

**ADDENDUM NO. 1**

DATE ISSUED: June 14, 2012

PROJECT:

**Environmental Abatement and Demolition - Former Plaza Hotel, 400 Johnson Street,  
Saginaw, Michigan**

AKT Peerless Environmental & Energy Services is issuing this Addendum No. 1 to the Project Manual and Technical Specifications for the above referenced site, dated June 7, 2012. All information contained in this document shall be included in the Bidding Documents and shall be acknowledged therein. This information and requirements shall supersede items listed elsewhere in the Project Manual and Technical Specifications. Bids submitted that do not acknowledge this Addendum will be deemed incomplete and may be rejected on such basis.

**ITEM 1: CONSUMERS ENERGY UTILITY DISCONNECTS**

Consumers Energy has requested to work with the Contractor to complete the electricity disconnect. Based on this request, electricity is expected to remain connected to the subject building until after the Notice to Proceed. The Contractor will be required to assist Consumers Energy with the disconnect. Specifically, the Contractor will remove the concrete wall surrounding the utility corral located on the southeastern exterior of the subject building. The Contractor shall protect the electrical transformer, meters, and other equipment owned by Consumers Energy until removal. Consumers Energy expects to disconnect and remove the gas service/metering before the end of June 2012.

As described below, the Contractor shall provide electrical service to the cellular telephone tower mounted to roof of the subject building until instructed otherwise by the Authority or relocation of the tower by Sprint. Specific power requirements for the cellular telephone tower are not known at this time. If provided by Sprint, specifications relating to the cellular tower will be forwarded to the Contractor.

**ITEM 2: CELLULAR TELEPHONE TOWER**

One cellular telephone tower owned by Sprint is mounted to the roof of the subject building. Negotiations between the Authority and Sprint to relocate the tower have become protracted and may cause a revision to the project schedule. Refer to Proposed Schedule and Bid Forms Items below. It is imperative that the cellular telephone tower and connected services remain protected until relocation occurs. Until relocation by Sprint or authorized contractors, the Contractor shall coordinate all demolition and site work with Sprint, the Authority and Engineer to protect cellular telephone tower and associated equipment, including but not limited to electricity and telephone service.

Due to this, the Authority may elect to provide the Contractor with a Notice to Proceed to commence certain site work (site security, fencing, salvage, etc.) with the understanding that the cellular telephone tower and associated services will be protected until the cellular telephone

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tower is relocated. Sprint has formally requested as much as, 4 to 6 months to relocate the cellular telephone tower.

**ITEM 3: PROPOSED SCHEDULE - SECTION PS-1**

As described above, relocation of the cellular telephone tower may cause a revision to the Proposed Schedule. Schedule items affected by the relocation may include: Award Date, Contractor Submit 10-Day Notification, and Substantially Complete. If the tower relocation delays the schedule, the proposed dates for above stated items are to be determined. At the request of the Authority, two proposed schedules, described as “45 Days for Completion” and “90+ days for Completion” are provided on the attached Proposed Schedule – Revision 1. Refer to Attachment 1.

**ITEM 4: BID ACCEPTANCE BY AUTHORITY**

The time period for acceptance of the Bid by the Authority and County will be a period of one hundred and fifty (150) days after submission. No proposal may be withdrawn for a period of one hundred and fifty (150) days after submission. Bids offering less than one hundred and fifty (150) days for acceptance by the Authority or County from the date set for opening may be considered non-responsive and will be rejected.

**ITEM 5: BID/TENDER FORM – SECTION 400**

At the request of the Authority, the Bid/Tender Form has been revised to include alternate Price Worksheets. The alternate Price Worksheets include Proposal Prices for the two proposed project schedules and for providing prevailing wages.

Price Worksheets are marked “45 Days for Completion” and “90+ days for Completion.” On each Price Worksheet, the Bidder will provide the Proposal Price to complete the Work in accordance with the Contract Documents within the Proposed Schedule.

The Column marked “Prevailing Wages” shall include Proposal Prices to complete Work in accordance with the Davis Bacon Act, Public Law 107-217-AUG. 21, 2002, [as amended] providing for Prevailing Wages and Benefits by the Department of Labor, State of Michigan, for the trades employed on the project.

Remove Section 400 in its entirety and insert the attached Section 400 Bid/Tender Form – Revision 1 in its place.

Refer to Attachment 2.

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ITEM 6: TIME OF THE ESSENCE AND LIQUIDATED DAMAGES

As described above and shown in the revised Proposed Schedule, the date for substantial completion will be determined based on relocation of cellular telephone tower and the Bid/Tender accepted by the Authority. The date for substantial completion and subsequent liquidated damages will be included in the Form of Agreement between the Authority and Contractor, based on the selected schedule.

If the 45 day schedule is selected, the Contractor shall pay Liquidated Damages for each day that expires after 45 days from the date of the Notice to Proceed.

If the 90+ day schedule is selected, the Contractor shall pay Liquidated Damages for each day that expires after 90 days from the date of the Notice to Proceed, dependant on and with consideration given to delays caused by the cellular telephone tower relocation.

ITEM 7: SITE SURVEY

The William A. Kibbe topographic site survey referenced in the Project Manual and Technical Specifications is attached to this addendum. Remove Appendix A in its entirety and insert the attached Survey in its place. Refer to Attachment 3.

ITEM 8: HAZARDOUS MATERIAL SURVEY REPORT

The AKT Peerless' Hazardous Materials Identification Survey dated June 11, 2012, is attached to this Addendum. Remove Appendix B in its entirety and insert the attached Hazardous Materials Identification Survey dated June 11, 2012, in its place. Refer to Attachment 4.

ITEM 9: SOIL WASTE CHARACTERIZATION LABORATORY ANALYTICAL RESULTS

The Soil Waste Characterization Laboratory Analytical Results is attached to this addendum. Remove Appendix D in its entirety and insert the attached Soil Waste Characterization Laboratory Analytical Results in its place. Refer to Attachment 5.

ITEM 10: SALVAGEABLE CONTENTS

Prior to the Notice to Proceed, the Authority may remove from the subject property, the Rolling Gate located on the southeastern exterior storage corral and the Automated Teller Machine (ATM) unit located within the first floor lobby/common area. Unless otherwise specified, all contents, equipment, interior finishes, and recyclable material become property of Contractor. Access to the property by others is not permitted for any purpose. Therefore, no auction or sales that invite the general public onto the subject property will be permitted by the Authority.

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ITEM 11: DEMOLITION PERMIT

The Contractor required to obtain all permits and pay all associated fees, including but not limited to a local Demolition Permit and Fees.

ATTACHMENTS:

Attachment 1	PS-1 Proposed Schedule – Revision 1
Attachment 2	Section 400 Bid/Tender Form – Revision 1
Attachment 3	William A. Kibbe – Topographic Site Survey
Attachment 4	Hazardous Materials Identification Survey, dated June 11, 2012
Attachment 5	Soil Waste Characterization Laboratory Analytical Results

CONTACT:

AKT Peerless Environmental & Energy Services  
214 Janes Avenue, Saginaw, Michigan 48607  
Attn: Ryan T. Londrigan, CHMM  
Email: Ryan@aktpeerless.com  
Ph: 989-754-9896  
Cell: 989-284-7238  
Fax: 989-754-3804

This Addendum is hereby incorporated into the Project Manual and Technical Specifications for the above referenced site and is considered binding as though originally appearing therein. Receipt of this Addendum must be noted in the place provided on the Bid/Tender Form - Section 400.

END OF ADDENDUM NO. 1

## **Attachment 1**

PS-Proposed Schedule – Revision 1

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**PS-1 – PROPOSED SCHEDULE – REVISION 1**

PROJECT:

**Environmental Abatement and Demolition - Former Plaza Hotel, 400 Johnson Street,  
Saginaw, Michigan**

PROPOSED SCHEDULE (45 Days for Completion):

Bid Release / Advertisement for Bid:	June 7, 2012
Mandatory Pre-Bid Walkthrough:	June 13, 2012 9:00 am
Final Contractor Questions:	June 13, 2012 3:00 pm
Bids Due / Opening:	June 18, 2012 3:00 pm
Award Date:	June 20, 2012
Contractor Submit 10-Day Notification:	June 20, 2012
Substantially Complete:	August 4, 2012

PROPOSED SCHEDULE (90+ Days for Completion):

Bid Release / Advertisement for Bid:	June 7, 2012
Mandatory Pre-Bid Walkthrough:	June 13, 2012 9:00 am
Final Contractor Questions:	June 13, 2012 3:00 pm
Bids Due / Opening:	June 18, 2012 3:00 pm
Award Date:	Within 150 days of June 18, 2012
Contractor Submit 10-Day Notification:	Upon Receipt of Notice of Award
Substantially Complete:	90 days from Notice to Proceed, dependant on and with consideration given to delays caused by cellular telephone tower relocation.

CONTACTS:

Saginaw County Controller's Office  
111 South Michigan Avenue, Saginaw, Michigan 48602  
Attn: Ms. Kelly Suppes, Purchasing Manager  
Email: Ksuppes@saginawcounty.com  
Ph: 989-790-5505

AKT Peerless Environmental & Energy Services  
214 Janes Avenue, Saginaw, Michigan 48607  
Attn: Ryan T. Londrigan, CHMM  
Email: Ryan@aktpeerless.com  
Ph: 989-754-9896  
Cell: 989-284-7238  
Fax: 989-754-3804

## **Attachment 2**

Section 400 Bid/Tender Form – Revision 1

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**SECTION 00400 - BID/TENDER FORM – REVISION 1**

SUBMITTED TO: Saginaw County Controller’s Office  
Saginaw County Courthouse  
111 South Michigan Avenue  
Saginaw, Michigan 48602  
Attn: Ms. Kelly Suppes, Purchasing Manager

FOR: **“Environmental Abatement and Demolition - Former Plaza Hotel, 400 Johnson Street, Saginaw, Michigan”**

DATE: \_\_\_\_\_  
NAME OF BIDDER: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_

TO: Saginaw County Building Authority (hereinafter called “AUTHORITY”)

Gentlemen:

The Bidder, in compliance with your invitation for bids for the project **“Environmental Abatement and Demolition – Former Plaza Hotel, 400 Johnson Street, Saginaw, Michigan,”** having examined the Contract Documents prepared by the AUTHORITY, as well as other related documents and having examined the site of the proposed work, and with all conditions surrounding environmental abatement and disposal of asbestos and hazardous materials, structure deconstruction and demolition, site feature demolition, and site restoration, hereby propose to furnish all labor, materials, tools, equipment, machinery, equipment rental, transportation, superintendence, perform all work, provide all services, and to perform all work in accordance with Contract Documents at price stated below. Prices are to cover all expenses incurred in performing work required under Contract Documents, of which this Bid/Tender is a part.

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PRICE WORKSHEET

**45 Day Schedule**

Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

<u>Item No.</u>	<u>Description</u>	<u>Units</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Proposal Price</u> <u>Prevailing Wages</u>
1.	Mobilization & Demobilization	LS	1	Lump Sum	\$ _____
2.	Environmental Abatement & Disposal of Asbestos and Hazardous Materials	LS	1	Lump Sum	\$ _____
3.	Structure and Site Feature Demolition	LS	1	Lump Sum	\$ _____
4.	Entrance Sign, Abatement and Demolition (may be omitted)	LS	1	Lump Sum	\$ _____
5.	North Jefferson Light Pole Demolition (may be omitted)	LS	1	Lump Sum	\$ _____
6.	Western Guard Rail and Post Demolition (may be omitted)	LS	1	Lump Sum	\$ _____
7.	Soil Excavation and Disposal at Landfill	Ton	800	\$ _____	\$ _____
8.	Restoration (MDOT Class II Sand)	Cubic Yard	700	\$ _____	\$ _____
<b>Total of All Proposal Prices</b>					\$ _____

**45 Day Schedule Prevailing Wages**

Total Bid Price: \$ \_\_\_\_\_

In Words: \_\_\_\_\_

Contractor Name: \_\_\_\_\_

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**90+ Day Schedule**

Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

<u>Item No.</u>	<u>Description</u>	<u>Units</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Proposal Price</u> <u>Prevailing Wages</u>
1.	Mobilization & Demobilization	LS	1	Lump Sum	\$_____
2.	Environmental Abatement & Disposal of Asbestos and Hazardous Materials	LS	1	Lump Sum	\$_____
3.	Structure and Site Feature Demolition	LS	1	Lump Sum	\$_____
4.	Entrance Sign, Abatement and Demolition (may be omitted)	LS	1	Lump Sum	\$_____
5.	North Jefferson Light Pole Demolition (may be omitted)	LS	1	Lump Sum	\$_____
6.	Western Guard Rail and Post Demolition (may be omitted)	LS	1	Lump Sum	\$_____
7.	Soil Excavation and Disposal at Landfill	Ton	800	\$_____	\$_____
8.	Restoration (MDOT Class II Sand)	Cubic Yard	700	\$_____	\$_____
<b>Total of All Proposal Prices</b>					\$_____

**90+ Day Schedule Prevailing Wages**

Total Bid Price: \$\_\_\_\_\_

In Words: \_\_\_\_\_

Contractor Name: \_\_\_\_\_

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ADDITIONAL INFORMATION

1. Can you complete the project within 45 days from the Notice to proceed as proposed in PS-1 Proposed Schedule?:

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2. Please provide available start date and estimated schedule for completion or if answered “No” to Question 1, please provide a proposed alternative schedule:

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3. Please provide a brief description for your proposed method of asbestos and hazardous material abatement.

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4. Please provide a brief description for your proposed method of building demolition.

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5. Please provide any additional information necessary, which may allow the Authority to perform an accurate review of your bid and methods.

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ADDITIONAL UNIT RATES

Bidders must also provide a unit rate price for:

<b>Asbestos Unit Rate Schedule</b>			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Price</b>
1	Sprayed-on Fireproofing	Square Foot	
2	Hard Wall/Ceiling Plaster (all layers, metal or wood lathe)	Square Foot	
3	Soft/Decorative Plaster (all layers, including substrate if necessary)	Square Foot	
4	Popcorn or Sprayed-on Ceiling or Wall Texture (all layers, including substrate if necessary)	Square Foot	
5	Drywall/Mud Compound	Square Foot	
6	Thermal System Insulation (TSI) Straight Pipe < 6" diameter	Linear Foot	
7	Thermal System Insulation (TSI) Straight Pipe > 6" to 12" diameter	Linear Foot	
8	Thermal System Insulation (TSI) Straight Pipe > 12" diameter	Linear Foot	
9	TSI Mud Fitting < 6" diameter	Each	
10	TSI Mud Fitting > 6 – 12" diameter	Each	
11	TSI Mud Fitting > 12" diameter	Each	
12	Duct Insulation (cloth or paper)	Square Foot	
13	Duct Insulation (fiberglass with ACM seam mud)	Square Foot	
14	Undercoated Sink	Each	
15	Fire Door	Each	
16	Floor Tile Only (any size)	Square Foot	
17	Floor Tile and Mastic (any size, any mastic type)	Square Foot	
18	Linoleum/Resilient Sheeting	Square Foot	
19	Linoleum/Resilient Sheeting and Mastic (any type)	Square Foot	
20	Window with associated caulk and/or glazing (any size including frame)	Each	
21	Furnace, boiler, or tank insulation (mud and jacket)	Square Foot	

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<b>Asbestos Unit Rate Schedule</b>			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Price</b>
22	Transite (Panels, Siding or Board)	Square Foot	
23	Fireproof Panels	Square Foot	
24	Asphalt Brick Siding (e.g., Insul-Brick, Brick-Kote, etc.)	Square Foot	
25	Electrical Panel	Each	
26	Glued-on ceiling tiles (any size) and glue pods	Square Foot	
27	Construction Adhesives/other glue pods	Square Foot	
28	Vermiculite Insulation	Cubic Yard	
29	Miscellaneous Asbestos Debris (any type, total quantity)	Cubic Foot	
30	Cementitious Materials	Square Foot	
31	Roofing/Flashing/Tar (any type)	Square Foot	
32	Light Fixture Heat Shields	Each	
33	Foundation, wall or block caulk	Linear Foot	
34	Transite / asbestos utility piping (any size)	Linear Foot	

<b>Hazardous Material Unit Rate Schedule</b>			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Price</b>
35	PCB or other ballasts	Each	
36	Fluorescent light tubes, > 4'	Each	
37	Fluorescent light tubes, 4' or less	Each	
38	Mercury thermostats or switches	Each	
39	Misc household chemical containers	Each	
40	CFC (refrigerator, freezer, any size)	Each	
41	CFC A/C unit (window or whole house)	Each	

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<b>Hazardous Material Unit Rate Schedule</b>			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Price</b>
42	Oil filled equipment	Each	
43	Gas cylinders (any size and type including, but not limited to: propane, oxygen, acetylene, etc.)	Each	
44	High pressure light fixtures (sodium, mercury vapor, etc.)	Each	
45	Heating oil or other bulk oil	Gallon	
46	Miscellaneous Aerosol Containers	Each	
47	Car/vehicle battery	Each	
48	Bicycle tires	Each	
49	Automobile or truck tires	Each	
50	Television, microwave, computer monitor	Each	
51	Smoke detector	Each	
52	Paint cans (latex, oil, etc. any size)	Each	
53	Gas Cans (10-gallons or less)	Each	
54	Lawn mowers/snow blowers (or other small engine item)	Each	
55	Empty 55-gallon drums	Each	
56	55-gallon drum with non-hazardous liquid	Each	
57	Ethylene glycol (one gallon)	Each	
58	Fire extinguishers	Each	
59	Unknown waste material characterization (TCLP)	Per Waste Stream	
60	Unknown waste disposal	Per drum	

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<b>Mobilization Material Unit Rate Schedule</b>			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Price</b>
61	Mobilization for additional environmental abatement	Per event	

If Bidder is aware of additional Unit Prices not described above, Bidder may provide a description and pricing of items in following table:

<b>Additional Material Unit Rate Schedule</b>			
<b>Item No.</b>	<b>Description</b>	<b>Unit</b>	<b>Unit Price</b>

**GENERAL**

Bidder, if awarded a Contract, hereby agrees to commence work under this contract on or before a date to be specified in written "Notice to Proceed" by AUTHORITY.

The bidder agrees that the AUTHORITY may accept or reject any or all of the bids.

Bidder understands that the AUTHORITY reserves right to accept or reject any or all Bid/Tenders and to waive any informalities or irregularities herein.

Upon notice of acceptance of this Bid/Tender, Bidder will execute Contract Agreement and deliver properly executed insurance certificates to AUTHORITY within one (1) working day.

**ADDENDA ACKNOWLEDGEMENT**

Bidder acknowledges receipt of following addenda:

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ADDRESS, LEGAL STATUS, AND SIGNATURE OF BIDDER

The undersigned does hereby designate the address, given below, as the legal address to which all notices, directions, or other communications may be served or mailed.

P.O. Box  
(if applicable) \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

The undersigned does hereby declare that it has the legal status checked below.

\_\_\_\_\_ Individual  
\_\_\_\_\_ Co-Partnership  
\_\_\_\_\_ Corporation Incorporated under the laws and State

of \_\_\_\_\_

The names and address of all people indicated as partners in this Bid Proposal are as follows:

<u>NAME</u>	<u>ADDRESS</u>
_____	_____
_____	_____
_____	_____
_____	_____

This Bid Proposal is submitted in the name of:

\_\_\_\_\_  
(Name of Contractor)

By \_\_\_\_\_

Title \_\_\_\_\_

Signed and sealed \_\_\_\_\_ Day of \_\_\_\_\_ 20  
this \_\_\_\_\_

**INSTRUCTIONS:** Submit this form as instructed in SECTION 00100 – INVITATION TO BID and SECTION 00200 – INSTRUCTIONS TO BIDDERS.

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SUBCONTRACTOR LIST

The following list should contain the names, contact information, and items of work assigned to each subcontractor. Subcontractors are subject to the same requirements as the general contractor, and shall provide documentation and certifications as required in the contract documents. Subcontractor payment will be handled by the Contractor. Separate agreements will not be made between the subcontractor and the Authority.

SUBCONTRACTOR LIST

Work Item	Subcontractor Contact Information

Note: Additional pages may be attached if necessary.

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REFERENCES

Bidder shall submit at least three (3) references of past projects within the past three (3) years similar in nature both historically and technically to this proposed project. This list shall include company name, person to contact, address and telephone number. Failure to include references may be ample cause for rejection of Proposal as non-responsive. Use space provided below or additional sheets as necessary.

Indicate the length of time you have been in business as a company providing the type of service required for this contract.

\_\_\_\_\_ years \_\_\_\_\_ months

**Reference No. 1**

Name/Organization:

Contact:

Address:

Phone:

Fax:

Email:

Budget: \$

Type of Project/Short Narrative:

**Reference No. 2**

Name/Organization:

Contact:

Address:

Phone:

Fax:

Email:

Budget: \$

Type of Project/Short Narrative:

**Reference No. 3**

Name/Organization:

Contact:

Address:

Phone:

Fax:

Email:

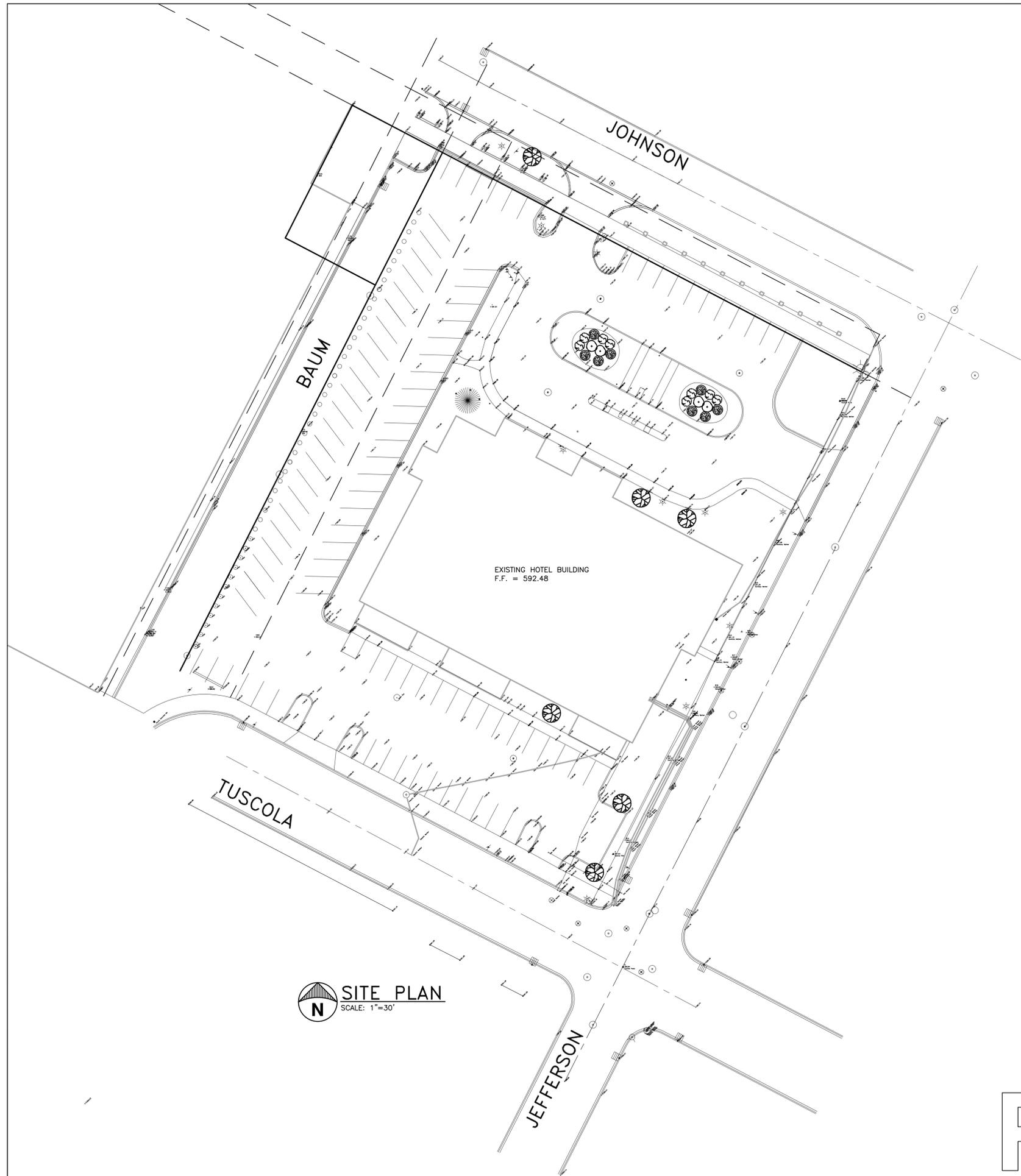
Budget: \$

Type of Project/Short Narrative:

END OF SECTION 00400

## **Attachment 3**

William A. Kibbe – Topographic Site Survey



EXISTING HOTEL BUILDING  
F.F. = 592.48

**SITE PLAN**  
SCALE: 1"=30'

**LEGEND**

- EX. SPOT GRADE
- EX. CONTOUR (C-CONT-MNR LAYER)
- EX. CONTOUR (C-CONT-MJR LAYER)
- EX. CENTERLINE DITCH
- EX. SANITARY SEWER W/MANHOLE
- EX. STORM SEWER
- EX. WATERMAIN
- EX. ELECTRIC LINE
- EX. CHAINLINK FENCE
- EX. WOOD FENCE
- EX. GAS LINE
- EX. TELEPHONE LINE
- EX. OVERHEAD UTILITY WIRES
- EX. SIGN WITH POST
- EX. BUILDINGS
- EX. BITUMINOUS PAVEMENT
- EX. CONCRETE PAVEMENT (C. OR CONC.)
- EX. GRAVEL PAVEMENT
- EX. STEEL POST
- ⊗ EX. STORM CURB INLET
- ⊗ EX. STORM CATCH BASIN/MANHOLE
- ⊗ EX. HYDRANT
- ⊗ EX. WATER OR GAS VALVE
- ⊗ EX. UTILITY POLE
- ⊗ EX. SEWER CLEANOUT
- ⊗ EX. WATER WELL
- ⊗ EX. LIGHT POLE
- ⊗ EX. UTILITY RISER
- EX. MAILBOX

REV. #	DATE	DESCRIPTION	BY

STATUS/REVISIONS

**WAK** Engineers-Architects-Consultants  
**William A. Kibbe & Associates, Inc.**  
 1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:  
 RENOVATION AND ALTERATIONS TO  
 400 BLOCK OF JOHNSON STREET

DRAWN BY: VJV	SHEET TITLE: TOPOGRAPHIC SURVEY
DESIGNED BY: VJV	
CHECKED BY: PGC	
APPROVED BY: MAD	DRAWING NUMBER: <b>C1</b>
PROJECT NUMBER: 12-0462-0190	SHEET 1 OF 1

**PRELIMINARY**

## **Attachment 4**

Hazardous Materials Identification Survey – June 11, 2012

**ASBESTOS AND HAZARDOUS MATERIALS SURVEY  
FORMER PLAZA HOTEL  
400 JOHNSON STREET  
SAGINAW, MICHIGAN 48607**

*for*

**SAGINAW COUNTY BROWNFIELD  
REDEVELOPMENT AUTHORITY  
AND  
SAGINAW COUNTY BUILDING AUTHORITY  
111 SOUTH MICHIGAN  
SAGINAW, MICHIGAN 48602**

**AKT PEERLESS PROJECT NO. 7444s-3-18  
JUNE 11, 2012**

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**APPENDICES**

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APPENDIX B .....BULK ASBESTOS SAMPLE LABORATORY DATA SHEETS  
APPENDIX C .....SUMMARY OF HAZARDOUS MATERIALS  
APPENDIX D.....LABORATORY ANALYTICAL RESULTS FOR LEAD SAMPLES

**ASBESTOS AND HAZARDOUS MATERIALS SURVEY  
FORMER PLAZA HOTEL  
400 JOHNSON STREET  
SAGINAW, MICHIGAN 48607**

**FOR**

**SAGINAW COUNTY BROWNFIELD REDEVELOPMENT AUTHORITY  
SAGINAW COUNTY BUILDING AUTHORITY  
111 SOUTH MICHIGAN  
SAGINAW, MICHIGAN 48602**

**AKT PEERLESS PROJECT NO. 7444S-3-18**

## **1.0 INTRODUCTION**

Saginaw County Brownfield Redevelopment Authority (SCBRA) retained AKT Peerless Environmental & Energy Services (AKT Peerless) to conduct a pre-demolition Asbestos and Hazardous Materials Survey of the former Plaza Hotel at 400 Johnson Street, Saginaw, Michigan. Refer to Figure 1 for a Subject Property Location Map. AKT Peerless' scope of work is based on its Sampling and Analysis Plan, approved by the United States Environmental Protection Agency (USEPA), and the terms and conditions of the service agreement with the SCBRA. AKT Peerless' Asbestos and Hazmat Survey was performed for the benefit of the SCBRA and Saginaw County Building Authority.

### **1.1 PURPOSE**

The purpose of AKT Peerless' asbestos survey was to: (a) identify and locate suspect asbestos containing material (ACM), (b) establish a sampling plan, based on homogeneous and functional areas, (c) to sample and assess significant sources of friable and non-friable suspect ACM, (d) quantify the ACM identified at the property, and (e) prepare a final summary documenting ACM and Presumed Asbestos Containing Materials (PACM) quantities, locations, and results.

The purpose of the 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 demolition occurs (often these materials are banned from landfill disposal), and (b) prepare a final summary documenting the potentially hazardous materials.

### **1.2 LIMITATIONS AND EXCEPTIONS OF THE SURVEY**

Locating and identifying building materials that contain asbestos and other potentially hazardous materials is a difficult and time-consuming task. All buildings have hidden spaces that may not be immediately obvious to a surveyor, who is not intimately familiar with the building and who has only a limited time in the building. Complicating this task is the fact that asbestos was used in a variety of building components and in many types of materials in the construction of buildings. In some of these materials, asbestos is present, not as an intentional ingredient, but as a contaminant.

Although AKT Peerless uses trained and licensed inspectors in attempting to locate and identify building materials that contain asbestos and other hazardous materials, AKT Peerless cannot verify that all ACMs and other hazardous materials have been identified. It is possible that there are materials or building components that were not found, because they were not visible or accessible to the inspection team or for various other reasons, were not sampled.

Quantities' of identified ACM and other hazardous materials that are reported in this survey are often used to generate cost projections for abatement projects. AKT Peerless recommends that a contingency of 15 percent be considered to address a number of unknown factors that may significantly affect the cost projection. Further, it should be anticipated that there will be other costs associated with the construction/abatement including engineering and testing fees. For planning purposes, AKT Peerless recommends an allowance of 20 percent for these costs.

**Quantities of identified ACM reported in this document are provided for reference only and should not be 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. AKT Peerless recommends that a contingency allowance be used to address estimating method uncertainties for quantified materials. Listed quantities should be used for reference purposes only and are not authorized to be used for contractor bidding purposes.

AKT Peerless encountered building-specific limitations during the survey including, but not limited to, the following:

- Areas enclosed by fixed wall systems were restricted to limited visual access. Fixed wall systems include, but are not limited to drywall, concrete, brick, block, and paneled walls with an underlying building structure. These systems are installed in the interior areas of the buildings. As part of the survey, only limited inspection of the internal wall cavities were possible.
- Access to suspect ACM and hazardous materials was restricted in areas defined as being located within a regulated confined space (i.e., such as within machinery, pits, crawl spaces, etc.). These areas require the use of trained confined space professionals, personnel protective equipment, and rescue personnel.
- During the survey, some areas of the facility lacked electrical lighting. AKT Peerless used portable spotlights and flashlights to improve general viewing conditions.
- Access was not available to the elevator shafts located within the subject building.
- During the survey, no dismantling of electrical, mechanical, or hydraulic equipment was conducted. Due to potential hazards, confined spaces, and because trade personnel were not available (i.e., electrician, plumbers, etc.), no dismantling of equipment was performed to identify the existence of PCB containing components, mercury switches, or asbestos insulation.
- The estimated contents of unlabeled containers observed on-site are based on the professional judgment of its appearance and experience with similar containers in similar situations or facilities. Materials described as unknowns will require further characterization prior to disposal.

- The presence of debris, stored items, and remaining furniture limited the inspection and observations.
- Observations on the exterior of the property were limited by the presence of overgrown vegetation in certain areas.
- AKT Peerless estimated the quantity of asbestos containing building materials located at the subject property; however, as stated above, AKT Peerless does not warranty the accuracy of these estimates. Since the electrical power was still in operation in the building, many ACMs were not readily accessible for quantification. Examples of the materials with limited accessibility includes: Boiler Unit, Electrical Panels, Fire Doors, and Transformers.

## 2.0 ASBESTOS SURVEY

In May and June 2012, Mr. Donald L. Malusi of AKT Peerless conducted a Pre-Demolition Asbestos Survey of the subject building. The subject property consisted of the following structure:

<b>Subject Building – 400 Johnson Street</b>			
<b>General Construction</b>	<b>Interior Finish:</b>	<b>Square Ft. (Floor plan)</b>	<b>Construction and Other Improvement Dates</b>
8-Story; flat roof; poured concrete and block frame, slab on grade, interior wood, concrete, and metal framing, miscellaneous aluminum, brick, wood, stucco finishes; swimming pool, three electrical cable-driven elevators, drilled pier/caisson foundations, no basement	Drywall, resilient floor tiles, ceramic tile, carpet, acoustical ceiling tiles, paint, wood, metal, glass, concrete etc.	Ground Floor – ~21,120 SF  2 <sup>nd</sup> – 8 <sup>th</sup> - ~12,000 SF per floor	Constructed in 1979

During the Asbestos Survey, AKT Peerless noted observable materials (e.g., materials that are readily accessible and visible without dismantling permanent structures, such as walls, floors and ceilings) that may contain asbestos.

AKT Peerless prepared general site drawings of the subject buildings, which are included as Figures 1 – 5.

AKT Peerless was not provided with any previous asbestos or hazardous materials surveys for the subject property.

## 2.1 **SCOPE OF WORK**

The scope of work for AKT Peerless’ asbestos survey is based on the Asbestos School Hazard Abatement Reauthorization Act (ASHARA). The purpose of ASHARA is to extend the Asbestos Hazard Emergency Response Act (AHERA) inspection and management requirements

to commercial and industrial buildings. Further, the survey is based on the ASTM Standard E 1368, *Standard Practice for Assessment of Asbestos Containing Building Materials (ACM) in Connection with Real Estate Transaction*.

The asbestos survey was performed using the following procedures:

1. AKT Peerless conducted an inspection of the building area to identify building materials that are suspect for asbestos content. The AHERA rule requires that the suspect materials be identified, located and documented, and that friable suspect materials are assessed and classified for friability and damage. During the inspection, homogeneous areas were delineated and sampled, as appropriate. Functional spaces were also identified for purposes of assessing all suspect materials, as appropriate.
2. AKT Peerless conducted a physical assessment of friable and non-friable suspect materials. In accordance with AHERA, non-friable suspect materials do not require a physical assessment. However, a general description of the condition of the non-friable suspect materials was provided. The physical assessment includes assessing (a) the condition of the friable suspect material and (b) the potential for disturbance.
3. All samples collected were submitted with chain-of-custody documentation to an analytical laboratory that participates in the National Voluntary Laboratory Accreditation Program (NVLAP). All samples were analyzed using polarized light microscopy (PLM) with dispersion staining following USEPA Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook. In an effort to minimize costs, AKT Peerless used first positive stop analysis methodologies. First positive stop involves analyzing samples by homogeneous area groupings. Laboratory analyses were performed sample by sample within each homogeneous area grouping until a sample was determined to be asbestos containing.

### **3.0 ASBESTOS SURVEY PROCEDURES**

The following sections of this survey outline the approach, procedures, and methods employed by AKT Peerless to complete the Asbestos Survey of the on-site buildings.

#### **3.1 DESCRIPTION OF HOMOGENEOUS AREAS**

During the asbestos survey, AKT Peerless identified Homogeneous Areas (HA) based on appearances and type of materials observed. As defined under AHERA, a homogeneous area is an area 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 material classifications that include:

**Surfacing Materials (SM):** 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.

**Thermal System Insulation (TSI):** 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 (MM):** A building material on structural components, structural members, or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

During the preparation of this survey, 47 homogeneous areas were identified. A description of homogeneous areas is presented for review in Appendix A.

### **3.2 DESCRIPTION OF FUNCTIONAL SPACES**

In general, functional spaces are defined as spatially distinct units or areas within a building, which contain identifiable populations of building occupants. These spaces can include office areas, storage spaces, services areas, guest rooms, etc. However, a functional space can also be delineated based on the general building layout, facility use factors, and can be assigned using various arbitrary factors that were useful in the completion of this survey. AKT Peerless designated several functional spaces throughout the subject property. The functional space table is in Appendix A. A depiction of the subject property location and functional spaces, as well as the floor plan layout is presented for review on Figures 1 through 5.

### **3.3 BULK SAMPLE MATERIAL INVENTORY**

Based on the inspection, 47 homogeneous materials were identified during the survey. With the exception of select materials, which were assumed to contain asbestos, AKT Peerless collected bulk samples of the homogeneous materials for laboratory analysis.

Samples were collected in polyethylene containers and labeled with an identification number. In general, AKT Peerless' sampling protocol consisted of: (a) extracting a sample with a clean knife, chisel, or coring tool and (b) placing the sample into its properly labeled 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:

#### **3.3.1 Surfacing Materials (SM)**

Surfacing materials consist of building materials that have been sprayed-on, troweled-on, or otherwise applied to building surfaces for acoustical, fireproofing, or other purposes. Sample locations selected were evenly distributed and representative of the entire survey area. If fewer than nine samples are collected, a random sampling scheme was used to determine the sample locations.

#### **3.3.2 Thermal System Insulation (TSI)**

For thermal system insulation, the number of samples and the sample locations was dependent on local circumstances. Typically, a minimum of three samples of each homogeneous sampling area was collected. For long pipe runs and for piping runs that extend into additional functional areas,

additional samples were collected as appropriate at the discretion of the accredited inspector. For pipe runs or patched areas of less than six linear feet (e.g., where facility repair or re-insulation activities may have occurred), at least one sample was collected. In addition, areas of pipe insulating cement were sampled based on the discretion of the accredited asbestos inspector.

### **3.3.3 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 and ceiling tiles and roofing materials. Sampling of these materials was by delineation of homogeneous areas and functional spaces. Based on the quantities of the materials identified, samples of the suspect materials were collected by the accredited asbestos inspector in a manner sufficient to determine its asbestos content.

Suspect and confirmed ACMs identified and any obvious potential health concerns associated with these materials, such as damage or friability, are presented in the Homogeneous Areas Table that is provided for review in Appendix A.

## **3.4 LABORATORY ANALYTICAL PROCEDURES**

All samples collected were submitted to and analyzed by Apex Research of Whitmore Lake, Michigan. Apex Research is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP). Chain-of-custody guidelines were followed 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 titled: Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, and 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.

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. The Occupational Safety and Health Administration (OSHA) definition of ACM is any material containing more than one (1) percent asbestos. Materials containing one (1) percent or less asbestos are considered non-asbestos containing.

AKT Peerless utilized the “positive-stop” method of sample analysis. In this method, analysis 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 (HA) and functional spaces (FS) as appropriate. Upon completion of these activities, representative bulk samples of the suspect materials were collected. For example, ceiling tile

located in different functional spaces found to be uniform in texture and color and appeared similar in every other respect. This material was considered one homogenous area and was sampled accordingly.

Based on the homogeneous and functional areas identified during the survey, AKT Peerless collected bulk samples for analysis. Samples were collected in polyethylene containers and labeled with an identification number. In general, AKT Peerless' sampling protocol consisted of: (a) extracting a sample with a clean knife or chisel and (b) placing the sample into its properly labeled sample container.

Asbestos containing materials are summarized in Section 5.1 and the Homogeneous Area Table in Appendix A.

Copies of laboratory datasheets and Chain of Custody documents for the bulk suspect ACMs are presented in Appendix B.

#### **4.0 SURVEY FOR OTHER POTENTIALLY HAZARDOUS MATERIALS**

AKT Peerless 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.

##### **4.1 OTHER HAZARDOUS MATERIALS INSPECTION PROCEDURES**

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 demolition occurs.

As part of the survey, 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, 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. The potential for PCB-content of the ballasts was determined based on the apparent age of the reflective ceiling or representative checks of light fixtures. No sampling of any hazardous component materials was performed.

An inventory of hazardous materials and containers was prepared and is included in Appendix C.

#### 4.2 WASTE WATER DISPOSAL

Removal of water accumulated within the elevator pits, swimming pool, spa, and other site features, including but not limited to, boiler, heat, fire protection, and domestic water systems will require special handling and discharge during demolition. AKT Peerless contacted Mr. Jason Casteel, Environmental Compliance Manager, for the City of Saginaw Wastewater Treatment Plant. According to Mr. Casteel, the on-site water can be discharged to the municipal sanitary sewer system. Mr. Casteel stated that he needed notification in advance of the discharge event. AKT Peerless did not conduct waste water characterization sampling.

Note that no access was available to enter the elevator shafts. AKT Peerless performed a limited visual evaluation through a gap in the door, and observed standing water within the elevator shafts.

#### 4.3 LEAD BASED PAINT TESTING AND RESULTS

AKT Peerless collected ten lead paint chip samples including two quality control samples to determine the presence/absence of lead in representative painted surface coatings. Testing is for confirmation of lead content; untested paint (or other surface coatings considered suspect by EPA) will generally be assumed to contain lead. Paint chip samples were submitted to Apex Research, Inc. under chain-of-custody control. Apex Research is a NLLAP accredited laboratory and participates in the AIHA/ELPAT program for analysis by ICP/AES Method. None of the ten samples tested positive for lead by being over the 0.5% by weight threshold for lead-based paint. The paint sample laboratory results are included in Appendix D. Other painted surfaces should be assumed lead-based unless further sampling is performed. Disturbance of lead painted surfaces or cleanup of damaged/deteriorated lead paint coatings should only be conducted by properly trained personnel using equipment and methods designed for use on lead-based paint.

The paint chip samples were collected using hand tools. Sample collection consisted of removing an area of painted surface approximately one square inch in size and consisting of all individual paint layers minus the underlying substrate (i.e., wood or metal surfaces, etc.). All samples were containerized in individual sampling bags equipped with a zip lock-style seal and assigned a specific sample identification number.

**Lead Results Table  
Former Plaza Hotel**

Sample Identification	Location	Lead Content
L-1	FS-82 White Paint on Ceiling 8 <sup>th</sup> Floor East-West Hallway	<0.01%
L-2	FS-57 White Paint on East Wall 8 <sup>th</sup> Floor Stairway	<0.01%
Q-1	Quality Control #1 of L-1	<0.01%
L-3	FS-5 Pink/White Paint on Column	<0.01%
L-4	FS-16 Beige Paint on North Wall in 1 <sup>st</sup> Floor Laundry	<0.01%

Sample Identification	Location	Lead Content
Q-2	Quality Control #2 of L-2	<0.01%
L-5	FS-16 Gray Paint on Floor in 1 <sup>st</sup> Floor Laundry	<0.01%
L-6	FS-63 Beige Paint on North Wall of Exterior	<0.01%
L-7	FS-63 Green Paint on Lamp Post on North Side	<0.01%
L-8	FS-63 White Paint on Column on South Side near Entrance to Vestibule 3	<0.01%

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

AKT Peerless was retained to conduct an Asbestos and Hazardous Materials Survey of the “Former Plaza Hotel,” located at, 400 Johnson Street, Saginaw, Michigan. The purpose of the survey was to identify the location of ACMs and other hazardous materials that will require special handling procedures or removal activities before the conduct of general building demolition activities. The following sections of this report summarize the findings of the survey.

### 5.1 SUMMARY OF IDENTIFIED ASBESTOS CONTAINING MATERIALS

During the preparation of the Asbestos Survey, AKT Peerless identified 47 homogenous areas of suspect ACM in the building. Based on the materials observed, samples of suspect ACM were collected for laboratory analysis. Materials not sampled were assumed to be asbestos containing. Based on the results of the asbestos survey, AKT Peerless identified the following ACMs:

**Positive or Assumed Asbestos Results Table  
Former Plaza Hotel**

Description of ACM	HA No.	ACM Location and Functional Space (Refer to Attach Maps and Tables)	Approximate Quantity
Fire Doors 1.5 Hours (Assumed ACM)	HA-10	FS-56 and FS-57	15 Doors
Electrical Panels, internal components and backer board (Assumed ACM)	HA-16	FS-7, FS-19, FS-21, FS-31, FS-38, FS-58, FS-68	40 Panels
Transformers (Assumed Internal Components)	HA-21	FS-58, FS-59, FS-67	8 Transformers
Boiler Unit (Assumed Internal Components)	HA-47	FS-58	1 Unit

Based on the findings of the site review and sampling, AKT Peerless recommends the following:

1. AKT Peerless was unable to observe the interior components of the boiler unit (HA-47) located in the utility room of the subject building. Due to access limitations, AKT Peerless was unable to determine if asbestos containing insulating material, gaskets, etc. exist within the boiler. Due to this concern, AKT Peerless recommends that the boiler be segregated from the building debris and suspect internal materials be sampled for asbestos content once the boiler have been opened as part of the demolition project. Otherwise, it is recommended that the boiler units be assumed to contain asbestos and handled in accordance with applicable state and federal regulations.
2. If demolition activities will make the material friable or recycling is planned, the assumed asbestos-containing fire doors (HA-10), electrical panels (HA-16), and transformers (HA-21) must be removed prior to demolition and handled in accordance with applicable State and Federal Regulations or tested for asbestos content.

## **5.2 SUMMARY OF IDENTIFIED OTHER POTENTIALLY HAZARDOUS MATERIALS**

During the Hazardous Material Survey, AKT Peerless observed the existence of various types of potentially hazardous materials in the building. In general, these materials were stored in 100-gallon or smaller containers of various capacities. An inventory of hazardous building materials and containers was prepared and is included in Appendix C.

AKT Peerless recommends that qualified contractors perform the removal of these materials and follow appropriate special handling and disposal measures, which are required before general building demolition. Based on the conditions observed, it is recommended that unknown waste materials be sampled and appropriately characterized for waste disposal or recycling purposes.

## **5.3 SUMMARY OF LEAD TESTING**

AKT Peerless collected ten lead paint chip samples including two quality control samples to confirm the presence of lead in representative painted surface coatings. All ten samples were analyzed and the results were under the regulated level of being consider lead-based paint. Other painted surfaces that were not tested at this time should be assumed to be lead-based paint unless the material is sampled and analyzed by a qualified laboratory.

Building renovation/demolition work involving lead paint coated building components is regulated under the OSHA Construction Industry Standard for Lead (29 CFR 1926.62) and applies when painted surfaces have been identified to contain lead in any detectable concentration. In Michigan, these standards have been adopted into the MIOSHA Lead in Construction Standard (Part 603). AKT Peerless recommends that engineering controls be implemented for work on identified lead painted surfaces and on painted surfaces that were not sampled that may be cut with a torch, welded, sawed, or otherwise cut.

AKT Peerless recommends that air monitoring be performed to assess heavy metal dust and fume exposure in worker breathing zones for initial assessment of lead exposure levels pursuant to 29 CFR 1926.62 (d) (2) and corresponding regulations for other heavy metals.

The Michigan Occupational Health and Safety Administration (MIOSHA) defines “Lead containing paint” as a lead content that is greater than 0.06%. For all renovation or demolition areas with lead containing paint (lead content exceeding 0.06%), AKT Peerless recommends that engineering controls be implemented for lead painted surfaces that may be disturbed during demolition activities. AKT Peerless assumes untested painted surfaces and any painted surface with lead content greater than 0.06% to be “lead containing paint,” and the following recommendations apply to activities that disturb those surfaces:

- Enclosures and high efficiency particulate air (HEPA) vacuums may be utilized to limit potential exposure to lead during selective demolition of lead paint coated building components. AKT Peerless also recommends that air monitoring be performed to assess lead exposure in worker breathing zones for initial assessment of lead exposure pursuant to the MIOSHA lead standard for construction.
- Engineering controls and personal protective equipment are required for abrasive blasting operations according to OSHA 29 CFR 1926.62.
- It is recommended that workers be provided with adequate personal protective equipment (respiratory protection) and that initial monitoring for lead in blood levels should be conducted for employees potentially exposed to lead. If the initial assessment results demonstrate that worker exposure is below the MIOSHA action levels or permissible exposure limits for lead, discontinuance of monitoring can be performed. If monitoring results indicate that workers are exposed to lead above applicable OSHA action levels or permissible exposure limits, other worker protection and monitoring requirements will take effect, such as employee notification of exposure, implementation of a respiratory protection program, establishment of hygiene facilities, continued medical surveillance, and employee awareness training.

The lead lab results and Chain of Custody are located in Appendix D.

## **6.0 LIMITATIONS**

The information and opinions obtained in this report are for the exclusive use of the Saginaw County Brownfield Redevelopment Authority and Saginaw County Building Authority. 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 in light of 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 Client.

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 Client, Property Owner, or third parties is complete or accurate.

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Donald L. Malusi Jr.

Environmental Consultant

**AKT Peerless Environmental & Energy Services**

MIOSHA LARA CSHD Asbestos Inspector Accreditation No. A14322

Report reviewed by: Ryan T. Londrigan

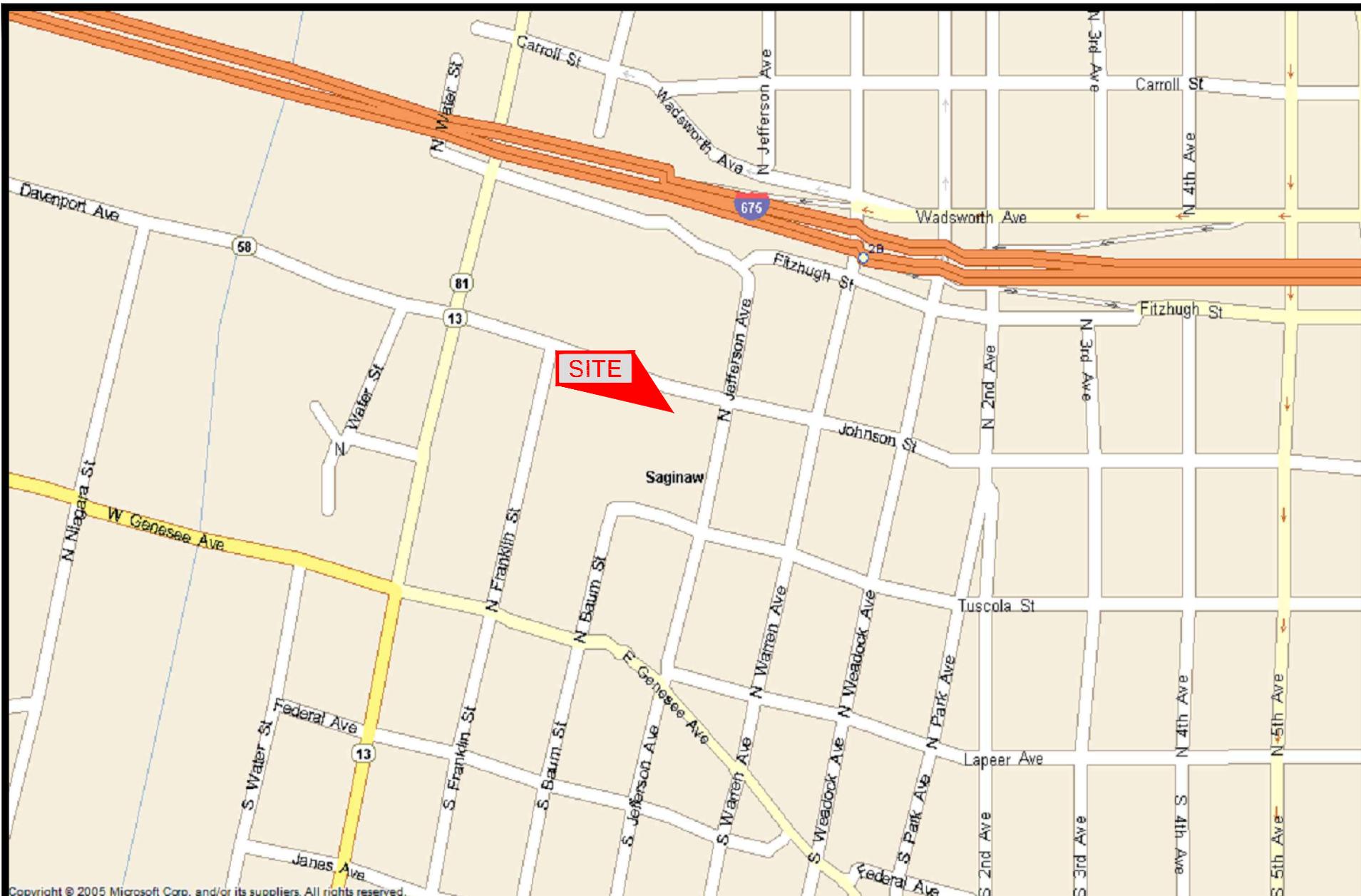
Ryan T. Londrigan, CHMM<sup>®</sup>

Project Manager

**AKT Peerless Environmental & Energy Services**

MIOSHA LARA CSHD Asbestos Inspector Accreditation No. A25728

## **FIGURES**



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 environmental & energy services  
 CHICAGO DETROIT FARMINGTON LANSING SAGINAW  
 www.aktpeerless.com

**SUBJECT PROPERTY LOCATION MAP**

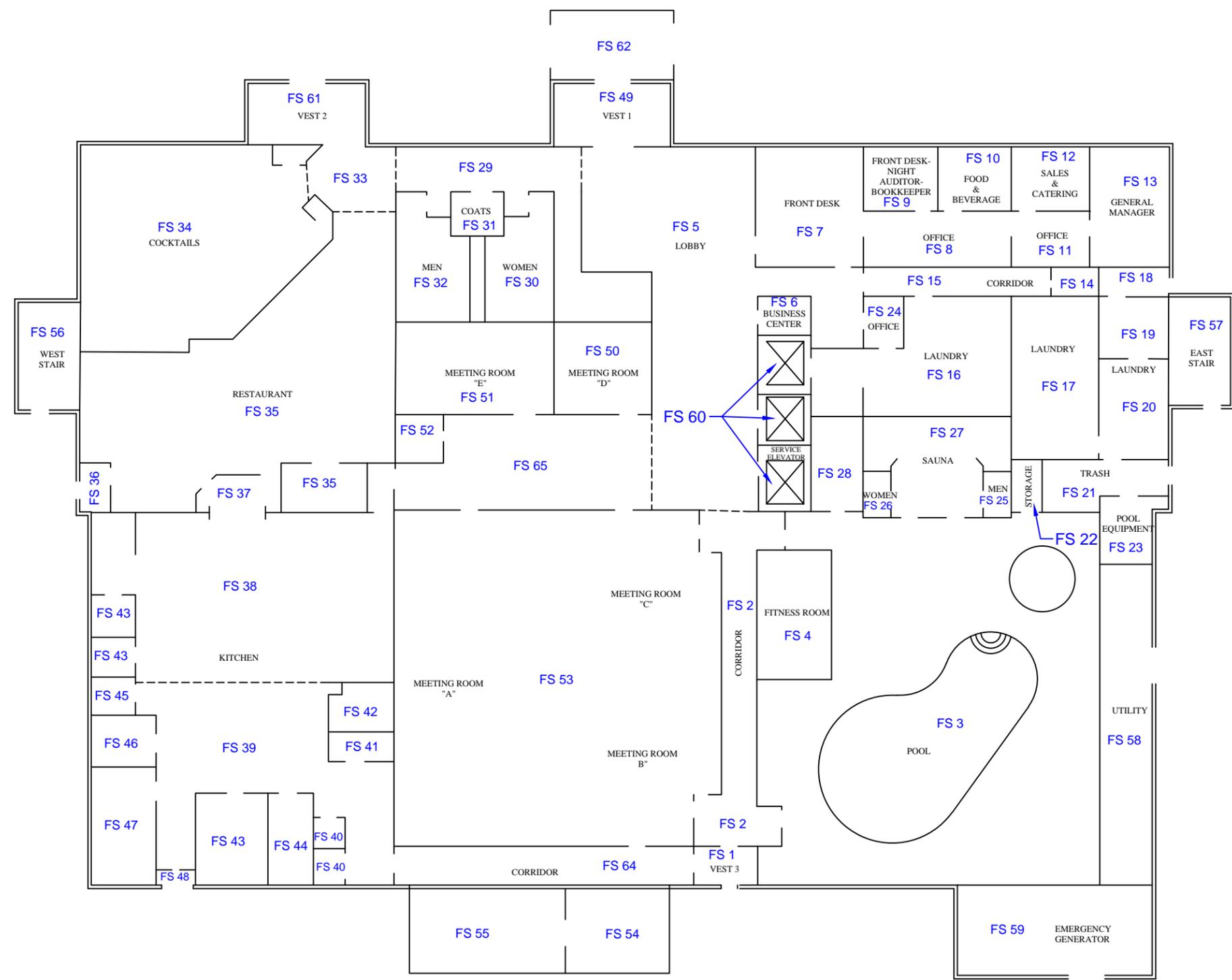
FORMER PLAZA HOTEL  
 400 JOHNSON STREET  
 SAGINAW, MICHIGAN  
 PROJECT NUMBER : 7444s

**LEGEND**



DRAWN BY: OGO  
 DATE: 05-24-12

FIGURE 1



FS 62 - Front Canopy  
FS 63 - Exterior  
FS 66 - 1st Floor Roof  
FS 67 - 8th Floor Roof  
FS 68 - Penthouse on 8th Floor Roof

Scale is approximate, room locations area generalized

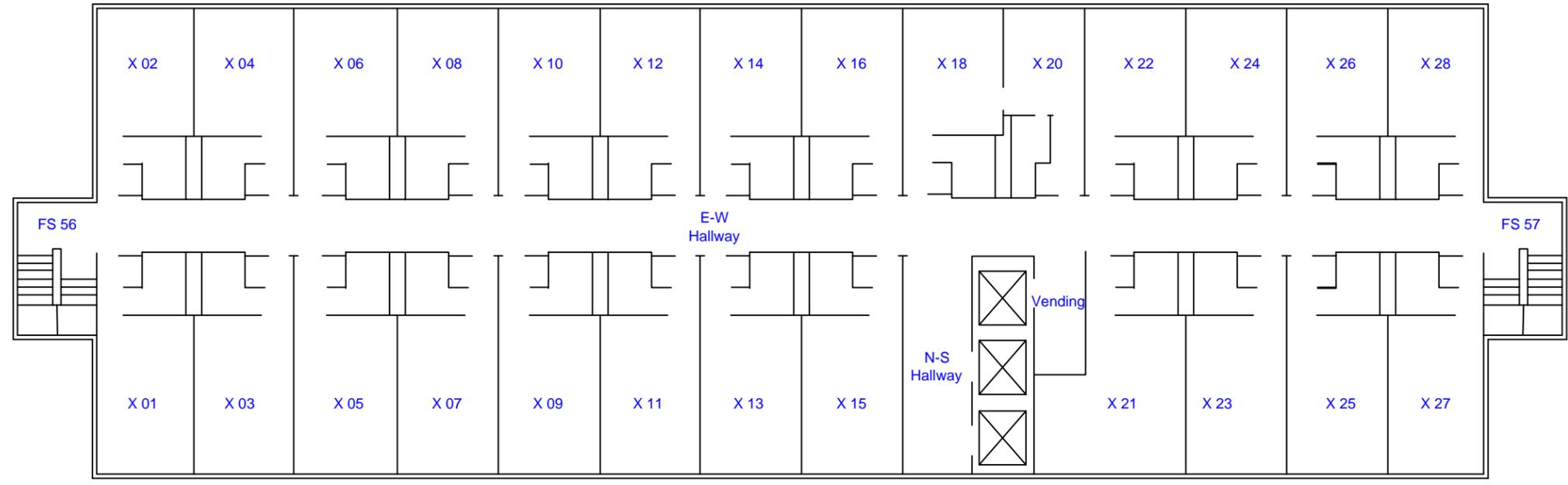
FUNCTIONAL SPACE MAP - FIRST FLOOR

FORMER PLAZA HOTEL  
400 JOHNSON STREET  
SAGINAW, MICHIGAN  
PROJECT NUMBER : 7444s

DRAWN BY: OGO  
DATE: 05-31-12

0 10 20  
SCALE: 1" = 20'-0"

FIGURE 2



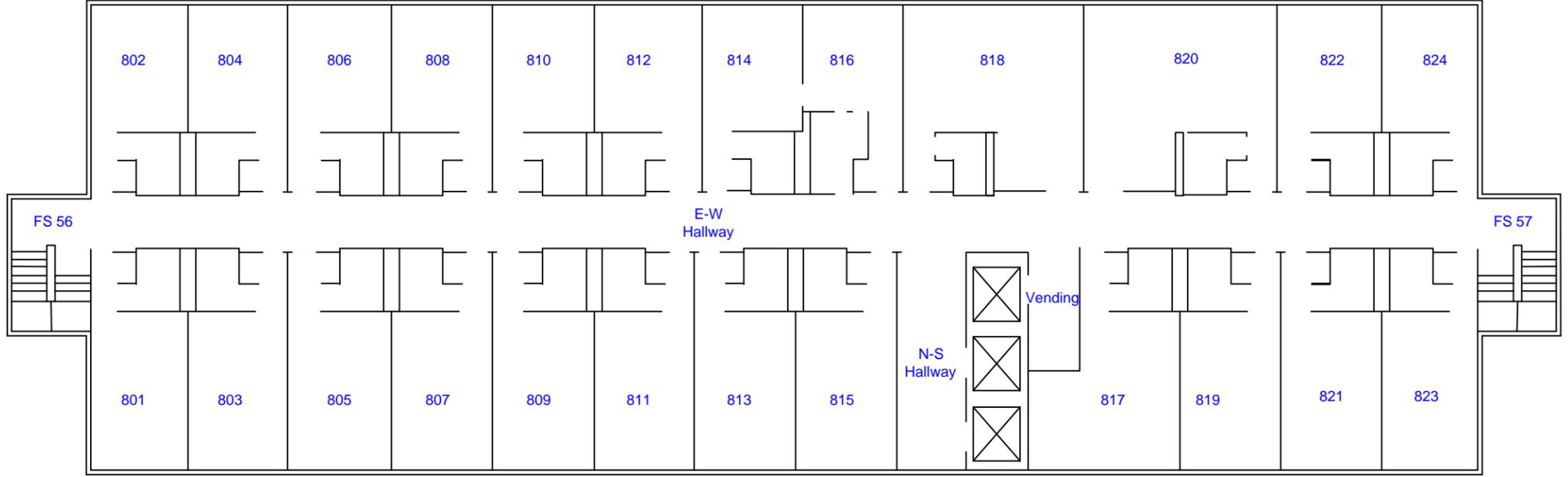
Scale is approximate, room locations area generalized

DRAWN BY: OGO  
DATE: 05-31-12  
0 10 20  
SCALE: 1" = 20'-0"  
FIGURE 3

FUNCTIONAL SPACE MAP- 2ND-7TH FLOORS

FORMER PLAZA HOTEL  
400 JOHNSON STREET  
SAGINAW, MICHIGAN  
PROJECT NUMBER : 7444s

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FUNCTIONAL SPACE MAP - 8TH FLOOR

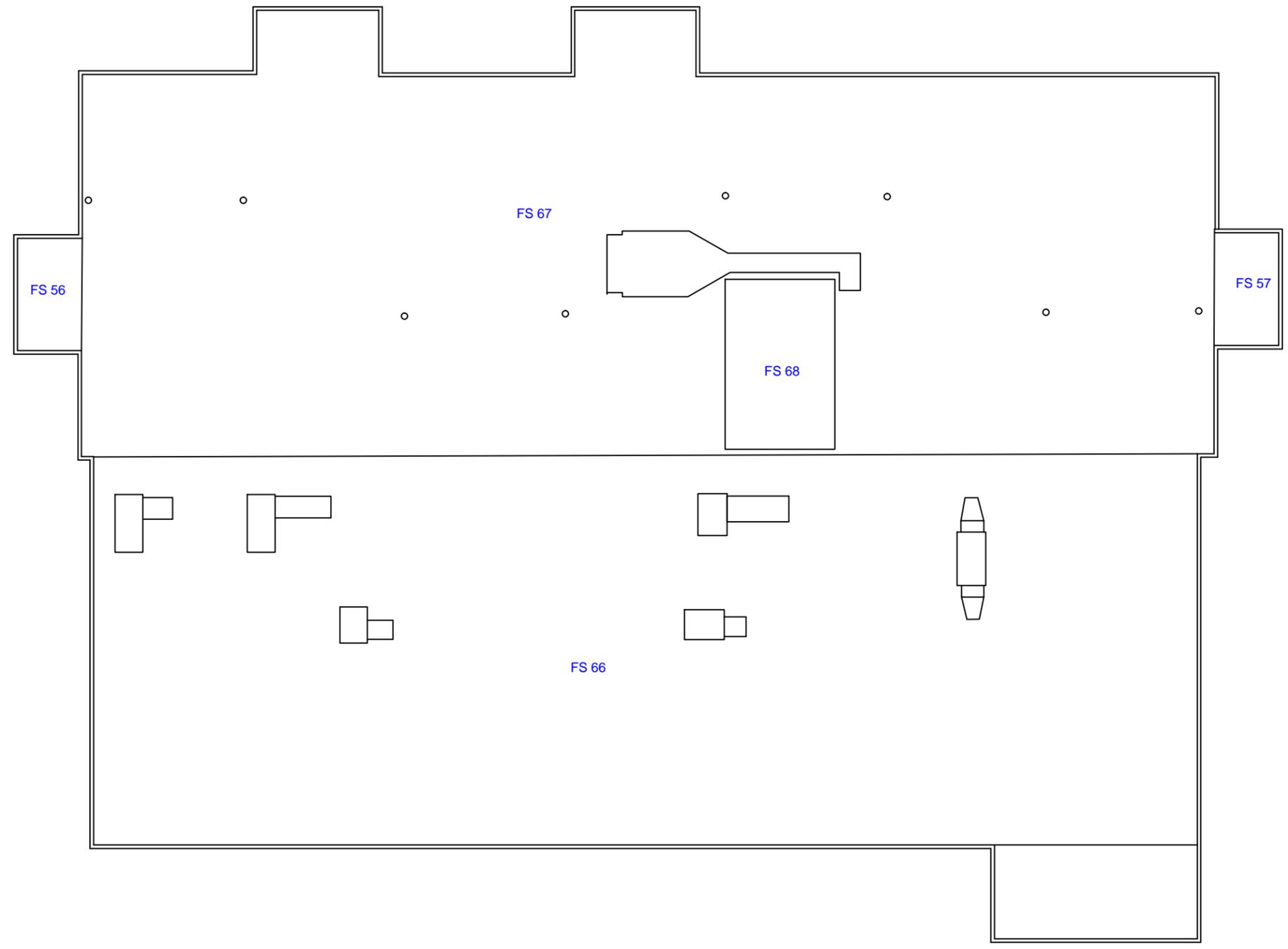
FORMER PLAZA HOTEL  
400 JOHNSON STREET  
SAGINAW, MICHIGAN  
PROJECT NUMBER : 7444s

DRAWN BY: OGO  
DATE: 05-31-12

0 10 20  
SCALE: 1" = 20'-0"

FIGURE 4

Scale is approximate, room locations area generalized



FS 56 - West Stairway  
FS 57 - East Stairway  
FS 66 - 1st Floor Roof  
FS 67 - 8th Floor Roof  
FS 68 - Penthouse

Scale is approximate, room locations area generalized

DRAWN BY: OGO  
DATE: 05-31-12  
0 10 20  
SCALE: 1" = 20'-0"  
FIGURE 5

FUNCTIONAL SPACE MAP- ROOF

FORMER PLAZA HOTEL  
400 JOHNSON STREET  
SAGINAW, MICHIGAN  
PROJECT NUMBER : 7444s

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**APPENDIX A**

**FUNCTIONAL SPACE AND HOMOGENEOUS AREA TABLES**

**FUNCTIONAL SPACE LISTING**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

<b>Functional Space No.</b>	<b>Description</b>	<b>Floor</b>
1	Vestibule 3	1st
2	Corridor	1st
3	Pool	1st
4	Fitness Room	1st
5	Lobby	1st
6	Business Center	1st
7	Front Desk	1st
8	Office	1st
9	Night Auditor/ Bookkeeper	1st
10	Food and Beverage Office	1st
11	Office	1st
12	Sales and Catering Office	1st
13	General Manager	1st
14	Storage Room	1st
15	Corridor	1st
16	Laundry	1st
17	Laundry/ Dryer Room	1st
18	East Door Entranceway	1st
19	Laundry Storage	1st
20	Laundry Storage	1st
21	Trash	1st
22	Storage	1st
23	Pool Equipment	1st
24	Laundry Office	1st

**FUNCTIONAL SPACE LISTING**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

<b>Functional Space No.</b>	<b>Description</b>	<b>Floor</b>
25	Men's Restroom	1st
26	Women's Restroom	1st
27	Sauna	1st
28	Pool Storage	1st
29	Corridor	1st
30	Women's Restroom	1st
31	Coats	1st
32	Men's Restroom	1st
33	Bar/ Restaurant Entranceway	1st
34	Bar Area	1st
35	Restaurant Area	1st
36	West Entranceway/ Exit	1st
37	Waitress Station	1st
38	Kitchen- Northern Area	1st
39	Kitchen- Southern Area	1st
40	Janitor's Closet and Chemical Storage	1st
41	Employee's Restroom	1st
42	Employee's Lounge	1st
43	Walk-in Coolers	1st
44	Walk-In Freezer	1st
45	Kitchen Storage	1st
46	Kitchen Storage 2	1st
47	Kitchen Storage 3	1st
48	South Kitchen Vestibule	1st

**FUNCTIONAL SPACE LISTING**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

<b>Functional Space No.</b>	<b>Description</b>	<b>Floor</b>
49	Vestibule 1	1st
50	Meeting Room D	1st
51	Meeting Room E	1st
52	Closet/ Storage	1st
53	Meeting Rooms A, B, and C	1st
54	East Storage Room in Addition	1st
55	West Storage Room in Addition	1st
56	West Stairway	1st-8th
57	East Stairway	1st-8th
58	Utility Room	1st
59	Emergency Generator	1st
60	Elevators	1st-8th
61	Vestibule 2	1st
62	Front Canopy	Exterior
63	Exterior	Exterior
64	Corridor	1st
65	Hallway	1st
66	1st Floor Roof	Roof
67	8th Floor Roof	Roof
68	Penthouse	Roof
69	2nd Floor North-South Hallway	2nd
70	2nd Floor East-West Hallway	2nd
71	3rd Floor North-South Hallway	3rd
72	3rd Floor East-West Hallway	3rd

**FUNCTIONAL SPACE LISTING**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

<b>Functional Space No.</b>	<b>Description</b>	<b>Floor</b>
73	4th Floor North-South Hallway	4th
74	4th Floor East-West Hallway	4th
75	5th Floor North-South Hallway	5th
76	5th Floor East-West Hallway	5th
77	6th Floor North-South Hallway	6th
78	6th Floor East-West Hallway	6th
79	7th Floor North-South Hallway	7th
80	7th Floor East-West Hallway	7th
81	8th Floor North-South Hallway	8th
82	8th Floor East-West Hallway	8th
83	2nd Floor Vending Area	2nd
84	2nd Floor Saginaw Room	2nd
85	Room 202	2nd
86	2nd Floor Rooms	2nd
87	3rd Floor Vending Area	3rd
88	3rd Floor Rooms	3rd
89	4th Floor Vending Area	4th
90	4th Floor Rooms	4th
91	5th Floor Vending Area	5th
92	5th Floor Rooms	5th
93	6th Floor Vending Area	6th
94	6th Floor Rooms	6th
95	7th Floor Vending Area	7th
96	7th Floor Rooms	7th

**FUNCTIONAL SPACE LISTING**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

<b>Functional Space No.</b>	<b>Description</b>	<b>Floor</b>
97	8th Floor Vending Area	8th
98	8th Floor Rooms	8th

**Notes**

NA= Not Applicable

**ASBESTOS SURVEY- HOMOGENEOUS AREA SUMMARY**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

HA No.	Material Description	Location	Material Class	Approx. Quantity (SF)(LF)	Friability	Asbestos Present	Condition
1	White Textured Paint on Ceiling	All Guest Rooms and Hallways Floors 2nd-8th	SM	Not Estimated	F	No	Good
2	Drywall Tape and Mud	Throughout Building	MM	Not Estimated	NF	No	Good
3	Beige Sink Undercoating	Room 818	MM	2 SF	NF	No	Good
4	Yellow Carpet Glue in Rooms	Throughout Guest Rooms Floors 2-8	MM	Not Estimated	NF	No	Good
5	Yellow Carpet Glue in Hallways and Corridors	Throughout Hallways and Corridors Floors 1-8	MM	Not Estimated	NF	No	Good
6	White Caulk at Wood Trim Near Ceiling	Vending Areas, Room 818, Room 223	MM	Not Estimated	NF	No	Good
7	Brown Caulk at Wood Trim Near Ceiling	Vending Areas, Room 818, Room 223	MM	Not Estimated	NF	No	Good
8	Wernock Hersey Listed 20 Minute Fire Door WHI 608303	Every Guest Room	MM	192 Doors	NF	No	Good
9	White Window Caulk	Every Guest Room	MM	Not Estimated	NF	No	Good
<b>10</b>	<b>Fire Door 1.5 Hours (Assumed ACM)</b>	<b>Stairwells FS-56 and FS-57</b>	<b>MM</b>	<b>15 Doors</b>	<b>NF</b>	<b>Assumed ACM</b>	<b>Good</b>
11	12" x 12" Green Floor Tile with mastic	Room 323	MM	40 SF	NF	No	Good

**ASBESTOS SURVEY- HOMOGENEOUS AREA SUMMARY**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

HA No.	Material Description	Location	Material Class	Approx. Quantity (SF)(LF)	Friability	Asbestos Present	Condition
12	2' x 2' White Ceiling Tile- textured with Pinholes	FS-2, FS-5, FS-65	MM	Not Estimated	NF	No	Good
13	Beige Caulk (rubbery) at wall and ceiling	FS-1, FS-3, FS-5	MM	Not Estimated	NF	No	Good
14	White Textured Paint on Ceiling	FS-3 Pool Area	SM	Not Estimated	F	No	Good
15	2' x 4' White Ceiling Tile with elongated grooves and pinholes	FS-50, FS-51	MM	Not Estimated	NF	No	Good
<b>16</b>	<b>Electrical Panels (Assumed Internal Components)</b>	<b>FS-7, FS-19, FS-21, FS-31, FS-38, FS-58, FS-68</b>	<b>MM</b>	<b>40 Panels</b>	<b>NF</b>	<b>Assumed ACM</b>	<b>Good</b>
17	Thermal Tank Insulation	FS-58 Utility Room	TSI	200 SF	F	No	Damaged
18	Thermal Mud Pipe Fitting Insulation	FS-58 Utility Room	TSI	10 Fittings	F	No	Damaged
19	Thick White Spray-on (Hard)	FS-53	SM	2,800 SF	F	No	Good
20	Roofing Material	1st Floor Roof	MM	10,200 SF	NF	No	Good
<b>21</b>	<b>Transformers (Assumed Internal Components)</b>	<b>FS-58, FS-59, FS-67</b>	<b>MM</b>	<b>8 Transformers</b>	<b>NF</b>	<b>Assumed ACM</b>	<b>Good</b>
22	Brown Glue on Room Signs and Mirrors in Bar	All Guest Rooms and Direction Signs and FS-34	MM	Not Estimated	NF	No	Good

**ASBESTOS SURVEY- HOMOGENEOUS AREA SUMMARY**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

HA No.	Material Description	Location	Material Class	Approx. Quantity (SF)(LF)	Friability	Asbestos Present	Condition
23	Duct Insulation Black/ Gray with Caulk	FS-66 1st Floor Roof	MM	Not Estimated	NF	No	Good
24	8th Floor Roofing Material	FS-67 8th Floor Roof	MM	11,200 SF	NF	No	Good
25	Drywall 2nd Layer Pipe Chase	Throughout pipe chases Floors 2-8	MM	Not Estimated	NF	No	Good
26	Drywall 3rd Layer Pipe Chase	Throughout pipe chases Floors 2-8	MM	Not Estimated	NF	No	Good
27	Drywall 4th Layer Pipe Chase	Throughout pipe chases Floors 2-8	MM	Not Estimated	NF	No	Good
28	Thermal Mud Pipe Fitting Insulation	Throughout pipe chases Floors 1-8 and above ceilings on floor 1	TSI	1,700 Fittings	F	No	Damaged
29	Skim Coat on Walls and Pipes	Throughout pipe chases Floors 2-8	MM	Not Estimated	NF	No	Damaged
30	2' x 4' White Ceiling Tile- Textured	FS-14, FS-15	MM	Not Estimated	NF	No	Good
31	Roof Drain Fittings/ Hanger Insulation	FS-3, FS-16, FS-17	TSI	10 Fittings	F	No	Damaged
32	Green Blend Formica and Glue	FS-60	MM	Not Estimated	NF	No	Good
33	4" Black Baseboard with Glue	FS-16, FS-17, FS-18	MM	Not Estimated	NF	No	Good

**ASBESTOS SURVEY- HOMOGENEOUS AREA SUMMARY**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

HA No.	Material Description	Location	Material Class	Approx. Quantity (SF)(LF)	Friability	Asbestos Present	Condition
34	Exterior Column Material- Brown with Netting	FS-63 Exterior	MM	Not Estimated	NF	No	Good
35	Quality Control Sample of HA-12	QC	MM	Not Estimated	NF	No	Good
36	Quality Control Sample of HA-15	QC	MM	Not Estimated	NF	No	Good
37	White Caulk around Vents	FS-63 Exterior	MM	Not Estimated	NF	No	Good
38	Brown Caulk around Windows	FS-63 Exterior	MM	Not Estimated	NF	No	Good
39	2' x 4' Ceiling Tile- Solid	FS-38, FS-39, FS-41, FS-42, FS-45, FS-46, FS-47, FS-48	MM	Not Estimated	NF	No	Good
40	12" x 12" White Blend Floor Tile with Mastic	FS-47	MM	Not Estimated	NF	No	Good
41	12' x 12" Grey Smokey Blend Floor Tile with Mastic	FS-45, FS-46	MM	Not Estimated	NF	No	Good
42	Orange/Yellow Foam	FS-54, FS-55	MM	Not Estimated	NF	No	Good
43	Brown Glue on Wood	FS-61	MM	Not Estimated	NF	No	Good
44	Brown/White Skim Coat at Ceiling around Pipes	FS-16, FS-17, FS-34, FS-35	MM	Not Estimated	NF	No	Good

**ASBESTOS SURVEY- HOMOGENEOUS AREA SUMMARY**

**CLIENT:** Saginaw County Brownfield Redevelopment Authority

**PROJECT NO:** 7444s-3-18

**PROJECT NAME:** Former Plaza Hotel, 400 Johnson Street, Saginaw, MI

HA No.	Material Description	Location	Material Class	Approx. Quantity (SF)(LF)	Friability	Asbestos Present	Condition
45	Wall Material Brown/White with Netting and Styrofoam	FS-63 Exterior	MM	Not Estimated	NF	No	Good
46	Rubber Seals Between HA-45	FS-63 Exterior	MM	Not Estimated	NF	No	Good
<b>47</b>	<b>Boiler Unit (Assumed Internal Components)</b>	<b>FS-58 Utility Room</b>	<b>MM</b>	<b>1 Unit</b>	<b>NF</b>	<b>Assumed ACM</b>	<b>Fair</b>

**Notes**

HA= Homogeneous Area

FS = Functional Space

SF= square feet

NF= Non-friable

MM = Miscellaneous Material

SM = Surfacing Material

LF = Linear Feet

**Asbestos Containing Material (ACM) is in bold**

TSI = Thermal System Insulation

F = Friable

**APPENDIX B**

**BULK ASBESTOS SAMPLE LABORATORY DATA SHEETS AND CHAIN OF  
CUSTODY FORMS**



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 01 Cust. #: 1-1 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40242 - 02 Cust. #: 1-2 Material: White Textured Paint Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40242 - 03 Cust. #: 1-3 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 15% Other - 85%

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 results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 04 Cust. #: 1-4 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40242 - 05 Cust. #: 1-5 Material: White Textured Paint Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40242 - 06 Cust. #: 1-6 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 35% Other - 65%

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Robert T. Letarte Jr., Laboratory Director

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# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 07 Cust. #: 1-7 Material: White Textured Paint Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40242 - 08 Cust. #: 1-8 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40242 - 09 Cust. #: 1-9 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 30% Other - 70%

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Robert T. Letarte Jr., Laboratory Director

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## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**  
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AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 10 Cust. #: 1-10 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40242 - 11 Cust. #: 1-11 Material: White Textured Paint Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40242 - 12 Cust. #: 1-12 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 30% Other - 70%

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Robert T. Letarte Jr., Laboratory Director

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ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 13 Cust. #: 1-13 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 30% Other - 70%
Lab ID #: 40242 - 14 Cust. #: 1-14 Material: White Textured Paint Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40242 - 15 Cust. #: 2-1 Material: Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 15a Cust. #: 2-1 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 40242 - 16 Cust. #: 2-2 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40242 - 17 Cust. #: 2-3 Material: Glue Location: Appearance: yellow, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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# Certificate of Laboratory Analysis

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Project # 7444S-3-18

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 17a Cust. #: 2-3 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Other - 70%
Lab ID #: 40242 - 18 Cust. #: 2-4 Material: Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40242 - 18a Cust. #: 2-4 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> 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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Project # 7444S-3-18

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Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 19 Cust. #: 2-5 Material: Glue Location: Appearance: yellow, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40242 - 19a Cust. #: 2-5 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%
Lab ID #: 40242 - 20 Cust. #: 2-6 Material: Glue Location: Appearance: yellow, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 20a Cust. #: 2-6 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40242 - 21 Cust. #: 2-7 Material: Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40242 - 21a Cust. #: 2-7 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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

Robert T. Letarte Jr., Laboratory Director

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Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40242  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40242 - 22 Cust. #: 2-8 Material: Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40242 - 22a Cust. #: 2-8 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 01 Cust. #: 3-1 Material: Beige Sink Undercoat Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 10% Other - 90%
Lab ID #: 40247 - 02 Cust. #: 4-1 Material: Carpet Glue Location: Room Appearance: beige, nonfibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 03 Cust. #: 4-2 Material: Carpet Glue Location: Room Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 04 Cust. #: 4-3 Material: Carpet Glue Location: Room Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 05 Cust. #: 5-1 Material: Carpet Glue Location: Hallway Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 06 Cust. #: 5-2 Material: Carpet Glue Location: Hallway Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 07 Cust. #: 5-3 Material: Carpet Glue Location: Hallway Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 08 Cust. #: 6-1 Material: White Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 09 Cust. #: 6-2 Material: White Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 10 Cust. #: 6-3 Material: White Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 11 Cust. #: 7-1 Material: Brown Caulk Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 12 Cust. #: 7-2 Material: Brown Caulk Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 13 Cust. #: 7-3 Material: Brown Caulk Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 14 Cust. #: 9-1 Material: White Window Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 15 Cust. #: 9-2 Material: White Window Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 16 Cust. #: 9-3 Material: White Window Caulk Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 17 Cust. #: 11-1 Material: Location: Appearance: white,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 18 Cust. #: 11-2 Material: Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 19 Cust. #: 11-3 Material: Location: Appearance: white, nonfibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40247 - 20 Cust. #: 12-1 Material: Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 35% Mineral Wool - 35% Other - 30%
Lab ID #: 40247 - 21 Cust. #: 12-2 Material: Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 35% Mineral Wool - 35% Other - 30%

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ARI Report # 12-40247  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40247 - 22 Cust. #: 12-3 Material: Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 35% Mineral Wool - 35% Other - 30%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 01 Cust. #: 13-1 Material: Beige Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40244 - 02 Cust. #: 13-2 Material: Beige Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40244 - 03 Cust. #: 13-3 Material: Beige Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Saginaw, MI 48607

ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 04 Cust. #: 14-1 Material: White Textured Paint Location: Pool Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40244 - 05 Cust. #: 14-2 Material: White Textured Paint Location: Pool Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Vermiculite - 20% Other - 80%
Lab ID #: 40244 - 06 Cust. #: 14-3 Material: White Textured Paint Location: Pool Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 07 Cust. #: 15-1 Material: 2x4 Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 38% Mineral Wool - 2% Fiberglass - 30% Other - 30%
Lab ID #: 40244 - 08 Cust. #: 15-2 Material: 2x4 Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Mineral Wool - 2% Fiberglass - 28% Other - 30%
Lab ID #: 40244 - 09 Cust. #: 15-3 Material: 2x4 Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Mineral Wool - 2% Fiberglass - 28% Other - 30%

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

Robert T. Letarte Jr., Laboratory Director

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Saginaw, MI 48607

ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 10 Cust. #: 17-1 Material: Tank Insulation Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Mineral Wool - 2% Fiberglass - 20% Other - 28%
Lab ID #: 40244 - 11 Cust. #: 17-2 Material: Tank Insulation Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Mineral Wool - 2% Fiberglass - 58% Other - 40%
Lab ID #: 40244 - 12 Cust. #: 17-3 Material: Tank Insulation Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 35% Mineral Wool - 2% Fiberglass - 28% Other - 35%

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ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 13 Cust. #: 18-1 Material: Mud Fitting Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Mineral Wool - 2% Fiberglass - 25% Other - 73%
Lab ID #: 40244 - 14 Cust. #: 18-2 Material: Mud Fitting Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Mineral Wool - 2% Fiberglass - 25% Other - 73%
Lab ID #: 40244 - 15 Cust. #: 19-1 Material: Spray-on Insulation Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Other - 98%

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Saginaw, MI 48607

ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 16 Cust. #: 19-2 Material: Spray-on Insulation Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40244 - 17 Cust. #: 19-3 Material: Spray-on Insulation Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40244 - 18 Cust. #: 20-1 Material: 1st Floor Roofing Material Location: Appearance: black,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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



NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 19 Cust. #: 20-2 Material: 1st Floor Roofing Material Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Other - 50%
Lab ID #: 40244 - 20 Cust. #: 20-3 Material: 1st Floor Roofing Material Location: Appearance: black, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Synthetic - 50% Other - 50%
Lab ID #: 40244 - 21 Cust. #: 22-1 Material: Brown Glue Location: On Room Signs Appearance: yellow, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-18

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40244  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40244 - 22 Cust. #: 22-2 Material: Brown Glue Location: On Room Signs Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40244 - 23 Cust. #: 22-3 Material: Brown Glue Location: On Room Signs Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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Robert T. Letarte Jr., Laboratory Director

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# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-13

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 01 Cust. #: 23-1 Material: Caulk Location: 1st Floor Roof Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 01a Cust. #: 23-1 Material: Duct Insulation Location: 1st Floor Roof Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 02 Cust. #: 23-2 Material: Caulk Location: 1st Floor Roof Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 02a Cust. #: 23-2 Material: Duct Insulation Location: 1st Floor Roof Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 03 Cust. #: 23-3 Material: Duct Insulation Location: 1st Floor Roof Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 04 Cust. #: 24-1 Material: Roofing Material Location: 8th Floor Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 04a Cust. #: 24-1 Material: Insulation Location: 8th Floor Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 05 Cust. #: 24-2 Material: Roofing Material Location: 8th Floor Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 05a Cust. #: 24-2 Material: Insulation Location: 8th Floor Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 06 Cust. #: 24-3 Material: Roofing Material Location: 8th Floor Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 06a Cust. #: 24-3 Material: Insulation Location: 8th Floor Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40245 - 07 Cust. #: 25-1 Material: Pipe Chase Drywall 2nd Layer Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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Project: 400 Johnson, Saginaw, MI  
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ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 08 Cust. #: 25-2 Material: Pipe Chase Drywall 2nd Layer Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40245 - 09 Cust. #: 25-3 Material: Pipe Chase Drywall 2nd Layer Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40245 - 10 Cust. #: 26-1 Material: Pipe Chase Drywall 3rd Layer Location: Appearance: grey, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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

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## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-13

**Report To:**  
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Saginaw, MI 48607

ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 11 Cust. #: 26-2 Material: Pipe Chase Drywall 3rd Layer Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40245 - 12 Cust. #: 26-3 Material: Pipe Chase Drywall 3rd Layer Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40245 - 13 Cust. #: 27-1 Material: Pipe Chase Drywall 4th Layer Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%

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

Robert T. Letarte Jr., Laboratory Director

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Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-13

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 14 Cust. #: 27-2 Material: Pipe Chase Drywall 4th Layer Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40245 - 15 Cust. #: 27-3 Material: Pipe Chase Drywall 4th Layer Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 5% Other - 75%
Lab ID #: 40245 - 16 Cust. #: 28-1 Material: Pipe Chase Mud Fittings Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Mineral Wool - 25% Other - 75%

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

Robert T. Letarte Jr., Laboratory Director

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Project: 400 Johnson, Saginaw, MI  
Project # 7444S-3-13

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Saginaw, MI 48607

ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 17 Cust. #: 28-2 Material: Pipe Chase Mud Fittings Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Mineral Wool - 25% Other - 75%
Lab ID #: 40245 - 18 Cust. #: 28-3 Material: Pipe Chase Mud Fittings Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Mineral Wool - 25% Other - 75%
Lab ID #: 40245 - 19 Cust. #: 28-4 Material: Pipe Chase Mud Fittings Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 10% Mineral Wool - 30% Other - 60%

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

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Saginaw, MI 48607

ARI Report # 12-40245  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40245 - 20 Cust. #: 28-5 Material: Pipe Chase Mud Fittings Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 10% Mineral Wool - 20% Other - 70%
Lab ID #: 40245 - 21 Cust. #: 28-6 Material: Pipe Chase Mud Fittings Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 15% Mineral Wool - 20% Other - 65%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 01 Cust. #: 29-1 Material: White Skim Coat Location: Pipe Chase Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 02 Cust. #: 29-2 Material: White Skim Coat Location: Pipe Chase Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 03 Cust. #: 29-3 Material: White Skim Coat Location: Pipe Chase Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 04 Cust. #: 30-1 Material: 2x4 Textured Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 35% Mineral Wool - 2% Fiberglass - 50% Other - 13%
Lab ID #: 40243 - 05 Cust. #: 30-2 Material: 2x4 Textured Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 35% Mineral Wool - 2% Fiberglass - 45% Other - 18%
Lab ID #: 40243 - 06 Cust. #: 30-3 Material: 2x4 Textured Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 35% Mineral Wool - 2% Fiberglass - 45% Other - 18%

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

Robert T. Letarte Jr., Laboratory Director

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ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 07 Cust. #: 31-1 Material: Roof Drain Fitting Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Mineral Wool - 2% Fiberglass - 20% Other - 78%
Lab ID #: 40243 - 08 Cust. #: 32-1 Material: Green Formica Location: Appearance: green, fibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 40243 - 08a Cust. #: 32-1 Material: Glue Location: Appearance: green, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 09 Cust. #: 32-2 Material: Green Formica Location: Appearance: green, fibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 95% Other - 5%
Lab ID #: 40243 - 09a Cust. #: 32-2 Material: Glue Location: Appearance: green, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 10 Cust. #: 33-1 Material: Black Baseboard Location: Appearance: black, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 10a Cust. #: 33-1 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 11 Cust. #: 33-2 Material: Black Baseboard Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 11a Cust. #: 33-2 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Project # 7444s-3-18

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 12 Cust. #: 33-3 Material: Black Baseboard Location: Appearance: black,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 12a Cust. #: 33-3 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 13 Cust. #: 34-1 Material: Exterior Column Material Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Fiberglass - 2% Synthetic - 20% Other - 76%

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ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 14 Cust. #: 34-2 Material: Exterior Column Material Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Fiberglass - 2% Synthetic - 25% Other - 71%
Lab ID #: 40243 - 15 Cust. #: 34-3 Material: Exterior Column Material Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Fiberglass - 5% Synthetic - 25% Other - 68%
Lab ID #: 40243 - 16 Cust. #: 35-1 Material: Caulk Location: 8th Floor Roof Appearance: grey, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Project # 7444s-3-18

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 16a Cust. #: 35-1 Material: Duct Insulation Location: 8th Floor Roof Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 17 Cust. #: 35-2 Material: Duct Insulation Location: 8th Floor Roof Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 18 Cust. #: 35-3 Material: Duct Insulation Location: 8th Floor Roof Appearance: black,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

**Report To:**  
Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40243  
Date Collected: 05/25/12  
Date Received: 05/29/12  
Date Analyzed: 05/30/12  
Date Reported: 05/30/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40243 - 19 Cust. #: 36-1 Material: Brown/White Caulk on Flashing Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 20 Cust. #: 36-2 Material: Brown/White Caulk on Flashing Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40243 - 21 Cust. #: 36-3 Material: Brown/White Caulk on Flashing Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Project # 7444s-3-18

**Report To:**  
Mr. Don Malusi  
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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 01 Cust. #: 31-2 Material: Fitting Insulation Location: Roof Drain Hanger Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Mineral Wool - 2% Fiberglass - 20% Other - 76%
Lab ID #: 40269 - 02 Cust. #: 31-3 Material: Fitting Insulation Location: Roof Drain Hanger Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 50% Mineral Wool - 2% Fiberglass - 15% Other - 33%
Lab ID #: 40269 - 03 Cust. #: 35-1 Material: 2x2 Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Mineral Wool - 2% Fiberglass - 40% Other - 18%

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

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Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 04 Cust. #: 36-1 Material: 2x4 Ceiling Tile Location: Appearance: beige, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 40% Mineral Wool - 2% Fiberglass - 35% Other - 23%
Lab ID #: 40269 - 05 Cust. #: 37-1 Material: White Caulk Location: Around Vents Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 06 Cust. #: 37-2 Material: White Caulk Location: Around Vents Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 07 Cust. #: 37-3 Material: White Caulk Location: Around Vents Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 08 Cust. #: 38-1 Material: Brown Caulk Location: Around Window Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 09 Cust. #: 38-2 Material: Brown Caulk Location: Around Window Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

Robert T. Letarte Jr., Laboratory Director

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Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

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AKT Peerless  
214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 10 Cust. #: 38-3 Material: Brown Caulk Location: Around Window Appearance: brown,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 11 Cust. #: 39-1 Material: 2x4 Ceiling Tile, White Solid Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%
Lab ID #: 40269 - 12 Cust. #: 39-2 Material: 2x4 Ceiling Tile, White Solid Location: Appearance: beige,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%

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

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Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 13 Cust. #: 39-3 Material: 2x4 Ceiling Tile, White Solid Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 20% Fiberglass - 2% Other - 78%
Lab ID #: 40269 - 14 Cust. #: 40-1 Material: 12x12 White w/Blend Floor Tile Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 14a Cust. #: 40-1 Material: Mastic Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

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Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 15 Cust. #: 40-2 Material: 12x12 White w/Blend Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 15a Cust. #: 40-2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 16 Cust. #: 40-3 Material: 12x12 White w/Blend Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 16a Cust. #: 40-3 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 17 Cust. #: 41-1 Material: Grey Smokey Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 17a Cust. #: 41-1 Material: Mastic Location: Appearance: clear,fibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Other - 98%

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

Robert T. Letarte Jr., Laboratory Director

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Project # 7444s-3-18

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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 18 Cust. #: 41-2 Material: Grey Smokey Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40269 - 18a Cust. #: 41-2 Material: Mastic Location: Appearance: clear,fibrous,homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 40269 - 19 Cust. #: 41-3 Material: Grey Smokey Floor Tile Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

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Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

**Report To:**  
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214 Janes Avenue  
Saginaw, MI 48607

ARI Report # 12-40269  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40269 - 19a Cust. #: 41-3 Material: Mastic Location: Appearance: clear, fibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson  
Project # 7444s - 3 - 18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI

ARI Report # 12-40282  
Date Collected: 05/30/12  
Date Received: 05/31/12  
Date Analyzed: 06/01/12  
Date Reported: 06/01/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40282 - 01 Cust. #: 42-1 Material: Orange Foam Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40282 - 02 Cust. #: 42-2 Material: Orange Foam Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40282 - 03 Cust. #: 43-1 Material: Brown Glue Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%

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 results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson  
Project # 7444s - 3 - 18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI

ARI Report # 12-40282  
Date Collected: 05/30/12  
Date Received: 05/31/12  
Date Analyzed: 06/01/12  
Date Reported: 06/01/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40282 - 04 Cust. #: 43-2 Material: Brown Glue Location: Appearance: brown, fibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 40282 - 05 Cust. #: 44-1 Material: Brown/White Skimcoat Location: Appearance: white, fibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 40282 - 05a Cust. #: 44-1 Material: Mortar Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%

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 results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson  
Project # 7444s - 3 - 18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI

ARI Report # 12-40282  
Date Collected: 05/30/12  
Date Received: 05/31/12  
Date Analyzed: 06/01/12  
Date Reported: 06/01/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40282 - 06 Cust. #: 44-2 Material: Brown/White Skimcoat Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: 40282 - 06a Cust. #: 44-2 Material: Mortar Location: Appearance: grey, fibrous, homogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 40282 - 07 Cust. #: 45-1 Material: Exterior Wall Material Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 15% Other - 85%

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

  
 Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson  
Project # 7444s - 3 - 18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI

ARI Report # 12-40282  
Date Collected: 05/30/12  
Date Received: 05/31/12  
Date Analyzed: 06/01/12  
Date Reported: 06/01/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40282 - 07a Cust. #: 45-1 Material: Mortar/Foam Location: Appearance: grey, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 40282 - 08 Cust. #: 45-2 Material: Exterior Wall Material Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%
Lab ID #: 40282 - 08a Cust. #: 45-2 Material: Mortar/Foam Location: Appearance: grey, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%

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

  
 Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson  
Project # 7444s - 3 - 18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI

ARI Report # 12-40282  
Date Collected: 05/30/12  
Date Received: 05/31/12  
Date Analyzed: 06/01/12  
Date Reported: 06/01/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40282 - 09 Cust. #: 45-3 Material: Exterior Wall Material Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Fiberglass - 10% Other - 90%
Lab ID #: 40282 - 09a Cust. #: 45-3 Material: Mortar/Foam Location: Appearance: grey, fibrous, nonhomogenous Layer: 2 of 2	Asbestos Present: <b>NO</b> No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 40282 - 10 Cust. #: 46-1 Material: Rubber Seal Location: Between HA-45 Appearance: beige, nonfibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%

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

  
 Robert T. Letarte Jr., Laboratory Director

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



NVLAP Lab Code 102118-0



# Certificate of Laboratory Analysis

## Test Method, Polarized Light Microscopy (PLM)

Project: 400 Johnson  
Project # 7444s - 3 - 18

**Report To:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Avenue  
Saginaw, MI

ARI Report # 12-40282  
Date Collected: 05/30/12  
Date Received: 05/31/12  
Date Analyzed: 06/01/12  
Date Reported: 06/01/12

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 40282 - 11 Cust. #: 46-2 Material: Rubber Seal Location: Between HA-45 Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: <b>NO</b> No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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

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

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



NVLAP Lab Code 102118-0

40242

APEX Research, Inc.

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



Customer Name: AKT Peerless  
Address: 214 Jones Avenue  
City, St., Zip: Saginaw, MI 48607  
Phone: 989 754 9846 Fax: 989 754 3804

Date of Survey: May 25, 2012  
Project: 400 Johnson, Saginaw, MI  
Project #: 74445-3-18  
Contact Person: Don Malusi  
Email: malusid@aktpeerless.com

Turn Around Times: (Circle One)

Rush  24 hour  72 hour  48 hour  
Other: TTP (yes) / no 48 hours  
(Test Till Positive)

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	1-1	White Textured Paint			
2	1-2				
3	1-3				
4	1-4				
5	1-5				
6	1-6				
7	1-7				
8	1-8				
9	1-9				
10	1-10				
11	1-11				

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Relinquished By: Don Malusi  
Date: 5-25-12 6 PM  
Revision Date: June 2011

Received By: Don Malusi  
Date: MAY 29 2012

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

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

PEX RESEARCH

# APEX Research, Inc.

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



Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI 48607  
 Phone: 989 754 9896 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson, Saginaw, MI  
 Project #: 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusid@aktpeerless.com

## Turn Around Times: (Circle One)

Rush  24 hour  72 hour  72 hour  
 48 hour  1 week  1 month  3 months  
 Other: 40242  TTP (yes) /  no 48 hours (Test Till Positive)  
 Asbestos: Bulk  X Wipe  Lead: Bulk  Wipe  Air  Point Count  PCM  Soil   
 Mold: Bulk  Tape  TEM: Bulk/NOP  AHERA  EPA Level II  Other  Other  Other

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
12	1-12	White Textured Paint			
13	1-13	" " " " " "			
14	1-14	" " " " " "			
15	2-1	Drywall			
16	2-2	" "			
17	2-3	" "			
18	2-4	" "			
19	2-5	" "			
20	2-6	" "			
21	2-7	" "			
22	2-8	" "			

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Relinquished By: Don Malusi Received By: Don Malusi Relinquished By: \_\_\_\_\_  
 Date: 5-25-12 6 PM Date: 5 MAY 29 2012 Date: \_\_\_\_\_  
 Revision Date: June/2011

**APEX RESEARCH**

# 40247

## APEX Research, Inc.

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



Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI 48607  
 Phone: 989 754 9846 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson, Saginaw, MI  
 Project # 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusi@aktpeerless.com

### Turn Around Times: (Circle One)

Rush  24 hour  needed final report within 72 hour  
 48 hour  72 hour  TTP (yes) / no 48 hours  
 Other: \_\_\_\_\_ (Test Till Positive) hours

Asbestos: Bulk  Wipe \_\_\_\_\_  
 Lead: Bulk \_\_\_\_\_ Wipe \_\_\_\_\_  
 Mold: Bulk \_\_\_\_\_ Tape \_\_\_\_\_  
 TEM: Bulk/NOP \_\_\_\_\_ AHERA \_\_\_\_\_ EPA Level II \_\_\_\_\_

Point Count \_\_\_\_\_ PCM \_\_\_\_\_  
 Air \_\_\_\_\_ Paint \_\_\_\_\_  
 Other \_\_\_\_\_ Viable \_\_\_\_\_

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	3-1	Beige Sink Undercoat			
2	4-1	Room Carpet Glue			
3	4-2				
4	4-3				
5	5-1	Hallway Carpet Glue			
6	5-2				
7	5-3				
8	6-1	White Caulk			
9	6-2				
10	6-3				
11	7-1	Brown Caulk			

Relinquished By: Don Malusi  
 Date: 5-25-12 6 PM  
 Revision Date: June 2011

Received By: RECEIVED  
 Date: 5-29-12  
**MAY 29 2012**

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

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

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



# APEX Research, Inc.

Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI 48607  
 Phone: 989 754 9896 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson, Saginaw, MI  
 Project #: 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusi@aktpeerless.com

## Turn Around Times: (Circle One)

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

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
40247-12	7-2	Brown Calk			
13	7-3				
14	9-1	White Window Calk			
15	9-2				
16	9-3				
17	11-1				
18	11-2				
19	11-3				
20	12-1				
21	12-2				
22	12-3				

Relinquished By: Don Malusi Received By: Don Malusi Relinquished By: \_\_\_\_\_  
 Date: 5-25-12 6PM Date: 5/29/12 Date: \_\_\_\_\_  
 Revision Date: June 2011

**APEX RESEARCH**

# 40244

## APEX Research, Inc.

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



Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St, Zip: Saginaw, MI 48607  
 Phone: 989 754 9846 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson, Saginaw MI  
 Project # 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusid@aktpeerless.com

### Turn Around Times: (Circle One)

Rush  24 hour  Need Final report within  
 48 hour  72 hour   
 Other: TTP (yes) / no 48 hours (Test Till Positive)

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	13-1	Beige Caulk			
2	13-2				
3	13-3				
4	14-1	White Textured Paint-Pool			
5	14-2				
6	14-3				
7	15-1	2X4 Ceiling Tile			
8	15-2				
9	15-3				
10	17-1	Task Insulation			
11	17-2				

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Relinquished By: Don Malusi  
 Date: 5-25-12 6 PM  
 Revision Date: June 2011

Received By: Don Malusi  
 Date: 5-25-12 9:20 AM

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

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

**APEX RESEARCH**

# APEX Research, Inc.

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



Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St, Zip: Saginaw, MI 48607  
 Phone: 989 754 9846 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson, Saginaw MI  
 Project #: 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusid@aktpeerless.com

## Turn Around Times: (Circle One)

Rush  24 hour  72 hour  48 hour  Other: \_\_\_\_\_

Asbestos:  Bulk  Wipe  Point Count  PCM  Soil

Lead:  Bulk  Wipe  Air  Paint  Viable

Mold:  Bulk  Tape  BioSIS  Other  Other

TEM:  Bulk/NOP  AHERA  EPA Level II  Other

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
12	17-3	Tank Insulation			
13	18-1	Mod Filting			
14	18-2				
15	19-1	Spray-on Insulation			
16	19-2				
17	19-3				
18	20-1	1st Floor Roofing Material			
19	20-2				
20	20-3				
21	22-1	Brown Glue on Room Signs			
22	22-2				

Reinquished By: Don Malusi  
 Date: 5-25-12 6 PM  
 Revision Date: Jun/2011

Received By: Don Malusi  
 Date: 5-29-12 2 9 2012

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

Reinquished By: \_\_\_\_\_  
 Date: \_\_\_\_\_

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Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI 48607  
 Phone: 989 754 9846 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson, Saginaw, MI  
 Project # 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusi@aktpeerless.com

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

Rush  24 hour  72 hour  72 hour  
 Asbestos: Bulk  Wipe  Point Count  PCM  Soil   
 Lead: Bulk  Wipe  Air  Paint   
 Mold: Bulk  Tape  BIOSIS  Other  Viable   
 Other: TTP (yes) / no 48 (Test Till Positive) hours  
 TEM: Bulk/NOP  AHERA  EPA Level II  Other

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	23-1	1st Floor Roof Part Insulation			
2	23-2				
3	23-3				
4	24-1	8th Floor Roofing Material			
5	24-2				
6	24-3				
7	25-1	Pipe Chase Drywall 2nd Layer			
8	25-2				
9	25-3				
10	26-1	Pipe Chase Drywall 3rd Layer			
11	26-2				

Relinquished By: Don Malusi Received By: Don Malusi Relinquished By: \_\_\_\_\_  
 Date: 5-25-12 6 PM Date: 5/29/12 9 2012 Date: \_\_\_\_\_  
 Revision Date: June 2011

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



Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI 48607  
 Phone: 989 754 9846 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson, Saginaw, MI  
 Project #: 7445-3-18  
 Contact Person: Don Malusi  
 Email: malusid@aktpeerless.com

## Turn Around Times: (Circle One)

Rush  24 hour  Need Final Report within 72 hours  
 48 hour  72 hour  TTP (yes) / no 48 hours (Test Till Positive)  
 Other: 40hrs

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

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
12	26-3	Pipe Chase Drywall 3rd floor			
13	27-1	Pipe Chase Drywall 4th floor			
14	27-2				
15	27-3				
16	28-1	Pipe Chase Mud Eittings			
17	28-2				
18	28-3				
19	28-4				
20	28-5				
21	28-6				

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Relinquished By: Don Malusi Received By: Don Malusi Relinquished By: \_\_\_\_\_  
 Date: 5-25-12 6 PM Date: 5-29-12 Date: \_\_\_\_\_  
 Revision Date: June 2011

**APEX RESEARCH**

# 40243

## APEX Research, Inc.

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



Customer: JKT Peerless  
 Address: 214 Jones Avenue  
 City, St, Zip: Saginaw, MI 48607  
 Phone: 989 754 9896 Fax: 989 754-3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson Saginaw, MI  
 Project # 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusid@aktpeerless.com

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

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

### Turn Around Times: (Circle One)

Rush  24 hour Week Final report within  
 48 hour 72 hour  
 Other: \_\_\_\_\_ TTP (yes) / no 48 hours (Test Till Positive) hours  
 Asbestos: Bulk  Wipe \_\_\_\_\_ Point Count \_\_\_\_\_ PCM \_\_\_\_\_  
 Lead: Bulk \_\_\_\_\_ Wipe \_\_\_\_\_ Air \_\_\_\_\_ Paint \_\_\_\_\_ Soil \_\_\_\_\_  
 Mold: Bulk \_\_\_\_\_ Tape \_\_\_\_\_ BIOSIS \_\_\_\_\_ Other \_\_\_\_\_ Viable \_\_\_\_\_  
 TEM: Bulk/NOP \_\_\_\_\_ AHERA \_\_\_\_\_ EPA Level II \_\_\_\_\_ Other \_\_\_\_\_

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1		White Sk. Coat - PIPERS			
2	29-1				
3	29-2				
4	29-3				
5	30-1	2x4 Textured Ceiling Tile			
6	30-2				
7	30-3				
8	31-1	Roof Drain Fitting			
9	32-1	Green Formicard Glue			
10	32-2				
11	33-1	Red Stacks board w/ Glue			
	33-2				

Relinquished By: Don Malusi Received By: Don Malusi Relinquished By: \_\_\_\_\_  
 Date: 5-25-12 6 PM Date: MAY 29 2012 Date: \_\_\_\_\_  
 Revision Date: June/2011 APEX RESEARCH Date: \_\_\_\_\_

# APEX Research, Inc.

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



Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI 48607  
 Phone: 989 754 9846 Fax: 989 754 3804

Date of Survey: May 25, 2012  
 Project: 400 Johnson Saginaw, MI  
 Project #: 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusid@aktpeerless.com

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

## Turn Around Times: (Circle One)

Rush  24 hour  72 hour  72 hour  
 48 hour  TTP (yes) / no 48 hours  
 Other: 40243 (Test Till Positive) hours

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
12	33-3	Black Baseboard w/ Glue			
13	34-1	Extensor Column Material			
14	34-2				
15	34-3				
16	35-1	8th Floor Roof Duct Insulation			
17	35-2				
18	35-3				
19	36-1	Beamer/Linker Caulk on Flashing			
20	36-2				
21	36-3				

**RECEIVED**

Relinquished By: Don Malusi  
 Date: 5-25-12 6 PM  
 Revision Date: June 2011

Received By: Don Malusi  
 Date: 5-25-12

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

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

**APEX RESEARCH**

# 40269

## APEX Research, Inc.

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



PS1

Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI 48607  
 Phone: 989 754 9846 Fax: \_\_\_\_\_

Date of Survey: 5-29-12  
 Project: 400 Johnson, Saginaw, MI  
 Project # 74445-3-18  
 Contact Person: Don Malusi  
 Email: malusid@aktpeerless.com

### Turn Around Times: (Circle One)

Rush  24 hour  Need Final Report within  
 48 hour  72 hour  TTP (yes) / no 48 hours  
 Other: \_\_\_\_\_ (Test Till Positive)

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	31-2	Roof Drain Hanger Insulation			
2	31-3				
3	35-1	2x2 Ceiling Tile			
4	36-1	2x4 Ceiling Tile			
5	37-1	White Caulk around Vents			
6	37-2				
7	37-3				
8	38-1	Brown Caulk around Windows			
9	38-2				
10	38-3				
11	39-1	2x4 Ceiling Tile White Solid			

Relinquished By: Don Malusi Received By: APEX RESEARCH  
 Date: 5-29-12 5PM Date: 6-5-12 2:02 08 AM  
 Revision Date: June 2011

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

**RECEIVED**

**APEX Research, Inc.**

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

Web Site: <http://apexresearch-inc.com>. Email: Bob.Lettarte@apexresearchlab.com

P92



Customer Name: AHT Perless

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

City, St., Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Date of Survey: 5-29-12

Project: \_\_\_\_\_

Project # 74445-3-18

Contact Person: Don Maleris

Email: \_\_\_\_\_

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

Rush 24 hour Asbestos: Bulk  Wipe \_\_\_\_\_ Point Count \_\_\_\_\_ PCM \_\_\_\_\_

48 hour 72 hour \_\_\_\_\_ Lead: Bulk \_\_\_\_\_ Wipe \_\_\_\_\_ Air \_\_\_\_\_ Paint \_\_\_\_\_ Soil \_\_\_\_\_

Other: \_\_\_\_\_ TTP  yes  no Mold: Bulk \_\_\_\_\_ Tape \_\_\_\_\_ Biosis \_\_\_\_\_ Other \_\_\_\_\_ Viable \_\_\_\_\_

(Test Till Positive) TEM: Bulk/NOP \_\_\_\_\_ AHERA \_\_\_\_\_ EPA Level II \_\_\_\_\_ Other \_\_\_\_\_

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

Lab Use Only

Log-In: \_\_\_\_\_

Report: \_\_\_\_\_

Fax: \_\_\_\_\_

Verbal: \_\_\_\_\_

Email: \_\_\_\_\_

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
40269 12	39.2	2x4 Ceiling Tile White Solid			
13	39.3				
14	40-1	12x12 White with black Floor tile			
15	40-2				
16	40-3				
17	41-1	Gray Smokey Floor Tile			
18	41-2				
19	41-3				

Relinquished By: Don Maleris

Date: 5-29-12 5pm

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

Date: 6-05 MAY 30 2012

**RECEIVED**

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

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

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

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

**APEX RESEARCH**

# 40282

## APEX Research, Inc.

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



Customer Name: AKT Peerless  
 Address: 214 Jones Avenue  
 City, St., Zip: Saginaw, MI  
 Phone: 989-754-0996 Fax: 989-754-3804

Date of Survey: 5-30-12  
 Project: 400 Johnson  
 Project # 7445-3-18  
 Contact Person: Don Malysi  
 Email: malysid@aktpeerless.com

### Turn Around Times: (Circle One)

Rush  24 hour  
 48 hour  72 hour  
 Other:  TTP (yes) no (Test Tht Positive)

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

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

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

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	42-1	Orange foam			
2	42-2				
3	43-1	Brown glue			
4	43-2				
5	44-1	Brown/white skincoat			
6	44-2				
7	45-1	Exterior Wall Material			
8	45-2				
9	45-3				
10	46-1	Rubber Seal between HAs			
11	46-2				

Relinquished By: Don Malysi  
 Date: 5-30-12 YFN  
 Revision Date: June 2011

Received By: RECEIVED  
 Date: 160 MAY 31 2012

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

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

**APEX RESEARCH**

**APPENDIX C**

**SUMMARY OF HAZARDOUS MATERIALS**

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
Exterior	FS-63	Exterior Along North Jefferson	3	High Pressured Lamps- City Owned Light Poles
Exterior	FS-63	Exterior South Side Near Vestibule 3 Entrance	2	Mercury Vapor/ High Pressure Lamps
Exterior	FS-63	Exterior East Side	1	CFL Near Utility Room Door
Exterior	FS-63	Exterior North Side on Sign	8	4' Fluorescent bulbs
Exterior	FS-63	Exterior North Side on Sign	8	Ballasts
Exterior	FS-63	Exterior North Side on Sign	8	8' Fluorescent bulbs
Exterior	FS-63	Exterior North Side	20	Mercury Vapor Lights
Exterior	FS-63	Exterior- West Side	2	Compact Fluorescent Lights
Exterior	FS-63	Exterior- West Side	6	8' Fluorescent bulbs
Exterior	FS-63	Exterior- West Side	3	Ballasts
L1	FS-1	Vestibule 3	2	4' Fluorescent bulbs
L1	FS-1	Vestibule 3	1	Ballast
L1	FS-2	Corridor	14	2' Fluorescent bulbs- U-Shaped
L1	FS-2	Corridor	7	Ballasts
L1	FS-2	Corridor	6	Compact Fluorescent Lights
L1	FS-2	Corridor	2	Smoke Detectors- Possible Radiation
L1	FS-3	Pool Area	4	Mercury Vapor/ High Pressure Lamps
L1	FS-3	Pool Area	4	Smoke Detectors- Possible Radiation
L1	FS-3	Pool Area	1	Mercury Thermostat
L1	FS-4	Fitness Center	12	2' Fluorescent bulbs- U-Shaped
L1	FS-4	Fitness Center	6	Ballasts
L1	FS-4	Fitness Center	2	Mercury Thermostats
L1	FS-4	Fitness Center	1	Television- Miscellaneous Electronics
L1	FS-5	Lobby	4	4' Fluorescent bulbs
L1	FS-5	Lobby	2	Ballasts
L1	FS-5	Lobby	50	Compact Fluorescent Lights
L1	FS-5	Lobby	3	Smoke Detectors- Possible Radiation
L1	FS-5	Lobby	1	Small Refrigerator- CFC's
L1	FS-5	Lobby	1	Mercury Thermostat

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-5	Lobby	1	Aerosol 77 Multi-adhesive 16.75 Ounce
L1	FS-5	Lobby	1	Aerosol Can Spring Snow 18 Ounce
L1	FS-5	Lobby	6	2' Fluorescent bulbs- U-Shaped
L1	FS-5	Lobby	3	Ballasts
L1	FS-6	Business Center	4	2' Fluorescent bulbs- U-Shaped
L1	FS-6	Business Center	2	Ballasts
L1	FS-6	Business Center	3	Compact Fluorescent Lights
L1	FS-7	Front Desk	2	Video Monitors
L1	FS-7	Front Desk	2	12 Volt Batteries
L1	FS-7	Front Desk	1	Aerosol- 15 Ounce Insecticide
L1	FS-7	Front Desk	20	4' fluorescent bulbs
L1	FS-7	Front Desk	10	Ballasts
L1	FS-7	Front Desk	1	Smoke Detector- Possible Radiation
L1	FS-7	Front Desk	2	Assumed Batteries in Security Light (Power was on, these were not opened)
L1	FS-8	Office	24	4' Fluorescent bulbs
L1	FS-8	Office	12	Ballasts
L1	FS-8	Office	1	Smoke Detector- Possible Radiation
L1	FS-9	Night Auditor/ Bookkeeper Office	8	4' Fluorescent bulbs
L1	FS-9	Night Auditor/ Bookkeeper Office	4	Ballasts
L1	FS-9	Night Auditor/ Bookkeeper Office	40	Electronic Equipment
L1	FS-10	Food and Beverage Office	8	4' Fluorescent bulbs
L1	FS-10	Food and Beverage Office	4	Ballasts
L1	FS-11	Office	8	4' Fluorescent bulbs
L1	FS-11	Office	4	Ballasts
L1	FS-12	Sales and Catering Office	8	4' Fluorescent bulbs
L1	FS-12	Sales and Catering Office	4	Ballasts
L1	FS-12	Sales and Catering Office	1	Video Monitor
L1	FS-12	Sales and Catering Office	1	Compact Fluorescent Lights
L1	FS-13	General Manager Office	1	Smoke Detector- Possible Radiation
L1	FS-13	General Manager Office	1	Aerosol- Febreze 27 Ounce
L1	FS-13	General Manager Office	16	4' Fluorescent bulbs

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-13	General Manager Office	8	Ballasts
L1	FS-14	Storage Room	8	4' Fluorescent bulbs
L1	FS-14	Storage Room	4	Ballasts
L1	FS-15	Corridor	8	4' Fluorescent bulbs
L1	FS-15	Corridor	4	Ballasts
L1	FS-15	Corridor	1	Smoke Detector- Possible Radiation
L1	FS-16	Laundry	4	2.5 Gallon Containers 50% Full- Cleaners
L1	FS-16	Laundry	1	Liquid Fabric Softener 5 Gallon Size 90% Full
L1	FS-16	Laundry	2	Liquid Laundry Detergent 5 Gallon Size, one is Full, the other is 20% Full
L1	FS-16	Laundry	1	9 Pound Solid Powder Dish Detergent
L1	FS-16	Laundry	2	Assumed Batteries in Security Light (Power was on, these were not opened)
L1	FS-16	Laundry	4	24 Ounce Bottles Stain Blaster- Various Amounts
L1	FS-16	Laundry	4	Orange pot and pan cleaner 5 pound containters
L1	FS-17	Laundry/ Dryer Room	-	No Hazardous Materials Observed
L1	FS-18	East Door Entranceway	5	4' Fluorescent bulbs
L1	FS-18	East Door Entranceway	2	Ballasts
L1	FS-18	East Door Entranceway	2	50 Pound bags of weed killer, 1 full, 1 50% Full
L1	FS-18	East Door Entranceway	2	Video Monitors- Miscellaneous Electronics
L1	FS-18	East Door Entranceway	3	5-Gallon Pebbletex Finish
L1	FS-18	East Door Entranceway	1	Oil Compressor
L1	FS-19	Laundry Storage	1	Drinking Fountain- CFC's
L1	FS-19	Laundry Storage	7	4' Fluorescent bulbs
L1	FS-20	Laundry Storage	2	Fluorescent bulbs small (6")
L1	FS-20	Laundry Storage	1	Window Air Conditioner- CFC's
L1	FS-21	Trash	3	Quart Size Marking Paints
L1	FS-21	Trash	1	6 Ounce Size Biozyme
L1	FS-21	Trash	1	14.1 Ounce Propane

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-21	Trash	1	WD-40 10% Full
L1	FS-21	Trash	1	1/2 Pint Pipe Thread Sealer
L1	FS-21	Trash	1	Aersol can of Starch
L1	FS-21	Trash	50	Various Chemicals, caulks, cleaners, adhesives in black cabinet of various amounts
L1	FS-21	Trash	1	Tube of epoxy glue
L1	FS-21	Trash	1	Aerosol can of Spray Adhesive
L1	FS-21	Trash	20	Loose Fluorescent bulbs of various sizes
L1	FS-21	Trash	1	1 Gallon of Transchem Muriatic Acid
L1	FS-21	Trash	1	1 Gallon of antifreeze
L1	FS-21	Trash	2	6 Volt Batteries
L1	FS-21	Trash	1	1 Gallon Weed-b-gone
L1	FS-21	Trash	8	4' Fluorescent bulbs
L1	FS-21	Trash	4	Ballasts
L1	FS-22	Storage	4	4' Fluorescent bulbs
L1	FS-22	Storage	2	Ballasts
L1	FS-22	Storage	20	1 Gallon Size Paint and Stain Cans- Various Amounts
L1	FS-22	Storage	25	Aerosol Cans of Spray Enamel
L1	FS-22	Storage	1	Floc and Clear Settling Agent for Pools 32 Ounce 50% Full
L1	FS-22	Storage	1	Spa Defoamer
L1	FS-22	Storage	1	Drain Opener
L1	FS-22	Storage	20	1 Gallon Size or less of Various Pool Cleaners- Various Amounts
L1	FS-23	Pool Equipment	2	4' Fluorescent bulbs
L1	FS-23	Pool Equipment	1	Ballast
L1	FS-23	Pool Equipment	1	Oil Filled Machinery- Motor
L1	FS-24	Laundry Office	2	4' Fluorescent bulbs
L1	FS-24	Laundry Office	1	Ballast
L1	FS-24	Laundry Office	1	Aerosol Can of Spray Starch 20 Ounce Size 100% Full
L1	FS-24	Laundry Office	1	32 Ounce Carpet Stain Remover, 50% Full

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-24	Laundry Office	1	Betco Drain Unclogger 1 Quart, 20% Full
L1	FS-24	Laundry Office	1	28 Ounce Container of Ajax Bleach in powder form
L1	FS-24	Laundry Office	3	Red Containers of Infectious Waste (Bio-hazard), 1 is full, the other 2 are empty
L1	FS-24	Laundry Office	4	24 Ounce Bottles of Stain Blaster
L1	FS-25	Men's Restroom	4	4' Fluorescent bulbs
L1	FS-25	Men's Restroom	2	Ballasts
L1	FS-25	Men's Restroom	1	Compact Fluorescent Light
L1	FS-26	Women's Restroom	4	4' Fluorescent bulbs
L1	FS-26	Women's Restroom	2	Ballasts
L1	FS-26	Women's Restroom	1	Compact Fluorescent Light
L1	FS-27	Sauna	-	No Hazmat Observed
L1	FS-28	Pool Storage	5	Miscellaneous Computer Equipment (Monitors, CPU's, etc....)
L1	FS-28	Pool Storage	8	4' Fluorescent bulbs
L1	FS-28	Pool Storage	4	Ballasts
L1	FS-28	Pool Storage	1	2 Ounce Sure Grip Adhesive
L1	FS-28	Pool Storage	1	1 Tube sealant caulk
L1	FS-28	Pool Storage	2	4' Fluorescent bulbs- Loose
L1	FS-29	Corridor	1	Pay Phone- Miscellaneous Electronics
L1	FS-29	Corridor	1	Drinking Fountain- CFC's
L1	FS-29	Corridor	3	Compact Fluorescent Lights
L1	FS-29	Corridor	1	Smoke Detector- Possible Radiation
L1	FS-30	Women's Restroom	8	4' Fluorescent bulbs
L1	FS-30	Women's Restroom	6	Ballasts
L1	FS-30	Women's Restroom	4	3' Fluorescent bulbs
L1	FS-30	Women's Restroom	1	32 Ounce Bathroom Cleaner Liquid 30% Full
L1	FS-31	Coats	1	32 Ounce Paint Thinner 20% Full
L1	FS-31	Coats	4	4' Fluorescent bulbs

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-31	Coats	2	Ballasts
L1	FS-31	Coats	1	40 Ounce Weed Killer 10% Full
L1	FS-32	Men's Restroom	8	4' Fluorescent bulbs
L1	FS-32	Men's Restroom	6	Ballasts
L1	FS-32	Men's Restroom	4	3' Fluorescent bulbs
L1	FS-32	Men's Restroom	1	Smoke Detector- Possible Radiation
L1	FS-33	Bar/ Restaurant Entranceway	2	18" Fluorescent bulbs
L1	FS-33	Bar/ Restaurant Entranceway	1	Ballast
L1	FS-33	Bar/ Restaurant Entranceway	8	Compact Fluorescent Lights
L1	FS-33	Bar/ Restaurant Entranceway	1	Smoke Detector- Possible Radiation
L1	FS-33	Bar/ Restaurant Entranceway	1	32 Ounce Glass Cleaner 10% Full
L1	FS-34	Bar Area	2	Televisions- Misc. Electronics
L1	FS-34	Bar Area	2	Assumed Batteries in Security Light (Power was on, these were not opened)
L1	FS-34	Bar Area	1	Mercury Thermostat
L1	FS-34	Bar Area	20	Compact Fluorescent Lights
L1	FS-34	Bar Area	2	Spreaders with Residual Melting Salt
L1	FS-34	Bar Area	8	4' Fluorescent bulbs
L1	FS-34	Bar Area	7	Ballasts
L1	FS-34	Bar Area	1	18" Fluorescent bulb
L1	FS-34	Bar Area	1	Cooler behind Bar- CFC
L1	FS-35	Restaurant Area	1	Ice Maker- CFC
L1	FS-35	Restaurant Area	1	16 Ounce Metal Cleaner, 80% Full
L1	FS-35	Restaurant Area	6	Smoke Detectors- Possible Radiation
L1	FS-35	Restaurant Area	36	Compact Fluorescent Lights
L1	FS-35	Restaurant Area	1	Fire Extinguisher
L1	FS-35	Restaurant Area	1	Mercury Thermostat
L1	FS-36	West Entranceway/ Exit	1	Compact Fluorescent Light
L1	FS-37	Waitress Station	2	Compact Fluorescent Lights
L1	FS-38	Kitchen- Northern Area	36	4' Fluorescent bulbs
L1	FS-38	Kitchen- Northern Area	18	Ballasts
L1	FS-38	Kitchen- Northern Area	1	Halogen Portable Light

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-38	Kitchen- Northern Area	1	5-Gallon Liquid Sanitizer
L1	FS-38	Kitchen- Northern Area	1	5-Gallon Rinse Dry II
L1	FS-38	Kitchen- Northern Area	1	32 Ounce Glass Cleaner 10% Full
L1	FS-38	Kitchen- Northern Area	1	4.1 kg Solid Power Dishwasher Detergent
L1	FS-38	Kitchen- Northern Area	1	Large Carbon Dioxide Cylinder- Full
L1	FS-38	Kitchen- Northern Area	1	Microwave- misc. electronics
L1	FS-39	Kitchen- Southern Area	32	4' Fluorescent bulbs
L1	FS-39	Kitchen- Southern Area	16	Ballasts
L1	FS-39	Kitchen- Southern Area	2	Pro Chem Fire Protection Tanks
L1	FS-40	Janitor's Closet and Chemical Storage	12	2.5 Gallon Containers of Cleaners Various Amounts
L1	FS-40	Janitor's Closet and Chemical Storage	1	48 Ounce Oxy Multi-purpose Cleaner, 40% Full
L1	FS-40	Janitor's Closet and Chemical Storage	1	Aerosol- 11 Ounce Ace Spray Lube
L1	FS-40	Janitor's Closet and Chemical Storage	1	Compact Fluorescent Light
L1	FS-40	Janitor's Closet and Chemical Storage	1	3 Ounce Container of 3 in 1 Oil
L1	FS-40	Janitor's Closet and Chemical Storage	1	4 Pound of Presoak Detergent
L1	FS-40	Janitor's Closet and Chemical Storage	1	Box of Urn and Brewer Cleaner
L1	FS-41	Employee's Restroom	4	4' Fluorescent bulbs
L1	FS-41	Employee's Restroom	2	Ballasts
L1	FS-42	Employee's Lounge	4	4' Fluorescent bulbs
L1	FS-42	Employee's Lounge	2	Ballasts
L1	FS-42	Employee's Lounge	1	Microwave- misc. electronics
L1	FS-42	Employee's Lounge	1	1-Gallon Bleach 40% Full
L1	FS-43	Walk-In Coolers	3	CFC's and Compressors
L1	FS-44	Freezer	1	CFC and Compressor
L1	FS-45	Kitchen Storage	4	4' Fluorescent bulbs
L1	FS-45	Kitchen Storage	2	Ballasts
L1	FS-45	Kitchen Storage	1	Large Cylinder Helium NF2 Green
L1	FS-46	Kitchen Storage 2	4	2' Fluorescent bulbs- U-Shaped

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-46	Kitchen Storage 2	2	Ballasts
L1	FS-47	Kitchen Storage 3	50+	Coffee Pots- Miscellaneous Electronics
L1	FS-47	Kitchen Storage 3	8	4' Fluorescent bulbs
L1	FS-47	Kitchen Storage 3	4	Ballasts
L1	FS-48	South Kitchen Vestibule	4	4' Fluorescent bulbs
L1	FS-48	South Kitchen Vestibule	2	Ballasts
L1	FS-49	Vestibule 1	6	Compact Fluorescent Lights
L1	FS-50	Meeting Room D	8	2' Fluorescent bulbs- U-Shaped
L1	FS-50	Meeting Room D	4	Ballasts
L1	FS-50	Meeting Room D	1	Smoke Detector- Possible Radiation
L1	FS-51	Meeting Room E	12	2' Fluorescent bulbs- U-Shaped
L1	FS-51	Meeting Room E	6	Ballasts
L1	FS-51	Meeting Room E	1	Smoke Detector- Possible Radiation
L1	FS-52	Closet/ Storage Room	4	2' Fluorescent bulbs- U-Shaped
L1	FS-52	Closet/ Storage Room	2	Ballasts
L1	FS-52	Closet/ Storage Room	1	ATM Machine- Miscellaneous Electronics
L1	FS-52	Closet/ Storage Room	2	Video Monitors- Miscellaneous Electronics
L1	FS-53	Meeting Rooms A, B, and C	32	4' Fluorescent bulbs
L1	FS-53	Meeting Rooms A, B, and C	44	Ballast
L1	FS-53	Meeting Rooms A, B, and C	56	2' Fluorescent bulb- U-Shaped
L1	FS-53	Meeting Rooms A, B, and C	1	Mercury Thermostat
L1	FS-53	Meeting Rooms A, B, and C	16	Smoke Detectors- Possible Radiation
L1	FS-54	East Storage Room in Addition	1	Microwave- misc. electronics
L1	FS-54	East Storage Room in Addition	1	Copy Machine- Miscellaneous Electronics
L1	FS-54	East Storage Room in Addition	1	Box of Miscellaneous Computer Equipment
L1	FS-54	East Storage Room in Addition	1	Small Acetylene Cylinder
L1	FS-54	East Storage Room in Addition	1	Compact Fluorescent Light
L1	FS-54	East Storage Room in Addition	1	Smoke Detector- Possible Radiation
L1	FS-54	East Storage Room in Addition	1	1-Gallon Foam Max Corrosive, 50% Full

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

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<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-55	West Storage Room in Addition	1	Compact Fluorescent Light
L1	FS-55	West Storage Room in Addition	1	Smoke Detector- Possible Radiation
L1	FS-55	West Storage Room in Addition	1	Large Cylinder Helium NF2 Green-Full
L1	FS-55	West Storage Room in Addition	1	Over Head Projector- Miscellaneous Electronics
L1	FS-55	West Storage Room in Addition	1	3' Fluorescent bulb- Loose
L1-L8	FS-56	West Stairway	20	Compact Fluorescent Lights
L1-L8	FS-56	West Stairway	2	Smoke Detectors- Possible Radiation
L1-L8	FS-57	East Stairway	18	Compact Fluorescent Lights
L1-L8	FS-57	East Stairway	2	Smoke Detectors- Possible Radiation
L1	FS-58	Utility Room	2	One pint and one quart size compressor oil. Pint is 50% Full, Quart is 75% Full
L1	FS-58	Utility Room	1	Small Cylinder Propane 50% Full
L1	FS-58	Utility Room	1	Commercial Cooking Oven
L1	FS-58	Utility Room	1	Fire Extinguisher
L1	FS-58	Utility Room	10	4' Fluorescent bulbs
L1	FS-58	Utility Room	5	Ballasts
L1	FS-58	Utility Room	4	Air Conditioner Units
L1	FS-58	Utility Room	2	Motors on Machinery (Possibly Oil-Filled)
L1	FS-58	Utility Room	1	Ajax Boiler WGB 2250D
L1	FS-59	Emergency Generator	1	Consumers Energy Transformer (Will be Removed by Consumers Energy)
L1	FS-59	Emergency Generator	1	Emergency Generator- Possible Oil Filled Equipment
L1	FS-60	Elevators	6	4' Fluorescent bulbs
L1	FS-60	Elevators	3	Emergency Lights with Batteries
L1	FS-60	Elevators	6	Ballasts
L1	FS-61	Vestibule 2	4	4' Fluorescent bulbs
L1	FS-61	Vestibule 2	6	Compact Fluorescent Lights
L1	FS-61	Vestibule 2	2	Ballasts
L1	FS-62	Front Canopy	9	Mercury Vapor/ High Pressure Lamps

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
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<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-64	Corridor	10	4' Fluorescent bulbs
L1	FS-64	Corridor	5	Ballasts
L1	FS-64	Corridor	2	Smoke Detectors- Possible Radiation
L1	FS-64	Corridor	2	Assumed Batteries in Security Light (Power was on, these were not opened)
L1	FS-65	Hallway	9	Compact Fluorescent Lights
L1	FS-65	Hallway	1	Smoke Detector- Possible Radiation
L1	FS-66	1st Floor Roof	4	Mercury Vapor/ High Pressure Lamps
L1	FS-66	1st Floor Roof	6	Roof HVAC/ Cooling Units
L1	FS-67	8th Floor Roof	1	Cell Tower and Associated Equipment (Should be Removed by Sprint)
L1	FS-67	8th Floor Roof	2	Large Compact CFL Floodlights
L1	FS-67	8th Floor Roof	2	Ballasts
L1	FS-68	Penthouse	1	Aerosol- 20 Ounce Premium Enamel
L1	FS-68	Penthouse	2	1-Gallon Elevator Lubricants 25% Full
L1	FS-68	Penthouse	1	1 Quart Chain Oil
L1	FS-68	Penthouse	1	1 Gallon Can Oil Based Paint- 100% Full
L1	FS-68	Penthouse	1	Fire Extinguisher
L1	FS-68	Penthouse	1	1 Gallon Residual Oil
L1	FS-68	Penthouse	12	4' Fluorescent bulbs
L1	FS-68	Penthouse	6	Ballasts
L1	FS-68	Penthouse	1	1 Quart Oil in Paint Thinner Can
L1	FS-68	Penthouse	1	5-Gallon Container Hydraulic Oil- 25% Full
L1	FS-68	Penthouse	1	1-Gallon Elevator Oil 20% Full
L1	FS-68	Penthouse	3	Electric Motors with Oil Gear Box
L1	FS-68	Penthouse	1	1-Gallon Flat Oil-based Paint
L1	FS-68	Penthouse	1	Roof Tar 5 Gallon Container 10% Full
L1	FS-68	Penthouse	1	Mercury Vapor/ High Pressure Lamp

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
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<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-68	Penthouse	2	1 Quart Oil in Catch Pans from Electric Motors
L1	FS-69	2nd Floor North-South Hallway	2	Compact Fluorescent Lights
L1	FS-69	2nd Floor North-South Hallway	1	Smoke Detector- Possible Radiation
L1	FS-70	2nd Floor East-West Hallway	14	Compact Fluorescent Lights
L1	FS-70	2nd Floor East-West Hallway	1	Large Cylinder Carbon Dioxide NF2 Gas
L1	FS-70	2nd Floor East-West Hallway	6	Smoke Detectors- Possible Radiation
L1	FS-71	3rd Floor North-South Hallway	2	Compact Fluorescent Lights
L1	FS-71	3rd Floor North-South Hallway	1	Smoke Detector- Possible Radiation
L1	FS-72	3rd Floor East-West Hallway	14	Compact Fluorescent Lights
L1	FS-72	3rd Floor East-West Hallway	6	Smoke Detectors- Possible Radiation
L1	FS-73	4th Floor North-South Hallway	2	Compact Fluorescent Lights
L1	FS-73	4th Floor North-South Hallway	1	Smoke Detector- Possible Radiation
L1	FS-74	4th Floor East-West Hallway	14	Compact Fluorescent Lights
L1	FS-74	4th Floor East-West Hallway	6	Smoke Detectors- Possible Radiation
L1	FS-75	5th Floor North-South Hallway	2	Compact Fluorescent Lights
L1	FS-75	5th Floor North-South Hallway	1	Smoke Detector- Possible Radiation
L1	FS-76	5th Floor East-West Hallway	14	Compact Fluorescent Lights
L1	FS-76	5th Floor East-West Hallway	6	Smoke Detectors- Possible Radiation
L1	FS-77	6th Floor North-South Hallway	2	Compact Fluorescent Lights
L1	FS-77	6th Floor North-South Hallway	1	Smoke Detector- Possible Radiation
L1	FS-78	6th Floor East-West Hallway	14	Compact Fluorescent Lights
L1	FS-78	6th Floor East-West Hallway	6	Smoke Detectors- Possible Radiation
L1	FS-79	7th Floor North-South Hallway	2	Compact Fluorescent Lights
L1	FS-79	7th Floor North-South Hallway	1	Smoke Detector- Possible Radiation
L1	FS-80	7th Floor East-West Hallway	14	Compact Fluorescent Lights
L1	FS-80	7th Floor East-West Hallway	6	Smoke Detectors- Possible Radiation
L1	FS-81	8th Floor North-South Hallway	2	Compact Fluorescent Lights
L1	FS-81	8th Floor North-South Hallway	1	Smoke Detector- Possible Radiation

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

<b>Client:</b>	Saginaw County Brownfield Redevelopment Authority
<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L1	FS-82	8th Floor East-West Hallway	15	Compact Fluorescent Lights
L1	FS-82	8th Floor East-West Hallway	6	Smoke Detectors- Possible Radiation
L2	FS-83	2nd Floor Vending Area	4	4' Fluorescent bulbs
L2	FS-83	2nd Floor Vending Area	2	Ballasts
L2	FS-83	2nd Floor Vending Area	1	Smoke Detector- Possible Radiation
L2	FS-84	2nd Floor Saginaw Room	5	Ballasts
L2	FS-84	2nd Floor Saginaw Room	1	Compact Fluorescent Light
L2	FS-84	2nd Floor Saginaw Room	8	4' Fluorescent bulbs
L2	FS-84	2nd Floor Saginaw Room	2	3' Fluorescent bulbs
L2	FS-85	Room 202	3	Air Conditioners
L2	FS-86	2nd Floor Rooms	56	3' Fluorescent bulbs
L2	FS-86	2nd Floor Rooms	28	Ballasts
L2	FS-86	2nd Floor Rooms	28	Smoke Detectors- Possible Radiation
L2	FS-86	2nd Floor Rooms	28	A/C Heating Cooling Units
L2	FS-86	2nd Floor Rooms	28	Televisions- Misc. Electronics
L2	FS-86	2nd Floor Rooms	14	Compact Fluorescent Lights
L3	FS-87	3rd Floor Vending Area	4	4' Fluorescent bulbs
L3	FS-87	3rd Floor Vending Area	2	Ballasts
L3	FS-87	3rd Floor Vending Area	1	Smoke Detector- Possible Radiation
L3	FS-87	3rd Floor Vending Area	1	Pop Machine- CFC's and Possible Bulbs and Ballasts
L3	FS-87	3rd Floor Vending Area	1	Ice Maker- CFC's
L3	FS-88	3rd Floor Rooms	56	3' Fluorescent bulbs
L3	FS-88	3rd Floor Rooms	28	Ballasts
L3	FS-88	3rd Floor Rooms	28	Smoke Detectors- Possible Radiation
L3	FS-88	3rd Floor Rooms	28	A/C Heating Cooling Units
L3	FS-88	3rd Floor Rooms	12	Televisions- Misc. Electronics
L3	FS-88	3rd Floor Rooms	14	Compact Fluorescent Lights
L4	FS-89	4th Floor Vending Area	4	4' Fluorescent bulbs
L4	FS-89	4th Floor Vending Area	2	Ballasts
L4	FS-89	4th Floor Vending Area	1	Smoke Detector- Possible Radiation
L4	FS-90	4th Floor Rooms	56	3' Fluorescent bulbs
L4	FS-90	4th Floor Rooms	28	Ballasts

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

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<b>Site Name:</b>	Former Plaza Hotel
<b>Site Address:</b>	400 Johnson Street, Saginaw, MI
<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L4	FS-90	4th Floor Rooms	28	Smoke Detectors- Possible Radiation
L4	FS-90	4th Floor Rooms	28	A/C Heating Cooling Units
L4	FS-90	4th Floor Rooms	28	Televisions- Misc. Electronics
L4	FS-90	4th Floor Rooms	14	Compact Fluorescent Lights
L5	FS-91	5th Floor Vending Area	4	4' Fluorescent bulbs
L5	FS-91	5th Floor Vending Area	2	Ballasts
L5	FS-91	5th Floor Vending Area	1	Smoke Detector- Possible Radiation
L5	FS-91	5th Floor Vending Area	1	Pop Machine- CFC's and Possible Bulbs and Ballasts
L5	FS-91	5th Floor Vending Area	1	Ice Maker- CFC's
L5	FS-92	5th Floor Rooms	56	3' Fluorescent bulbs
L5	FS-92	5th Floor Rooms	28	Ballasts
L5	FS-92	5th Floor Rooms	28	Smoke Detectors- Possible Radiation
L5	FS-92	5th Floor Rooms	28	A/C Heating Cooling Units
L5	FS-92	5th Floor Rooms	20	Televisions- Misc. Electronics
L5	FS-92	5th Floor Rooms	14	Compact Fluorescent Lights
L6	FS-93	6th Floor Vending Area	4	4' Fluorescent bulbs
L6	FS-93	6th Floor Vending Area	2	Ballasts
L6	FS-93	6th Floor Vending Area	1	Smoke Detector- Possible Radiation
L6	FS-94	6th Floor Rooms	56	3' Fluorescent bulbs
L6	FS-94	6th Floor Rooms	28	Ballasts
L6	FS-94	6th Floor Rooms	28	Smoke Detectors- Possible Radiation
L6	FS-94	6th Floor Rooms	28	A/C Heating Cooling Units
L6	FS-94	6th Floor Rooms	28	Televisions- Misc. Electronics
L6	FS-94	6th Floor Rooms	14	Compact Fluorescent Lights
L7	FS-95	7th Floor Vending Area	4	4' Fluorescent bulbs
L7	FS-95	7th Floor Vending Area	2	Ballasts
L7	FS-95	7th Floor Vending Area	1	Smoke Detector- Possible Radiation
L7	FS-95	7th Floor Vending Area	1	Pop Machine- CFC's and Possible Bulbs and Ballasts
L7	FS-95	7th Floor Vending Area	1	Ice Maker- CFC's
L7	FS-96	7th Floor Rooms	56	3' Fluorescent bulbs
L7	FS-96	7th Floor Rooms	28	Ballasts

**PRE-DEMOLITION HAZARDOUS MATERIAL/ SPECIAL WASTE SURVEY**

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<b>AKT Project No.:</b>	7444s-3-18
<b>Survey Date:</b>	May-June 2012

Bldg. Level	Func. Space No.	Func. Space Name	Approximate Number	Description/ Comments
L7	FS-96	7th Floor Rooms	28	Smoke Detectors- Possible Radiation
L7	FS-96	7th Floor Rooms	28	A/C Heating Cooling Units
L7	FS-96	7th Floor Rooms	28	Televisions- Misc. Electronics
L7	FS-96	7th Floor Rooms	14	Compact Fluorescent Lights
L8	FS-97	8th Floor Vending Area	4	4' Fluorescent bulbs
L8	FS-97	8th Floor Vending Area	2	Ballasts
L8	FS-97	8th Floor Vending Area	1	Smoke Detector- Possible Radiation
L8	FS-98	8th Floor Rooms	48	3' Fluorescent bulbs
L8	FS-98	8th Floor Rooms	24	Ballasts
L8	FS-98	8th Floor Rooms	24	Smoke Detectors- Possible Radiation
L8	FS-98	8th Floor Rooms	24	A/C Heating Cooling Units
L8	FS-98	8th Floor Rooms	23	Televisions- Misc. Electronics
L8	FS-98	8th Floor Rooms	12	Compact Fluorescent Lights

Notes:

1. AST=aboveground tank, BATT=battery (vehicle size), CFC=chlorofluorocarbon containing equipment, CFL= Compact Fluorescent Lights, ELEC=electronics, LMP=mercury lamp, MMT=misc. liquid waste material, OFM=oil-filled machinery, POZ=poison (pesticide), RAD=radioactive device.

**APPENDIX D**

**LABORATORY ANALYTICAL RESULTS FOR LEAD SAMPLES**



# Certificate of Laboratory Analysis

## Test Method, Metals Analysis

Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

**Report to:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Ave.  
Saginaw, MI 48607

ARL Report # 12-L10515  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Method/MDL	Metal Type/Percent	Date/Analyst
Lab ID # L10515-01 Client #: LBP-1 Material: White Ceiling Paint, 8th Floor	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-02 Client #: LBP-2 Material: White Wall Paint, 8th Floor Stairway	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-03 Client #: QC-1 Material: White Paint	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-04 Client #: LBP-3 Material: Pink/White Column Paint, 1st Floor	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-05 Client #: LBP-4 Material: Beige Paint, 1st Floor Laundry N. Wall	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-06 Client #: QC-2 Material: Off-White Paint	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB

For Layer samples, each component will be analyzed and reported separately. MDL = Minimum Detection Limit. Apex Research, Inc. participates in the AIHA ELPAT program.

Robert T. Letarte Jr., Laboratory Director



# Certificate of Laboratory Analysis

## Test Method, Metals Analysis

Project: 400 Johnson, Saginaw, MI  
Project # 7444s-3-18

**Report to:**

Mr. Don Malusi  
AKT Peerless  
214 Janes Ave.  
Saginaw, MI 48607

ARL Report # 12-L10515  
Date Collected: 05/29/12  
Date Received: 05/30/12  
Date Analyzed: 05/31/12  
Date Reported: 05/31/12

Sample Information	Method/MDL	Metal Type/Percent	Date/Analyst
Lab ID # L10515-07 Client #: LBP-5 Material: Gray Floor Paint, Laundry Room	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-08 Client #: LBP-6 Material: Beige Paint, N. Wall Exterior	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-09 Client #: LBP-7 Material: Green Paint, Lamp Post NW Side	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB
Lab ID # L10515-10 Client #: LBP-8 Material: White Ext.Paint, On Columns S. Side Near Vestibule 3	SW846 - 7420 MDL - 0.01%	Pb - < 0.01%	05/31/12 RBB

For Layer samples, each component will be analyzed and reported separately. MDL = Minimum Detection Limit. Apex Research, Inc. participates in the AIHA ELPAT program.

Robert T. Letarte Jr., Laboratory Director

# L 10515

## APEX Research, Inc.

1054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990. Fax (734) 449 - 9991.  
Web Site: <http://apexresearch-inc.com>. Email: [Bob.Letarte@apexresearchlab.com](mailto:Bob.Letarte@apexresearchlab.com)



Customer Name: AKT Peerless  
Address: 214 Jones Avenue  
City, St., Zip: Saginaw, MI 48607  
Phone: 989 754-9896 Fax: 989 754-3804

Date of Survey: 5-29-12  
Project: 400 Johnson Saginaw, MI  
Project #: 74445-3-18  
Contact Person: Don Malys  
Email: malysid@aktpeerless.com

### Turn Around Times: (Circle One)

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

Rush	<input checked="" type="radio"/> 24 hour	Asbestos:	Bulk	Wipe	Point Count	PCM	Soil
48 hour	<input type="radio"/> 72 hour	Lead:	Bulk	Wipe	Air	Paint	<input checked="" type="checkbox"/>
Other:	TTP yes / no	Mold:	Bulk	Tape	Biosis	Other	Viabile
	(Test Till Positive)	TEM:	Bulk/NOP	AHERA	EPA Level II	Other	

Lab ID	Customer ID #	Material/Location	Volume	Area	Results
1	LBP-1	White Ceiling 8th Floor			
2	LBP-2	White Paint Wall 8th Floor stairway			
3	QC-1	QC White Paint			
4	LBP-3	1st Floor Pink/White Paint on columns			
5	LBP-4	Beize Paint 1st Floor laundry wall			
6	QC-2	Off-White Paint			
7	LBP-5	Gray Floor Paint Laundry			
8	LBP-6	Beize Paint west wall			
9	LBP-7	Green Paint on LBP-1 wall side			
10	LBP-8	White exterior Paint on side wall	5 Slats	1/2 wall	3

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

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

Relinquished By: \_\_\_\_\_  
 Date: May 30 2012  
 Revision Date: June/2011

**APEX RESEARCH**

## **Attachment 5**

### Soil Waste Characterization Laboratory Analytical Results



# Analytical Laboratory Report

Report ID: S52690.01(01)  
Generated on 06/07/2012

Report to

Attention: Adam Shaffer  
AKT Peerless Environmental  
214 Janes  
Saginaw, MI 48604

Phone: 989-754-9896 FAX: 989-754-3804  
Email: shaffera@aktpeerless.com

Report produced by

Merit Laboratories  
2680 East Lansing Drive  
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S52690.01  
Project: 7444S/Plaza  
Collected Date: 05/30/2012  
Submitted Date/Time: 05/31/2012 16:30  
Sampled by: Unknown  
P.O. #: 7444S-3-194

Report Notes

Results relate only to items tested as received by the laboratory.  
Methods may be modified for improved performance.  
Results reported on a dry weight basis where applicable.  
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.  
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.  
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)  
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)  
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak  
Laboratory Director



# Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S52690.01	WC-1	Soil	05/30/2012 00:01



# Analytical Laboratory Report

Lab Sample ID: S52690.01  
 Sample Tag: WC-1  
 Collected Date/Time: 05/30/2012 00:01  
 Matrix: Soil  
 COC Reference: 040113

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.3	IR
2	4oz Glass	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	Limits	Flags
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### Extraction / Prep.

Mercury Digestion	Completed			7471A	06/06/12 08:00	JRH		
Metal Digestion	Completed			3015A	06/07/12 01:00	SLR		
TCLP Zero Headspace Ext.	Completed			1311	06/05/12 14:00	WAR		

### TCLP Extraction

Initial Sample pH	8.92			1311	06/05/12 14:00	WAR		
pH after 3.5 ml HCl	2.30			1311	06/05/12 14:00	WAR		
% Solids	40			1311	06/05/12 14:00	WAR		
Sample Used g	800			1311	06/05/12 14:00	WAR		
Final Volume mL	1			1311	06/05/12 14:00	WAR		
TCLP Extraction Fluid	1			1311	06/05/12 14:00	WAR		
Final Extract pH	4.86			1311	06/05/12 14:00	WAR		

### Metals

Arsenic, TCLP	Not detected	mg/L	0.02	6020	06/07/12 17:01	SLS	5.0	
Barium, TCLP	0.54	mg/L	0.05	6020	06/07/12 17:01	SLS	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	6020	06/07/12 17:01	SLS	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	6020	06/07/12 17:01	SLS	5.0	
Lead, TCLP	0.03	mg/L	0.03	6020	06/07/12 17:01	SLS	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	7471A	06/06/12 14:08	JRT	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	6020	06/07/12 17:01	SLS	1.0	
Silver, TCLP	Not detected	mg/L	0.005	6020	06/07/12 17:01	SLS	5.0	

### Organics - Volatiles

#### TCLP Volatiles

Benzene	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	500	
Carbon tetrachloride	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	500	
Chlorobenzene	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	100,000	
Chloroform	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	6,000	
1,4-Dichlorobenzene	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	7,500	
1,2-Dichloroethane	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	500	
1,1-Dichloroethene	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	700	
2-Butanone (MEK)	Not detected	ug/L	1,000	8260B	06/07/12 15:10	WAT	200,000	
Tetrachloroethene	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	700	
Trichloroethene	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	500	
Vinyl chloride	Not detected	ug/L	100	8260B	06/07/12 15:10	WAT	200	

