N	I	5
B002AB	Foam tar m stickup	stickup Rest B	90 SF	MISC	N	I	5
C001AB	wood deck, ter paper, zickzack ISO, ter garol	boldest Rest C		MISC	N	I	5
C002AB	tar on stickup on AC unit	around AC unit rest C	20 SF	MISC	N	I	5
D001AB	wood deck, ter paper, zickzack ISO, foam	Rest D		MISC	N	I	5
D002AB	Flashings of foam & tar	Rest D		MISC	N	I	5
D003AB	tar & foam on stickup	Rest D	45 SF	MISC	N	I	5
A001AB	Flashings = felt, pr. perlite, ISO	Roof A around Bulb		MISC	N	I	5
A002AB	wood deck, perlite, br. stick, tar, phic, gravel	Roof A		MISC	N	I	5
A003AB	tar on stickup	Rest A		MISC	N	I	5
A004AB	Insulation in old AC unit	Rest A	10 SF	TSI	Y	II	1

Notes: LAB - PLEASE STOP POSITIVE PER SAMPLED HOMOGENEOUS AREA; 48 hr TURN-AROUND TIME; and FAX SIGNED C-O-C to (704)-586-0373

ACBM = asbestos containing building materials

TSI = thermal system insulation

SF/LF = square feet/linear feet

AHERA = Asbestos Hazard Emergency Response Act

* AHERA Assessment Category Codes 1) Damaged or significantly damaged TSI ACBM;

2) Damaged friable surfacing ACBM;

3) Significantly damaged friable surfacing ACBM;

4) Damaged or significantly damaged friable miscellaneous ACBM;

5) ACBM with potential for damage;

6) ACBM with the potential for significant damage; or

7) Any remaining friable ACBM or friable suspected ACBM.

NESHAP Categories: a) Category I Non-Friable Materials (resilient flooring, asphalt roof products, packings, and gaskets)

b) Category II Non-Friable Materials (non-friable materials not included in Category I)

Friable Materials

Sample Amounts		
Misc	2	SC Misc gets 3*
TSI	3	
Surfacing	3	below 1K
	5	1K to 5K
	7	above 5K

* 3rd SC misc gets TEM if non friable organically bound (NOB) material - mastic, flooring, etc

* C001C Extra Sample K.P.

C002C Not Submitted

- B Roof = wood deck, Felt paper, 1/2" Felt, 2" Foam, paint
- C Roof = wood deck, Felt, 2 papers ISO, 1/2" foam, gravel
- D Roof = wood deck, Felt, 1/2" gravel, ISO, Foam
- A Roof = Flashing, wall Flashing, Felt, 1/2" foam, Polite, ISO, Brick

Baker LEW Webster's sponsor
 NO Flashing on Flat Roof systems
 mly 2 strips sweat packed around edge

F12 shing was 4" Foam, 1/2" 1/2" Felt, 1" Polite, 2" Foam, 1/2" Felt, 1" gravel



ASBESTOS LABORATORY REPORT

Prepared for

Hart & Hickman, P. C.

PROJECT: CHP-012, 1033 Carter Ave, Charlotte, NC

CEI LAB CODE: A13-14220

DATE ANALYZED: 11/26/13

DATE REPORTED: 11/27/13

TOTAL SAMPLES ANALYZED: 43

SAMPLES >1% ASBESTOS: 2

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: CHP-012, 1033 Carter Ave, Charlotte, NC **CEI LAB CODE:** A13-14220

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
001A		A1603084	Brown,Black	Insulation	None Detected
001B		A1603085	Brown,Black	Insulation	None Detected
001C		A1603086	Brown,Black	Insulation	None Detected
002A		A1603087	Brown,Silver	Insulation	None Detected
002B		A1603088	Brown,Silver	Insulation	None Detected
002C		A1603089	Brown,Silver	Insulation	None Detected
003A		A1603090	Grey	Window Glazing	None Detected
003B		A1603091	Grey,Silver	Window Glazing	None Detected
004A		A1603092	White	Drywall And Tape	None Detected
004B		A1603093	White	Drywall, Tape, And Spackle	Chrysotile <1%
005A		A1603094	Tan	Window Glazing	Chrysotile <1%
005B		A1603095	Tan	Window Glazing	Chrysotile <1%
006A		A1603096	Brown,Silver	Insulation	None Detected
006B		A1603097	Brown,Silver	Insulation	None Detected
006C		A1603098	Brown,Silver	Insulation	None Detected
007A		A1603099	White	Drywall, Tape, And Spackle	None Detected
007B		A1603100	White	Drywall, Tape, And Spackle	None Detected
008A		A1603101	White,Grey	Ceiling Tile	None Detected
008B		A1603102	White,Grey	Ceiling Tile	None Detected
009A		A1603103	White,Tan	Window Glazing	None Detected
009B		A1603104	White,Tan	Window Glazing	None Detected
010A		A1603105A	Grey,White	Floor Tile	None Detected
		A1603105B	Tan,Grey	Mastic And Leveling Compound	None Detected
010B		A1603106A	Grey,White	Floor Tile	None Detected
		A1603106B	Tan,Grey	Mastic And Leveling Compound	None Detected
011A		A1603107	Off-white	Mastic	None Detected
011B		A1603108	Off-white	Mastic	None Detected
012A		A1603109	Off-white	Mastic	None Detected
012B		A1603110	Tan	Mastic	None Detected
013A		A1603111	Grey	Transite	Chrysotile 20%
013B		A1603112		Sample Not Analyzed per COC	



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: CHP-012, 1033 Carter Ave, Charlotte, NC CEI LAB CODE: A13-14220

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
014A		A1603113A	Cream,Black	Floor Tile	None Detected
		A1603113B	Clear	Mastic	None Detected
014B		A1603114A	Cream,Black	Floor Tile	None Detected
		A1603114B	Clear	Mastic	None Detected
015A		A1603115	White,Tan	Ceiling Tile	None Detected
015B		A1603116	White,Tan	Ceiling Tile	None Detected
016A		A1603117A	Beige,Grey	Floor Tile	None Detected
		A1603117B	Clear	Mastic	None Detected
		A1603117C	Pink	Floor Tile	None Detected
	Layer 1	A1603117D	Tan	Mastic	None Detected
	Layer 2	A1603117D	Black	Mastic	Chrysotile 5%
016B		A1603118A	Beige,Grey	Floor Tile	None Detected
		A1603118B	Clear	Mastic	None Detected
		A1603118C	Pink	Floor Tile	None Detected
		A1603118D	Tan	Mastic	None Detected
017A		A1603119	Tan	Ceiling Tile	None Detected
017B		A1603120	White,Tan	Ceiling Tile	None Detected
018A		A1603121	White,Grey	Window Glazing	None Detected
018B		A1603122	White,Grey	Window Glazing	None Detected
019A		A1603123	White,Tan	Ceiling Tile	None Detected
019B		A1603124	White,Tan	Ceiling Tile	None Detected
020A		A1603125	White	Drywall, Tape, And Spackle	None Detected
020B		A1603126	White	Drywall And Tape	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Hart & Hickman, P. C.
 2923 S. Tryon Street, Suite 100
 Charlotte, NC 28203

CEI Lab Code: A13-14220
Date Received: 11-25-13
Date Analyzed: 11-26-13
Date Reported: 11-27-13

Project: CHP-012, 1033 Carter Ave, Charlotte, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
001A A1603084	Insulation	Heterogeneous	50%	Cellulose	40%	Tar	None Detected
		Brown,Black	10%	Fiberglass			
		Fibrous Bound					
001B A1603085	Insulation	Heterogeneous	50%	Cellulose	40%	Tar	None Detected
		Brown,Black	10%	Fiberglass			
		Fibrous Bound					
001C A1603086	Insulation	Heterogeneous	50%	Cellulose	40%	Tar	None Detected
		Brown,Black	10%	Fiberglass			
		Fibrous Bound					
002A A1603087	Insulation	Heterogeneous	70%	Cellulose	10%	Tar	None Detected
		Brown,Silver	10%	Fiberglass	10%	Metal Foil	
		Fibrous Bound					
002B A1603088	Insulation	Heterogeneous	70%	Cellulose	10%	Tar	None Detected
		Brown,Silver	10%	Fiberglass	10%	Metal Foil	
		Fibrous Bound					
002C A1603089	Insulation	Heterogeneous	70%	Cellulose	10%	Tar	None Detected
		Brown,Silver	10%	Fiberglass	10%	Metal Foil	
		Fibrous Bound					
003A A1603090	Window Glazing	Heterogeneous			10%	Silicates	None Detected
		Grey			88%	Binder	
		Non-fibrous			2%	Paint	
		Bound					



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
003B A1603091	Window Glazing	Heterogeneous Grey,Silver Non-fibrous Bound			10% 88% 2%	Silicates Binder Paint	None Detected
004A A1603092	Drywall And Tape	Heterogeneous White Fibrous Bound	15% 5%	Cellulose Fiberglass	10% 65% 5%	Silicates Gypsum Paint	None Detected
Lab Notes: No spackle present.							
004B A1603093	Drywall, Tape, And Spackle	Heterogeneous White Fibrous Bound	15% 5%	Cellulose Fiberglass	10% 65% 5%	Calc Carb Gypsum Paint	<1% Chrysotile
Lab Notes: Chrysotile found in spackle only. 3% chrysotile in spackle; <1% overall.							
005A A1603094	Window Glazing	Heterogeneous Tan Fibrous Tightly Bound	5%	Talc	10% 80% 5%	Silicates Binder Paint	<1% Chrysotile
005B A1603095	Window Glazing	Heterogeneous Tan Fibrous Tightly Bound	5%	Talc	10% 80% 5%	Silicates Binder Paint	<1% Chrysotile
006A A1603096	Insulation	Heterogeneous Brown,Silver Fibrous Bound	50% 10%	Cellulose Fiberglass	20% 20%	Tar Metal Foil	None Detected
006B A1603097	Insulation	Heterogeneous Brown,Silver Fibrous Bound	50% 10%	Cellulose Fiberglass	20% 20%	Tar Metal Foil	None Detected



ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
006C A1603098	Insulation	Heterogeneous	50%	Cellulose	20%	Tar	None Detected
		Brown,Silver Fibrous Bound	10%	Fiberglass	20%	Metal Foil	
007A A1603099	Drywall, Tape, And Spackle	Heterogeneous	15%	Cellulose	10%	Calc Carb	None Detected
		White Fibrous Bound			70%	Gypsum 5% Paint	
007B A1603100	Drywall, Tape, And Spackle	Heterogeneous	15%	Cellulose	10%	Calc Carb	None Detected
		White Fibrous Bound			70%	Gypsum 5% Paint	
008A A1603101	Ceiling Tile	Heterogeneous	30%	Cellulose	20%	Perlite	None Detected
		White,Grey Fibrous Bound	20%	Fiberglass	28%	Binder 2% Paint	
008B A1603102	Ceiling Tile	Heterogeneous	30%	Cellulose	20%	Perlite	None Detected
		White,Grey Fibrous Bound	20%	Fiberglass	28%	Binder 2% Paint	
009A A1603103	Window Glazing	Heterogeneous	2%	Talc	95%	Binder	None Detected
		White,Tan Non-fibrous Bound			3%	Paint	
009B A1603104	Window Glazing	Heterogeneous	2%	Talc	95%	Binder	None Detected
		White,Tan Non-fibrous Bound			3%	Paint	



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Project: CHP-012, 1033 Carter Ave, Charlotte, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
010A A1603105A	Floor Tile	Homogeneous Grey,White Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1603105B	Mastic And Leveling Compound	Heterogeneous Tan,Grey Non-fibrous Tightly Bound	50% 35% 15%	Mastic Silicates Binder	None Detected
010B A1603106A	Floor Tile	Homogeneous Grey,White Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1603106B	Mastic And Leveling Compound	Heterogeneous Tan,Grey Non-fibrous Tightly Bound	50% 35% 15%	Mastic Silicates Binder	None Detected
011A A1603107	Mastic	Homogeneous Off-white Non-fibrous Tightly Bound	100%	Mastic	None Detected
011B A1603108	Mastic	Homogeneous Off-white Non-fibrous Tightly Bound	100%	Mastic	None Detected
012A A1603109	Mastic	Homogeneous Off-white Non-fibrous Tightly Bound	100%	Mastic	None Detected



ASBESTOS BULK ANALYSIS

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Project: CHP-012, 1033 Carter Ave, Charlotte, NC

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
012B A1603110	Mastic	Homogeneous Tan Non-fibrous Tightly Bound	100%	Mastic	None Detected
013A A1603111	Transite	Heterogeneous Grey Fibrous Tightly Bound	80%	Binder	20% Chrysotile
013B A1603112	Sample Not Analyzed per COC				
014A A1603113A	Floor Tile	Heterogeneous Cream,Black Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1603113B	Mastic	Homogeneous Clear Non-fibrous Tightly Bound	100%	Mastic	None Detected
014B A1603114A	Floor Tile	Heterogeneous Cream,Black Non-fibrous Tightly Bound	100%	Vinyl	None Detected
A1603114B	Mastic	Homogeneous Clear Non-fibrous Tightly Bound	100%	Mastic	None Detected
015A A1603115	Ceiling Tile	Heterogeneous White,Tan Fibrous Bound	95%	Cellulose 5% Paint	None Detected



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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous		Non-Fibrous	
015B A1603116	Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	95%	Cellulose	5% Paint	None Detected
016A A1603117A	Floor Tile	Heterogeneous Beige, Grey Non-fibrous Tightly Bound			100% Vinyl	None Detected
A1603117B	Mastic	Homogeneous Clear Non-fibrous Tightly Bound			100% Mastic	None Detected
A1603117C	Floor Tile	Homogeneous Pink Non-fibrous Tightly Bound			100% Vinyl	None Detected
Layer 1 A1603117D	Mastic	Homogeneous Tan Non-fibrous Tightly Bound			100% Mastic	None Detected
Layer 2 A1603117D	Mastic	Homogeneous Black Fibrous Tightly Bound			95% Mastic	5% Chrysotile
016B A1603118A	Floor Tile	Heterogeneous Beige, Grey Non-fibrous Tightly Bound			100% Vinyl	None Detected



ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
A1603118B	Mastic	Homogeneous Clear Non-fibrous Tightly Bound	100%		Mastic		None Detected
A1603118C	Floor Tile	Homogeneous Pink Non-fibrous Tightly Bound	100%		Vinyl		None Detected
A1603118D	Mastic	Homogeneous Tan Non-fibrous Tightly Bound	100%		Mastic		None Detected
017A A1603119	Ceiling Tile	Homogeneous Tan Fibrous Bound	100%	Cellulose			None Detected
017B A1603120	Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	95%	Cellulose	5%	Paint	None Detected
018A A1603121	Window Glazing	Heterogeneous White, Grey Non-fibrous Bound	2%	Talc	95%	Binder 3% Paint	None Detected
018B A1603122	Window Glazing	Heterogeneous White, Grey Non-fibrous Bound	2%	Talc	95%	Binder 3% Paint	None Detected



ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous	Non-Fibrous			
019A A1603123	Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	95%	Cellulose	5%	Paint	None Detected
019B A1603124	Ceiling Tile	Heterogeneous White, Tan Fibrous Bound	95%	Cellulose	5%	Paint	None Detected
020A A1603125	Drywall, Tape, And Spackle	Heterogeneous White Fibrous Bound	15%	Cellulose	10%	Calc Carb Gypsum Paint	None Detected
020B A1603126	Drywall And Tape	Heterogeneous White Fibrous Bound	15%	Cellulose	10%	Silicates Gypsum Paint	None Detected

Lab Notes: No spackle present.



LEGEND: Non-Anth = Non-Asbestiform Anthophyllite
Non-Trem = Non-Asbestiform Tremolite
Calc Carb = Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

The detection limit for the method is <1% by visual estimation and 0.25% by 400 point counts or 0.1% by 1,000 point counts.

Due to the limitations of the EPA 600 Method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarizing light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

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ANALYST: Thomas Messina
Thomas Messina

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D.
Laboratory Director



A13-14220 (43) 11/22/13

H&H Asbestos Survey Form

Page 1 of 2

A1603084, A1603126
hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS
 2923 S. Tryon St. Charlotte, NC 28203
 Phone # 704-586-0007 Fax # 704-586-0373

H&H Inspector: Jimmy Carr

NC Accreditation # 12606; SC License # BI-00714; TN Accreditation # A-1-57739-6429; VA License # 3303 003714;

AL Accreditation # AIN 0512594101; MI License #A44216; CO certification # 20677

H&H Job #: CHP-012

Signature of Sampler: [Signature]

Project Location: 1033 Carter Ave Charlotte NC

Inspection Date: 11/22/13

Laboratory Signature of Receipt: [Signature] 112513 1025

Bulk Sample #	Suspect ACBM Material Sampled	Location of Suspected ACBM	Estimated Quantity (SF/LF)	TSI/Surfacing/Misc.	Friable (Y/N)	NESHAP Category	AHERA Assessment Category *
001 ABC	cream drier bodkins w/ black mastic floor	bottom ceiling above kitchen	1/4 ceiling	TSI	Y	-	1
002 ABC	silver bubble back w/ insulation floor	" " " "	3/4 ceiling	TSI	Y	-	1
003 AB	Window glazing	Window on E side of kitchen	132 24"x26"	MISC	N	II	6
004 AB	Small tile & speckle	Ceiling in kitchen	200 SF	MISC	Y	-	5
005 AB	Window glazing	Shop office (elevated)	14'24"x8'	MISC	N	II	5
006 ABC	silver & black insulation backing	above office portion of kitchen		TSI	Y	-	5
007 AB	small tile & speckle	office portion of kitchen		MISC	Y	-	5
008 AB	2x4 ceiling tile & tiles	All office area		MISC	Y	-	5
009 AB	Window glazing office bath room w side	office bathroom	2 2'x2'	MISC	N	II	5
010 AB	12x12 grey w/ white speckles & brown mastic	two offices on east side	350 SF	MISC	N	I	5
011 AB	Mastic behind green shoe cabinet	offices on lower level	500 SF	MISC	N	I	5
012 AB	Mastic behind green shoe cabinet	wall & OC area	1500 LF	MISC	N	I	5
013 AB	Transite board	Ceiling of kitchen	144 SF	MISC	N	II	5
014 AB	Green marble floor tile 12x12 mastic	bathroom in office area (lower)	100 SF	MISC	N	I	5

4 windows per Case 7025 mg

Notes: LAB - PLEASE STOP POSITIVE PER SAMPLED HOMOGENEOUS AREA; 48 hr TURN-AROUND TIME; and FAX SIGNED C-O-C to (704)-586-0373

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TSI = thermal system insulation

SF/LF = square feet/linear feet

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- 1) Damaged or significantly damaged TSI ACBM;
- 2) Damaged friable surfacing ACBM;
- 3) Significantly damaged friable surfacing ACBM;
- 4) Damaged or significantly damaged friable miscellaneous ACBM;
- 5) ACBM with potential for damage;
- 6) ACBM with the potential for significant damage; or
- 7) Any remaining friable ACBM or friable suspected ACBM.

NESHAP Categories: a) Category I Non-Friable Materials (resilient flooring, asphalt roof products, packings, and gaskets)

b) Category II Non-Friable Materials (non-friable materials not included in Category I)

Friable Materials

Sample Amounts		
Misc	2	SC Misc gets 3*
TSI	3	
Surfacing	3	below 1K
	5	1K to 5K
	7	above 5K

* 3rd SC misc gets TEM if non friable organically bound (NOB) material - mastic, flooring, etc

H&H Asbestos Survey Form

Page 2 of 2



SMARTER ENVIRONMENTAL SOLUTIONS

2923 S. Tryon St. Charlotte, NC 28203

Phone # 704-586-0007 Fax # 704-586-0373

H&H Inspector: Jimmy Carr

NC Accreditation # 12606; SC License # BI-00714; TN Accreditation # A-1-57739-6429; VA License # 3303 003714;

AL Accreditation # AIN 0512594101; MI License #A44216; CO certification # 20677

H&H Job #: CHP-012

Project Location: Center Ave CUT NC

Inspection Date: 11/22/13

Signature of Sampler: _____

Laboratory Signature of Receipt: _____

Bulk Sample #	Suspect ACBM Material Sampled	Location of Suspected ACBM	Estimated Quantity (SF/LF)	TSI/ Surfacing/ Misc.	Friable (Y/N)	NESHAP Category	AHERA Assessment Category *
<u>015 AB</u>	<u>1x1 swirl pattern solid ceiling tiles</u>	<u>west main office area</u>	<u>250 SF</u>	<u>MISC</u>	<u>N</u>	<u>II</u>	<u>5</u>
<u>016 AB</u>	<u>12x12 base, tan/grey swirled floor tiles</u>	<u>main level area</u>	<u>1000 SF</u>	<u>MISC</u>	<u>N</u>	<u>I</u>	<u>5</u>
	<u>over 12x12 swirl; dark pink floor tiles</u>	<u>" "</u>	<u>1000 SF</u>	<u>MISC</u>	<u>N</u>	<u>I</u>	<u>5</u>
<u>017 AB</u>	<u>solid ceiling tiles w/ 1" x 1" pattern</u>	<u>main hall & copy room</u>	<u>1000 SF</u>	<u>MISC</u>	<u>N</u>	<u>II</u>	<u>5</u>
<u>018 AB</u>	<u>windmill pattern on front N side main level</u>	<u>9 casings w/ 8 pins 20' x 15'</u>	<u>9 w/ 8 20' x 15' frames</u>	<u>MISC</u>	<u>N</u>	<u>II</u>	<u>5</u>
<u>019 AB</u>	<u>1x1 red hard ceiling tiles</u>	<u>E upper office - bathroom</u>	<u>300 SF</u>	<u>MISC</u>	<u>N</u>	<u>II</u>	<u>5</u>
<u>020 AB</u>	<u>Drywall tape & spackle</u>	<u>upper office level</u>		<u>MISC</u>	<u>Y</u>	<u>-</u>	<u>5</u>

Notes: LAB - PLEASE STOP POSITIVE PER SAMPLED HOMOGENEOUS AREA; 48 hr TURN-AROUND TIME; and FAX SIGNED C-O-C to (704)-586-0373

ACBM = asbestos containing building materials
 TSI = thermal system insulation
 SF/LF = square feet/linear feet

AHERA = Asbestos Hazard Emergency Response Act

- * AHERA Assessment Category Codes
- 1) Damaged or significantly damaged TSI ACBM;
 - 2) Damaged friable surfacing ACBM;
 - 3) Significantly damaged friable surfacing ACBM;
 - 4) Damaged or significantly damaged friable miscellaneous ACBM;
 - 5) ACBM with potential for damage;
 - 6) ACBM with the potential for significant damage; or
 - 7) Any remaining friable ACBM or friable suspected ACBM.

NESHAP Categories: a) Category I Non-Friable Materials (resilient flooring, asphalt roof products, packings, and gaskets)
 b) Category II Non-Friable Materials (non-friable materials not included in Category I)
 Friable Materials

016 pink & pink 12x12 tiles found in Shop office and under floor in Bathroom in offices

Sample Amounts		
Misc	2	SC Misc gets 3*
TSI	3	
Surfacing	3	below 1K
	5	1K to 5K
	7	above 5K

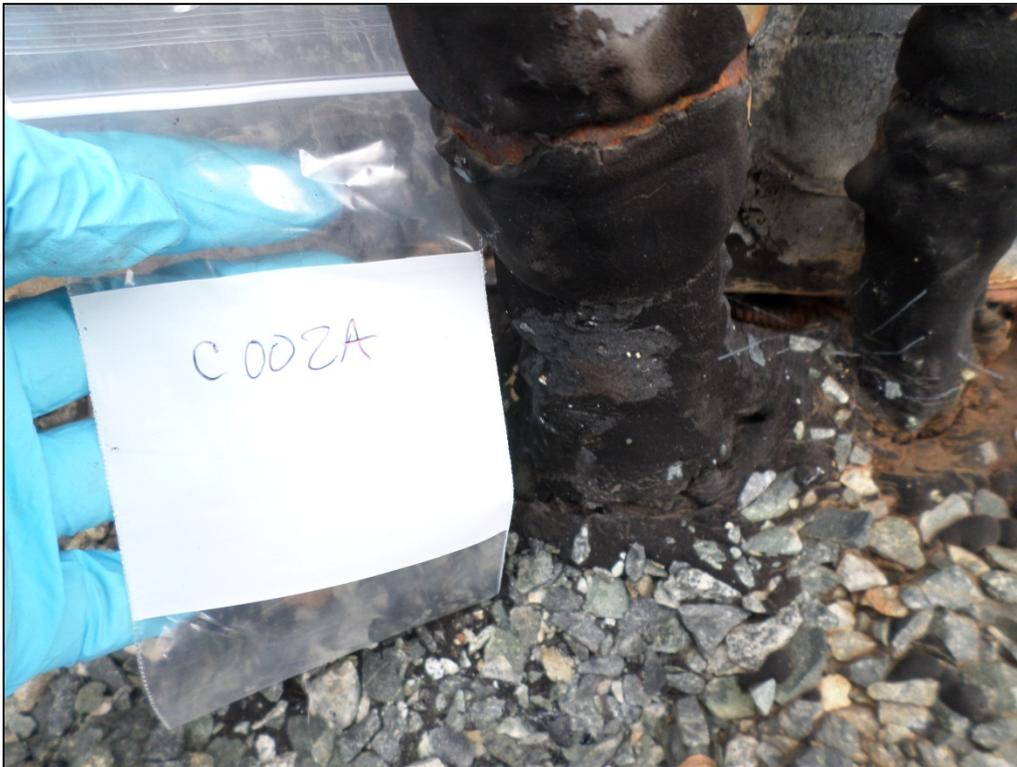
* 3rd SC misc gets TEM if non friable organically bound (NOB) material - mastic, flooring, etc

Appendix B

Asbestos Containing Material Photographs



Photograph 1: Flashing (A001) on Roof System A along wall with Roof System B



Photograph 2: Black mastic (C002) on HVAC unit on roof system C



Photograph 3: Transite board (013) used as ceiling in the heater room on the mid-level



Photograph 4: Black mastic below the non-detect Pink floor tiles which are seen in some of the main office area and are also found below a layer of non-detect Grey swirl floor tiles in other parts of the main office area

Appendix C

Certified Asbestos Inspectors License



North Carolina Department of Health and Human Services
Division of Public Health

RECEIVED
MAY 20 2013
BY:

Pat McCrory
Governor

Aldona Z. Wos, M.D.
Ambassador (Ret.)
Secretary DHHS
Laura Gerald, M.D., M.P.H.
State Health Director

May 16, 2013

James L Carr
5835 Winburn Lane
Charlotte, NC 28226

Dear Mr. Carr:

Based upon the review of your accreditation application, the Health Hazards Control Unit (HHCU) has determined that you have fulfilled the requirements and are eligible for asbestos accreditation as a(n) INSPECTOR. Your assigned North Carolina accreditation number is 12606, which is reflected on your enclosed North Carolina Accreditation card. Please be sure to take this card with you to any asbestos work site where you are employed. The State requires that all persons conducting asbestos abatement or asbestos management activities be accredited and have their identification card on site.

Your North Carolina Inspector accreditation will expire on MAY 31, 2014. It is NOT the policy of the HHCU to issue renewal notices. If you wish to continue working as a(n) Inspector after this expiration date, you must successfully complete the required training and submit a completed application to this office prior to May 31, 2014. If you should continue to perform asbestos management activities as a(n) Inspector without a valid North Carolina accreditation, you will be in violation of State regulations and may be cited for noncompliance.

Sincerely,

Marita E Cheek
Accreditation/Certification Secretary
Health Hazards Control Unit



North Carolina
Asbestos Accreditation

EXPIRATION			
05-31-2014			
DOB	SEX	HT	WT
05-31-1955	M	57"	135
CLASS		#	EXP
INSPECTOR		12606	05-14

James L Carr
5835 Winburn Lane
Charlotte, NC 28226

100005

www.ncdhhs.gov • www.publichealth.nc.gov
Tel 919-707-5950 • Fax 919-870-4808

Location: 5505 Six Forks Road, Second Floor, Room D-1 • Raleigh, NC 27609
Mailing Address: 1912 Mail Service Center • Raleigh, NC 27699-1912

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