

## ASBESTOS MATERIALS SURVEY

Report Date: August 15, 2013

Client: Ann Arbor Housing Commission

Site Address: 2670-2680 South Main Street  
Ann Arbor, Michigan

AKT Peerless Project #: 8360e-6-190

### SECTION I - ASBESTOS INSPECTION

AKT Peerless conducted field sampling for suspect asbestos containing materials on August 14, 2013. The following suspect materials were identified at the site:

#### SUSPECT MATERIALS SUMMARY (ASBESTOS MATERIALS IN BOLD CAPS)

Material Description	Material Classification	Function Space (FS) Location	HA No.	Approximate Quantity	EPA Category	Asbestos Content
Building 1 – Units 2678 and 2680						
12" Off white with tan streaks floor tile	MM	Unit 2678 bedrooms, hall, living room; Unit 2680 Bedrooms and utility room	HA-01	Unit 2678 600 SF; Unit 2680 350 SF	C1	ND
Linoleum with off white and tan squares	MM	Unit 2678 kitchen and utility room	HA-02	150 SF	C2	ND
4" Beige cove base	MM	Unit 2678 utility room	HA-03	5 SF	C2	ND
Drywall	MM	Throughout both units	HA-04	NE	C2	ND
Off white large square pattern linoleum	MM	Unit 2680 kitchen and living room	HA-05	125 SF	C2	ND
4" Brown cove base	MM	Throughout unit 2680	HA-06	80 SF	C2	ND
<b>Roofing Material</b>	<b>MM</b>	<b>Exterior</b>	<b>HA-07</b>	<b>NE</b>	<b>C2</b>	<b>ASSUMED ACM</b>
Building 2 – Units 2674 and 2676						
Off white and gray squares pattern linoleum	MM	Unit 2676 Living room and kitchen	HA-01	125 SF	C2	ND
4" Brown cove base	MM	Unit 2676 kitchen and bedrooms	HA-02	45 SF	C2	ND

Material Description	Material Classification	Function Space (FS) Location	HA No.	Approximate Quantity	EPA Category	Asbestos Content
4" Gray cove base	MM	Unit 2676 living room and hallway; Unit 2674 throughout	HA-03	Unit 2676 25 SF; Unit 2674 85 SF	C2	ND
12" Off white with tan streaks floor tile	MM	Unit 2676 bedrooms, utility room; Unit 2674 living room, hall, north bedroom	HA-04	Unit 2676 350 SF; Unit 2674 400 SF	C1	ND
Drywall	MM	Throughout both units	HA-05	NE	C2	ND
12" Gray floor tile	MM	Unit 2674 southwest and northwest bedrooms	HA-06	200 SF	C1	ND
Off white marbled linoleum	MM	Unit 2674 bathroom	HA-07	50 SF	C2	ND
4" White cove base	MM	Unit 2674 bathroom	HA-08	5 SF	C2	ND
Off white with spots flooring	MM	Unit 2674 utility room	HA-09	50 SF	C2	ND
<b>Roofing Material</b>	<b>MM</b>	<b>Exterior</b>	<b>HA-10</b>	<b>NE</b>	<b>C2</b>	<b>ASSUMED ACM</b>
Building 3 – Units 2670 and 2672						
12" Off white with streaks floor tile	MM	Unit 2670 living room and kitchen; Unit 2672 utility room and bedrooms	HA-01	300 SF	C1	ND
4" Gray cove base	MM	Unit 2670 kitchen, living rooms, bedrooms	HA-02	85 SF	C2	ND
12" Gray with specks floor tile	MM	Unit 2670 bedrooms	HA-03	300 SF	C1	ND
Dots on off white flooring	MM	Unit 2670 utility room	HA-04	40 SF	C2	ND
Drywall	MM	Throughout both units	HA-05	NE	C2	ND
Off white squares linoleum	MM	Unit 2672 Living room and kitchen	HA-06	125 SF	C2	ND
4" brown cove base	MM	Unit 2672 Throughout	HA-07	85 SF	C2	ND
<b>Roofing Material</b>	<b>MM</b>	<b>Exterior</b>	<b>HA-08</b>	<b>NE</b>	<b>C2</b>	<b>ASSUMED ACM</b>

Key: F = Friable; NF = Non-friable; FS = Functional Space; ND = No Asbestos Detected; CHR = Chrysotile; AMO = Amosite; SF = Square Feet; LF = Linear Feet; CF = Cubic Feet; MF = Mud Fittings; Classification: SM = Surfacing Material; TSI = Thermal System Insulation; MM = Miscellaneous Material; EPA Material Categories: FR = Friable Regulated; C2 = Category II Non-friable; C1 = Category I Non-friable; NE = Not Estimated

Recommendations:

1. Non-friable roofing materials are assumed to contain asbestos and do not require removal ahead of renovation or demolition activities, unless building materials will be recycled or the roofing will be made friable.

Samples were collected by a State of Michigan Department of Licensing and Regulatory Affairs (LARA) Michigan Occupational Safety & Health Administration (MIOSHA) -Asbestos Program accredited Asbestos Inspector.

Laboratory results are included in Attachment 1. The methodology followed to complete the asbestos survey is included in Attachment 2.

**LIMITATIONS**

The information and opinions obtained in this report are for the exclusive use of the Ann Arbor Housing Commission. AKT Peerless will not distribute this report without Client's written consent or as required by law or by a Court order. Report contents must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein.

Quantities of identified asbestos containing and other hazardous materials reported are provided for reference only.

Prepared by:

**AKT PEERLESS ENVIRONMENTAL AND ENERGY SERVICES**



Carl D. Rogers  
Environmental Consultant  
MIOSHA CSHD Asbestos Inspector  
Accreditation Number: A36205

Reviewed by:



James C. Fox, RPIH  
Sr. Project Manager  
MIOSHA CSHD Asbestos Inspector, Management Planner, Project Designer  
Accreditation Number: A3152

**ATTACHMENT 1**

**Asbestos Laboratory Results and Chain of Custody**

# 47251

## APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.  
 Web Site: <http://apexresearch-inc.com> Email: Bob.Lefarte@apexresearchlab.com



Client Name: AKT Peerless  
 Address: 27225 Orchard Lk Rd  
 City, St., Zip: Farmington, MI  
 Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8/14/13  
 Project: AHC Mallet's Creek Bldg 1  
 Project # 8360E-G-190  
 Contact Person: Carl Rogers

### Turn Around Times: (Circle One)

24 hour  
 72 hour  
 TTP (Test Till Positive)  
 Other: \_\_\_\_\_

Asbestos:  Bulk  Wipe  Point Count  PCM  Soil  
 Lead:  Bulk  Wipe  Air  Paint  Other \_\_\_\_\_  
 Mold:  Bulk  Tape  Biosis  Other \_\_\_\_\_  
 TEM:  Bulk/NOP  AHERA  EPA Level II  Other \_\_\_\_\_

\*\*\*Terms and conditions on the other side.

Lab Use Only  
 Log-In: \_\_\_\_\_  
 Report: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Verbal: \_\_\_\_\_  
 Email: \_\_\_\_\_

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	101-1	12" off white w/ tan streaks floor tile			
2	102-1	"			
3	101-1	linoleum w/ off white tan squares			
4	202-1	"			
5	301-1	4" beige core base			
6	302-1	"			
7	401-1	Drywall			
8	402-1	"			
9	501-1	off white large square tiles linoleum			
10	502-1	"			

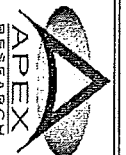
**RECEIVED**

Relinquished By: \_\_\_\_\_ Received By: [Signature] Date: 8/14/13  
 Relinquished By: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

47251

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11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.  
Web Site: <http://apexresearch-inc.com> Email: [Bob.Letarte@apexresearchlab.com](mailto:Bob.Letarte@apexresearchlab.com)



Client Name: AKT

Date of Survey: 8/14/13

Address: \_\_\_\_\_

Project: AHL Walker's Creek Bldg 1

City, St, Zip: Farmington

Project # 8302-6-190

Phone: 248-615-1353 Fax: 248-615-1354

Contact Person: Carl Rogers

## Turn Around Times: (Circle One)

*rogers@aktpeelss.com*  
\*\*\*Terms and conditions on the other side.

Rush 24 hour

Asbestos:

Bulk

Wipe

Point Count

PCM

48 hour

Lead:

Bulk

Wipe

Air

Paint

Soil

Other: \_\_\_\_\_

72 hour  
TTP X  
(Test Till Positive)

Mold:

Bulk

Tape

BioSIS

Other

Viable

TEM:

Bulk/NOP

AHERA

EPA Level II

Other

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
11	601-1	4" Brown Core Base			
12	602-1	" "			
	701-1	12" of white w/ tan streaks			
	702-1	Floor Tile			

RECEIVED

Relinquished By: \_\_\_\_\_  
Date: 8/14/13

Received By: \_\_\_\_\_  
Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_  
Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_  
Date: \_\_\_\_\_



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: AAHC - Mallet's Creek Bldg. 1  
Project # 8360e-6-190


**Report To:**

Mr. Carl Rogers  
AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47251  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47251 - 01 Cust. #: 1.1-1 Material: 12" Off-White/Tan Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47251 - 01a Cust. #: 1.1-1 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47251 - 02 Cust. #: 1.2-1 Material: 12" Off-White/Tan Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

  
 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



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## Test Method, Polarized Light Microscopy (PLM)

Project: AAHC - Mallet's Creek Bldg. 1  
Project # 8360e-6-190


**Report To:**

Mr. Carl Rogers  
AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47251  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47251 - 02a Cust. #: 1.2-1 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47251 - 03 Cust. #: 2.1-1 Material: Linoleum w/Off-White/Tan Sq. Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 47251 - 04 Cust. #: 2.2-1 Material: Linoleum w/Off-White/Tan Sq. Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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Project # 8360e-6-190


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Mr. Carl Rogers  
AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47251  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47251 - 05 Cust. #: 3.1-1 Material: 4" Beige Cove Base Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47251 - 06 Cust. #: 3.2-1 Material: 4" Beige Cove Base Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47251 - 07 Cust. #: 4.1-1 Material: Drywall Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%

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Project # 8360e-6-190


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AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47251  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47251 - 08 Cust. #: 4.2-1 Material: Drywall Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47251 - 09 Cust. #: 5.1-1 Material: Off-White Lg. Square Pattern Linoleum Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 47251 - 10 Cust. #: 5.2-1 Material: Off-White Lg. Square Pattern Linoleum Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

For Layered Samples, each component will be analyzed and reported separately.

  
 Robert T. Letarte Jr., Laboratory Director

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ARI Report # 13-47251  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47251 - 11 Cust. #: 6.1-1 Material: 4" Brown Cove Base Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47251 - 12 Cust. #: 6.2-1 Material: 4" Brown Cove Base Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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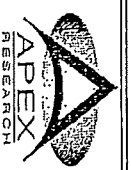


NVLAP Lab Code 102118-0

# 47252

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11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.  
Web Site: <http://apexresearch-inc.com> Email: Bob.Lefante@apexresearchlab.com



Client Name: AKT Peerless

Address: 22725 Orchard Lakes Rd

City, St., Zip: FARMINGTON MI

Phone: 248-615-1333

Fax: 248-615-1354

Date of Survey: 8/14/13

Project: AAFC Mallett's Creek Building 2

Project # 88602-6-190

Contact Person: Carl Rogers

Turn Around Times: (Circle One)

\*\*\*Terms and conditions on the other side.

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

Rush  24 hour

48 hour  72 hour

Other:  TTP  (Fast Turn Positive)

Asbestos:  Bulk

Wipe \_\_\_\_\_

Point Count \_\_\_\_\_

PCM \_\_\_\_\_

Lead:  Bulk

Wipe \_\_\_\_\_

Air \_\_\_\_\_

Paint \_\_\_\_\_

Soil \_\_\_\_\_

Mold:  Bulk

Tape \_\_\_\_\_

BioSIS \_\_\_\_\_

Other \_\_\_\_\_

Viable \_\_\_\_\_

TEM:  Bulk/NOP

AHERA \_\_\_\_\_

EPA Level II \_\_\_\_\_

Other \_\_\_\_\_

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1.1-2	off white & gray squares pattern linoleum			
2	1.2-2	"			
3	2.1-2	4" Brown Core Base			
4	<del>2.1-2</del> 3.01-2	4" Gray Core Base			
5	4.1-2	12" off white w/ tan streaks floor tile			
6	4.2-2	"			
7	5.1-2	" Drywall			
8	5.2-2	"			

### RECEIVED

Relinquished By: [Signature]

Date: 8/14/13

Received By: [Signature]

Date: 8/9

Relinquished By: \_\_\_\_\_

Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_

Date: \_\_\_\_\_

47252

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11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.  
Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: ALT

Address: \_\_\_\_\_

City, St., Zip: Farmington, MI

Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8-14-13

Project: AAC Mallet's Creek Ridge

Project # 83602-6-190

Contact Person: Carl Rogers

## Turn Around Times: (Circle One)

Rush 24 hour

48 hour 72 hour

Other: TTPA  
(Fast Turn Positive)

Asbestos: Bulk  Wipe \_\_\_\_\_ Point Count \_\_\_\_\_ PCM \_\_\_\_\_

Lead: Bulk \_\_\_\_\_ Wipe \_\_\_\_\_ Air \_\_\_\_\_ Paint \_\_\_\_\_ Soil \_\_\_\_\_

Mold: Bulk \_\_\_\_\_ Tape \_\_\_\_\_ BioSIS \_\_\_\_\_ Other \_\_\_\_\_ Viable \_\_\_\_\_

TEM: Bulk/NOP \_\_\_\_\_ AHERA \_\_\_\_\_ EPA Level II \_\_\_\_\_ Other \_\_\_\_\_

*\*\*\*Terms and conditions on the other side.*

*rogers@aktpeplers.com*

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
47252-9	G1-2	12" Gray Floor Tile			
10	G2-2	off white marbled linoleum			
11	7.1-2	"			
12	7.2-2	"			
13	8.1-2	4" white core base			
14	8.2-2	"			
15	9.1-2	off white w/spots flooring			
16	9.2-2	"			

**RECEIVED**

Relinquished By: [Signature]  
Date: 8/14/13

Received By: [Signature]  
Date: 8/14/13

Relinquished By: \_\_\_\_\_  
Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_  
Date: \_\_\_\_\_



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Mallet's Creek Bldg. 2  
Project # 8360e-6-190


**Report To:**

Mr. Carl Rogers  
AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47252  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47252 - 01 Cust. #: 1.1-2 Material: Off-White/Gray Sq. Linoleum Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 47252 - 02 Cust. #: 1.2-2 Material: Off-White/Gray Sq. Linoleum Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 25% Other - 75%
Lab ID #: 47252 - 03 Cust. #: 2.1-2 Material: 4" Brown Cove Base Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

  
 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

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Project: AAHC Mallet's Creek Bldg. 2  
Project # 8360e-6-190


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AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

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Date Collected: 08/14/13  
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Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47252 - 04 Cust. #: 3.1-2 Material: 4" Gray Cove Base Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47252 - 05 Cust. #: 4.1-2 Material: 12" Off-White/Tan Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47252 - 06 Cust. #: 4.2-2 Material: 12" Off-White/Tan Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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 Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Mallet's Creek Bldg. 2  
Project # 8360e-6-190


**Report To:**

Mr. Carl Rogers  
AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47252  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47252 - 07 Cust. #: 5.1-2 Material: Drywall Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47252 - 08 Cust. #: 5.2-2 Material: Drywall Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47252 - 09 Cust. #: 6.1-2 Material: 12" Gray Floor Tile Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

  
 Robert T. Letarte Jr., Laboratory Director

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Farmington, MI 48336

ARI Report # 13-47252  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47252 - 10 Cust. #: 6.2-2 Material: 12" Gray Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47252 - 10a Cust. #: 6.2-2 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47252 - 11 Cust. #: 7.1-2 Material: Off-White Marbled Linoleum Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 13-47252  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47252 - 12 Cust. #: 7.2-2 Material: Off-White Marbled Linoleum Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 5% Other - 95%
Lab ID #: 47252 - 13 Cust. #: 8.1-2 Material: 4" White Cove Base Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47252 - 14 Cust. #: 8.2-2 Material: 4" White Cove Base Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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 Robert T. Letarte Jr., Laboratory Director

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## Test Method, Polarized Light Microscopy (PLM)

Project: AAHC Mallet's Creek Bldg. 2  
Project # 8360e-6-190

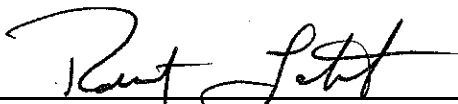
**Report To:**

Mr. Carl Rogers  
AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47252  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47252 - 15 Cust. #: 9.1-2 Material: Off-White/Spots Flooring Location: Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%
Lab ID #: 47252 - 16 Cust. #: 9.2-2 Material: Off-White/Spots Flooring Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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NVLAP Lab Code 102118-0

**APEX Research, Inc.**

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.  
 Web Site: <http://apexresearch-inc.com> Email: [Bob.Letarte@apexresearchlab.com](mailto:Bob.Letarte@apexresearchlab.com)



Client Name: AKT Deerless

Address: \_\_\_\_\_

City, St., Zip: Farmington

Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8/14/13

Project: AAHC Jallett's Creek Buildings 3

Project # 8360e-6-190

Contact Person: Carl Rogers

**Turn Around Times: (Circle One)**

Rush 24 hour

48 hour 72 hour

Other: TTP X  
 (Test Till Positive)

\*\*\*Terms and conditions on the other side.

*rogers@aktdeerless.com*

Lab Use Only  
 Log-In: \_\_\_\_\_  
 Report: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Verbal: \_\_\_\_\_  
 Email: \_\_\_\_\_

Asbestos: Bulk X Wipe \_\_\_\_\_ Point Count \_\_\_\_\_ PCM \_\_\_\_\_  
 Lead: Bulk Wipe \_\_\_\_\_ Air \_\_\_\_\_ Paint \_\_\_\_\_ Soil \_\_\_\_\_  
 Mold: Bulk Tape \_\_\_\_\_ BioSIS \_\_\_\_\_ Other \_\_\_\_\_ Viable \_\_\_\_\_  
 TEM: Bulk/NOP AHERA \_\_\_\_\_ EPA Level II \_\_\_\_\_ Other \_\_\_\_\_

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1.1-3	12" off white w/streaks floor tile "			
2	1.2-3	"			
3	2.1-3	4" Gray Core Base "			
4	2.2-3	"			
5	3.1-3	12" Gray w/specks floor tile "			
6	3.2-3	"			
7	4.1-3	Dots on off white flooring "			
8	4.2-3	"			
9	5.1-3	Dry wall "			
10	5.2-3	"			

**RECEIVED**

Relinquished By: [Signature]

Date: 8/14/13

Received By: [Signature]

Date: 8/14/13

Relinquished By: \_\_\_\_\_

Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_

Date: \_\_\_\_\_

47250

# APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449-9990, Fax (734) 449-9991.  
Web Site: <http://apexresearch-inc.com>. Email: Bob Letarte@apexresearchlab.com



Client Name: ACT  
Address: \_\_\_\_\_  
City, St., Zip: Farmington  
Phone: 248-615-1333 Fax: 248-615-1374

Date of Survey: 8/14/13  
Project: AAC Miller's Creek Building 3  
Project # 8360e-6-190  
Contact Person: Carl Rogers

## Turn Around Times: (Circle One)

Rush \_\_\_\_\_  
24 hour \_\_\_\_\_  
48 hour \_\_\_\_\_  
72 hour X  
TTP X  
(Fast, Till Positive)

\*\*\*Firms and conditions on the other side.

Asbestos: Bulk X Wipe \_\_\_\_\_ Point Count \_\_\_\_\_ PCM \_\_\_\_\_  
Lead: Bulk \_\_\_\_\_ Wipe \_\_\_\_\_ Air \_\_\_\_\_ Paint \_\_\_\_\_ Soil \_\_\_\_\_  
Mold: Bulk \_\_\_\_\_ Tape \_\_\_\_\_ BioSIS \_\_\_\_\_ Other \_\_\_\_\_ Viable \_\_\_\_\_  
TEM: Bulk/NOP \_\_\_\_\_ AHERA \_\_\_\_\_ EPA Level II \_\_\_\_\_ Other \_\_\_\_\_

Lab Use Only  
Log-In: \_\_\_\_\_  
Report: \_\_\_\_\_  
Fax: \_\_\_\_\_  
Verbal: \_\_\_\_\_  
Email: \_\_\_\_\_

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
11	601-3	off white squares Girdleum "			
12	602-3	"			
13	71-3	4" Brown Cove Base "			
14	72-3	"			

RECEIVED

Relinquished By: \_\_\_\_\_  
Date: 8/14/13

Received By: MLG  
Date: 8/14/13

Relinquished By: \_\_\_\_\_  
Date: \_\_\_\_\_

Relinquished By: \_\_\_\_\_  
Date: \_\_\_\_\_



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: AAHC - Mallet's Creek Bldg. 3  
Project # 8360e-6-190

**Report To:**

Mr. Carl Rogers  
AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47250  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47250 - 01 Cust. #: 1.1-3 Material: 12" Off-White w/Streaks Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 01a Cust. #: 1.1-3 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 02 Cust. #: 1.2-3 Material: 12" Off-White w/Streaks Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



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Project # 8360e-6-190


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22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47250  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47250 - 02a Cust. #: 1.2-3 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 03 Cust. #: 2.1-3 Material: 4" Gray Covebase Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 03a Cust. #: 2.1-3 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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 \_\_\_\_\_  
 Robert T. Letarte Jr., Laboratory Director

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Project: AAHC - Mallet's Creek Bldg. 3  
Project # 8360e-6-190


**Report To:**

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AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47250  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47250 - 04 Cust. #: 2.2-3 Material: 4" Gray Covebase Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 04a Cust. #: 2.2-3 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 05 Cust. #: 3.1-3 Material: 12" Gray w/Specks Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 13-47250  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47250 - 05a Cust. #: 3.1-3 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 06 Cust. #: 3.2-3 Material: 12" Gray w/Specks Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 06a Cust. #: 3.2-3 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Project # 8360e-6-190


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Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47250 - 07 Cust. #: 4.1-3 Material: Off-White Flooring/Dots Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47250 - 08 Cust. #: 4.2-3 Material: Off-White Flooring/Dots Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47250 - 09 Cust. #: 5.1-3 Material: Drywall Location: Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%

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Project # 8360e-6-190


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Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47250 - 10 Cust. #: 5.2-3 Material: Drywall Location: Appearance: grey, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47250 - 11 Cust. #: 6.1-3 Material: Off-White Squares Linoleum Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 47250 - 12 Cust. #: 6.2-3 Material: Off-White Squares Linoleum Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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Project # 8360e-6-190

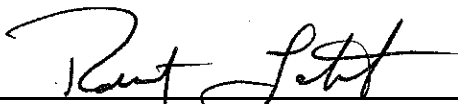
**Report To:**

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AKT Peerless  
22725 Orchard Lake Rd.  
Farmington, MI 48336

ARI Report # 13-47250  
Date Collected: 08/14/13  
Date Received: 08/15/13  
Date Analyzed: 08/20/13  
Date Reported: 08/20/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47250 - 13 Cust. #: 7.1-3 Material: 4" Brown Covebase Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 47250 - 14 Cust. #: 7.2-3 Material: 4" Brown Covebase Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

For Layered Samples, each component will be analyzed and reported separately.

  
 Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0

**ATTACHMENT 2**

**Asbestos Survey Methodology**

## ASBESTOS SURVEY METHODOLOGY

The asbestos survey was performed according to the following methodology:

1. Numerical functional space (FS) designations were assigned to each space in the structure. In general, an FS is defined as a spatially distinct room or area within the building. Functional Spaces also include attics, closets and basements. For clarification, functional space designations were field marked in each space.

2. Suspect Homogeneous Areas (HA) i.e., materials, were inventoried by type based on appearance and other characteristics. Building materials suspect for asbestos content were described based on one of three material classifications:

**Surfacing Materials (SM):** Sprayed-on, troweled-on, or otherwise applied to surfaces, such as friable acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

**Thermal System Insulation (TSI):** Material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat lost or gain, or water condensation, or for other purposes.

**Miscellaneous Materials (MM):** A building material on structural components, structural members, or fixtures, such as non-friable hard-wall and ceiling plaster, floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

3. When a material is determined to be asbestos-containing either through sampling and laboratory analysis or by assumption, the material is grouped into one of three categories: 1) friable regulated asbestos 2) Category II non-friable asbestos or 3) Category I nonfriable asbestos. All friable regulated materials and Category II non-friable materials that will become friable during demolition were sampled. Category I non-friable materials were not sampled but were assumed asbestos-containing. Category I non-friable materials do not become friable during demolition and do not require removal unless the substrate will be recycled.

4. All samples collected were submitted with chain-of-custody documentation to an analytical laboratory that participates in the National Voluntary Laboratory Accreditation Program (NVLAP). All samples were analyzed using polarized light microscopy (PLM) with dispersion staining following United States Environmental Protection Agency (USEPA) Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook.

5. A Test-Till-Positive (TTP) approach to laboratory analysis was utilized for the samples. TTP involves analyzing samples by homogeneous area groupings. Laboratory analyses were performed sample by sample within each homogeneous area grouping until a sample was determined to be asbestos containing, then no additional samples in that grouping were analyzed.