AKTPEERLESS

PRE-DEMOLITION ASBESTOS CONTAINING MATERIALS AND HAZMAT SURVEY

33000 Thomas Street Farmington, Michigan

PREPARED FOR **City of Farmington**
23600 Liberty Street
Farmington, Michigan 48335

PROJECT # 12083f2-3-194

DATE October 4, 2019

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PRE-DEMOLITION ASBESTOS AND HAZARDOUS MATERIALS SURVEY

33000 Thomas Street Farmington, Michigan

EXECUTIVE SUMMARY

The City of Farmington, the Client, retained AKT Peerless to conduct a pre-demolition Asbestos and Hazardous Materials Survey of the structure located at 33000 Thomas Street, Farmington, Michigan. AKT Peerless' scope-of-services is based on its proposal PF-24832, dated July 23, 2019, and the terms and conditions of that agreement.

AKT Peerless performed an asbestos-containing materials (ACM) identification survey of the building. Suspect materials were identified and inventoried by a Michigan-accredited Asbestos Building Inspector. Based on the types and quantities of suspect materials discovered in the facility, bulk samples were collected to determine the asbestos content.

Of the 41 distinct suspect homogeneous materials that were sampled and submitted for laboratory analysis, the following were determined to be asbestos containing materials (ACM):

- 9" Tan with White Streaks Floor Tiles
- Pipe Fittings on Fiberglass Lines
- Window Glazing
- Black Sink Undercoating
- 12" Rust Floor Tiles
- Pipe Fittings on Millboard Lines
- Labeled Fire Doors (assumed to be asbestos containing materials)

AKT Peerless also prepared an inventory of other regulated materials in the facility that, must be properly containerized for disposal or recycling. The following list is not comprehensive, but instead includes examples of other regulated items identified at the site.

- Fluorescent Light Bulbs and Ballasts
- Safety Lighting
- Thermostats
- Thermometers
- Refrigerator, Air Conditioning, Drinking Fountain and Freezer Units
- Fire Extinguishers
- Exit Signs

AKT Peerless also sampled representative paint coatings. Building demolition work involving lead paint coated building components is regulated under the MIOSHA Lead in Construction Standard (Part 603) and applies when painted surfaces have been identified to contain lead in any detectable concentration (i.e., lead-based paint is not defined under OSHA). There is currently no level of lead in paint for which the Lead in Construction Standard does not apply.

Details about asbestos and other environmentally-regulated/universal waste items identified at the site are presented in the attached sections of this report.

NEXT STEPS

ACM must be removed in advance of any demolition and/or renovation within the facility. Michigan Department of Environmental Quality (MDEQ) and Michigan Occupational Safety and Health Administration (MIOSHA) Asbestos Program regulations require that removal and disposal of ACM must be performed according to specified practices and procedures by a licensed asbestos abatement contractor. Properly trained and state-accredited personnel must perform the abatement. If a bid specification scope of work/project design for removal of the ACM is developed, it must be done by a state-accredited Asbestos Project Designer.

Air monitoring during abatement must be conducted to ensure asbestos contamination generated during abatement is contained within the regulated work areas. A visual inspection and final clearance air sampling in regulated abatement areas must be performed before being released for other subsequent construction activities.

1.0 Introduction

The City of Farmington (Client), retained AKT Peerless to conduct a pre-demolition Asbestos and Hazardous Materials Survey of the structure located at 33000 Thomas Street, Farmington, Michigan. AKT Peerless' scope-of-services is based on its proposal PF-24832, dated July 23, 2019, and the terms and conditions of that agreement.

2.0 Purpose

The purpose of AKT Peerless' pre-demolition asbestos survey is to (a) identify and locate suspect ACM, (b) establish a sampling plan, based on homogeneous and functional areas, to sample significant sources of friable and non-friable suspect ACM, (c) quantify the amount of asbestos ACM identified at the property, and (d) prepare a final report documenting confirmed ACM and Presumed Asbestos Containing Materials (PACM) quantities, locations, and laboratory results.

The hazardous/other regulated materials survey was conducted to identify other non-asbestos materials that require removal and disposal or recycling prior to demolition of the structure.

2.1 Scope of Work – Asbestos Survey

The scope of work for AKT Peerless' pre-demolition asbestos survey is based on the Asbestos Hazard Emergency Response Act (AHERA) inspection and management requirements for commercial and industrial buildings. Because renovation activities are planned for the structure, it is subject to Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) standards.

Asbestos survey activities were completed in accordance with the following protocol:

- The inspection was performed to determine the extent and location of suspect ACM present in the subject building. This survey was quantitative in that an attempt was made to locate accessible friable and non-friable ACM areas, as well as estimate the quantity of ACM. Bulk samples of suspect ACM were collected by a Michigan-accredited Asbestos Building Inspector.
- Bulk samples were collected of each homogeneous material area encountered in accordance with EPA-recommended sampling guidelines. If a suspect material was not sampled, then it was presumed asbestos-containing (PACM).
- Samples of suspect ACM were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP)-accredited laboratory for analysis via Polarized Light Microscopy and dispersion staining (PLM) following the EPA Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook.
- Laboratory analysis was performed using first positive stop analysis methodologies. First positive stop involves analyzing samples by homogeneous material groupings. Laboratory analyses proceeded sample by sample, within each homogeneous material grouping, until a sample was determined to be asbestos containing.
- Although PLM is currently the accepted and approved method for analysis, the method is limited in its ability to provide a quantitative result when asbestos represents a small fraction of the material. Current USEPA guidelines specify that when initial laboratory analysis of friable materials detects the presence of asbestos in a quantity between less than one percent (or trace) and less than ten percent, a verification analysis using the point counting analytical

method may be considered. If the client does not exercise the option to conduct point counting, the material in question will be considered ACBM as identified by PLM analysis.

- Upon completion of the field inspection and receipt of laboratory data, this report was prepared and includes: (a) a general description of the suspect ACM identified and non-suspect homogeneous materials that were visually evaluated, (b) a determination of the quantity of suspect materials observed, (c) laboratory testing results, and (d) quality control measures.

2.2 Scope of Work – Hazardous/Other Regulated Materials Survey

The purpose of AKT Peerless' hazardous materials survey was to: (a) identify and locate potentially hazardous materials (other than asbestos) that may require removal and disposal, or other special consideration, before the building renovation occurs (often these materials are banned from landfill disposal); and (b) prepare a final summary report documenting the potentially hazardous materials.

2.3 Clarifications and Exceptions

AKT Peerless uses trained and licensed inspectors in attempting to locate and identify materials potentially containing asbestos. AKT Peerless conducted invasive access to identify potential asbestos materials within the subject buildings; however, there may be additional asbestos materials that were not found because they were not accessible to the inspector. Asbestos was used in a variety of building components and in many types of materials in the construction of buildings. In some of these components, asbestos may be present, not as an intentional ingredient, but as a contaminant.

During execution of this survey, the work was performed using commercially reasonable best efforts consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

QUANTITIES OF IDENTIFIED ACM REPORTED IN THIS DOCUMENT ARE PROVIDED FOR REFERENCE ONLY AND SHOULD NOT BE SOLELY RELIED UPON FOR ABATEMENT BIDDING PURPOSES. AKT Peerless strongly cautions against utilizing the reported material quantities without field verification. It is expected that contractors will utilize their own quantities when preparing bid pricing. Further, it should be anticipated that there will be other costs associated with the construction/asbestos abatement including engineering and testing fees. For planning purposes, AKT Peerless recommends an allowance of 20 percent for these costs.

AKT Peerless encountered the following building-specific limitations during the Asbestos Survey:

- Not all spaces/cavities enclosed by wall systems were accessed. Wall systems included drywall and plaster walls and masonry cinder block. Only limited, representative inspection of wall spaces were performed.

2.4 Previous Inspection Reports, Building Plans and Construction Specifications

AKT Peerless was provided with historical asbestos inspection information and general layout maps of the subject property.

The following sections of this survey outline the approach, procedures, and methods employed by AKT Peerless to conduct the ACM Survey of the subject property.

2.5 Description of Homogeneous Areas

AKT Peerless identified Homogeneous Areas (HA) based on appearances and type of materials observed. As defined under AHERA, a homogeneous area is an area (material) that appears similar throughout in terms of its color, texture, and date of material application.

In addition, building materials suspect for asbestos content are also described based on one of three following material classifications:

Surfacing Materials

A material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes. Glued-on ceiling panels are interpreted by the State of Michigan as a surfacing material.

Thermal System Insulation

A 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

A building material on structural components, structural members or fixtures, such as floor and ceiling panels, and does not include surfacing material or thermal system insulation.

AKT Peerless identified homogeneous suspect ACM at the subject property for sampling or that were already characterized as asbestos-containing. These materials are described in detail in Appendix A.

2.6 Description of Functional Spaces

During the asbestos survey, AKT Peerless identified various Functional Spaces (FS) in the building. In general, functional spaces are defined as spatially distinct units or areas within the building, which contain identifiable populations of building occupants. Functional spaces can also include storage spaces, mechanical rooms, closets and services areas, etc. However, a functional space can also be delineated based on general building layout, facility use factors, and can be assigned using various arbitrary factors that were useful in the completion of this survey.

Functional Space designations for the subject structure are listed in Appendix A.

2.7 Bulk Sample Material Inventory

Based on the homogeneous materials and functional spaces identified during this pre-renovation survey, AKT Peerless collected 96 bulk samples for analysis. In general, AKT Peerless' sampling protocol consisted of (a) wetting or misting the sample as appropriate, (b) extracting a sample with a clean knife, chisel, or coring tool and (c) placing the sample into a sealed polyethylene sample container.

The sampling protocol used to procure the appropriate number of samples for an identified homogeneous area of suspect ACM is based on sampling guidelines outlined under AHERA and is detailed as follows:

Surfacing Materials (SM)

Surfacing materials consist of building materials that have been spray-on, troweled-on, or otherwise applied to building surfaces for acoustical, fireproofing, or decorative purposes. Samples of suspect surfacing materials were collected using the following sampling guidelines:

Size of Sampling Area	USEPA Recommended Number of Samples to Collect	Minimum Number of Samples to Collect
Less than 1,000 square feet	9	3
Between 1,000 & 5,000 square feet	9	5
Greater than 5,000 square feet	9	7

Sample locations of friable surfacing materials selected were based on the EPA random number generation strategy and are representative of the entire material area.

Thermal System Insulation (TSI)

This category consists of insulation used to inhibit heat transfer or prevent condensation on mechanical system components. For thermal system insulation, the number of samples and the sample locations was dependent on access considerations and the likelihood of asbestos content.

Miscellaneous Materials (MM)

Miscellaneous materials consist of interior and exterior building components and are typically located on structural components, structural members, or fixtures, such as floor tiles, ceiling panels and roofing materials. Sampling of these materials was performed by delineation of homogeneous areas and functional spaces. Based on the number of different materials identified, suspect materials were analyzed based on multiple samples per material.

2.8 Laboratory Analytical Procedures

All samples collected were submitted to APEX Research, Inc. (APEX) of Whitmore Lake, Michigan for analysis. APEX is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Samples were submitted under chain-of-custody guidelines to ensure proper handling and delivery of the samples. The samples were analyzed using Polarized Light Microscopy (PLM) with dispersion staining in accordance with the following USEPA guidance document Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, dated July, 1993.

The USEPA defines ACM as those materials that contain greater than one percent asbestos. Friable materials are defined as those that can be crumbled or reduced to powder by hand pressure. The National Emission Standards for Hazardous Air Pollutants (NESHAP) for asbestos, dated November 1990 stipulates that any friable material identified as containing asbestos in concentrations greater than one percent must be considered ACM.

Materials containing one (1) percent or less asbestos are generally considered non-asbestos-containing and therefore are not regulated by NESHAP. The OSHA definition of ACM is similarly any material

containing more than one (1) percent asbestos. However, specific work practices must be followed under OSHA regulations for materials containing less than one percent asbestos if an individual layer exceeds one percent. Under the PLM method, percentages and types of fibrous components in these samples were determined by visual estimation of the amount of fibrous materials versus the total amount of material present.

Current USEPA guidelines specify that when initial laboratory analysis of friable or non-friable materials regulated under NESHAP detects the presence of asbestos in a quantity between less than one percent (or trace) and less than ten percent, a verification analysis using the point counting analytical method should be considered or the material in question should be treated as ACBM as identified by PLM analysis.

AKT Peerless utilized the "positive-stop" method of sample analyses. Following this method, the analyses of a homogeneous material is stopped on a group of samples once the first positive (e.g., greater than 1% asbestos) sample is analyzed. According to the USEPA, if one sample of a homogenous material is identified to be asbestos-containing, the entire material must be considered asbestos-containing.

Based on appearances and type of materials, suspect ACMs were grouped into homogeneous areas and functional spaces as appropriate based on apparent age and similarity in texture and color. Upon completion of these activities, representative bulk samples of the suspect materials were collected.

Bulk Sample Laboratory Reports with Chain-of-Custody records for each area are presented in Appendix B.

3.0 Asbestos Survey - Conclusions and Recommendations

AKT Peerless was retained to conduct a pre-demolition Asbestos Survey of the structure at 33000 Thomas Street Farmington, Michigan. The purpose of the survey was to determine the location of ACMs that will require special handling procedures or removal activities before general building demolition. The following sections of this report summarize the findings of the Asbestos Survey.

3.1 Summary of Identified Asbestos Containing Materials

HA No.	Material Description	Material Location	Approx. Quantity	Friability
6	**Fire Doors (Assumed ACM)**	**FS-1, FS-5, FS-9, FS-14, FS-15, FS-16, FS-17, FS-20, FS-37, FS-43**	**21**	**Non-friable**

HA No.	Material Description	Material Location	Approx. Quantity	Friability
17	**9" Tan w/White Streaks Floor Tiles** (Non ACM Mastic)	**FS-14, FS-25, Between FS-25 and FS-26, FS-26, FS-28, FS-30, FS-31, FS-32, FS-33, FS-40, FS-41, FS-43, FS-44, FS-46, FS-47, FS-48A, FS-48B, FS-49, FS-50, FS-51, FS-52, FS-53, FS-54**	**19,500 SF**	**Non-friable**
19	**Pipe Fittings on Fiberglass Lines**	**FS-3, FS-8, FS-10, FS-11, FS-12, FS-14, FS-16, FS-17, FS-18, FS-21, FS-22, FS-27, FS-30, FS-31, FS-32**	**175 Fittings**	**Friable**
32	**Window Glazing**	**FS-24**	**2 Windows/2 SF**	**Non-friable**
34	**Black Sink Undercoating**	**FS-30, FS-50, FS-54**	**12 SF**	**Non-friable**
35	**12" Rust Floor Tiles** (Non ACM Mastic)	**FS-20**	**450 SF**	**Non-friable**
40	**Pipe Fittings on Millboard Lines**	**FS-3, FS-22**	**25 Fittings**	**Friable**

4.0 Lead and Cadmium Paint Sampling

AKT Peerless also conducted representative sampling within designated areas of the facility to identify the existence of lead-based and cadmium containing paint. Description of the procedures used as part of this survey and its findings are provided in the following section of this report.

4.1 Lead and Cadmium Paint Testing

AKT Peerless conducted sampling within the building to identify the existence of lead and cadmium-paint in the structure. Three chip samples were collected for analysis of lead in representative painted surface coatings. AKT Peerless did not attempt to sample or inventory all painted surfaces and components but rather sampled paint from the main systems of paint based on surface coverage area.

Paint chip samples were submitted under chain-of-custody control to an accredited laboratory for analysis by the SW846 Analytical Method. Results are presented in the following table:

Sample No.	Location	Paint Color	Lead	Cadmium	Substrate
P1	West Entry	White	.19%	<0.01%	Block Wall
P2	Suite 102	Blue	.12%	0.01%	Door
P3	Main Entry	Purple	.36%	0.03%	Door Frame
P4	Southwest Entry	Charcoal	.17%	<0.07%	Door Frame
P5	West of Gym	White	<0.04%	<0.04%	Drywall Wall
P6	Gym	Blue	1.19%	<0.04%	Steel Column

Laboratory analytical data and chain-of-custody documentation associated with paint sampling is included in Appendix C.

Lead was identified above the analytical limit of detection in 5 of the collected samples. Cadmium was identified above the analytical limit of detection in 2 of the collected samples.

5.0 Survey for Other Potentially Hazardous Materials

AKT Peerless also conducted an inspection of the facility to identify the existence of other potentially hazardous materials that may exist within containers such as drums, basins, tanks and in general storage areas. A description of the survey procedures used as part of this survey and its findings are provided in the following section of this report.

5.1 Hazardous Materials/Universal Waste Inspection

AKT Peerless conducted an inspection of the building to identify the existence of potentially hazardous materials and/or wastes that may require removal and disposal, or other special consideration, before the building renovation occurs.

No intrusive investigation or use of remote sensing equipment was used and no sampling of other hazardous materials was performed.

The survey was conducted to identify universal hazardous wastes or regulated materials/wastes. The building was inspected for potential hazardous materials such as PCB or oil containing light ballasts, batteries, chlorofluorocarbon-containing equipment, smoke detectors, fire extinguishers, exit signs, and mercury light tubes and switches. The survey of lighting/alarm systems comprised a visual inspection of the exterior of accessible emergency, light and exit sign fixtures, panels or components for possible PCB-containing ballast systems, mercury vapor lighting fixtures, batteries or other hazardous materials. If present, significant areas of oil-staining were also noted. No intrusive examination or contact with manufacturers, sample collection, or testing of this equipment was performed. No sampling of any hazardous component materials was performed.

An inventory of hazardous/universal waste materials and containers is included in Appendix D.

6.0 Limitations

The information and opinions obtained in this report are for the exclusive use of Client. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given based on that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and the City of Farmington.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by the City of Farmington, its affiliates, subsidiaries, and their successors, assigns, and grantees, or third parties is complete or accurate.

7.0 Signatures

The following professionals prepared this report.

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Southeast Michigan Region
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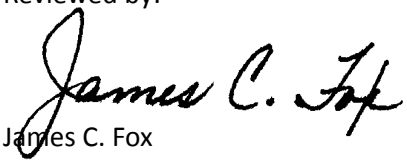
Reviewed by:



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Senior Project Manager
MIOSHA LARA CSHD Asbestos Inspector/Management Planner/Project Designer Accreditation No. A3152

Figure 1

Functional Spaces Map

SECOND FLOOR PLAN

N
W E
S

FS-54 34.2
FS-53
FS-50 34.1
FS-49 10.3
FS-46 17.2 20.2
FS-42
FS-45
FS-43
FS-38
FS-52
FS-51 36.2
FS-48B
FS-48A
FS-47 36.1
FS-44

FS-15 10.1 10.2 22.1 21.1 22.2 21.2
FS-21 12.6 25.1 25.2 26.1 27.1 27.2
FS-25 17.1 20.1
FS-25B
FS-25A
FS-26
FS-22 1.2 5.2 26.2 2.2 3.2 39.3
FS-14 18.1
FS-13
FS-27
FS-28
FS-29
FS-30
FS-22 19.2 19.3
FS-35
FS-34
FS-33
FS-32
FS-31
FS-12
FS-16
FS-17
FS-37
FS-8 12.4 14.1 14.3 15.1 14.2 14.4 15.2
FS-6 12.1 12.2 12.9
FS-7 12.3
FS-24 12.7 32.1 33.1 25.3 32.2 33.2
FS-18 18.2 23.2 23.1
FS-20 24.1 35.1 24.2 35.2
FS-3 19.1 39.1 39.2 40.1 40.2 40.3
FS-5 7.2 8.2 13.1 13.2
FS-11 12.5
FS-10
11.2
16.1 16.2
FS-9 16.3
FS-9
FS-2
8.1 9.1 9.2
FS-19 28.1 28.2 29.1 29.2 30.1 30.2 41.1 41.2
FS-4 11.1
FS-1 1.1 2.1 3.1 4.1 4.2 5.1
FS-23 31.1 31.2
7.1
FS-2

40.3 = ASBESTOS CONTAINING MATERIALS

DRAWN BY: MST
DATE: 09/30/2019

0 15 30
SCALE: 1" = 30'

FIGURE 1

FUNCTIONAL SPACES MAP

33000 THOMAS STREET
FARMINGTON, MICHIGAN
PROJECT NUMBER: 12083F2-3-194

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Appendix A

Homogeneous Area Summary

Bulk Sample Results Summary

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HOMOGENEOUS AREA SUMMARY

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

HA No.	Material Description	Material Location(s)	Material Class	Approx. Quantity	Friability
1	12" Tan Marbled Floor Tiles and Mastic	FS-1, FS-3, FS-15, FS-16, FS-22, FS-36, FS-38, FS-54	MM	4,000 SF	NF
2	12" Brown Marbled Floor Tiles and Mastic	FS-1, FS-3, FS-19, FS-22, FS-27, FS-28, FS-30, FS-33, FS-35, FS-38, FS-39, FS-40	MM	5,750 SF	NF
3	12" Purple Floor Tiles and Mastic	FS-1, FS-3, FS-21, FS-22, FS-38	MM	1,300 SF	NF
4	4" Tan Cove Base and Adhesive	FS-1, FS-3, FS-16, FS-21, FS-22, FS-31, FS-32, FS-38	MM	600 SF	NF
5	2'x4' Pinhole Ceiling Tiles	FS-1, FS-3, FS-22, FS-31, FS-32, FS-33, FS-35, FS-38, FS-39. FS-44	MM	10,600 SF	F
6	**Fire Doors (Assumed ACM)**	**FS-1, FS-2, FS-4, FS-5, FS-9, FS-14, FS-15, FS-16, FS-17, FS-20, FS-37**	**MM**	**23 Doors**	**NF**
7	Carpet Glue	FS-2, FS-4, FS-5, FS-9, FS-15, FS-25, FS-26, FS-27, FS-28, FS-29, FS-30, FS-31, FS-32, FS-34, FS-44, FS-46, FS-47, FS-48, FS-49, FS-50, FS-51, FS-52, FS-53, FS-54	MM	24,000 SF	NF
8	2'x2' Ceiling Tiles with Transverse Fissures and Pinholes	FS-2, FS-4, FS-5, FS-15, FS-25, FS-27, FS-28, FS-29, FS-30, FS-34, FS-36, FS-41, FS-44, FS-46, FS-48, FS-49, FS-50, FS-51, FS-52, FS-53, FS-54	MM	20,000 SF	F
9	4" Purple Cove Base and Adhesive	FS-2, FS-4, FS-15	MM	135 SF	NF
10	Drywall and Joint Compound	FS-4, FS-5, FS-12, FS-14, FS-15, FS-18, FS-27, FS-36, FS-39, FS-40, FS-41, FS-43, FS-44, FS-46, FS-47, FS-48, FS-49, FS-50, FS-51, FS-52, FS-53, FS-54	MM	8,500 SF	NF

Tabulated By: CR

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HOMOGENEOUS AREA SUMMARY

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

HA No.	Material Description	Material Location(s)	Material Class	Approx. Quantity	Friability
11	Yellow Glue on Wall	FS-4, FS-9, FS-25, FS-26, FS-28, FS-32, FS-36	MM	450 SF	NF
12	Plaster	FS-5, FS-6, FS-7, FS-8, FS-11, FS-13, FS-17, FS-18, FS-19, FS-21, FS-24, FS-36, FS-37, FS-38, FS-42	SM	6,000 SF	NF
13	4" Gray Cove Base and Adhesive	FS-5	MM	100 SF	NF
14	Walk In Freezer Gaskets	FS-8	MM	20 SF	NF
15	2'x4' Smooth Ceiling Tiles	FS-8	MM	500 SF	F
16	Brown Glue Pods	FS-9	MM	165 SF	NF
17	**9" Tan w/ White Streaks Floor Tiles and Mastic**	**FS-14, FS-25, Between FS-25 and FS-26, FS-26, FS-28, FS-30, FS-31, FS-32, FS-33, FS-40, FS-41, FS-43, FS-44, FS-46, FS-47, FS-48A, FS-48B, FS-49, FS-50, FS-51, FS-52, FS-53, FS-54**	**MM**	**19,500 SF**	**NF**
18	4" Black Cove Base and Adhesive	FS-14, FS-18, FS-21, FS-24, FS-36	MM	250 SF	NF
19	**Mud Fittings on Fiberglass Lines**	**FS-3, FS-8, FS-10, FS-11, FS-12, FS-14, FS-16, FS-17, FS-18, FS-21, FS-22, FS-27, FS-30, FS-31, FS-32**	**TSI**	**175 Fittings**	**F**
20	4" Brown Cove Base and Adhesive	FS-15, FS-25, FS-26, FS-27, FS-28, FS-29, FS-30, FS-33, FS-34, FS-35, FS-39, FS-40, FS-41, FS-43, FS-44, FS-46, FS-47, FS-48, FS-49, FS-50, FS-51, FS-52, FS-53, FS-54	MM	1,000 SF	NF
21	2'x4' Textured Ceiling Tiles	FS-15	MM	400 SF	F
22	Gray Sink Undercoating	FS-15, FS-28	MM	8 SF	NF

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HOMOGENEOUS AREA SUMMARY

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

HA No.	Material Description	Material Location(s)	Material Class	Approx. Quantity	Friability
23	12" Tan w/ Brown Streaks Floor Tiles and Mastic	FS-18	MM	750 SF	NF
24	12" Ceiling Tiles w/ Medium Holes and Glue Pods	FS-20, FS-25	MM	600 SF	NF
25	Textured Plaster	FS-21, FS-24	SM	550 SF	NF
26	12" Gray Marbled Floor Tiles and Mastic	FS-21, FS-22	MM	1,500 SF	NF
27	12" Tan w/ White and Black Dots Floor Tiles	FS-21	MM	500 SF	NF
28	12" Textured Ceiling Tiles	FS-19	MM	4,000 SF	F
29	Wood Block Mastic	FS-19, FS-24	MM	9,000 SF	NF
30	2'x2' Ceiling Tiles with Medium Holes	FS-19	MM	10,000 SF	F
31	12" Smooth Ceiling Tiles	FS-23	MM	350 SF	F
32	**Window Glazing**	**FS-24**	**MM**	**2 Windows/2 SF**	**NF**
33	12" Beige Floor Tiles with Mastic	FS-24	MM	50 SF	NF
34	**Black Sink Undercoating**	**FS-30, FS-50, FS-54**	**MM**	**12 SF**	**NF**
35	**12" Rust Floor Tiles and Mastic**	**FS-20**	**MM**	**450 SF**	**NF**
36	Black Tar Paper on Steel Beams	2nd Floor Above Drop Ceilings	MM	NE	NF
38	Cloth Duct Joints	1st Floor Mechanical by Center Stairs, 2nd Floor Mechanical Across from Elevators	MM	16 SF	F
39	Millboard Pipe Insulation	FS-3, FS-22	TSI	450 LF	F
40	**Mud Fittings on Millboard Lines**	**FS-3, FS-22**	**TSI**	**25 Fittings**	**F**

Tabulated By: CR

AKTPEERLESS

HOMOGENEOUS AREA SUMMARY

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

HA No.	Material Description	Material Location(s)	Material Class	Approx. Quantity	Friability
41	Tar Paper Above Ceiling Tiles	Gym	MM	10,000 SF	F
EXT-1	Roofing	Exterior	MM	NE	NF
EXT-2	Brick/Mortar	Exterior	MM	NE	NF
EXT-3	Overhangs	Exterior	SM	NE	NF
EXT-4	Brown Door Caulk	Exterior (by #2 Door)	MM	5 SF	NF
EXT-5	Black and White Building Caulk	Exterior (South)	MM	15 SF	NF

Tabulated By: CR

AKTPEERLESS

LABORATORY RESULTS SUMMARY

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

HA No.	Material Description	Sample Number	Asbestos Content	Comments
1	12" Tan Marbled Floor Tiles	1.1	T = NAD M = NAD	
		1.2	T = NAD M = NAD	
2	12" Brown Marbled Floor Tiles	2.1	T = NAD M = NAD	
		2.2	T = NAD M = NAD	
3	12" Purple Marbled Floor Tiles	3.1	T = NAD M = NAD	
		3.2	T = NAD M = NAD	
4	4" Tan Cove Base and Adhesive	4.1	Cove Base = NAD Adhesive = NAD	
		4.2	Cove Base = NAD Adhesive = NAD	
5	2'x4' Pinhole Ceiling Tiles	5.1	NAD	
		5.2	NAD	
7	Carpet Glue	7.1	NAD	
		7.2	NAD	
8	2'x2' Ceiling Tiles w/ Transverse Fissures and Pinholes	8.1	NAD	
		8.2	NAD	
9	4" Purple Cove Base and Adhesive	9.1	Cove Base = NAD Adhesive = NAD	
		9.2	Cove Base = NAD Adhesive = NAD	
10	Drywall and Joint Compound	10.1	Drywall = NAD Joint Compound = NAD	
		10.2	Drywall = NAD Joint Compound = NAD	
		10.3	Drywall = NAD Joint Compound = NAD	
11	Yellow Glue on Walls	11.1	NAD	
		11.2	NAD	
		11.3	NAD	
12	Plaster	12.1	Finish Coat = NAD Base Coat = NAD	
		12.2	Finish Coat = NAD Base Coat = NAD	
		12.3	Finish Coat = NAD Base Coat = NAD	
		12.4	Finish Coat = NAD Base Coat = NAD	
		12.5	Finish Coat = NAD Base Coat = NAD	
		12.6	Finish Coat = NAD Base Coat = NAD	
		12.7	Finish Coat = NAD Base Coat = NAD	
		12.8	Finish Coat = NAD Base Coat = NAD	
		12.9	Finish Coat = NAD Base Coat = NAD	

Tabulated By: CR

AKTPEERLESS

LABORATORY RESULTS SUMMARY

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

HA No.	Material Description	Sample Number	Asbestos Content	Comments
14	Walk In Freezer Gaskets	14.1	NAD	
		14.2	NAD	
16	Brown Glue Pods	16.1	NAD	
		16.2	NAD	
		16.3	NAD	
17	**9" Tan w/ White Streaks Floor Tiles and** Non ACM Mastic	**17.1**	Floor Leveler = NAD Mastic = NAD	
		17.2	**Tile = 5% CHR** Mastic = NAD	
18	4" Black Cove Base and Mastic	18.1	Cove Base = NAD Mastic = NAD	
		18.2	Cove Base = NAD Mastic = NAD	
19	**Pipe Fittings on Fiberglass Lines**	**19.1**	**75% CHR**	
		19.2	**NA**	
		19.3	**NA**	
20	4" Brown Cove Base and Adhesive	20.1	Cove Base = NAD Adhesive = NAD	
		20.2	Cove Base = NAD Adhesive = NAD	
21	2'x4' Textured Ceiling Tiles	21.1	NAD	
		21.2	NAD	
22	Gray Sink Undercoating	22.1	NAD	
		22.2	NAD	
23	12" Tan w/ Brown Streaks Floor Tiles and Mastic	23.1	T = NAD M = NAD	
		23.2	T = NAD M = NAD	
24	12" Ceiling Tile w/ Medium Holes	24.1	NAD	
		24.2	NAD	
25	Textured Plaster	25.1	Texture = NAD Finish = NAD Base = NAD	
		25.2	Texture = NAD Finish = NAD Base = NAD	
		25.3	Texture = NAD Finish = NAD Base = NAD	
26	12" Gray Marbled Floor Tiles and Mastic	26.1	T = NAD M = NAD	
		26.2	T = NAD M = NAD	
27	12" Tan w/ White and Black Dots Floor Tiles	27.1	T = NAD M = NAD	
		27.2	T = NAD M = NAD	
29	Black Underlayment Paper	29.1	NAD	
		29.2	NAD	
30	2'x2' Medium Hole Ceiling Tiles	30.1	NAD	
		30.2	NAD	

Tabulated By: CR

AKTPEERLESS

LABORATORY RESULTS SUMMARY

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

HA No.	Material Description	Sample Number	Asbestos Content	Comments
31	12" Smooth Ceiling Tiles w/ Glue Pods	31.1	CT = NAD GP = NAD	
		31.2	CT = NAD GP = NAD	
		31.3	CT = NAD GP = NAD	
32	**Window Glazing**	**32.1**	**1.25% CHR**	**Point Count Results**
		32.2	**NA**	
33	12" Beige Floor Tiles and Mastic	33.1	T = NAD M = NAD	
		33.2	T = NAD M = NAD	
34	**Black Sink Undercoating**	**34.1**	**10% CHR**	
		34.2	**NA**	
35	**12" Rust Floor Tiles and** Non ACM Mastic	**35.1**	**T = 2.25% CHR** M = NAD	**Point Count Results**
		35.2	**T = NA** M = NAD	
36	Black Paper on Cement Beams	36.1	NAD	
		36.2	NAD	
38	Cloth on Duct Joints	38.1	NAD	
		38.2	NAD	
39	Millboard Pipe Insulation	39.1	CHR - Trace	Point Count Results
		39.2	CHR - 0.25%	
		39.3	CHR - Trace	
40	**Pipe Fittings on Millboard Lines**	**40.1**	**50% CHR**	
		40.2	**NA**	
		40.3	**NA**	
41	Tar Paper Above Ceiling in Gym	41.1	NAD	
		41.2	NAD	
EXT-1	Roofing	EXT - 1.1	NAD	
		EXT - 1.2	NAD	
EXT-3	Overhang Plaster	EXT - 3.1	NAD	
		EXT-3.2	NAD	
		EXT - 3.3	NAD	
EXT-4	Brown Door Caulk	EXT-4.1	NAD	
		EXT-4.2	NAD	
EXT-5	Black and White Building Caulk	EXT - 5.1	Black = NAD White = NAD	
		EXT - 5.2	Black = NAD White = NAD	

FS = Functional Space
SF = Square Feet
NE = Not Estimated
PC = Point Count

Bold = Indicates asbestos material
NA = Not Analyzed
GP=Glue Pod

T = Tile
M = Mastic
CT = Ceiling Tile

Tabulated By: CR

Appendix B

Bulk Samples Laboratory Reports and Chain of Custody Record

Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 33000 Thomas, Farmington, MI

Project # :12083F2-3-194

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

ARI Report # 19-86214
Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 01 Cust. #: 1.1 Material: 12" Tan Marbled Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 01a Cust. #: 1.1 Material: Mastic Location: Appearance: black,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%
Lab ID #: 86214 - 02 Cust. #: 1.2 Material: 12" Tan Marbled Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** 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 must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal 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.

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ARI Report # 19-86214
Date Collected: 09/05/19
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Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 02a Cust. #: 1.2 Material: Mastic Location: Appearance: black,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%
Lab ID #: 86214 - 03 Cust. #: 2.1 Material: 12" Brown Marbled Floor Tile Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 03a Cust. #: 2.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Farmington, MI 48336

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Date Collected: 09/05/19
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Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 04 Cust. #: 2.2 Material: 12" Brown Marbled Floor Tile Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 04a Cust. #: 2.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 05 Cust. #: 3.1 Material: 12" Purple Marbled Floor Tile Location: Appearance: purple,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Date Collected: 09/05/19
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Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 05a Cust. #: 3.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 06 Cust. #: 3.2 Material: 12" Purple Marbled Floor Tile Location: Appearance: purple,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 06a Cust. #: 3.2 Material: Mastic Location: Appearance: yellow,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%

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Date Collected: 09/05/19
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Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 07 Cust. #: 4.1 Material: 4" Tan Covebase Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 07a Cust. #: 4.1 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 08 Cust. #: 4.2 Material: 4" Tan Covebase Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Project # :12083F2-3-194

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Farmington, MI 48336

ARI Report # 19-86214
Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 08a Cust. #: 4.2 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 09 Cust. #: 5.1 Material: 2x4 Pinhole Ceiling Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 15% Mineral Wool - 5% Fiberglass - 55% Other - 25%
Lab ID #: 86214 - 10 Cust. #: 5-2 Material: 2x4 Pinhole Ceiling Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 15% Mineral Wool - 5% Fiberglass - 50% Other - 30%

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

Robert T. Letarte Jr., Laboratory Director

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Date Collected: 09/05/19
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Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 11 Cust. #: 7-1 Material: Carpet Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 12 Cust. #: 7-2 Material: Carpet Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 13 Cust. #: 8.1 Material: 2x2 CT w/Transverse Fissures/Pinholes Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 55% Fiberglass - 5% Other - 40%

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

Robert T. Letarte Jr., Laboratory Director

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Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 14 Cust. #: 8.2 Material: 2x2 CT w/Transverse Fissures/Pinholes Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Fiberglass - 5% Other - 35%
Lab ID #: 86214 - 15 Cust. #: 9.1 Material: 4" Purple Covebase Location: Appearance: purple,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 15a Cust. #: 9.1 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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

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Date Collected: 09/05/19
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Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 16 Cust. #: 9.2 Material: 4" Purple Covebase Location: Appearance: purple,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 16a Cust. #: 9.2 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 17 Cust. #: 10.1 Material: Drywall Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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

Robert T. Letarte Jr., Laboratory Director

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Date Collected: 09/05/19
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Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 17a Cust. #: 10.1 Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 18 Cust. #: 10.2 Material: Drywall Location: Appearance: beige,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%
Lab ID #: 86214 - 18a Cust. #: 10.2 Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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ARI Report # 19-86214
Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 19 Cust. #: 10.3 Material: Drywall Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 86214 - 19a Cust. #: 10.3 Material: Joint Compound Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 20 Cust. #: 11.1 Material: Yellow Glue on Walls Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** 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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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 33000 Thomas, Farmington, MI
Project # :12083F2-3-194

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

ARI Report # 19-86214
Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 21 Cust. #: 11.2 Material: Yellow Glue on Walls Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 22 Cust. #: 11.3 Material: Yellow Glue on Walls Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 23 Cust. #: 13.1 Material: 4" Gray Covebase Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 23a Cust. #: 13.1 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 24 Cust. #: 13.2 Material: 4" Gray Covebase Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 24a Cust. #: 13.2 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 25 Cust. #: 12.1 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 25a Cust. #: 12.1 Material: Basecoat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 26 Cust. #: 12.2 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 26a Cust. #: 12.2 Material: Basecoat Location: Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 86214 - 27 Cust. #: 12.3 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 27a Cust. #: 12.3 Material: Basecoat Location: Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 28 Cust. #: 12.4 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 28a Cust. #: 12.4 Material: Basecoat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 29 Cust. #: 12.5 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 29a Cust. #: 12.5 Material: Basecoat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 30 Cust. #: 12.6 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 30a Cust. #: 12.6 Material: Basecoat Location: Appearance: grey,fibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 31 Cust. #: 12.7 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 31a Cust. #: 12.7 Material: Basecoat Location: Appearance: grey,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Hair - 2% Other - 98%
Lab ID #: 86214 - 32 Cust. #: 12.8 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 32a Cust. #: 12.8 Material: Basecoat Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 33 Cust. #: 12.9 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 33a Cust. #: 12.9 Material: Basecoat Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 34 Cust. #: 14.1 Material: Walk-On Freezer Gaskets Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 30% Synthetic - 5% Other - 65%
Lab ID #: 86214 - 35 Cust. #: 14.2 Material: Walk-On Freezer Gaskets Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 36 Cust. #: 16.1 Material: Brown Glue Pods Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 37 Cust. #: 16.2 Material: Brown Glue Pods Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 38 Cust. #: 16.3 Material: Brown Glue Pods Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 39 Cust. #: 17.1 Material: Top Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 39a Cust. #: 17.1 Material: Leveling Compound Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 39b Cust. #: 17.1 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 40 Cust. #: 17.2 Material: 9" Tan w/White Streaks Floor Tile Location: Appearance: grey,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **YES** Chrysotile - 5%	Other - 95%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 40a Cust. #: 17.2 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 41 Cust. #: 18.1 Material: 4" Black Covebase Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 41a Cust. #: 18.1 Material: Mastic Location: Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 42 Cust. #: 18.2 Material: 4" Black Covebase Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 42a Cust. #: 18.2 Material: Mastic Location: Appearance: brown,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 43 Cust. #: 19.1 Material: Pipe Fittings on Fiberglass Lines Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 75%	Other - 25%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 44 Cust. #: 19.2 Material: Pipe Fittings on Fiberglass Lines Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 86214 - 45 Cust. #: 19.3 Material: Pipe Fittings on Fiberglass Lines Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 86214 - 46 Cust. #: 20.1 Material: 4" Brown Covebase Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 46a Cust. #: 20.1 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 47 Cust. #: 20.2 Material: 4" Brown Covebase Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 47a Cust. #: 20.2 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 48 Cust. #: 21.1 Material: 2x4 Textured Ceiling Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 15% Mineral Wool - 5% Fiberglass - 45% Other - 35%
Lab ID #: 86214 - 49 Cust. #: 21.2 Material: 2x4 Textured Ceiling Tile Location: Appearance: beige,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 15% Mineral Wool - 5% Fiberglass - 45% Other - 35%
Lab ID #: 86214 - 50 Cust. #: 22.1 Material: Gray Sink Undercoating Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%

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

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 33000 Thomas, Farmington, MI
Project # :12083F2-3-194

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

ARI Report # 19-86214
Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 51 Cust. #: 22.2 Material: Gray Sink Undercoating Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 86214 - 52 Cust. #: 23.1 Material: 12" Tan w/Brown Streaks Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 52a Cust. #: 23.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 53 Cust. #: 23.2 Material: 12" Tan w/Brown Streaks Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 53a Cust. #: 23.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 54 Cust. #: 24.1 Material: 12" Ceiling Tile w/Medium Holes Location: Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 95% Other - 5%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 55 Cust. #: 24.2 Material: 12" Ceiling Tile w/Medium Holes Location: Appearance: brown,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 86214 - 56 Cust. #: 25.1 Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 56a Cust. #: 25.1 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 56b Cust. #: 25.1 Material: Basecoat Location: Appearance: grey,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 57 Cust. #: 25.2 Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 57a Cust. #: 25.2 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 57b Cust. #: 25.2 Material: Basecoat Location: Appearance: grey,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 58 Cust. #: 25.3 Material: Texture Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 58a Cust. #: 25.3 Material: Plaster - Finish Coat Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 58b Cust. #: 25.3 Material: Basecoat Location: Appearance: grey,nonfibrous,homogenous Layer: 3 of 3	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 59 Cust. #: 26.1 Material: 12" Gray Marbled Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 59a Cust. #: 26.1 Material: Mastic Location: Appearance: yellow,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 60 Cust. #: 26.2 Material: 12" Gray Marbled Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 60a Cust. #: 26.2 Material: Mastic Location: Appearance: yellow,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 5% Other - 95%
Lab ID #: 86214 - 61 Cust. #: 27.1 Material: 12" Tan w/White/Black Dots Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 61a Cust. #: 27.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 62 Cust. #: 27.2 Material: 12" Tan w/White/Black Dots Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 62a Cust. #: 27.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 63 Cust. #: 29.1 Material: Black Underlayment Paper Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 86214 - 64 Cust. #: 29.2 Material: Black Underlayment Paper Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 60% Other - 40%
Lab ID #: 86214 - 65 Cust. #: 30.1 Material: 2x2 Medium Hole Ceiling Tile Location: Appearance: yellow,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 95% Other - 5%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 66 Cust. #: 30.2 Material: 2x2 Medium Hole Ceiling Tile Location: Appearance: yellow,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 86214 - 67 Cust. #: 31.1 Material: 12" Smooth Ceiling Tile Location: Appearance: yellow,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 95% Other - 5%
Lab ID #: 86214 - 67a Cust. #: 31.1 Material: Glue Pod Location: Appearance: brown,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 2% Other - 98%

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

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 68 Cust. #: 31.2 Material: 12" Smooth Ceiling Tile Location: Appearance: yellow,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 95% Other - 5%
Lab ID #: 86214 - 68a Cust. #: 31.2 Material: Glue Pod Location: Appearance: brown,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 2% Other - 98%
Lab ID #: 86214 - 69 Cust. #: 31.3 Material: 12" Smooth Ceiling Tile Location: Appearance: yellow,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Fiberglass - 95% Other - 5%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 69a Cust. #: 31.3 Material: Glue Pod Location: Appearance: brown,fibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Wollastonite - 2% Other - 98%
Lab ID #: 86214 - 70 Cust. #: 32.1 Material: Window Glazing Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 1.25% POINT COUNT RESULT	Other - 98.75%
Lab ID #: 86214 - 71 Cust. #: 32.2 Material: Window Glazing Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 72 Cust. #: 33.1 Material: 12" Beige Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 72a Cust. #: 33.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 73 Cust. #: 33.2 Material: 12" Beige Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 73a Cust. #: 33.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 74 Cust. #: 34.1 Material: Black Sink Undercoating Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 10%	Other - 90%
Lab ID #: 86214 - 75 Cust. #: 34.2 Material: Black Sink Undercoating Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 76 Cust. #: 35.1 Material: 12" Rust Floor Tile Location: Appearance: brown,fibrous,homogenous Layer: 1 of 2	Asbestos Present: **YES** Chrysotile - 2.25% POINT COUNT RESULT	Other - 97.75%
Lab ID #: 86214 - 76a Cust. #: 35.1 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 77 Cust. #: 35.2 Material: 12" Rust Floor Tile Location: Appearance: Layer: 1 of 2	Asbestos Present: No Asbestos Observed	

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 33000 Thomas, Farmington, MI
Project # :12083F2-3-194

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

ARI Report # 19-86214
Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 77a Cust. #: 35.2 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86214 - 78 Cust. #: 36.1 Material: Black Paper Location: On Cement Beams Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 86214 - 79 Cust. #: 36.2 Material: Black Paper Location: On Cement Beams Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 50% Other - 50%

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 must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, 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.

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Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 80 Cust. #: 38.1 Material: Cloth on Duct Joints Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 86214 - 81 Cust. #: 38.2 Material: Cloth on Duct Joints Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 90% Other - 10%
Lab ID #: 86214 - 82 Cust. #: 39.1 Material: Millboard Pipe Insulation Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** Chrysotile - Trace POINT COUNT RESULT	Cellulose - 95% Other - 5%

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Date Collected: 09/05/19
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Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 83 Cust. #: 39.2 Material: Millboard Pipe Insulation Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** Chrysotile - 0.25% POINT COUNT RESULT	Cellulose - 94.75% Other - 5%
Lab ID #: 86214 - 84 Cust. #: 39.3 Material: Millboard Pipe Insulation Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** Chrysotile - Trace POINT COUNT RESULT	Cellulose - 95% Other - 5%
Lab ID #: 86214 - 85 Cust. #: 40.1 Material: Mud Fittings on Millboard Lines Location: Appearance: white,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **YES** Chrysotile - 50%	Cellulose - 20% Other - 30%

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ARI Report # 19-86214
Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 86 Cust. #: 40.2 Material: Mud Fittings on Millboard Lines Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 86214 - 87 Cust. #: 40.3 Material: Mud Fittings on Millboard Lines Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 86214 - 88 Cust. #: 41.1 Material: Tar Paper Location: Above Ceiling - Gym Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 50% Other - 50%

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Date Collected: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/10/19
Date Reported: 09/10/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86214 - 89 Cust. #: 41.2 Material: Tar Paper Location: Above Ceiling - Gym Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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Project : 33000 Thomas

Project # :12083F2-3-194

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

ARI Report # 19-86572
Date Collected: 09/18/19
Date Received: 09/24/19
Date Analyzed: 09/25/19
Date Reported: 09/26/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86572 - 01 Cust. #: EXT1.1 Material: Roofing Location: Appearance: black,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86572 - 02 Cust. #: EXT1.2 Material: Roofing Location: Appearance: black,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86572 - 03 Cust. #: EXT3.1 Material: Overhangs Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Farmington, MI 48336

ARI Report # 19-86572
Date Collected: 09/18/19
Date Received: 09/24/19
Date Analyzed: 09/25/19
Date Reported: 09/26/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86572 - 04 Cust. #: EXT3.2 Material: Overhangs Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86572 - 05 Cust. #: EXT3.3 Material: Overhangs Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86572 - 06 Cust. #: EXT4.1 Material: Brown Door Caulk Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Date Analyzed: 09/25/19
Date Reported: 09/26/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86572 - 07 Cust. #: EXT4.2 Material: Brown Door Caulk Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86572 - 08 Cust. #: EXT5.1 Material: Black Building Caulk Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 86572 - 08a Cust. #: EXT5.1 Material: White Building Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%

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Date Collected: 09/18/19
Date Received: 09/24/19
Date Analyzed: 09/25/19
Date Reported: 09/26/19

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 86572 - 09 Cust. #: EXT5.2 Material: Black Building Caulk Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: 86572 - 09a Cust. #: EXT5.2 Material: White Building Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: **NO** No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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Apex # **86214**

APEX Research, Inc.

054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (*circle one*) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083F2-3-194
Contact Person: Carl Rogers / [redacted] Jim Fox
Email: rogersc@aktpeerless.com / foxcj@aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush 24 hour
48 hour 72 hour
Other: TTP yes / no (Test Till Positive)
Samples received after 3pm logged in next morning

Asbestos: Bulk X Wipe ____ Point Count 5% PCM ____
Lead / Cad / Chrome: Wipe ~~ASTM E1792~~? circle YES or NO ____ Air ____ Paint ____ Bulk ____
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	1.1	12" Tan marbled Floor Tiles			
2	1.2	"			
3	2.1	12" Brown marbled Floor Tiles			
4	2.2	"			
5	3.1	12" Purple marbled Floor Tiles			
6	3.2	"			
7	4.1	4" Tan Cove base			
8	4.2	"			
9	5.1	2'x4' pinhole ceiling tiles			
10	5.2	"			
11	6.1	Carpet Glue			
12	6.2	"			

Relinquished By: [signature] Date: 9/5/19
Received By: ____ Time/Date: ____
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Revision R5 Date: Nov/2017

Apex # **86214** Page **2**

APEX Research, Inc.

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Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (*circle one*) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083F2-3-194
Contact Person: Carl Rogers / [redacted] Jrnfox
Email: rogersce aktpeerless.com / foxcj aktpeerless.com

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

Circle analyses required, indicate type and quantity

Rush 24 hour
48 hour 72 hour
Other: TTP yes / no (Test Till Positive)
Samples received after 3pm logged in next morning

Asbestos: Bulk X Wipe ____ Point Count 5% PCM ____
Lead / Cad / Chrome: Wipe ~~ASTM E1792?~~ circle YES or NO ____ Air ____ Paint ____ Bulk ____
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
13	8.1	2'x2' ceiling tiles w/ transverse fissures & Pinholes			
14	8.2	"			
15	9.1	4" Purple Cove Base			
16	9.2	"			
17	10.1	Drywall / Joint Compound			
18	10.2	"			
19	10.3	"			
20	11.1	Yellow glue on walls			
21	11.2	"			
22	11.3	"			
23	13.1	4" Gray Cove Base			
24	13.2	"			

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Date: 9-5-19

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Time/Date: SEP 05 2019

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Revision R5 Date: Nov/2017

Apex # **86214** Page **3**

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (circle one) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083F2-3-19f
Contact Person: Carl Rogers / [redacted] JimFox
Email: rogersce@aktpeerless.com / foxcj@aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush 24 hour
48 hour 72 hour
Other: TTP yes / no
Samples received after 3pm logged in next morning
(Test Till Positive)

Asbestos: Bulk X Wipe ____ Point Count ~5% PCM ____
Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO ____ Air ____ Paint ____ Bulk ____
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
25	12,1	Plaster			
26	12,2	"			
27	12,3	"			
28	12,4	"			
29	12,5	"			
30	12,6	"			
31	12,7	"			
32	12,8	"			
33	12,9	"			
34	14,1	walk in freezer gaskets			
35	14,2	"			
[redacted]		RECEIVED			

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Apex # **86214** Page **4**

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City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (circle one) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083 F2-3-19A
Contact Person: Carl Rogers / [redacted] JrnFox
Email: rogersce@aktpeerless.com / foxcj@aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush | 24 hour | 48 hour | 72 hour | Other: | TTP yes / no (Test Till Positive)
Samples received after 3pm logged in next morning

Asbestos: Bulk X | Wipe | Point Count 5% | PCM
Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO | Air | Paint | Bulk
Mold: Bulk | Air/Zefon/AlergencoD | BioSIS | Tape
TEM: Bulk/NOB | NIOSH 7402 | EPA Level II | Other

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
36	16,1	Brown Glue Pods			
37	16,2	"			
38	16,3	"			
39	17,1	9" TAN w/white streaks FTs			
40	17,2	"			
41	18,1	4" BLACK Cove Base			
42	18,2	"			
43	19,1	Pipe Fittings on Fiberglass Lines			
44	19,2	"			
45	19,3	"			
46	20,1	4" Brown Cove Base			
47	20,2	"			

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Date:

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Time/Date:

Revision R5 Date: Nov/2017

Apex # **86214** Page **5**

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City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (circle one) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083F2-3-194
Contact Person: Carl Rogers / [redacted] Jrnfox
Email: rogersc@aktpeerless.com / foxcj@aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush | 24 hour | 48 hour | 72 hour | Other:
Samples received after 3pm logged in next morning
TTP yes / no (Test Till Positive)

Asbestos: Bulk X Wipe ____ Point Count ~~5%~~ PCM ____
Lead / Cad / Chrome: Wipe ~~ASTM E1792?~~ circle YES or NO ____ Air ____ Paint ____ Bulk ____
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
48	21.1	2'x 4' Textured Ceiling Tiles			
49	21.2	"			
50	22.1	Gray Sink Undercoating			
51	22.2	"			
52	23.1	12" Tan w/ Brown Streaks Floor Tiles			
53	23.2	"			
54	24.1	12" ceiling tiles w/ medium holes			
55	24.2	"			
56	25.1	Textured Plaster			
57	25.2	"			
58	25.3	"			
		RECEIVED			

SEP 05 2019
APEX RESEARCH

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Date: 9/5/19 Time/Date: 12 Date: ____ Time/Date: ____

Revision R5 Date: Nov/2017

Apex # **86214** Page **6**

APEX Research, Inc.

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Customer Name: AKT Peerless
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City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (*circle one*) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083F2-3-194
Contact Person: Carl Rogers / [redacted] JrnFox
Email: rogersce aktpeerless.com / foxcj aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush 24 hour
48 hour 72 hour
Other:
Samples received after 3pm logged in next morning
TTP yes / no (Test Till Positive)

Asbestos: Bulk X Wipe ____ Point Count 5% PCM ____
Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO ____ Air ____ Paint ____ Bulk ____
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
59	26.1	12" Gray Marbled Floor Tiles			
60	26.2	"			
61	27.1	12" TAN w/ white & black dots Floor Tiles			
62	27.2	"			
63	[redacted] 29.1	underlayment paper (black)			
64	[redacted] 29.2	"			
65	30.1	2'x2' medium hole ceiling tiles			
66	30.2	"			
67	31.1	12" smooth ceiling tiles w/ glue pods			
68	31.2	"			
69	31.3	"			

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Date: 9/5/19 Time/Date: 1000 Date: ____ Time/Date: ____

Revision R5 Date: Nov/2017

Apex # **86214** Page **7**

APEX Research, Inc.

2054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (*circle one*) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083F2-3-194
Contact Person: Carl Rogers / [redacted] JimFox
Email: rogersce aktpeerless.com / foxcj aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush | 24 hour | 48 hour | 72 hour | Other: | TTP yes / no (Test Till Positive)
Samples received after 3pm logged in next morning

Asbestos: Bulk X Wipe ____ Point Count ~~X~~ 5% PCM ____
Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO ____ Air ____ Paint ____ Bulk ____
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
70	32.1	Window glazing			
71	32.2	"			
72	33.1	12" Beige Floor Tiles			
73	33.2	"			
74	34.1	Black Sink Undercoating			
75	34.2	"			
76	35.1	12" Rust Floor Tiles			
77	35.2	"			
78	36.1	Black paper material on cement beams			
79	36.2	"			
80	38.1	Cloth duct joints			
81	38.2	" RECEIVED			

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Revision R5 Date: Nov/2017

Apex # **86214** Page **8**

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com

Customer Name: AKT Peerless
Address: 22725 Orchard Lake Rd
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (*circle one*) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083F2-3-194
Contact Person: Carl Rogers / [redacted] Jim Fox
Email: rogersc@aktpeerless.com / foxcj@aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush | 24 hour | 48 hour | **72 hour** | Other:
Samples received after 3pm logged in next morning
TTP yes / no (Test Till Positive)

Asbestos: Bulk X Wipe ____ Point Count ~~X~~ 5% PCM ____
Lead / Cad / Chrome: Wipe ~~ASTM E1792?~~ circle YES or NO ____ Air ____ Paint ____ Bulk ____
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
82	39.1	millboard pipe insulation			
83	39.2	"			
84	39.3	"			
85	40.1	mud fittings on millboard lines			
86	40.2	"			
87	40.3	"			
88	41.1	TAR Paper above ceiling - gym			
89	41.2	"			

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Time/Date: ____

Revision R5 Date: Nov/2017

Apex # **86572**

APEX Research, Inc.

354 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com

470-0875

Customer Name: AKT Peerless

Address: 27725 Orchard Lake Rd

City, St., Zip: Farmington, MI

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

Turn Around Time: (*circle one*) ***Terms and conditions on the other side.

Date of Survey: 9-18-19

Project: 35000 Thomas

Project # 12083F2-3-194

Contact Person: Carl Rogers

Email: rogersc@aktpeerless.com

Circle analyses required, indicate type and quantity

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

Rush 24 hour

48 hour 72 hour

Other: TTP yes / no

Samples received after 3pm logged in next morning

(Test Till Positive)

Asbestos: Bulk X Wipe ____ Point Count 25% PCM ____

Lead / Cad / Chrome: Wipe ASTM E1792? circle YES or NO ____ Air ____ Paint ____ Bulk ____

Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____

TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1, 2	EXT1.1 → EXT1.2	Roofing			
3, 4, 5	EXT3.1 → EXT3.2	Overhangs			
6, 7	EXT4.1 → EXT4.2	Brown Door Caulk			
8, 9	EXT5.1 → EXT5.2	Black/White Building Caulk			

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Revision R5 Date: Nov/2017

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Appendix C

Lead Based Paint Laboratory Reports and Chain of Custody Record

Certificate of Analysis - Metals in Paint

Method: EPA SW846-7130M, EPA SW846-7420M

Project: 33000 Thomas, Farmington, MI

Project #: 12083F2-3-194

Report to:

Messrs. Carl Rogers & Jim Fox
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARL Report #: 19-L17647
Date Sampled: 09/05/19
Date Received: 09/05/19
Date Analyzed: 09/09/19
Date Reported: 09/10/19

Laboratory ID:	Client ID:	Reporting Limit:	Cadmium:	Lead:
L17647-01	P1 West Entry, Block Wall - White	0.01%	**Cd -** < 0.01%	**Pb -** 0.19%
L17647-02	P2 Suite 102, Door - Blue	0.01%	**Cd -** 0.01%	**Pb -** 0.12%
L17647-03	P3 Main Entry, Door Frame - Purple	0.02%	**Cd -** 0.03%	**Pb -** 0.36%
L17647-04	P4 SW Entry, Door Frame - Charcoal	0.07%	**Cd -** < 0.07%	**Pb -** 0.17%
L17647-05	P5 West of Gym, Drywall Wall - White	0.04%	**Cd -** < 0.04%	**Pb -** < 0.04%
L17647-06	P6 Gym, Steel Column - Blue	0.04%	**Cd -** < 0.04%	**Pb -** 1.19%

Reporting Limit of 0.01% is based on minimum sample weight of 100mg per our SOP, and may vary based on smaller sample size. To comply with AIHA-LAP,LLC reporting limit requirements, a minimum sample mass of 10.0 mg is required. APEX Research is not responsible for sample collection activities, and results apply to samples as received. Methods have been slightly modified. This certificate of analysis relates only to the samples tested and to ensure the integrity of the results, may only be reproduced in full. Liability limited to cost of analysis. APEX Research, Inc. (Laboratory ID# 227441) is accredited by the AIHA Laboratory Accreditation Programs, LLC (AIHA-LAP,LLC) in the Environmental Lead Laboratory Accreditation Program for Lead in Paint as documented by the Scope of Accreditation Certificate and associated Scope. Accreditation extends to lead analyses only.

Robert T. Letarte Jr., Laboratory Director

Apex # **L17647**

APEX Research, Inc.

54 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991 www.ApexMI.com

Customer Name: AKT Peerless
Address:
City, St., Zip: Farmington, MI
Phone: 248-615-1333 Fax: 248-615-1334
Turn Around Time: (*circle one*) ***Terms and conditions on the other side.

Date of Survey: 9-5-19
Project: 33000 Thomas Farmington, MI
Project # 12083 F2-3-194
Contact Person: Carl Rogers / Jim Fox
Email: rogersc@aktpeerless.com / foxcj@aktpeerless.com
Circle analyses required, indicate type and quantity

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

Rush 24 hour
48 hour 72 hour
Other: TTP yes / no
Samples received after 3pm logged in next morning (Test Till Positive)

Asbestos: Bulk ____ Wipe ____ Point Count ____ PCM ____
Lead/Cad/Chrome: Wipe ASTM E1792? circle YES or NO ____ Air ____ Paint ____ Bulk X
Mold: Bulk ____ Air/Zefon/AlergencoD ____ BioSIS ____ Tape ____
TEM: Bulk/NOB ____ NIOSH 7402 ____ EPA Level II ____ Other ____

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
	P1	white block wall/west entry			
	P2	Blue Door / Suite 102			
	P3	Purple Door Frame / Main entry			
	P4	Charcoal Door Frame / SW Entry			
	P5	White Drywall Wall / west of gym			
	P6	Blue Steel Column / Gym			

Relinquished By: [signature]
Date: 9/5/19

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Revision R5 Date: Nov/2017

Appendix D

Hazardous/Other Regulated Materials Inventory

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
1	Fluorescent Light Bulbs	32	
1	Ballasts	16	
1	Exit Signs	2	
1	Fire Alarm Pull	1	
2	Fluorescent Light Bulbs	70	
2	Ballasts	35	
2	Alarm Panel	1	
2	Motion Sensors	2	
2	Fire Alarms	2	
2	Thermostat	1	
2	Alarm Pull	1	
2	Smoke Detector	1	
3	Alarm Pull	1	
3	Exit Sign	1	
3	Fluorescent Light Bulbs	60	
3	Ballasts	30	
3	Safety Lights	2	
3	Alarm w/ Lights	2	
3	Drinking Fountain	1	
4	Thermometer	1	
4	Alarm w/ Lights	1	
4	Fluorescent Light Bulbs	12	
4	Ballasts	6	
5	Safety Lights	1	

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
5	Refrigerator	1	
5	Exit Signs	2	
5	Fluorescent Light Bulbs	72	
5	Ballasts	36	
5	Drinking Fountain	1	
8	Fluorescent Light Bulbs	44	
8	Ballasts	22	
8	Walk In Freezer	1	
9	Thermostat	2	
9	Motion Sensors	3	
9	Fluorescent Light Bulbs	56	
9	Ballasts	28	
9	Aerosol Can	1	
10	Cleaning Supplies	12	Containers Range From 12 oz. to 1 Gallon
12	Fluorescent Light Bulbs	24	
12	Ballasts	12	
12	Aerosol Can	1	
12	Alarm w/ Lights	1	
12	CFL Bulbs	4	
13	Fluorescent Light Bulbs	8	
13	Ballasts	4	
13	Alarm w/ Lights	1	
14	Fluorescent Light Bulbs	12	
14	Ballasts	6	

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
15	Thermostats	2	
15	Exit Signs	4	
15	Alarm Pull	1	
15	Fluorescent Light Bulbs	200	
15	Ballasts	100	
15	Fire Extinguisher	1	
15	Alarm w/ Lights	1	
16	Fluorescent Light Bulbs	6	
16	Ballasts	3	
17	CFL Bulbs	2	
18	Drinking Fountain	1	
18	Thermostat	2	
18	CFL Bulbs	2	
18	Fluorescent Light Bulbs	44	
18	Ballasts	22	
18	Exit Signs	2	
18	Alarm w/ Lights	1	
18	Deep Freezer	1	
18	Cove Base Adhesive	1	Quart Container
18	Paint	3	One Gallon Containers
19	Fluorescent Light Bulbs	60	
19	Ballasts	30	
19	Alarms w/ Lights	2	
19	Exit Signs	3	

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
19	Alarm Pulls	2	
20	Fluorescent Light Bulbs	8	
20	Ballasts	4	
21	Fluorescent Light Bulbs	24	
21	Ballasts	12	
21	Exit Sign	1	
21	Safety Lights	1	
22	Alarms w/ Lights	6	
22	Safety Lights	4	
22	Fluorescent Light Bulbs	100	
22	Ballasts	50	
22	Exit Signs	4	
22	Thermostat	1	
22	Fire Extinguisher	1	
23	Exit Sign	1	
23	Alarm Pull	1	
23	Fluorescent Light Bulbs	8	
23	Ballasts	4	
24	Fluorescent Light Bulbs	16	
24	Ballasts	8	
24	Exit Sign	1	
24	Water Cooler	1	
24	Floor Finish	3	Boxes
24 (Above Stage)	Fluorescent Light Bulbs	2	

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
24 (Above Stage)	Ballasts	1	
25	Fluorescent Light Bulbs	88	
25	Ballasts	44	
25	Exit Signs	2	
25	Alarms w/ Lights	2	
25	Smoke Detectors	2	
26	Fluorescent Light Bulbs	48	
26	Ballasts	24	
26	Alarm w/ Lights	1	
27	Fluorescent Light Bulbs	60	
27	Ballasts	30	
27	Alarm w/ Lights	1	
28	Fluorescent Light Bulbs	76	
28	Ballasts	38	
28	Alarms w/ Lights	2	
28	Exit Sign	1	
29	Fluorescent Light Bulbs	48	
29	Ballasts	24	
29	Alarm w/ Lights	1	
30	Fluorescent Light Bulbs	60	
30	Ballasts	30	
30	Alarm w/ Lights	1	
31	Fluorescent Light Bulbs	36	
31	Ballasts	18	

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
31	Alarm w/ Lights	1	
32	Fluorescent Light Bulbs	36	
32	Ballasts	18	
32	Alarm w/ Lights	1	
33	Fluorescent Light Bulbs	24	
33	Ballasts	12	
33	Alarm w/ Lights	1	
34	Fluorescent Light Bulbs	36	
34	Ballasts	18	
34	Alarm w/ Lights	1	
35	Fluorescent Light Bulbs	24	
35	Ballasts	12	
35	Alarm w/ Lights	2	
36	Exit Sign w/ Lights	1	
36	Fire Alarm	1	
36	Fluorescent Light Bulbs	2	
37	Fire Alarm Control Panel	1	
37	Air Compressor	1	
37	Pumps Containing R12 Refrigerant	3	
37	Compressed Air Dryer	1	
37	Old Gauges	2	
37	Fluorescent Light Bulbs	20	
37	Ballasts	10	
37	Alarm w/ Lights	1	

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HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
37	Alarm Pull	1	
37	Old Gauge Levelometer	1	
38	Fluorescent Light Bulbs	112	
38	Ballasts	56	
38	Alarm Pulls	2	
38	Exit Signs	2	
38	Alarms w/ Lights	4	
38	Safety Lights	2	
39	Fluorescent Light Bulbs	4	
39	Ballasts	2	
39	Alarm w/ Lights	1	
40	Fluorescent Light Bulbs	4	
40	Ballasts	2	
41	Fluorescent Light Bulbs	12	
41	Ballasts	6	
42	Fluorescent Light Bulbs	4	
42	Ballasts	2	
42	Alarm w/ Lights	1	
43	Old Gauges	2	
43	Thermometer	1	
43	Easy Dab Cleaner	1	Quart Container
44	Alarms w/ Lights	2	
44	Fluorescent Light Bulbs	30	
44	Ballasts	15	

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
46	Fluorescent Light Bulbs	48	
46	Ballasts	24	
46	Alarm w/ Lights	1	
47	Fluorescent Light Bulbs	36	
47	Ballasts	18	
48	Alarms w/ Lights	2	
48	Fluorescent Light Bulbs	56	
48	Ballasts	28	
49	Fluorescent Light Bulbs	48	
49	Ballasts	24	
50	Fluorescent Light Bulbs	48	
50	Ballasts	24	
50	Alarm w/ Lights	1	
51	Fluorescent Light Bulbs	24	
51	Ballasts	12	
51	Alarm w/ Lights	1	
52	Fluorescent Light Bulbs	60	
52	Ballasts	30	
52	Alarms w/ Lights	2	
53	Fluorescent Light Bulbs	44	
53	Ballasts	22	
53	Alarms w/ Lights	3	
54	Fluorescent Light Bulbs	48	
54	Ballasts	24	

AKTPEERLESS

HAZARDOUS/UNIVERSAL WASTE MATERIALS INVENTORY BY FUNCTIONAL SPACE

CLIENT: City of Farmington
PROJECT NO: 12083f2-3-194
PROJECT: 33000 Thomas Street
Farmington, Michigan

Functional Space	Item	Quantity	Comments
54	Alarm w/ Lights	1	
Exterior - North	Box Lights	6	
Exterior - North	Air Conditioning Unit	1	
Exterior - South	Box Lights	3	
Exterior - South	Parking Lot Pole Lights	4	
Exterior - East	Box Lights	5	
Exterior - West	Box Lights	2	
Exterior - West	Transformer	1	
Exterior - Rooftop	Air Conditioning Units	10	