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May 8, 2017

MEMORANDUM

TO WHOM IT MAY CONCERN:

FROM: Dean H. Seki, Financial Services Director /s/ Suzanne Efhan for Dean H. Seki

SUBJECT: ADDENDUM NO. 2
JUDICIARY PROJECT NO. J17180
ALI'IOLANI RELOCATION, RECARPET AND REPAINT SUITE 103
PROJECT IDENTIFIER: JUD-SC-ALIIHALE-103CPTPT-1617
THE JUDICARY, STATE OF HAWAII, TAX MAP KEY: 2-1-025: 003

Transmitted herewith is a copy of Addendum No. 2 providing the Asbestos, Lead Paint, PCB Ballast and Mercury Lamp Survey Report for the above project.

Should you have any technical questions regarding this Addendum, please call the Officer-In-Charge for this project Curt Shibata, Ph. (808) 539-4730 or curt.m.shibata@courts.hawaii.gov. Other questions may be directed to Kelly Kimura of the Judiciary Contracts & Purchasing Office at (808) 538-5805, or kelly.y.kimura@courts.hawaii.gov.

EnvironMETeo Services, Inc.

Environmental / Industrial Health & Safety

Asbestos, Lead Paint, PCB Ballast and Mercury Lamp Survey Report

For:

RMA Architects, Inc.

1150 South King Street, 8th Floor

Honolulu, Hawaii 96814

Facility Surveyed:

Ali'iolani Hale

417 South King Street

Honolulu, Hawaii 96813

Project:

Judiciary Condition Assessment

Ali'iolani Hale

Conducted by:

EnvironMETeo Services, Inc. (EMET)

94-520 Uke'e Street, Suite A

Waipahu, Hawaii 96797

Date of Report: February 6, 2017

EMET ID: 1511498

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Certification of Report

We certify that this report is based on a limited physical survey of EMET scope of work areas, as impacted by this project, at Ali'iolani Hale, located at 417 South King Street, Honolulu, Hawaii. The survey included an inspection for asbestos-containing materials (ACM), lead paint on surfaces/building components, PCB-containing fluorescent light ballasts and mercury-containing fluorescent light lamps.

The survey was conducted by EnvironMETeo Services, Inc. (EMET) on December 5, 6, 8, and 9, 2016 and was limited to the following scope of work:

Asbestos/Lead Paint/PCB Ballast/Mercury Lamp Investigation

1. Inspection, evaluation and sample collection of suspect asbestos-containing materials by EPA-accredited inspectors in accordance with H.A.R. 11-501 from the following:
   Ali'iolani Hale
   - Interior and exterior including roof

2. Lead paint inspection by EPA-accredited inspectors from the areas indicated in item 1.

3. Visual inspection of approximately ten percent (10%) of each type of typical fluorescent light fixtures for PCB-containing ballasts and mercury-containing lamps from the areas indicated in item 1.

The survey results are based on analyses of samples of suspect materials collected from visually and physically accessible areas/materials.

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Bulk samples of suspect asbestos-containing materials taken during the survey were analyzed for asbestos content by a National Institute of Standards and Technology (NIST)-accredited laboratory under the National Voluntary Laboratory Accreditation Program (NVLAP) for asbestos fiber analysis. Laboratory analyses performed by Polarized Light Microscopy (PLM) for asbestos identification are in accordance with U.S. Environmental Protection Agency (EPA) Test Method 600/R-93/116.

Painted surfaces were tested for lead concentrations using an X-Ray Fluorescence (XRF) spectrum analyzer, a testing methodology approved by the EPA and the U.S. Department of Housing and Urban Development (HUD).

Approximately ten percent (10%) of each type of typical light fixtures was visually inspected on site by an inspector to determine if the ballasts contained PCBs and if the lamps contain Mercury.

EMET makes no warranty and assumes no liability for the inappropriate use or misuse of this document.

Stephen Kaneshiro
Asbestos Building Inspector
Hawaii State Certification # HIASB-2307
Lead Based Paint Risk Assessor
Hawaii Lead Certificate # PB-0676

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Summary

EnvironMETeo Services, Inc. (EMET) conducted a survey for asbestos-containing materials (ACM), lead paint on surfaces/building components, PCB-containing fluorescent light ballasts and mercury-containing fluorescent light lamps at Ali'iolani Hale, located at 417 South King Street, Honolulu, Hawaii, on December 5, 6, 8, and 9, 2016. The survey was conducted by Julius Arellano, Stephen Kaneshiro, Andrew Uyeda, and Jayson Wu of EMET in accordance with Hawaii Administrative Rules (H.A.R) 11-501 as well as EMET's scope of work.

The survey was requested and authorized by Herb Leong of RMA Architects, Inc. and performed in preparation for planned renovations.

This report is for informational purposes only and should only be used as such. This report is not a specification and should not be solely relied upon when included as part of contract/bid documents.

Based on the visual inspection and laboratory results of the samples collected, the following materials were identified as ACM or are assumed to be ACM:

1st Floor ACM

white vibration cloth	waterproofing membrane

2nd Floor ACM

9" x 9" green VFT	black mastic beneath 9" x 9" green VFT
8" O. D. white wrap TSI	waterproofing membrane
9" x 9" dark green VFT	black mastic beneath 9" x 9" dark green VFT

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Lead-based paint was found on the following surfaces:

- 1st Fl., 1913 Courtroom plaster column
- 1st Fl., 1913 Courtroom plaster crown molding
- 1st Fl., 1913 Courtroom plaster wall
- 1st Fl., Mauka Rotunda concrete column
- 1st Fl., Mauka Rotunda plaster crown molding
- 1st Fl., Mauka Rotunda plaster round column
- 1st Fl., Men's RR plaster underside of stairs
- 1st Fl., Monarchy Court Gallery plaster column
- 1st Fl., Monarchy Court Gallery plaster crown molding
- 1st Fl., Monarchy Court Gallery plaster soffit
- 1st Fl., Room 110 concrete wall
- 1st Fl., Room 110 plaster column
- 1st Fl., Room 111 plaster wall
- 1st Fl., Room 112 plaster column
- 1st Fl., Room 112 plaster wall
- 1st Fl., Room 114 plaster wall
- 1st Fl., Room 119 concrete wall
- 1st Fl., Room 119 plaster column
- 1st Fl., Room 119 plaster crown molding
- 1st Fl., Room 119 plaster round column
- 1st Fl., Room 119 plaster wall
- 1st Fl., Room 120 plaster column
- 1st Fl., Room 120 plaster wall
- 1st Fl., Room 126 plaster crown molding
- 1st Fl., Room 212 corridor wood door
- 1st Fl., Room 212A Janitor Closet plaster wall
- 1st Fl., Room 212A Janitor Closet wood door

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- 1st Fl., Room 212A Janitor Closet wood door frame
- 1st Fl., Room 225 concrete wall
- 1st Fl., Room 225 plaster column
- 1st Fl., Room 227 concrete wall
- 1st Fl., Room 228 plaster column
- 1st Fl., Women's Restroom plaster stairs
- 2nd Fl., Room 231 plaster wall
- 2nd Fl., Mauka Rotunda plaster column
- 2nd Fl., Mauka Rotunda plaster wall
- 2nd Fl., Mauka Rotunda wood wall
- 2nd Fl., Mauka Rotunda wood wall trim
- 2nd Fl., Room 201A Public Lobby plaster wall
- 2nd Fl., Room 201B plaster wall
- 2nd Fl., Room 202 concrete wall
- 2nd Fl., Room 208 Supreme Court plaster wall
- 2nd Fl., Room 208A concrete wall
- 2nd Fl., Room 208A plaster wall
- 2nd Fl., Room 235 concrete wall
- 2nd Fl., Room 238 plaster wall
- 2nd Fl., Room 239 concrete wall

Some painted surfaces/building components tested have been confirmed to contain lead in concentrations of less than 1.0 mg/cm^2 – the paint on these surfaces is lead-containing paint (LCP).

Some painted surfaces tested may have paint with lead at concentrations below the instrument level of detection (0.01 mg/cm^2).

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Approximately 10% of each type of typical light fixture was inspected for the presence of PCB-containing ballasts and mercury-containing lamps. The visually inspected fluorescent light ballasts were observed to have "No PCB" labeling. Mercury containing lamps were only found in the attic.

Asbestos-Containing Material

The State of Hawaii, OSHA and EPA define ACM as any material containing more than one percent (>1%) asbestos by area. This definition can be found in the following regulations:

- HAR, Title 11, Department of Health, Chapter 501 (11-501), Asbestos Requirements
- 29 CFR 1926.1101 Occupational Safety and Health Administration (OSHA), Construction Industry Asbestos Standard
- EPA 40 CFR Part 61, Subpart M - National Emission Standards for Hazardous Air Pollutants (NESHAP), revised July 1, 1990, Asbestos NESHAP Revision Final Rule.

Asbestos Bulk Sampling

A total of 273 samples of suspect ACM were collected and analyzed. The samples were placed in plastic containers with a unique identification number assigned to each sample and entered on a field data sheet. The sample locations were indicated on the field drawings shown in Appendix B.

Samples were collected of the following observed suspect asbestos-containing material:

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Basement Level Suspect Asbestos-containing Materials Visually Observed

3" O. D. white wrap/yellow insulation TSI	black vibration cloth
beige duct mastic	black foam rubber insulation*
white caulking at window frame	

1st Floor Suspect Asbestos-containing Materials Visually Observed

plaster wall and ceiling (older)	white caulking at window frame
gray sheet vinyl flooring	yellow adhesive under gray sheet vinyl flooring
white caulking at door frame	4" O. D. white wrap w/yellow insulation TSI
beige duct mastic	gray flex duct*
2' x 4' white fissured pinhole acoustical ceiling tile	4" light brown covebase
beige adhesive under 4" light brown covebase	12" x 12" off-white w/gray streaks VFT
beige adhesive under 12" x 12" off-white w/gray streaks VFT	white vibration cloth†
black foam rubber insulation*	white sink insulation
yellow fiberglass insulation*	black/yellow residual mastic on floor
gypsum wallboard/mudjoint wall and ceiling system	gray grout
white caulking at plumbing fixture	waterproofing membrane†
pink vibration cloth	red cementitious flooring
4" gray covebase	beige adhesive under 4" gray covebase
gray sink insulation	yellow carpet adhesive
residual black adhesive under carpet	plaster wall and ceiling (newer)
gray textured flooring on steps	gray expansion joint
beige caulking at door frame	black caulking at downspout

2nd Floor Suspect Asbestos-containing Materials Visually Observed

12" x 12" beige w/brown streaks VFT	yellow adhesive under 12" x 12" beige w/brown streaks VFT

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9" x 9" green VFT	black mastic under 9" x 9" green VFT
1" black carpet edge (rubber/no adhesive)*	brown adhesive under 4" brown covebase
plaster wall and ceiling (older)	white caulking at door frame
white caulking at window frame	gray sink insulation
silver foil wrap w/yellow fiberglass duct insulation*	8" O. D. white wrap TSI†
waterproofing membrane†	beige duct mastic
pink fiberglass ceiling batting*	gray flex duct*
black paper at ceiling deck	4" tan covebase
brown adhesive under 4" tan covebase	gray grout
white caulking at plumbing fixture	2' x 4' white fissured pinhole acoustical ceiling tile
12" x 12" beige w/gray streaks VFT	beige adhesive under 12" x 12" beige w/gray streaks VFT
9" x 9" brown VFT	yellow adhesive under 9" x 9" brown VFT
9" x 9" dark green VFT	black mastic under 9" x 9" dark green VFT
yellow carpet adhesive	4" O. D. white wrap w/yellow insulation TSI
4" brown covebase	brown carpet adhesive
plaster wall system (newer)	gypsum wallboard/mudjoint wall and ceiling system
4" gray covebase	beige adhesive under 4" gray covebase
black residual mastic on floor	black vibration cloth
brown fiberglass wall insulation*	white leveling compound
black adhesive under white leveling compound	12" x 12" gray vft
yellow adhesive under 12" x 12" gray vft	4" dark gray covebase
beige adhesive under 4" dark gray covebase	beige caulking at ceiling penetration

Roof Suspect Asbestos-containing Materials Visually Observed

plaster wall	gypsum wallboard/mudjoint wall

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	system
black felt paper	black mastic on wall
beige mastic on wall	black floor coating
beige patch/sealant	gray caulking at duct seams
4" O. D. white wrap w/yellow insulation TSI	beige vibration cloth
6" O. D. white wrap w/ black insulation TSI	white caulking at duct seams
6" O. D. white wrap w/yellow insulation TSI	black foam rubber insulation*

* These materials were observed but are not considered suspect for ACM:

- gray flex duct
- black foam rubber insulation
- yellow fiberglass insulation
- 1" black carpet edge (rubber without adhesive)
- silver foil wrap w/yellow fiberglass duct insulation
- pink fiberglass ceiling batting
- brown fiberglass wall insulation

† These materials were inaccessible and are assumed to be ACM:

- 1st floor, white vibration cloth could not be reached due to the height of the material and obstructing building components and mechanical equipment.
- 1st floor, waterproofing membrane beneath ceramic floor tiles in the bathrooms could not be accessed without causing significant damage to the ceramic tiles (bathrooms still in use).
- 2nd floor, 8" O. D. white wrap TSI could not be reached due to the height of the material and obstructing building components and mechanical equipment.
- 2nd floor, waterproofing membrane beneath ceramic floor tiles in the bathrooms could not be accessed without causing significant damage to the ceramic tiles (bathrooms still in use).

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Asbestos Analyses

Bulk samples were analyzed for asbestos using Polarized Light Microscopy (PLM) for the identification of asbestos, in accordance with EPA Test Method 600/R-93/116. Laboratory analytical data sheets are provided in Appendix A.

Based on the visual inspection and laboratory results of the samples collected, the following were identified as ACM or assumed to be ACM.

1st Floor Asbestos-containing Materials

Material Description	Observable Quantity at Time of Inspection	Material Location	Condition; Friable/Non-Friable
white vibration cloth	± 1 sf estimated quantity	mechanical duct joints above the suspended ceiling; inaccessible due to height and obstruction--ASSUMED ACM	not friable; not damaged
waterproofing material	± 700 sf	beneath ceramic floor tiles throughout bathrooms; inaccessible w/o causing significant damage--ASSUMED ACM	unknown

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2nd Floor Asbestos-containing Materials

Material Description	Observable Quantity at Time of Inspection	Material Location	Condition; Friable/Non-Friable
8" O. D. white wrap TSI	± 50 lf estimated quantity	above the suspended ceiling; inaccessible due to height and obstruction--ASSUMED ACM	friable; not damaged
waterproofing material	± 600 sf	beneath ceramic floor tiles throughout bathrooms; inaccessible w/o causing significant damage--ASSUMED ACM	unknown
9" x 9" green VFT with black mastic	± 1200 sf	beneath carpet in Rooms 217, 218 (adjacent to 217), 218 (adjacent to 224), 220, 221, 223, 224, 225, 226, 238, 239 and 242, forms checkerboard pattern with 9" x 9" dark green VFT	both not friable; both not damaged
9" x 9" dark green VFT with black mastic	± 1200 sf	beneath carpet in Rooms 217, 218 (adjacent to 217), 218 (adjacent to 224), 220, 221, 223, 224, 225, 226, 238, 239 and 242, forms checkerboard pattern with 9" x 9" green VFT	both not friable; both not damaged

The assumed ACM materials must be treated as ACM until properly tested and proven otherwise.

Lead Paint

HUD regulations, 24 CRF Parts 35, 200, 881, and 886 guidelines for the evaluation and control of lead-based paint (LBP) hazards in housing, revised April 1, 1999, define LBP as paint with a lead content of 1.0 mg/cm^2 or greater by XRF analyzer, or 0.5% wt. or 5000 ppm by Atomic Absorption (AA) analysis. The EPA regulations

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40 CFR Part 745, revised July 1, 1999, similarly defined LBP as stated in HUD regulations.

However, the Occupational Safety and Health Administration (OSHA) and HIOSH regulate any activity disturbing paint that contains lead (referred to as lead-containing paint or LCP), even if the lead content is below the EPA/HUD standard for lead-based paint.

XRF test results of painted surfaces equal to or greater than 1.0 mg/cm^2 are defined as LBP in accordance with EPA and HUD regulations.

Lead Paint Sampling and Analyses

Painted surfaces were analyzed for lead using an XRF analyzer. A total of 532 analyses of painted surfaces/building components and calibrations were performed. A unique identification number was assigned to each test location and entered on a field data sheet. The ID number, location, description, and lead concentration of each sample is indicated in the XRF analyzer test results, which are provided in Appendix C.

The test results indicate that a lead content equal to or greater than 1.0 mg/cm^2 was detected in the following:

Lead-Based Paint

XRF No. and Location	Testing Combination Component/Substrate	Condition	Color
312, 1st Fl. 1913 Courtroom, West side	crown molding / plaster	intact	off white
316, 1st Fl. 1913 Courtroom, East side	wall / plaster	intact	pale green
317, 1st Fl. 1913 Courtroom, South side	column / plaster	intact	green

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XRF No. and Location	Testing Combination Component/Substrate	Condition	Color
327, 1st Fl. Monarchy Court Gallery, North side	crown molding / plaster	intact	gray
328, 1st Fl. Monarchy Court Gallery, North side	soffit / plaster	intact	gray
332, 1st Fl. Monarchy Court Gallery, East side	column / plaster	intact	gray
351, 1st Fl. Room 126, West side	crown molding / plaster	intact	white
363, 1st Fl. Men's RR, North side	underside of stairs / plaster	poor	brown
377, 1st Fl. Women's RR , side	stairs / plaster	intact	off white
378, 1st Fl. Mauka Rotunda , South side	column / concrete	intact	dark gray
379, 1st Fl. Mauka Rotunda , South side	round column / plaster	intact	white
381, 1st Fl. Mauka Rotunda , South side	crown molding / plaster	intact	white
388, 1st Fl. Room 120, North side	column / plaster	intact	gray
392, 1st Fl. Room 120, West side	wall / plaster	intact	dark gray
517, 1st Fl. Room 114, North side	wall / plaster	intact	white
530, 1st Fl. Room 119, South side	crown molding / plaster	intact	gray
531, 1st Fl. Room 119, South side	column / plaster	intact	gray
538, 1st Fl. Room 119, West side	round column / plaster	intact	white
539, 1st Fl. Room 119, West side	wall / concrete	intact	off white
541, 1st Fl. Room 119, North side	wall / plaster	intact	off white
543, 1st Fl. Room 119, East side	wall / plaster	intact	off white
550, 1st Fl. Room 212 corridor, East side	door / wood	peeling	brown
566, 1st Fl. Room 228, East side	column / plaster	intact	beige
568, 1st Fl. Room 227, East side	wall / concrete	intact	olive

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XRF No. and Location	Testing Combination Component/Substrate	Condition	Color
574, 1st Fl. Room 227, North side	wall / concrete	intact	beige
584, 1st Fl. Room 225, North side	wall / concrete	intact	beige
587, 1st Fl. Room 225, North side	column / plaster	intact	beige
621, 1st Fl. Room 212A Janitor Closet, West side	door frame / wood	intact	brown
622, 1st Fl. Room 212A Janitor Closet, West side	door / wood	peeling	brown
624, 1st Fl. Room 212A Janitor Closet, East side	wall / plaster	intact	gray
658, 2nd Fl. Room 235, West side	wall / concrete	intact	white
660, 2nd Fl. Room 235, West side	wall / concrete	intact	white
675, 2nd Fl. Room 208A, West side	wall / plaster	intact	gray
679, 2nd Fl. Room 208A, South side	wall / concrete	intact	gray
687, 2nd Fl. Room 208A, East side	wall / concrete	intact	white
690, 2nd Fl. Room 208A, South side	wall / concrete	intact	white
703, 2nd Fl. Room 201A Public Lobby, East side	wall / plaster	intact	white
706, 2nd Fl. Room 201A Public Lobby, South side	wall / plaster	intact	white
707, 2nd Fl. Room 201A Public Lobby, West side	wall / plaster	peeling	white
722, 2nd Fl. Room 202, North side	wall / concrete	intact	beige
875, 2nd Fl. Room 201B, North side	wall / plaster	intact	white
876, 2nd Fl. Room 201B, East side	wall / plaster	intact	white
881, 2nd Fl. Mauka Rotunda, South side	wall / plaster	intact	gray
882, 2nd Fl. Mauka Rotunda, South side	wall trim / wood	intact	white
883, 2nd Fl. Mauka Rotunda, West side	wall / plaster	intact	gray

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XRF No. and Location	Testing Combination Component/Substrate	Condition	Color
884, 2nd Fl. Mauka Rotunda, West side	column / plaster	intact	white
889, 2nd Fl. Mauka Rotunda, East side	wall / wood	intact	gray
890, 2nd Fl. Mauka Rotunda, side	column / plaster	intact	white
1076, 2nd Fl. Room 239, West side	wall / concrete	intact	beige
1090, 2nd Fl. Room 238, West side	wall / plaster	intact	beige
1101, 2nd Fl. Room 208 Supreme Court, East side	wall / plaster	intact	off white
1175, 1st Fl Room 110 , South side	wall / concrete	intact	white
1177, 1st Fl Room 110 , South side	column / plaster	intact	white
1179, 1st Fl Room 111, East side	wall / plaster	intact	green
1183, 1st Fl Room 111, South side	wall / plaster	intact	green
1185, 1st Fl Room 112, South side	column / plaster	intact	gray
1186, 1st Fl Room 112, East side	wall / plaster	intact	white
1235, 2nd Fl Room 231, West side	wall / plaster	intact	beige

Some painted surfaces/building components tested have been confirmed to contain lead in concentrations of less than 1.0 mg/cm^2 – the paint on these surfaces is considered to be lead-containing paint (LCP).

Some painted surfaces tested may have paint with lead at concentrations below the instrument level of detection (0.01 mg/cm^2).

Painted surfaces may vary in paint type, color and condition, and any damaged painted surfaces may vary significantly from area to area in terms of the condition

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and degree of damage. The results provide the lead content of all paint layers in a tested surface, as there may be more than one layer of paint on the tested surface.

PCB-Containing Fluorescent Light Ballasts and Mercury-Containing Fluorescent Light Lamps

In response to the growing evidence of the danger posted by Polychlorinated Biphenyl (PCB), mercury, and other chemicals, Congress enacted the Toxic Substance Control Act (TSCA) in 1976. The TSCA directed the EPA to regulate all the chemicals that present "an unreasonable risk of injury to health or the environment" (40 CFR 761). In 1976, the EPA issued regulations prohibiting the processing, distribution, and use of PCBs and mercury, except in sealed systems. The EPA also established strict regulations for the disposal of PCBs in chemical waste landfills.

Fluorescent light ballasts that do not contain PCB are identified as such by means of a label affixed to the ballast indicating "No PCBs". If a fluorescent light ballast does not have labeling, or the labeling is not clearly marked or is illegible, the ballast is assumed to be PCB-containing and must be disposed of in a landfill that accepts PCBs.

Fluorescent light bulbs that contain mercury in an amount below the hazardous waste threshold of 0.2 mg/L by Toxicity Characteristic Leaching Procedure (TCLP) test are identified by the presence of green colored end caps or green colored labeling. If a fluorescent light bulb does not have green end caps or green colored labeling, it should be assumed to be hazardous and treated as hazardous waste for disposal purposes.

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Summary of the survey for PCB and Mercury in Fluorescent Lights

Throughout the building, a count of each type of fluorescent light fixture was recorded. A representative random sample of at least 10% of each type of fluorescent fixture was then visually inspected for labeling or indication of PCB-ballasts and mercury-containing lamps.

Basement Level Light Fixtures

Description	Total Number of Fixtures	Number of Fixtures Inspected	Number of Inspected Ballasts Found to be PCB-containing (percentage)	Number of inspected Lamps found to be Mercury-containing (percentage)
1' x 4' fixture,1 ballast, 2 bulbs	28	3	0 (0%)	0 (0%)

1st Floor Light Fixtures

Description	Total Number of Fixtures	Number of Fixtures Inspected	Number of Inspected Ballasts Found to be PCB-containing (percentage)	Number of inspected Lamps found to be Mercury-containing (percentage)
6" x 4' fixture,1 ballast, 1 bulb	10	1	0 (0%)	0 (0%)
6" x 4' fixture, 1 ballast, 2 bulbs	197	20	0 (0%)	0 (0%)
2' x 2' fixture, 1 ballast, 4 bulbs	21	4	0 (0%)	0 (0%)
2' x 4' fixture, 1 ballast, 2 bulbs	40	4	0 (0%)	0 (0%)

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2nd Floor Light Fixtures

Description	Total Number of Fixtures	Number of Fixtures Inspected	Number of Inspected Ballasts Found to be PCB-containing (percentage)	Number of inspected Lamps found to be Mercury-containing (percentage)
3" x 4' fixture, 1 ballast, 1 bulb	157	16		
6" x 2' fixture,1 ballast, 1 bulb	1	1	0 (0%)	0 (0%)
6" x 4' fixture, 1 ballast, 2 bulbs	5	1	0 (0%)	0 (0%)
1' x 1' fixture, 1 ballast, 2 bulbs	4	1	0 (0%)	0 (0%)
1' x 4' fixture, 1 ballast, 2 bulbs	6	1	0 (0%)	0 (0%)
2' x 2' fixture, 1 ballast, 2 bulbs	24	3	0 (0%)	0 (0%)
2' x 4' fixture, 1 ballast, 2 bulbs	176	18	0 (0%)	0 (0%)

Roof Level Light Fixtures

Description	Total Number of Fixtures	Number of Fixtures Inspected	Number of Inspected Ballasts Found to be PCB-containing (percentage)	Number of inspected Lamps found to be Mercury-containing (percentage)
6" x 4' fixture,1 ballast, 2 bulbs	44	4	0 (0%)	2 (25%)

Limitations

This hazardous materials survey was performed to identify suspect materials in areas scheduled for planned renovations. Original building plans and specifications and those for past renovations, if any, were not available for review.

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Therefore, because of these limitations, the highly variable nature of building construction, and the limits to the survey as defined by EMET's scope of work, the potential remains for undiscovered hazardous materials.

This report is for informational purposes only and should only be used as such. This report is not a specification and should not be solely relied upon when included as part of contract/bid documents.

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Appendix A

Asbestos Survey Report

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Building Information Sheet

Job Code /EMET ID	Client Name	Inspection date
1511498	RMA Architects, Inc.	12/5/2016, 12/6/2016, 12/8/2016

Building Number	Bldg Name	No. of Floors Surveyed
AH	ALI'IOLANI HALE	3

Location	No. of Other Levels Surveyed
417 South King Street Honolulu, HI 96813	1

Building Construction Type

LOAD BEARING MASONRY

Structural Concrete with: Metal Decks, Flat Slab, Beam/Joist or Waffle Slabs; Structural Tees
Steel Frame
Wood Frame
Load Bearing Masonry

Building Use		% Floor Space
Use #1	COURTHOUSE	100
Use #2		
Use #3		

Academic Classes, Administration Offices, Food Services, Dormitory, Mechanical Spaces, Gymnasium, Laboratory, Library, Residential or Other (Specify)

ACBM PRESENT?

YES

YES = PRESENT
NO = NOT PRESENT
ASM = ASSUMED

Inspector Identification

Name: Stephen Kaneshiro
State of HI Certification No. HIASB-2307
State of HI Certification Expiration Date: 9/7/2017
Building Inspector Certification Exp. Date: 2/12/2017

Specific areas surveyed

interior and exterior including roof

Inspector Comments

EMET's scope of work was limited to the areas listed above in Specific Areas Surveyed. This report is not a specification for the removal of asbestos-containing material and should not be used as such. Results of the presence or absence of asbestos are based on the survey and on analyses of the suspect materials encountered. Original building plans and specifications were not available for review. Therefore, because of these limitations and the highly variable nature of building construction, the potential remains for undiscovered ACM. EMET makes no warranty and assumes no liability for the inappropriate use or misuse of this document.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-1

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-1A	plaster wall and ceiling (older)		YES	NO ACM						
498-AH-1B	white caulking at window frame		YES	NO ACM						
498-AH-1C	gray sheet vinyl flooring		YES	NO ACM						
498-AH-1D	yellow adhesive under gray sheet vinyl flooring		YES	NO ACM						
498-AH-1E	white caulking at door frame		YES	NO ACM						
498-AH-1F(L1)	4" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-1

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-1F(L2)	4" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						
498-AH-1G	beige duct mastic		YES	NO ACM						
498-AH-1H	gray flex duct	not suspect	NO							
498-AH-1I	2' x 4' white fissured pinhole acoustical ceiling tile		YES	NO ACM						
498-AH-1J	4" light brown covebase		YES	NO ACM						
498-AH-1K	beige adhesive under 4" light brown covebase		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
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3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-1

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-1L	12" x 12" off-white w/gray streaks VFT		YES	NO ACM						
498-AH-1M	beige adhesive under 12" x 12" off-white w/gray streaks VFT		YES	NO ACM						
498-AH-1N	white vibration cloth	inaccessible due to height and obstruction; estimated quantity	YES	ASSUMED		M	ND	NPD	8	$10
498-AH-1O	black foam rubber insulation	not suspect	NO							
498-AH-1P	white sink insulation		YES	NO ACM						
498-AH-1Q	yellow fiberglass insulation	not suspect	NO							

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-1

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-1R	black/yellow residual mastic on floor		YES	NO ACM						
498-AH-1S	gypsum wallboard/mudjoint wall and ceiling system		YES	NO ACM						
498-AH-1T	gray grout		YES	NO ACM						
498-AH-1U	white caulking at plumbing fixture		YES	NO ACM						
498-AH-1V	waterproofing membrane	inaccessible without causing significant damage	YES	ASSUMED		M	ND	NPD	8	$7000
498-AH-1W	pink vibration cloth		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-1

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-1X	red cementitious flooring		YES	NO ACM						
498-AH-1Y	4" gray covebase		YES	NO ACM						
498-AH-1Z	beige adhesive under 4" gray covebase		YES	NO ACM						
498-AH-1AA	gray sink insulation		YES	NO ACM						
498-AH-1BB	yellow carpet adhesive		YES	NO ACM						
498-AH-1CC	residual black adhesive under carpet		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-1

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-1DD	plaster wall and ceiling (newer)		YES	NO ACM						
498-AH-1EE	gray textured flooring on steps		YES	NO ACM						
498-AH-1FF	gray expansion joint		YES	NO ACM						
498-AH-1GG	beige caulking at door frame		YES	NO ACM						
498-AH-1HH	black caulking at downspout		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1A	plaster wall and ceiling (older)	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-1A

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

plaster wall and ceiling (older)

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1A1, 498-AH-1A2, 498-AH-1A3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1A	plaster wall and ceiling (older)

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1A1	0	plaster wall and ceiling (older)	See Sketch 498-AH-1
498-AH-1A2	0	plaster wall and ceiling (older)	See Sketch 498-AH-1
498-AH-1A3	0	plaster wall and ceiling (older)	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1A Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-001	498-AH-1A1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-002	498-AH-1A2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-003	498-AH-1A3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1B	white caulking at window frame	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1B

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white caulking at window frame

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1B1, 498-AH-1B2, 498-AH-1B3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1B	white caulking at window frame

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1B1	0	white caulking at window frame	See Sketch 498-AH-1
498-AH-1B2	0	white caulking at window frame	See Sketch 498-AH-1
498-AH-1B3	0	white caulking at window frame	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

EMET Services, Inc. 94-520 Uke`e Street, Suite A Waipahu, HI 96797
Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1B Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-004	498-AH-1B1	white	Yes	No	- -	- -	misc. part. 100	
498/AH-005	498-AH-1B2	white	Yes	No	- -	- -	misc. part. 100	
498/AH-006	498-AH-1B3	white	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1C	gray sheet vinyl flooring	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-1C

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gray sheet vinyl flooring

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1C1, 498-AH-1C2, 498-AH-1C3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1C	gray sheet vinyl flooring

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1C1	0	gray sheet vinyl flooring	See Sketch 498-AH-1
498-AH-1C2	0	gray sheet vinyl flooring	See Sketch 498-AH-1
498-AH-1C3	0	gray sheet vinyl flooring	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1C Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-007	498-AH-1C1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-008	498-AH-1C2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-009	498-AH-1C3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1D	yellow adhesive under gray sheet vinyl flooring	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-1D

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

yellow adhesive under gray sheet vinyl flooring

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1D1, 498-AH-1D2, 498-AH-1D3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1D	yellow adhesive under gray sheet vinyl flooring

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1D1	0	yellow adhesive under gray sheet vinyl flooring	See Sketch 498-AH-1
498-AH-1D2	0	yellow adhesive under gray sheet vinyl flooring	See Sketch 498-AH-1
498-AH-1D3	0	yellow adhesive under gray sheet vinyl flooring	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1D Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-010	498-AH-1D1	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-011	498-AH-1D2	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-012	498-AH-1D3	yellow	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1E	white caulking at door frame	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1E

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white caulking at door frame

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1E1, 498-AH-1E2, 498-AH-1E3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1E	white caulking at door frame

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1E1	0	white caulking at door frame	See Sketch 498-AH-1
498-AH-1E2	0	white caulking at door frame	See Sketch 498-AH-1
498-AH-1E3	0	white caulking at door frame	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1E Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-013	498-AH-1E1	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-014	498-AH-1E2	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-015	498-AH-1E3	white	Yes	No	-	-	misc. part.	
					-	-	100	

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State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1F(L1)	4" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1F(L1)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

wrap layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1F(L1)1, 498-AH-1F(L1)2, 498-AH -1F(L1)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1F(L1)	4" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1F(L1)1	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-1
498-AH-1F(L1)2	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-1
498-AH-1F(L1)3	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1F(L1) Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-016	498-AH-1F(L1)1	white	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-017	498-AH-1F(L1)2	white	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-018	498-AH-1F(L1)3	white	Yes	No	-	cellulose	misc. part.	
					-	30	70	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1F(L2)	4" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1F(L2)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

insulation layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1F(L2)1, 498-AH-1F(L2)2, 498-AH -1F(L2)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1F(L2)	4" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1F(L2)1	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-1
498-AH-1F(L2)2	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-1
498-AH-1F(L2)3	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1F(L2) Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-019	498-AH-1F(L2)1	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-020	498-AH-1F(L2)2	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-021	498-AH-1F(L2)3	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	

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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1G	beige duct mastic	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1G

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige duct mastic

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1G1, 498-AH-1G2, 498-AH-1G3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1G	beige duct mastic

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1G1	0	beige duct mastic	See Sketch 498-AH-1
498-AH-1G2	0	beige duct mastic	See Sketch 498-AH-1
498-AH-1G3	0	beige duct mastic	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1G Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-022	498-AH-1G1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-023	498-AH-1G2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-024	498-AH-1G3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1H	gray flex duct	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-1H

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gray flex duct

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition		Potential Damage		Water Damage	
Visible		Reachable		Texture	
Barriers		Ventilation	If Yes	Friable Surface	
Air Movement		Proximity to Repair Items		Activity	

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1I	2' x 4' white fissured pinhole acoustical ceiling tile	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-1I

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

2' x 4' white fissured pinhole acoustical ceiling tile

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1I1, 498-AH-1I2, 498-AH-1I3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1I	2' x 4' white fissured pinhole acoustical ceiling tile

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1I1	0	2' x 4' white fissured pinhole acoustical ceiling tile	See Sketch 498-AH-1
498-AH-1I2	0	2' x 4' white fissured pinhole acoustical ceiling tile	See Sketch 498-AH-1
498-AH-1I3	0	2' x 4' white fissured pinhole acoustical ceiling tile	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1I Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-025	498-AH-1I1	white	Yes	No	-	cellulose, mineral	misc. part.	
					-	60	40	
498/AH-026	498-AH-1I2	white	Yes	No	-	cellulose, mineral	misc. part.	
					-	60	40	
498/AH-027	498-AH-1I3	white	Yes	No	-	cellulose, mineral	misc. part.	
					-	60	40	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1J	4" light brown covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1J

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" light brown covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1J1, 498-AH-1J2, 498-AH-1J3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1J	4" light brown covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1J1	0	4" light brown covebase	See Sketch 498-AH-1
498-AH-1J2	0	4" light brown covebase	See Sketch 498-AH-1
498-AH-1J3	0	4" light brown covebase	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1J Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-028	498-AH-1J1	lt brown	Yes	No	- -	- -	misc. part. 100	
498/AH-029	498-AH-1J2	lt brown	Yes	No	- -	- -	misc. part. 100	
498/AH-030	498-AH-1J3	lt brown	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1K	beige adhesive under 4" light brown covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1K

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige adhesive under 4" light brown covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1K1, 498-AH-1K2, 498-AH-1K3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1K	beige adhesive under 4" light brown covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1K1	0	beige adhesive under 4" light brown covebase	See Sketch 498-AH-1
498-AH-1K2	0	beige adhesive under 4" light brown covebase	See Sketch 498-AH-1
498-AH-1K3	0	beige adhesive under 4" light brown covebase	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1K Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-031	498-AH-1K1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-032	498-AH-1K2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-033	498-AH-1K3	beige	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1L	12" x 12" off-white w/gray streaks VFT	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-1L

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

12" x 12" off-white w/gray streaks VFT

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1L1, 498-AH-1L2, 498-AH-1L3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1L	12" x 12" off-white w/gray streaks VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1L1	0	12" x 12" off-white w/gray streaks VFT	See Sketch 498-AH-1
498-AH-1L2	0	12" x 12" off-white w/gray streaks VFT	See Sketch 498-AH-1
498-AH-1L3	0	12" x 12" off-white w/gray streaks VFT	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1L Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-034	498-AH-1L1	off white w/ gray streaks	Yes	No	- -	- -	misc. part. 100	
498/AH-035	498-AH-1L2	off white w/ gray streaks	Yes	No	- -	- -	misc. part. 100	
498/AH-036	498-AH-1L3	off white w/ gray streaks	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1M	beige adhesive under 12" x 12" off-white w/gray streaks VFT	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1M

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Unified Sample Area/Homogeneous Material

beige adhesive under 12" x 12" off-white w/gray streaks VFT

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1M1, 498-AH-1M2, 498-AH-1M3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1M	beige adhesive under 12" x 12" off-white w/gray streaks VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1M1	0	beige adhesive under 12" x 12" off-white w/gray streaks VFT	See Sketch 498-AH-1
498-AH-1M2	0	beige adhesive under 12" x 12" off-white w/gray streaks VFT	See Sketch 498-AH-1
498-AH-1M3	0	beige adhesive under 12" x 12" off-white w/gray streaks VFT	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1M Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-037	498-AH-1M1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-038	498-AH-1M2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-039	498-AH-1M3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1N	white vibration cloth	Unified Sample Area Number
	Drawing/Sketch Number		
	498-AH-1	498-AH-1	498-AH-1N

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white vibration cloth

inaccessible due to height and obstruction; estimated quantity

Location of Confirmed, Assumed, or New ACM within Building

See Sketch 498-AH-1

mechanical duct joints above the suspended ceiling, undetermined amount

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM	1		
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±1		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	None	None
Visible	**Reachable**	**Texture**
None visible	Not reachable	smooth
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
None	Yes / Both	
Air Movement	**Proximity to Repair Items**	**Activity**
High	Less than 1 ft.	Low

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	0
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	0
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	**Assumed**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1O	black foam rubber insulation	Unified Sample Area Number
	Drawing/Sketch Number		
		498-AH-1	498-AH-1O

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black foam rubber insulation

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage		Water Damage	
Visible	Reachable		Texture	
Barriers	Ventilation	If Yes	Friable Surface	
Air Movement	Proximity to Repair Items		Activity	

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1P	white sink insulation	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1P

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white sink insulation

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1P1, 498-AH-1P2, 498-AH-1P3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1P	white sink insulation

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1P1	0	white sink insulation	See Sketch 498-AH-1
498-AH-1P2	0	white sink insulation	See Sketch 498-AH-1
498-AH-1P3	0	white sink insulation	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1P Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-040	498-AH-1P1	off white	Yes	No	-	cellulose	misc. part.	
					-	2	98	
498/AH-041	498-AH-1P2	off white	Yes	No	-	cellulose	misc. part.	
					-	2	98	
498/AH-042	498-AH-1P3	off white	Yes	No	-	cellulose	misc. part.	
					-	2	98	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1Q	yellow fiberglass insulation	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-1Q

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

yellow fiberglass insulation

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage		Water Damage	
Visible	Reachable		Texture	
Barriers	Ventilation	If Yes	Friable Surface	
Air Movement	Proximity to Repair Items		Activity	

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1R	black/yellow residual mastic on floor	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1R

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black/yellow residual mastic on floor

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1R1, 498-AH-1R2, 498-AH-1R3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1R	black/yellow residual mastic on floor

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1R1	0	black/yellow residual mastic on floor	See Sketch 498-AH-1
498-AH-1R2	0	black/yellow residual mastic on floor	See Sketch 498-AH-1
498-AH-1R3	0	black/yellow residual mastic on floor	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1R Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-043	498-AH-1R1	yellow/ black	Yes	No	- -	- -	misc. part. 100	
498/AH-044	498-AH-1R2	yellow/ black	Yes	No	- -	- -	misc. part. 100	
498/AH-045	498-AH-1R3	yellow/ black	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1S	gypsum wallboard/mudjoint wall and ceiling system	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1S

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Unified Sample Area/Homogeneous Material

gypsum wallboard/mudjoint wall and ceiling system

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1S1, 498-AH-1S2, 498-AH-1S3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1S	gypsum wallboard/mudjoint wall and ceiling system

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1S1	0	gypsum wallboard/mudjoint wall and ceiling system	See Sketch 498-AH-1
498-AH-1S2	0	gypsum wallboard/mudjoint wall and ceiling system	See Sketch 498-AH-1
498-AH-1S3	0	gypsum wallboard/mudjoint wall and ceiling system	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1S Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-046	498-AH-1S1	white	Yes	No	-	cellulose	misc. part.	
					-	9	91	
498/AH-047	498-AH-1S2	white	Yes	No	-	cellulose	misc. part.	
					-	9	91	
498/AH-048	498-AH-1S3	white	Yes	No	-	cellulose	misc. part.	
					-	9	91	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1T	gray grout	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1T

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Unified Sample Area/Homogeneous Material

gray grout

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1T1, 498-AH-1T2, 498-AH-1T3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1T	gray grout

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1T1	0	gray grout	See Sketch 498-AH-1
498-AH-1T2	0	gray grout	See Sketch 498-AH-1
498-AH-1T3	0	gray grout	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1T Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-049	498-AH-1T1	gray	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-050	498-AH-1T2	gray	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-051	498-AH-1T3	gray	Yes	No	-	-	misc. part.	
					-	-	100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1U	white caulking at plumbing fixture	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1U

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white caulking at plumbing fixture

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1U1, 498-AH-1U2, 498-AH-1U3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1U	white caulking at plumbing fixture

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1U1	0	white caulking at plumbing fixture	See Sketch 498-AH-1
498-AH-1U2	0	white caulking at plumbing fixture	See Sketch 498-AH-1
498-AH-1U3	0	white caulking at plumbing fixture	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1U Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-052	498-AH-1U1	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-053	498-AH-1U2	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-054	498-AH-1U3	white	Yes	No	-	-	misc. part.	
					-	-	100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1V	waterproofing membrane	Unified Sample Area Number
	Drawing/Sketch Number		
	498-AH-1	498-AH-1	498-AH-1V

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

waterproofing membrane

inaccessible without causing significant damage

Location of Confirmed, Assumed, or New ACM within Building

See Sketch 498-AH-1

presumed to exist under ceramic floor tiles in bathrooms

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface	700		
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±700		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	None	None
Visible	**Reachable**	**Texture**
None visible	Within reach	
Barriers	**Ventilation / If Yes**	**Friable Surface**
Enclosed	Yes / Both	
Air Movement	**Proximity to Repair Items**	**Activity**
Low	Less than 1 ft.	High

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	0
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	0
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	**Assumed**
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1W	pink vibration cloth	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1W

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

pink vibration cloth

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1W1, 498-AH-1W2, 498-AH-1W3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1W	pink vibration cloth

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1W1	0	pink vibration cloth	See Sketch 498-AH-1
498-AH-1W2	0	pink vibration cloth	See Sketch 498-AH-1
498-AH-1W3	0	pink vibration cloth	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1W Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-055	498-AH-1W1	pink	Yes	No	-	synthetic	misc. part.	
					-	20	80	
498/AH-056	498-AH-1W2	pink	Yes	No	-	synthetic	misc. part.	
					-	20	80	
498/AH-057	498-AH-1W3	pink	Yes	No	-	synthetic	misc. part.	
					-	20	80	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1X	red cementitious flooring	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1X

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

red cementitious flooring

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1X1, 498-AH-1X2, 498-AH-1X3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1X	red cementitious flooring

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1X1	0	red cementitious flooring	See Sketch 498-AH-1
498-AH-1X2	0	red cementitious flooring	See Sketch 498-AH-1
498-AH-1X3	0	red cementitious flooring	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1X Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-058	498-AH-1X1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-059	498-AH-1X2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-060	498-AH-1X3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1Y	4" gray covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1Y

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" gray covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1Y1, 498-AH-1Y2, 498-AH-1Y3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1Y	4" gray covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1Y1	0	4" gray covebase	See Sketch 498-AH-1
498-AH-1Y2	0	4" gray covebase	See Sketch 498-AH-1
498-AH-1Y3	0	4" gray covebase	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1Y Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-061	498-AH-1Y1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-062	498-AH-1Y2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-063	498-AH-1Y3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1Z	beige adhesive under 4" gray covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1Z

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Unified Sample Area/Homogeneous Material

beige adhesive under 4" gray covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1Z1, 498-AH-1Z2, 498-AH-1Z3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1Z	beige adhesive under 4" gray covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1Z1	0	beige adhesive under 4" gray covebase	See Sketch 498-AH-1
498-AH-1Z2	0	beige adhesive under 4" gray covebase	See Sketch 498-AH-1
498-AH-1Z3	0	beige adhesive under 4" gray covebase	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1Z Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-064	498-AH-1Z1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-065	498-AH-1Z2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-066	498-AH-1Z3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1AA	gray sink insulation	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1AA

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gray sink insulation

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1AA1, 498-AH-1AA2, 498-AH-1AA3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1AA	gray sink insulation

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1AA1	0	gray sink insulation	See Sketch 498-AH-1
498-AH-1AA2	0	gray sink insulation	See Sketch 498-AH-1
498-AH-1AA3	0	gray sink insulation	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1AA Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-067	498-AH-1AA1	gray	Yes	No	-	cellulose	misc. part.	
					-	2	98	
498/AH-068	498-AH-1AA2	gray	Yes	No	-	cellulose	misc. part.	
					-	2	98	
498/AH-069	498-AH-1AA3	gray	Yes	No	-	cellulose	misc. part.	
					-	2	98	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1BB	yellow carpet adhesive	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1BB

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

yellow carpet adhesive

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1BB1, 498-AH-1BB2, 498-AH-1BB3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1BB	yellow carpet adhesive

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1BB1	0	yellow carpet adhesive	See Sketch 498-AH-1
498-AH-1BB2	0	yellow carpet adhesive	See Sketch 498-AH-1
498-AH-1BB3	0	yellow carpet adhesive	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1BB Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-070	498-AH-1BB1	yellow/ black	Yes	No	- -	- -	misc. part. 100	
498/AH-071	498-AH-1BB2	yellow/ black	Yes	No	- -	- -	misc. part. 100	
498/AH-072	498-AH-1BB3	yellow/ black	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1CC	residual black adhesive under carpet	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1CC

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

residual black adhesive under carpet

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

Room 114

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1CC1, 498-AH-1CC2, 498-AH-1CC3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1CC	residual black adhesive under carpet

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1CC1	0	residual black adhesive under carpet	See Sketch 498-AH-1
498-AH-1CC2	0	residual black adhesive under carpet	See Sketch 498-AH-1
498-AH-1CC3	0	residual black adhesive under carpet	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1CC Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-073	498-AH-1CC1	black	Yes	No	- -	- -	misc. part. 100	
498/AH-074	498-AH-1CC2	black	Yes	No	- -	- -	misc. part. 100	
498/AH-075	498-AH-1CC3	black	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1DD	plaster wall and ceiling (newer)	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1DD

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

plaster wall and ceiling (newer)

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1DD1, 498-AH-1DD2, 498-AH-1DD3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1DD	plaster wall and ceiling (newer)

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1DD1	0	plaster wall and ceiling (newer)	See Sketch 498-AH-1
498-AH-1DD2	0	plaster wall and ceiling (newer)	See Sketch 498-AH-1
498-AH-1DD3	0	plaster wall and ceiling (newer)	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1DD Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-076	498-AH-1DD1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-077	498-AH-1DD2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-078	498-AH-1DD3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1EE	gray textured flooring on steps	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1EE

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gray textured flooring on steps

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1EE1, 498-AH-1EE2, 498-AH-1EE3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1EE	gray textured flooring on steps

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1EE1	0	gray textured flooring on steps	See Sketch 498-AH-1
498-AH-1EE2	0	gray textured flooring on steps	See Sketch 498-AH-1
498-AH-1EE3	0	gray textured flooring on steps	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1EE Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-079	498-AH-1EE1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-080	498-AH-1EE2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-081	498-AH-1EE3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1FF	gray expansion joint	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1FF

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gray expansion joint

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1FF1, 498-AH-1FF2, 498-AH-1FF3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1FF	gray expansion joint

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1FF1	0	gray expansion joint	See Sketch 498-AH-1
498-AH-1FF2	0	gray expansion joint	See Sketch 498-AH-1
498-AH-1FF3	0	gray expansion joint	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1FF Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-082	498-AH-1FF1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-083	498-AH-1FF2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-084	498-AH-1FF3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1GG	beige caulking at door frame	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1GG

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige caulking at door frame

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1GG1, 498-AH-1GG2, 498-AH -1GG3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1GG	beige caulking at door frame

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1GG1	0	beige caulking at door frame	See Sketch 498-AH-1
498-AH-1GG2	0	beige caulking at door frame	See Sketch 498-AH-1
498-AH-1GG3	0	beige caulking at door frame	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1GG Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-085	498-AH-1GG1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-086	498-AH-1GG2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-087	498-AH-1GG3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-1HH	black caulking at downspout	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-1HH

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black caulking at downspout

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-1HH1, 498-AH-1HH2, 498-AH-1HH3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-1HH	black caulking at downspout

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-1HH1	0	black caulking at downspout	See Sketch 498-AH-1
498-AH-1HH2	0	black caulking at downspout	See Sketch 498-AH-1
498-AH-1HH3	0	black caulking at downspout	See Sketch 498-AH-1

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-1HH Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-088	498-AH-1HH1	black	Yes	No	- -	- -	misc. part. 100	
498/AH-089	498-AH-1HH2	black	Yes	No	- -	- -	misc. part. 100	
498/AH-090	498-AH-1HH3	black	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2A	12" x 12" beige w/brown streaks VFT		YES	NO ACM						
498-AH-2B	yellow adhesive under 12" x 12" beige w/brown streaks VFT		YES	NO ACM						
498-AH-2C	9" x 9" green VFT		YES	ACM	NO	M	ND	NPD	8	$12000
498-AH-2D	black mastic under 9" x 9" green VFT		YES	ACM	NO	M	ND	PD	8	$12000
498-AH-2E	1" black carpet edge (rubber/no adhesive)	not suspect	NO							
498-AH-2F	4" brown covebase		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2G	brown adhesive under 4" brown covebase		YES	NO ACM						
498-AH-2H	plaster wall and ceiling (older)		YES	NO ACM						
498-AH-2I	white caulking at door frame		YES	NO ACM						
498-AH-2J	white caulking at window frame		YES	NO ACM						
498-AH-2K	gray sink insulation		YES	NO ACM						
498-AH-2L	silver foil wrap w/yellow fiberglass duct insulation	not suspect	NO							

*** Refers to Material Type and Damage Conditions**

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2M	8" O. D. white wrap TSI	inaccessible due to height and obstruction; estimated quantity	YES	ASSUMED	YES	T	ND	NPD	8	$1500
498-AH-2N	waterproofing membrane	inaccessible without causing significant damage	YES	ASSUMED		M	ND	NPD	8	$6000
498-AH-2O	beige duct mastic		YES	NO ACM						
498-AH-2P	pink fiberglass ceiling batting	not suspect	NO							
498-AH-2Q	gray flex duct	not suspect	NO							
498-AH-2R	black paper at ceiling deck	above dropped ceiling	YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

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S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

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6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2S	4" tan covebase		YES	NO ACM						
498-AH-2T	brown adhesive under 4" tan covebase		YES	NO ACM						
498-AH-2U	gray grout		YES	NO ACM						
498-AH-2V	white caulking at plumbing fixture		YES	NO ACM						
498-AH-2W	2' x 4' white fissured pinhole acoustical ceiling tile		YES	NO ACM						
498-AH-2X	12" x 12" beige w/gray streaks VFT		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2Y	beige adhesive under 12" x 12" beige w/gray streaks VFT		YES	NO ACM						
498-AH-2Z	9" x 9" brown vft		YES	NO ACM						
498-AH-2AA	yellow adhesive under 9" x 9" brown vft		YES	NO ACM						
498-AH-2BB	9" x 9" dark green VFT		YES	ACM	NO	M	ND	PD	8	$12000
498-AH-2CC	black mastic under 9" x 9" dark green VFT		YES	ACM	NO	M	ND	PD	8	$12000
498-AH-2DD	yellow carpet adhesive		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
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M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

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2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2EE(L1)	4" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						
498-AH-2EE(L2)	4" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						
498-AH-2FF	brown carpet adhesive		YES	NO ACM						
498-AH-2GG	plaster wall system (newer)		YES	NO ACM						
498-AH-2HH	gypsum wallboard/mudjoint wall and ceiling system		YES	NO ACM						
498-AH-2II	4" gray covebase		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2JJ	beige adhesive under 4" gray covebase		YES	NO ACM						
498-AH-2KK	black residual mastic on floor		YES	NO ACM						
498-AH-2LL	black vibration cloth		YES	NO ACM						
498-AH-2MM	brown fiberglass wall insulation	not suspect	NO							
498-AH-2NN	white leveling compound		YES	NO ACM						
498-AH-2OO	black adhesive under white leveling compound		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-2

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-2PP	12" x 12" gray vft		YES	NO ACM						
498-AH-2QQ	yellow adhesive under 12" x 12" gray vft		YES	NO ACM						
498-AH-2RR	4" dark gray covebase		YES	NO ACM						
498-AH-2SS	beige adhesive under 4" dark gray covebase		YES	NO ACM						
498-AH-2TT	beige caulking at ceiling penetration		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2A	12" x 12" beige w/brown streaks VFT	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2A

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

12" x 12" beige w/brown streaks VFT

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2A1, 498-AH-2A2, 498-AH-2A3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2A	12" x 12" beige w/brown streaks VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2A1	0	12" x 12" beige w/brown streaks VFT	See Sketch 498-AH-2
498-AH-2A2	0	12" x 12" beige w/brown streaks VFT	See Sketch 498-AH-2
498-AH-2A3	0	12" x 12" beige w/brown streaks VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2A Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-091	498-AH-2A1	beige w/ brown streaks	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-092	498-AH-2A2	beige w/ brown streaks	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-093	498-AH-2A3	beige w/ brown streaks	Yes	No	-	-	misc. part.	
					-	-	100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2B	yellow adhesive under 12" x 12" beige w/brown streaks VFT	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2B

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

yellow adhesive under 12" x 12" beige w/brown streaks VFT

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2B1, 498-AH-2B2, 498-AH-2B3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2B	yellow adhesive under 12" x 12" beige w/brown streaks VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2B1	0	yellow adhesive under 12" x 12" beige w/brown streaks VFT	See Sketch 498-AH-2
498-AH-2B2	0	yellow adhesive under 12" x 12" beige w/brown streaks VFT	See Sketch 498-AH-2
498-AH-2B3	0	yellow adhesive under 12" x 12" beige w/brown streaks VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2B Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-094	498-AH-2B1	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-095	498-AH-2B2	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-096	498-AH-2B3	yellow	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2C	9" x 9" green VFT	Unified Sample Area Number
	Drawing/Sketch Number		
	498-AH-2	498-AH-2	498-AH-2C

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

9" x 9" green VFT

Location of Confirmed, Assumed, or New ACM within Building

See Sketch 498-AH-2

beneath carpet in Rooms 217, 218 (adj. to 217), 218 (adj. to 224), 220, 221, 223, 224, 225, 226, 238, 239, and 242, forms checkerboard pattern with 9" x 9" dark green VFT

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface	1200		
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±1200		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	None	None
Visible	**Reachable**	**Texture**
None visible	Within reach	smooth
Barriers	**Ventilation / If Yes**	**Friable Surface**
Enclosed	Yes / Both	No / Category I
Air Movement	**Proximity to Repair Items**	**Activity**
Low	Less than 1 ft.	High

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2C1, 498-AH-2C2, 498-AH-2C3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**YES**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2C	9" x 9" green VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2C1	4	9" x 9" green VFT	See Sketch 498-AH-2
498-AH-2C2	4	9" x 9" green VFT	See Sketch 498-AH-2
498-AH-2C3	4	9" x 9" green VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2C Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-097	498-AH-2C1	green	Yes	Yes	chrysotile 4	- -	misc. part. 96	
498/AH-098	498-AH-2C2	green	Yes	Yes	chrysotile 4	- -	misc. part. 96	
498/AH-099	498-AH-2C3	green	Yes	Yes	chrysotile 4	- -	misc. part. 96	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2D	black mastic under 9" x 9" green VFT	Unified Sample Area Number
	Drawing/Sketch Number		
	498-AH-2	498-AH-2	498-AH-2D

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black mastic under 9" x 9" green VFT

Location of Confirmed, Assumed, or New ACM within Building

See Sketch 498-AH-2

beneath carpet in Rooms 217, 218 (adj. to 217), 218 (adj. to 224), 220, 221, 223, 224, 225, 226, 238, 239, and 242, forms checkerboard pattern with 9" x 9" dark green VFT

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface	1200		
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±1200		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	Moderate	None
Visible	**Reachable**	**Texture**
None visible	Within reach	smooth

Barriers	Ventilation	If Yes	Friable Surface	
Enclosed	Yes	Both	No	Category I

Air Movement	Proximity to Repair Items	Activity
Low	Less than 1 ft.	High

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2D1, 498-AH-2D2, 498-AH-2D3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**YES**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2D	black mastic under 9" x 9" green VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2D1	2	black mastic under 9" x 9" green VFT	See Sketch 498-AH-2
498-AH-2D2	2	black mastic under 9" x 9" green VFT	See Sketch 498-AH-2
498-AH-2D3	2	black mastic under 9" x 9" green VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2D Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-100	498-AH-2D1	black	Yes	Yes	chrysotile 2	synthetic 1	misc. part. 97	
498/AH-101	498-AH-2D2	black	Yes	Yes	chrysotile 2	synthetic 1	misc. part. 97	
498/AH-102	498-AH-2D3	black	Yes	Yes	chrysotile 2	synthetic 1	misc. part. 97	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	
	Material ID and Description		
Document Number	498-AH-2E	1" black carpet edge (rubber/no adhesive)	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2E

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

1" black carpet edge (rubber/no adhesive)

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1	#2
Square Feet of Ceiling Materials	
Square Feet of Wall Materials	
Square Feet of Floor Surface	
Linear Feet of TSI	
Square Feet of Structural Steel Coatings (including over-spray)	
Square Feet of Other ACM	
Linear Feet of Other ACM	
Total square and/or linear feet of ACM in this Sample Space:	

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
Visible	Reachable	Texture
Barriers	Ventilation / If Yes	Friable Surface
Air Movement	Proximity to Repair Items	Activity

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2F	4" brown covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2F

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" brown covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2F1, 498-AH-2F2, 498-AH-2F3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2F	4" brown covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2F1	0	4" brown covebase	See Sketch 498-AH-2
498-AH-2F2	0	4" brown covebase	See Sketch 498-AH-2
498-AH-2F3	0	4" brown covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2F Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-103	498-AH-2F1	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-104	498-AH-2F2	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-105	498-AH-2F3	brown	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2G	brown adhesive under 4" brown covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2G

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

brown adhesive under 4" brown covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1	
#2	
Square Feet of Ceiling Materials	
Square Feet of Wall Materials	
Square Feet of Floor Surface	
Linear Feet of TSI	
Square Feet of Structural Steel Coatings (including over-spray)	
Square Feet of Other ACM	
Linear Feet of Other ACM	
Total square and/or linear feet of ACM in this Sample Space:	

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2G1, 498-AH-2G2, 498-AH-2G3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2G	brown adhesive under 4" brown covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2G1	0	brown adhesive under 4" brown covebase	See Sketch 498-AH-2
498-AH-2G2	0	brown adhesive under 4" brown covebase	See Sketch 498-AH-2
498-AH-2G3	0	brown adhesive under 4" brown covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2G Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-106	498-AH-2G1	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-107	498-AH-2G2	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-108	498-AH-2G3	brown	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2H	plaster wall and ceiling (older)	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-2H

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

plaster wall and ceiling (older)

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

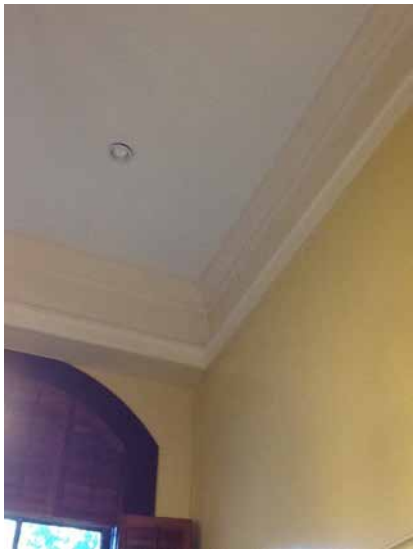
RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2H1, 498-AH-2H2, 498-AH-2H3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH



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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2H	plaster wall and ceiling (older)

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2H1	0	plaster wall and ceiling (older)	See Sketch 498-AH-2
498-AH-2H2	0	plaster wall and ceiling (older)	See Sketch 498-AH-2
498-AH-2H3	0	plaster wall and ceiling (older)	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2H Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-109	498-AH-2H1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-110	498-AH-2H2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-111	498-AH-2H3	gray	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2I	white caulking at door frame	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2I

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white caulking at door frame

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2I1, 498-AH-2I2, 498-AH-2I3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2I	white caulking at door frame

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2I1	0	white caulking at door frame	See Sketch 498-AH-2
498-AH-2I2	0	white caulking at door frame	See Sketch 498-AH-2
498-AH-2I3	0	white caulking at door frame	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2I Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-112	498-AH-2I1	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-113	498-AH-2I2	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-114	498-AH-2I3	white	Yes	No	-	-	misc. part.	
					-	-	100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2J	white caulking at window frame	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2J

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Unified Sample Area/Homogeneous Material

white caulking at window frame

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2J1, 498-AH-2J2, 498-AH-2J3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2J	white caulking at window frame

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2J1	0	white caulking at window frame	See Sketch 498-AH-2
498-AH-2J2	0	white caulking at window frame	See Sketch 498-AH-2
498-AH-2J3	0	white caulking at window frame	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2J Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-115	498-AH-2J1	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-116	498-AH-2J2	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-117	498-AH-2J3	white	Yes	No	-	-	misc. part.	
					-	-	100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2K	gray sink insulation	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2K

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Unified Sample Area/Homogeneous Material

gray sink insulation

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2K1, 498-AH-2K2, 498-AH-2K3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2K	gray sink insulation

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2K1	0	gray sink insulation	See Sketch 498-AH-2
498-AH-2K2	0	gray sink insulation	See Sketch 498-AH-2
498-AH-2K3	0	gray sink insulation	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2K Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-118	498-AH-2K1	gray	Yes	No	-	cellulose	misc. part.	
					-	2	98	
498/AH-119	498-AH-2K2	gray	Yes	No	-	cellulose	misc. part.	
					-	2	98	
498/AH-120	498-AH-2K3	gray	Yes	No	-	cellulose	misc. part.	
					-	2	98	

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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2L	silver foil wrap w/yellow fiberglass duct insulation	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-2L

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

silver foil wrap w/yellow fiberglass duct insulation

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
Visible	**Reachable**	**Texture**
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
Air Movement	**Proximity to Repair Items**	**Activity**

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2M	8" O. D. white wrap TSI	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-2M

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

8" O. D. white wrap TSI

inaccessible due to height and obstruction; estimated quantity

Location of Confirmed, Assumed, or New ACM within Building

See Sketch

above suspended ceiling; undetermined amount

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI	50		
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±50		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	None	None
Visible	**Reachable**	**Texture**
None visible	Not reachable	smooth
Barriers	**Ventilation**	**If Yes** / **Friable Surface**
None	Yes	Both / Yes / Soft
Air Movement	**Proximity to Repair Items**	**Activity**
Low	Less than 1 ft.	High

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	0
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	0
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	**Assumed**
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2N	waterproofing membrane	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2N

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

waterproofing membrane

inaccessible without causing significant damage

Location of Confirmed, Assumed, or New ACM within Building

See Sketch

presumed to exist under ceramic floor tiles in bathrooms

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface	600		
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±600		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	None	None
Visible	**Reachable**	**Texture**
None visible	Within reach	
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
Enclosed	Yes / Both	
Air Movement	**Proximity to Repair Items**	**Activity**
Low	Less than 1 ft.	High

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	0
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	0
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	**Assumed**
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2O	beige duct mastic	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2O

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige duct mastic

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2O1, 498-AH-2O2, 498-AH-2O3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2O	beige duct mastic

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2O1	0	beige duct mastic	See Sketch 498-AH-2
498-AH-2O2	0	beige duct mastic	See Sketch 498-AH-2
498-AH-2O3	0	beige duct mastic	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2O Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-121	498-AH-2O1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-122	498-AH-2O2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-123	498-AH-2O3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2P	pink fiberglass ceiling batting	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-2P

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

pink fiberglass ceiling batting

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
Visible	**Reachable**	**Texture**
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
Air Movement	**Proximity to Repair Items**	**Activity**

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2Q	gray flex duct	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2Q

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gray flex duct

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1	#2
Square Feet of Ceiling Materials	
Square Feet of Wall Materials	
Square Feet of Floor Surface	
Linear Feet of TSI	
Square Feet of Structural Steel Coatings (including over-spray)	
Square Feet of Other ACM	
Linear Feet of Other ACM	
Total square and/or linear feet of ACM in this Sample Space:	

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
Visible	Reachable	Texture
Barriers	Ventilation / If Yes	Friable Surface
Air Movement	Proximity to Repair Items	Activity

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2R	black paper at ceiling deck	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2R

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black paper at ceiling deck

above dropped ceiling

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2R1, 498-AH-2R2, 498-AH-2R3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2R	black paper at ceiling deck

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2R1	0	black paper at ceiling deck	See Sketch 498-AH-2
498-AH-2R2	0	black paper at ceiling deck	See Sketch 498-AH-2
498-AH-2R3	0	black paper at ceiling deck	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2R Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-124	498-AH-2R1	black	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-125	498-AH-2R2	black	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-126	498-AH-2R3	black	Yes	No	-	cellulose	misc. part.	
					-	30	70	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2S	4" tan covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2S

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" tan covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2S1, 498-AH-2S2, 498-AH-2S3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2S	4" tan covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2S1	0	4" tan covebase	See Sketch 498-AH-2
498-AH-2S2	0	4" tan covebase	See Sketch 498-AH-2
498-AH-2S3	0	4" tan covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2S Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-127	498-AH-2S1	tan	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-128	498-AH-2S2	tan	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-129	498-AH-2S3	tan	Yes	No	-	-	misc. part.	
					-	-	100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2T	brown adhesive under 4" tan covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2T

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Unified Sample Area/Homogeneous Material

brown adhesive under 4" tan covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2T1, 498-AH-2T2, 498-AH-2T3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2T	brown adhesive under 4" tan covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2T1	0	brown adhesive under 4" tan covebase	See Sketch 498-AH-2
498-AH-2T2	0	brown adhesive under 4" tan covebase	See Sketch 498-AH-2
498-AH-2T3	0	brown adhesive under 4" tan covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2T Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-130	498-AH-2T1	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-131	498-AH-2T2	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-132	498-AH-2T3	brown	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2U	gray grout	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2U

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gray grout

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2U1, 498-AH-2U2, 498-AH-2U3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2U	gray grout

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2U1	0	gray grout	See Sketch 498-AH-2
498-AH-2U2	0	gray grout	See Sketch 498-AH-2
498-AH-2U3	0	gray grout	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2U Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-133	498-AH-2U1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-134	498-AH-2U2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-135	498-AH-2U3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2V	white caulking at plumbing fixture	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2V

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white caulking at plumbing fixture

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2V1, 498-AH-2V2, 498-AH-2V3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2V	white caulking at plumbing fixture

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2V1	0	white caulking at plumbing fixture	See Sketch 498-AH-2
498-AH-2V2	0	white caulking at plumbing fixture	See Sketch 498-AH-2
498-AH-2V3	0	white caulking at plumbing fixture	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2V Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-136	498-AH-2V1	white	Yes	No	- -	- -	misc. part. 100	
498/AH-137	498-AH-2V2	white	Yes	No	- -	- -	misc. part. 100	
498/AH-138	498-AH-2V3	white	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2W	2' x 4' white fissured pinhole acoustical ceiling tile	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2W

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

2' x 4' white fissured pinhole acoustical ceiling tile

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2W1, 498-AH-2W2, 498-AH-2W3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2W	2' x 4' white fissured pinhole acoustical ceiling tile

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2W1	0	2' x 4' white fissured pinhole acoustical ceiling tile	See Sketch 498-AH-2
498-AH-2W2	0	2' x 4' white fissured pinhole acoustical ceiling tile	See Sketch 498-AH-2
498-AH-2W3	0	2' x 4' white fissured pinhole acoustical ceiling tile	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2W Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-139	498-AH-2W1	white	Yes	No	-	cellulose, mineral	misc. part.	
					-	60	40	
498/AH-140	498-AH-2W2	white	Yes	No	-	cellulose, mineral	misc. part.	
					-	60	40	
498/AH-141	498-AH-2W3	white	Yes	No	-	cellulose, mineral	misc. part.	
					-	60	40	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2X	12" x 12" beige w/gray streaks VFT	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-2X

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

12" x 12" beige w/gray streaks VFT

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

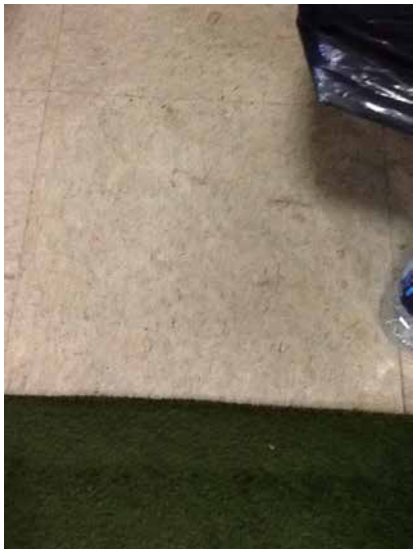
RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2X1, 498-AH-2X2, 498-AH-2X3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH



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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2X	12" x 12" beige w/gray streaks VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2X1	0	12" x 12" beige w/gray streaks VFT	See Sketch 498-AH-2
498-AH-2X2	0	12" x 12" beige w/gray streaks VFT	See Sketch 498-AH-2
498-AH-2X3	0	12" x 12" beige w/gray streaks VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2X Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-142	498-AH-2X1	beige w/ gray streaks	Yes	No	- -	- -	misc. part. 100	
498/AH-143	498-AH-2X2	beige w/ gray streaks	Yes	No	- -	- -	misc. part. 100	
498/AH-144	498-AH-2X3	beige w/ gray streaks	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2Y	beige adhesive under 12" x 12" beige w/gray streaks VFT	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2Y

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige adhesive under 12" x 12" beige w/gray streaks VFT

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2Y1, 498-AH-2Y2, 498-AH-2Y3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2Y	beige adhesive under 12" x 12" beige w/gray streaks VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2Y1	0	beige adhesive under 12" x 12" beige w/gray streaks VFT	See Sketch 498-AH-2
498-AH-2Y2	0	beige adhesive under 12" x 12" beige w/gray streaks VFT	See Sketch 498-AH-2
498-AH-2Y3	0	beige adhesive under 12" x 12" beige w/gray streaks VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2Y Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-145	498-AH-2Y1	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-146	498-AH-2Y2	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-147	498-AH-2Y3	yellow	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2Z	9" x 9" brown vft	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2Z

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

9" x 9" brown vft

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2Z1, 498-AH-2Z2, 498-AH-2Z3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2Z	9" x 9" brown vft

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2Z1	0	9" x 9" brown vft	See Sketch 498-AH-2
498-AH-2Z2	0	9" x 9" brown vft	See Sketch 498-AH-2
498-AH-2Z3	0	9" x 9" brown vft	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2Z Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-148	498-AH-2Z1	brown	Yes	No	-	cellulose	misc. part.	
					-	15	85	
498/AH-149	498-AH-2Z2	brown	Yes	No	-	cellulose	misc. part.	
					-	15	85	
498/AH-150	498-AH-2Z3	brown	Yes	No	-	cellulose	misc. part.	
					-	15	85	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2AA	yellow adhesive under 9" x 9" brown vft	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2AA

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

yellow adhesive under 9" x 9" brown vft

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2AA1, 498-AH-2AA2, 498-AH-2AA3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2AA	yellow adhesive under 9" x 9" brown vft

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2AA1	0	yellow adhesive under 9" x 9" brown vft	See Sketch 498-AH-2
498-AH-2AA2	0	yellow adhesive under 9" x 9" brown vft	See Sketch 498-AH-2
498-AH-2AA3	0	yellow adhesive under 9" x 9" brown vft	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2AA Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-151	498-AH-2AA1	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-152	498-AH-2AA2	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-153	498-AH-2AA3	yellow	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2BB	9" x 9" dark green VFT	Unified Sample Area Number
	Drawing/Sketch Number		
	498-AH-2	498-AH-2	498-AH-2BB

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

9" x 9" dark green VFT

Location of Confirmed, Assumed, or New ACM within Building

See Sketch 498-AH-2

beneath carpet in Rooms 217, 218 (adj. to 217), 218 (adj. to 224), 220, 221, 223, 224, 225, 226, 238, 239, and 242, forms checkerboard pattern with 9" x 9" green VFT

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface	1200		
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±1200		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	Moderate	None
Visible	**Reachable**	**Texture**
None visible	Within reach	smooth

Barriers	Ventilation	If Yes	Friable Surface	
Enclosed	Yes	Both	No	Category I

Air Movement	Proximity to Repair Items	Activity
Low	Less than 1 ft.	High

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2BB1, 498-AH-2BB2, 498-AH-2BB3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**YES**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2BB	9" x 9" dark green VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2BB1	4	9" x 9" dark green VFT	See Sketch 498-AH-2
498-AH-2BB2	3	9" x 9" dark green VFT	See Sketch 498-AH-2
498-AH-2BB3	3	9" x 9" dark green VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2BB Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-154	498-AH-2BB1	green	Yes	Yes	chrysotile 4	- -	misc. part. 96	
498/AH-155	498-AH-2BB2	green	Yes	Yes	chrysotile 3	- -	misc. part. 97	
498/AH-156	498-AH-2BB3	green	Yes	Yes	chrysotile 3	- -	misc. part. 97	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2CC	black mastic under 9" x 9" dark green VFT	Unified Sample Area Number
	Drawing/Sketch Number		
	498-AH-2	498-AH-2	498-AH-2CC

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black mastic under 9" x 9" dark green VFT

Location of Confirmed, Assumed, or New ACM within Building

See Sketch 498-AH-2

beneath carpet in Rooms 217, 218 (adj. to 217), 218 (adj. to 224), 220, 221, 223, 224, 225, 226, 238, 239, and 242, forms checkerboard pattern with 9" x 9" green VFT

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface	1200		
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:	±1200		

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
None	Moderate	None
Visible	**Reachable**	**Texture**
None visible	Within reach	smooth

Barriers	Ventilation	If Yes	Friable Surface	
Enclosed	Yes	Both	No	Category I

Air Movement	Proximity to Repair Items	Activity
Low	Less than 1 ft.	High

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2CC1, 498-AH-2CC2, 498-AH-2CC3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**YES**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2CC	black mastic under 9" x 9" dark green VFT

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2CC1	2	black mastic under 9" x 9" dark green VFT	See Sketch 498-AH-2
498-AH-2CC2	2	black mastic under 9" x 9" dark green VFT	See Sketch 498-AH-2
498-AH-2CC3	2	black mastic under 9" x 9" dark green VFT	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2CC Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-157	498-AH-2CC1	black	Yes	Yes	chrysotile 2	synthetic 1	misc. part. 97	
498/AH-158	498-AH-2CC2	black	Yes	Yes	chrysotile 2	synthetic 1	misc. part. 97	
498/AH-159	498-AH-2CC3	black	Yes	Yes	chrysotile 2	synthetic 1	misc. part. 97	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2DD	yellow carpet adhesive	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2DD

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

yellow carpet adhesive

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2DD1, 498-AH-2DD2, 498-AH-2DD3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2DD	yellow carpet adhesive

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2DD1	0	yellow carpet adhesive	See Sketch 498-AH-2
498-AH-2DD2	0	yellow carpet adhesive	See Sketch 498-AH-2
498-AH-2DD3	0	yellow carpet adhesive	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2DD Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-160	498-AH-2DD1	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-161	498-AH-2DD2	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-162	498-AH-2DD3	yellow	Yes	No	- -	- -	misc. part. 100	

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State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2EE(L1)	4" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2EE(L1)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

wrap layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2EE(L1)1, 498-AH-2EE(L1)2, 498-AH-2EE(L1)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2EE(L1)	4" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2EE(L1)1	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-2
498-AH-2EE(L1)2	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-2
498-AH-2EE(L1)3	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.
Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE
Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2EE(L1) Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-163	498-AH-2EE(L1)1	white	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-164	498-AH-2EE(L1)2	white	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-165	498-AH-2EE(L1)3	white	Yes	No	-	cellulose	misc. part.	
					-	30	70	

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Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2EE(L2)	4" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2EE(L2)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

insulation layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2EE(L2)1, 498-AH-2EE(L2)2, 498-AH-2EE(L2)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2EE(L2)	4" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2EE(L2)1	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-2
498-AH-2EE(L2)2	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-2
498-AH-2EE(L2)3	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2EE(L2) Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-166	498-AH-2EE(L2)1	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-167	498-AH-2EE(L2)2	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-168	498-AH-2EE(L2)3	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2FF	brown carpet adhesive	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2FF

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

brown carpet adhesive

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2FF1, 498-AH-2FF2, 498-AH-2FF3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2FF	brown carpet adhesive

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2FF1	0	brown carpet adhesive	See Sketch 498-AH-2
498-AH-2FF2	0	brown carpet adhesive	See Sketch 498-AH-2
498-AH-2FF3	0	brown carpet adhesive	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2FF Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-169	498-AH-2FF1	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-170	498-AH-2FF2	brown	Yes	No	- -	- -	misc. part. 100	
498/AH-171	498-AH-2FF3	brown	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2GG	plaster wall system (newer)	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2GG

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

plaster wall system (newer)

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

mail room

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2GG1, 498-AH-2GG2, 498-AH -2GG3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2GG	plaster wall system (newer)

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2GG1	0	plaster wall system (newer)	See Sketch 498-AH-2
498-AH-2GG2	0	plaster wall system (newer)	See Sketch 498-AH-2
498-AH-2GG3	0	plaster wall system (newer)	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2GG Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-172	498-AH-2GG1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-173	498-AH-2GG2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-174	498-AH-2GG3	gray	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2HH	gypsum wallboard/mudjoint wall and ceiling system	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-2HH

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gypsum wallboard/mudjoint wall and ceiling system

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2HH1, 498-AH-2HH2, 498-AH-2HH3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name

AH	ALI'IOLANI HALE

EMET ID

1511498

Sample Area/Lot Number and Name

498-AH-2HH	gypsum wallboard/mudjoint wall and ceiling system

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2HH1	0	gypsum wallboard/mudjoint wall and ceiling system	See Sketch 498-AH-2
498-AH-2HH2	0	gypsum wallboard/mudjoint wall and ceiling system	See Sketch 498-AH-2
498-AH-2HH3	0	gypsum wallboard/mudjoint wall and ceiling system	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2HH Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-175	498-AH-2HH1	white	Yes	No	-	cellulose	misc. part.	
					-	9	91	
498/AH-176	498-AH-2HH2	white	Yes	No	-	cellulose	misc. part.	
					-	9	91	
498/AH-177	498-AH-2HH3	white	Yes	No	-	cellulose	misc. part.	
					-	9	91	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2II	4" gray covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2II

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" gray covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2II1, 498-AH-2II2, 498-AH-2II3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2II	4" gray covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2II1	0	4" gray covebase	See Sketch 498-AH-2
498-AH-2II2	0	4" gray covebase	See Sketch 498-AH-2
498-AH-2II3	0	4" gray covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2II Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-178	498-AH-2II1	gray	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-179	498-AH-2II2	gray	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-180	498-AH-2II3	gray	Yes	No	-	-	misc. part.	
					-	-	100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2JJ	beige adhesive under 4" gray covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2JJ

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige adhesive under 4" gray covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2JJ1, 498-AH-2JJ2, 498-AH-2JJ3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2JJ	beige adhesive under 4" gray covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2JJ1	0	beige adhesive under 4" gray covebase	See Sketch 498-AH-2
498-AH-2JJ2	0	beige adhesive under 4" gray covebase	See Sketch 498-AH-2
498-AH-2JJ3	0	beige adhesive under 4" gray covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2JJ Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-181	498-AH-2JJ1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-182	498-AH-2JJ2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-183	498-AH-2JJ3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2KK	black residual mastic on floor	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2KK

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black residual mastic on floor

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

207 hall closet

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2KK1, 498-AH-2KK2, 498-AH-2KK3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2KK	black residual mastic on floor

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2KK1	0	black residual mastic on floor	See Sketch 498-AH-2
498-AH-2KK2	0	black residual mastic on floor	See Sketch 498-AH-2
498-AH-2KK3	0	black residual mastic on floor	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2KK Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-184	498-AH-2KK1	black	Yes	No	- -	- -	misc. part. 100	
498/AH-185	498-AH-2KK2	black	Yes	No	- -	- -	misc. part. 100	
498/AH-186	498-AH-2KK3	black	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2LL	black vibration cloth	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2LL

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black vibration cloth

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2LL1, 498-AH-2LL2, 498-AH-2LL3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2LL	black vibration cloth

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2LL1	0	black vibration cloth	See Sketch 498-AH-2
498-AH-2LL2	0	black vibration cloth	See Sketch 498-AH-2
498-AH-2LL3	0	black vibration cloth	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2LL Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-187	498-AH-2LL1	black	Yes	No	-	synthetic	misc. part.	
					-	20	80	
498/AH-188	498-AH-2LL2	black	Yes	No	-	synthetic	misc. part.	
					-	20	80	
498/AH-189	498-AH-2LL3	black	Yes	No	-	synthetic	misc. part.	
					-	20	80	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	
	Material ID and Description		
Document Number	498-AH-2MM	brown fiberglass wall insulation	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2MM

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

brown fiberglass wall insulation

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

not suspect

SAMPLING STRATEGY DATA

Ceiling Height #1	#2
Square Feet of Ceiling Materials	
Square Feet of Wall Materials	
Square Feet of Floor Surface	
Linear Feet of TSI	
Square Feet of Structural Steel Coatings (including over-spray)	
Square Feet of Other ACM	
Linear Feet of Other ACM	
Total square and/or linear feet of ACM in this Sample Space:	

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
Visible	**Reachable**	**Texture**
Barriers	**Ventilation / If Yes**	**Friable Surface**
Air Movement	**Proximity to Repair Items**	**Activity**

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2NN	white leveling compound	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2NN

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white leveling compound

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2NN1, 498-AH-2NN2, 498-AH-2NN3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2NN	white leveling compound

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2NN1	0	white leveling compound	See Sketch 498-AH-2
498-AH-2NN2	0	white leveling compound	See Sketch 498-AH-2
498-AH-2NN3	0	white leveling compound	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2NN Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-190	498-AH-2NN1	white	Yes	No	- -	- -	misc. part. 100	
498/AH-191	498-AH-2NN2	white	Yes	No	- -	- -	misc. part. 100	
498/AH-192	498-AH-2NN3	white	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2OO	black adhesive under white leveling compound	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2OO

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black adhesive under white leveling compound

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2OO1, 498-AH-2OO2, 498-AH -2OO3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2OO	black adhesive under white leveling compound

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2OO1	0	black adhesive under white leveling compound	See Sketch 498-AH-2
498-AH-2OO2	0	black adhesive under white leveling compound	See Sketch 498-AH-2
498-AH-2OO3	0	black adhesive under white leveling compound	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2OO Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-193	498-AH-2OO1	black	Yes	No	- -	- -	misc. part. 100	
498/AH-194	498-AH-2OO2	black	Yes	No	- -	- -	misc. part. 100	
498/AH-195	498-AH-2OO3	black	Yes	No	- -	- -	misc. part. 100	

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Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2PP	12" x 12" gray vft	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2PP

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

12" x 12" gray vft

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2PP1, 498-AH-2PP2, 498-AH-2PP3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2PP	12" x 12" gray vft

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2PP1	0	12" x 12" gray vft	See Sketch 498-AH-2
498-AH-2PP2	0	12" x 12" gray vft	See Sketch 498-AH-2
498-AH-2PP3	0	12" x 12" gray vft	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2PP Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-196	498-AH-2PP1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-197	498-AH-2PP2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-198	498-AH-2PP3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2QQ	yellow adhesive under 12" x 12" gray vft	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2QQ

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

yellow adhesive under 12" x 12" gray vft

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2QQ1, 498-AH-2QQ2, 498-AH -2QQ3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2QQ	yellow adhesive under 12" x 12" gray vft

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2QQ1	0	yellow adhesive under 12" x 12" gray vft	See Sketch 498-AH-2
498-AH-2QQ2	0	yellow adhesive under 12" x 12" gray vft	See Sketch 498-AH-2
498-AH-2QQ3	0	yellow adhesive under 12" x 12" gray vft	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2QQ Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-199	498-AH-2QQ1	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-200	498-AH-2QQ2	yellow	Yes	No	- -	- -	misc. part. 100	
498/AH-201	498-AH-2QQ3	yellow	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2RR	4" dark gray covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2RR

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" dark gray covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2RR1, 498-AH-2RR2, 498-AH-2RR3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2RR	4" dark gray covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2RR1	0	4" dark gray covebase	See Sketch 498-AH-2
498-AH-2RR2	0	4" dark gray covebase	See Sketch 498-AH-2
498-AH-2RR3	0	4" dark gray covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2RR Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-202	498-AH-2RR1	dk gray	Yes	No	- -	- -	misc. part. 100	
498/AH-203	498-AH-2RR2	dk gray	Yes	No	- -	- -	misc. part. 100	
498/AH-204	498-AH-2RR3	dk gray	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2SS	beige adhesive under 4" dark gray covebase	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2SS

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige adhesive under 4" dark gray covebase

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2SS1, 498-AH-2SS2, 498-AH-2SS3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2SS	beige adhesive under 4" dark gray covebase

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2SS1	0	beige adhesive under 4" dark gray covebase	See Sketch 498-AH-2
498-AH-2SS2	0	beige adhesive under 4" dark gray covebase	See Sketch 498-AH-2
498-AH-2SS3	0	beige adhesive under 4" dark gray covebase	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2SS Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-205	498-AH-2SS1	beige	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-206	498-AH-2SS2	beige	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-207	498-AH-2SS3	beige	Yes	No	-	-	misc. part.	
					-	-	100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-2TT	beige caulking at ceiling penetration	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-2TT

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige caulking at ceiling penetration

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-2TT1, 498-AH-2TT2, 498-AH-2TT3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-2TT	beige caulking at ceiling penetration

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-2TT1	0	beige caulking at ceiling penetration	See Sketch 498-AH-2
498-AH-2TT2	0	beige caulking at ceiling penetration	See Sketch 498-AH-2
498-AH-2TT3	0	beige caulking at ceiling penetration	See Sketch 498-AH-2

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-2TT Analysis Date: 12/14/2016 Report Date: 12/14/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-208	498-AH-2TT1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-209	498-AH-2TT2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-210	498-AH-2TT3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH	ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-B

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-BA(L1)	3" O. D. white wrap/yellow insulation TSI		YES	NO ACM						
498-AH-BA(L2)	3" O. D. white wrap/yellow insulation TSI		YES	NO ACM						
498-AH-BB	black vibration cloth		YES	NO ACM						
498-AH-BC	beige duct mastic		YES	NO ACM						
498-AH-BD	black foam rubber insulation	not suspect	NO							
498-AH-BE	white caulking at window frame		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-BA(L1)	3" O. D. white wrap/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-BA(L1)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

3" O. D. white wrap/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

wrap layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

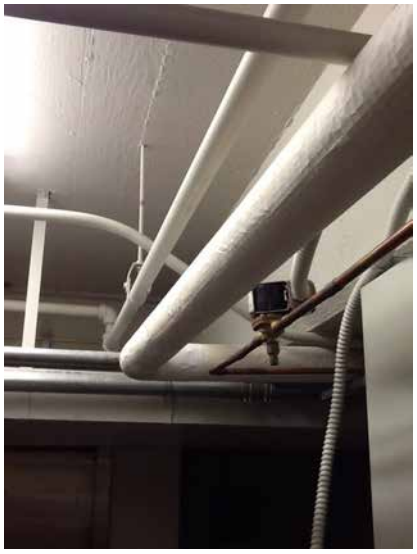
Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-BA(L1)1, 498-AH-BA(L1)2, 498-AH-BA(L1)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH



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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-BA(L1)	3" O. D. white wrap/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-BA(L1)1	0	3" O. D. white wrap/yellow insulation TSI	See Sketch 498-AH-B
498-AH-BA(L1)2	0	3" O. D. white wrap/yellow insulation TSI	See Sketch 498-AH-B
498-AH-BA(L1)3	0	3" O. D. white wrap/yellow insulation TSI	See Sketch 498-AH-B

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-BA(L1) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-211	498-AH-BA(L1)1	white	Yes	No	-	cellulose	misc. part.	
					-	25	75	
498/AH-212	498-AH-BA(L1)2	white	Yes	No	-	cellulose	misc. part.	
					-	25	75	
498/AH-213	498-AH-BA(L1)3	white	Yes	No	-	cellulose	misc. part.	
					-	25	75	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-BA(L2)	3" O. D. white wrap/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-BA(L2)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

3" O. D. white wrap/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

insulation layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

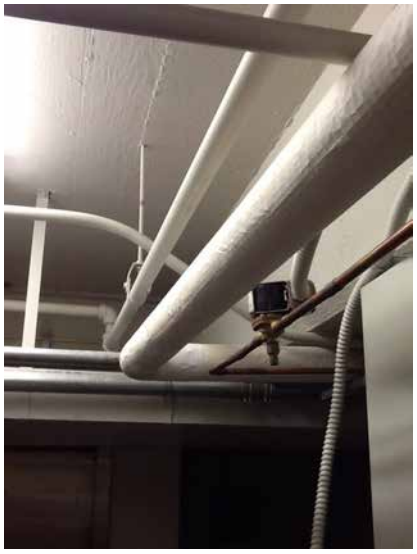
Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-BA(L2)1, 498-AH-BA(L2)2, 498-AH-BA(L2)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH



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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-BA(L2)	3" O. D. white wrap/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-BA(L2)1	0	3" O. D. white wrap/yellow insulation TSI	See Sketch 498-AH-B
498-AH-BA(L2)2	0	3" O. D. white wrap/yellow insulation TSI	See Sketch 498-AH-B
498-AH-BA(L2)3	0	3" O. D. white wrap/yellow insulation TSI	See Sketch 498-AH-B

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-BA(L2) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-214	498-AH-BA(L2)1	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-215	498-AH-BA(L2)2	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-216	498-AH-BA(L2)3	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-BB	black vibration cloth	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-BB

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black vibration cloth

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-BB1, 498-AH-BB2, 498-AH-BB3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-BB	black vibration cloth

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-BB1	0	black vibration cloth	See Sketch 498-AH-B
498-AH-BB2	0	black vibration cloth	See Sketch 498-AH-B
498-AH-BB3	0	black vibration cloth	See Sketch 498-AH-B

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-BB Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-217	498-AH-BB1	black	Yes	No	-	synthetic	misc. part.	
					-	40	60	
498/AH-218	498-AH-BB2	black	Yes	No	-	synthetic	misc. part.	
					-	40	60	
498/AH-219	498-AH-BB3	black	Yes	No	-	synthetic	misc. part.	
					-	40	60	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-BC	beige duct mastic	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-BC

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige duct mastic

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-BC1, 498-AH-BC2, 498-AH-BC3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-BC	beige duct mastic

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-BC1	0	beige duct mastic	See Sketch 498-AH-B
498-AH-BC2	0	beige duct mastic	See Sketch 498-AH-B
498-AH-BC3	0	beige duct mastic	See Sketch 498-AH-B

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-BC Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-220	498-AH-BC1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-221	498-AH-BC2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-222	498-AH-BC3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	
	Material ID and Description		
Document Number	498-AH-BD	black foam rubber insulation	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-BD

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black foam rubber insulation

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

not suspect

SAMPLING STRATEGY DATA

Ceiling Height #1	#2
Square Feet of Ceiling Materials	
Square Feet of Wall Materials	
Square Feet of Floor Surface	
Linear Feet of TSI	
Square Feet of Structural Steel Coatings (including over-spray)	
Square Feet of Other ACM	
Linear Feet of Other ACM	
Total square and/or linear feet of ACM in this Sample Space:	

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
Visible	**Reachable**	**Texture**
Barriers	**Ventilation / If Yes**	**Friable Surface**
Air Movement	**Proximity to Repair Items**	**Activity**

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-BE	white caulking at window frame	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-BE

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white caulking at window frame

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-BE1, 498-AH-BE2, 498-AH-BE3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-BE	white caulking at window frame

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-BE1	0	white caulking at window frame	See Sketch 498-AH-B
498-AH-BE2	0	white caulking at window frame	See Sketch 498-AH-B
498-AH-BE3	0	white caulking at window frame	See Sketch 498-AH-B

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-BE Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-223	498-AH-BE1	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-224	498-AH-BE2	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-225	498-AH-BE3	white	Yes	No	-	-	misc. part.	
					-	-	100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-R

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-RA	plaster wall		YES	NO ACM						
498-AH-RB	gypsum wallboard/mudjoint wall system		YES	NO ACM						
498-AH-RC	black felt paper		YES	NO ACM						
498-AH-RD	black mastic on wall		YES	NO ACM						
498-AH-RE	beige mastic on wall		YES	NO ACM						
498-AH-RF	black floor coating		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-R

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-RG	beige patch/sealant		YES	NO ACM						
498-AH-RH	gray caulking at duct seams		YES	NO ACM						
498-AH-RI(L1)	4" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						
498-AH-RI(L2)	4" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						
498-AH-RJ	beige vibration cloth		YES	NO ACM						
498-AH-RK(L1)	6" O. D. white wrap w/ black insulation TSI		YES	NO ACM						

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name

AH ALI'IOLANI HALE

For the ACM - Space Identified as:

498-AH-R

Building Location

417 South King Street
Honolulu, HI 96813

EMET ID

1511498

Inspection Date(s): 12/5/2016, 12/6/2016, 12/8/2016

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present			Material Type*			Response Action	Estimated Cost to Remove
			Suspected	Confirmed	Friable	T	DC	PD		
498-AH-RK(L2)	6" O. D. white wrap w/ black insulation TSI		YES	NO ACM						
498-AH-RL	white caulking at duct seams		YES	NO ACM						
498-AH-RM(L1)	6" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						
498-AH-RM(L2)	6" O. D. white wrap w/yellow insulation TSI		YES	NO ACM						
498-AH-RN	black foam rubber insulation	not suspect	NO							

*** Refers to Material Type and Damage Conditions**

T = Material Type:	DC = Damage Condition:	PD = Potential Damage Condition:
S = Surfacing	ND = No Damage	NPD = No Potential Damage
M = Miscellaneous	D = Damaged	PD = ACBM w/ Potential Damage
T = Thermal Systems	SD = Significant Damage	PSD = Potential Significant Damage

**** Recommended Response Actions:**

1. Isolate area and restrict access. Remove or repair ASAP.
2. Continue Operations and Maintenance (O&M) program. Remove or repair ASAP or reduce potential for disturbance.

3-5. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

6-7. Continue O&M. Take preventive measures to reduce disturbance. Number indicates priority for removal.

8. Continue O&M until major renovation or demolition requires removal under NESHAPS, or until hazard assessment factors change.

Note: An O&M program may include enclosure and encapsulation.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RA	plaster wall	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RA

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

plaster wall

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RA1, 498-AH-RA2, 498-AH-RA3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RA	plaster wall

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RA1	0	plaster wall	See Sketch 498-AH-R
498-AH-RA2	0	plaster wall	See Sketch 498-AH-R
498-AH-RA3	0	plaster wall	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RA Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-226	498-AH-RA1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-227	498-AH-RA2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-228	498-AH-RA3	gray	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RB	gypsum wallboard/mudjoint wall system	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RB

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

gypsum wallboard/mudjoint wall system

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RB1, 498-AH-RB2, 498-AH-RB3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RB	gypsum wallboard/mudjoint wall system

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RB1	0	gypsum wallboard/mudjoint wall system	See Sketch 498-AH-R
498-AH-RB2	0	gypsum wallboard/mudjoint wall system	See Sketch 498-AH-R
498-AH-RB3	0	gypsum wallboard/mudjoint wall system	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RB Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-229	498-AH-RB1	white	Yes	No	-	cellulose	misc. part.	
					-	10	90	
498/AH-230	498-AH-RB2	white	Yes	No	-	cellulose	misc. part.	
					-	10	90	
498/AH-231	498-AH-RB3	white	Yes	No	-	cellulose	misc. part.	
					-	10	90	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RC	black felt paper	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RC

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Unified Sample Area/Homogeneous Material

black felt paper

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RC1, 498-AH-RC2, 498-AH-RC3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RC	black felt paper

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RC1	0	black felt paper	See Sketch 498-AH-R
498-AH-RC2	0	black felt paper	See Sketch 498-AH-R
498-AH-RC3	0	black felt paper	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RC Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-232	498-AH-RC1	black	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-233	498-AH-RC2	black	Yes	No	-	cellulose	misc. part.	
					-	30	70	
498/AH-234	498-AH-RC3	black	Yes	No	-	cellulose	misc. part.	
					-	30	70	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RD	black mastic on wall	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RD

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black mastic on wall

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RD1, 498-AH-RD2, 498-AH-RD3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RD	black mastic on wall

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RD1	0	black mastic on wall	See Sketch 498-AH-R
498-AH-RD2	0	black mastic on wall	See Sketch 498-AH-R
498-AH-RD3	0	black mastic on wall	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RD Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-235	498-AH-RD1	black	Yes	No	-	fibrous glass	misc. part.	
					-	1	99	
498/AH-236	498-AH-RD2	black	Yes	No	-	fibrous glass	misc. part.	
					-	1	99	
498/AH-237	498-AH-RD3	black	Yes	No	-	fibrous glass	misc. part.	
					-	1	99	

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Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RE	beige mastic on wall	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RE

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige mastic on wall

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RE1, 498-AH-RE2, 498-AH-RE3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RE	beige mastic on wall

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RE1	0	beige mastic on wall	See Sketch 498-AH-R
498-AH-RE2	0	beige mastic on wall	See Sketch 498-AH-R
498-AH-RE3	0	beige mastic on wall	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RE Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-238	498-AH-RE1	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-239	498-AH-RE2	beige	Yes	No	- -	- -	misc. part. 100	
498/AH-240	498-AH-RE3	beige	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RF	black floor coating	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RF

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black floor coating

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RF1, 498-AH-RF2, 498-AH-RF3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RF	black floor coating

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RF1	0	black floor coating	See Sketch 498-AH-R
498-AH-RF2	0	black floor coating	See Sketch 498-AH-R
498-AH-RF3	0	black floor coating	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RF Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-241	498-AH-RF1	black	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-242	498-AH-RF2	black	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-243	498-AH-RF3	black	Yes	No	-	-	misc. part.	
					-	-	100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RG	beige patch/sealant	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RG

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Unified Sample Area/Homogeneous Material

beige patch/sealant

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RG1, 498-AH-RG2, 498-AH-RG3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RG	beige patch/sealant

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RG1	0	beige patch/sealant	See Sketch 498-AH-R
498-AH-RG2	0	beige patch/sealant	See Sketch 498-AH-R
498-AH-RG3	0	beige patch/sealant	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RG Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-244	498-AH-RG1	beige	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-245	498-AH-RG2	beige	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-246	498-AH-RG3	beige	Yes	No	-	-	misc. part.	
					-	-	100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RH	gray caulking at duct seams	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RH

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Unified Sample Area/Homogeneous Material

gray caulking at duct seams

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RH1, 498-AH-RH2, 498-AH-RH3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RH	gray caulking at duct seams

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RH1	0	gray caulking at duct seams	See Sketch 498-AH-R
498-AH-RH2	0	gray caulking at duct seams	See Sketch 498-AH-R
498-AH-RH3	0	gray caulking at duct seams	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RH Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-247	498-AH-RH1	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-248	498-AH-RH2	gray	Yes	No	- -	- -	misc. part. 100	
498/AH-249	498-AH-RH3	gray	Yes	No	- -	- -	misc. part. 100	

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RI(L1)	4" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RI(L1)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RI(L1)1, 498-AH-RI(L1)2, 498-AH-RI (L1)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RI(L1)	4" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RI(L1)1	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RI(L1)2	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RI(L1)3	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RI(L1) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-250	498-AH-RI(L1)1	white	Yes	No	-	cellulose	misc. part.	
					-	40	60	
498/AH-251	498-AH-RI(L1)2	white	Yes	No	-	cellulose	misc. part.	
					-	40	60	
498/AH-252	498-AH-RI(L1)3	white	Yes	No	-	cellulose	misc. part.	
					-	40	60	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RI(L2)	4" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RI(L2)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

4" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RI(L2)1, 498-AH-RI(L2)2, 498-AH-RI (L2)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RI(L2)	4" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RI(L2)1	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RI(L2)2	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RI(L2)3	0	4" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.
Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE
Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RI(L2) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-253	498-AH-RI(L2)1	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-254	498-AH-RI(L2)2	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-255	498-AH-RI(L2)3	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RJ	beige vibration cloth	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RJ

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

beige vibration cloth

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
- -	- - / - -	- - / - -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RJ1, 498-AH-RJ2, 498-AH-RJ3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RJ	beige vibration cloth

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RJ1	0	beige vibration cloth	See Sketch 498-AH-R
498-AH-RJ2	0	beige vibration cloth	See Sketch 498-AH-R
498-AH-RJ3	0	beige vibration cloth	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RJ Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-256	498-AH-RJ1	beige	Yes	No	-	synthetic	misc. part.	
					-	25	75	
498/AH-257	498-AH-RJ2	beige	Yes	No	-	synthetic	misc. part.	
					-	25	75	
498/AH-258	498-AH-RJ3	beige	Yes	No	-	synthetic	misc. part.	
					-	25	75	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RK(L1)	6" O. D. white wrap w/ black insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-RK(L1)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

6" O. D. white wrap w/ black insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

wrap layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RK(L1)1, 498-AH-RK(L1)2, 498-AH-RK(L1)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RK(L1)	6" O. D. white wrap w/ black insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RK(L1)1	0	6" O. D. white wrap w/ black insulation TSI	See Sketch 498-AH-R
498-AH-RK(L1)2	0	6" O. D. white wrap w/ black insulation TSI	See Sketch 498-AH-R
498-AH-RK(L1)3	0	6" O. D. white wrap w/ black insulation TSI	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RK(L1) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-259	498-AH-RK(L1)1	white	Yes	No	-	cellulose	misc. part.	
					-	25	75	
498/AH-260	498-AH-RK(L1)2	white	Yes	No	-	cellulose	misc. part.	
					-	25	75	
498/AH-261	498-AH-RK(L1)3	white	Yes	No	-	cellulose	misc. part.	
					-	25	75	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RK(L2)	6" O. D. white wrap w/ black insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RK(L2)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

6" O. D. white wrap w/ black insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

insulation layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**
- -	- -	- -
Friable Surface		
- -	- -	
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RK(L2)1, 498-AH-RK(L2)2, 498-AH-RK(L2)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RK(L2)	6" O. D. white wrap w/ black insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RK(L2)1	0	6" O. D. white wrap w/ black insulation TSI	See Sketch 498-AH-R
498-AH-RK(L2)2	0	6" O. D. white wrap w/ black insulation TSI	See Sketch 498-AH-R
498-AH-RK(L2)3	0	6" O. D. white wrap w/ black insulation TSI	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RK(L2) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-262	498-AH-RK(L2)1	black	Yes	No	- -	- -	misc. part. 100	
498/AH-263	498-AH-RK(L2)2	black	Yes	No	- -	- -	misc. part. 100	
498/AH-264	498-AH-RK(L2)3	black	Yes	No	- -	- -	misc. part. 100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
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*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RL	white caulking at duct seams	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RL

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

white caulking at duct seams

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -
Barriers	**Ventilation**	**If Yes**	**Friable Surface**	
- -	- -	- -	- -	- -
Air Movement	**Proximity to Repair Items**	**Activity**
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RL1, 498-AH-RL2, 498-AH-RL3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RL	white caulking at duct seams

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RL1	0	white caulking at duct seams	See Sketch 498-AH-R
498-AH-RL2	0	white caulking at duct seams	See Sketch 498-AH-R
498-AH-RL3	0	white caulking at duct seams	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RL Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-265	498-AH-RL1	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-266	498-AH-RL2	white	Yes	No	-	-	misc. part.	
					-	-	100	
498/AH-267	498-AH-RL3	white	Yes	No	-	-	misc. part.	
					-	-	100	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RM(L1)	6" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RM(L1)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

6" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

wrap layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RM(L1)1, 498-AH-RM(L1)2, 498-AH-RM(L1)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RM(L1)	6" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RM(L1)1	0	6" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RM(L1)2	0	6" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RM(L1)3	0	6" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP LAB CODE 101807-0

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RM(L1) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-268	498-AH-RM(L1)1	white	Yes	No	-	cellulose	misc. part.	
					-	40	60	
498/AH-269	498-AH-RM(L1)2	white	Yes	No	-	cellulose	misc. part.	
					-	40	60	
498/AH-270	498-AH-RM(L1)3	white	Yes	No	-	cellulose	misc. part.	
					-	40	60	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	12/5/2016
	Material ID and Description		
Document Number	498-AH-RM(L2)	6" O. D. white wrap w/yellow insulation TSI	Unified Sample Area Number
	Drawing/Sketch Number		
			498-AH-RM(L2)

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

6" O. D. white wrap w/yellow insulation TSI

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

insulation layer

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
- -	- -	- -
Visible	**Reachable**	**Texture**
- -	- -	- -

Barriers	Ventilation	If Yes	Friable Surface	
- -	- -	- -	- -	- -

Air Movement	Proximity to Repair Items	Activity
- -	- -	- -

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	498-AH-RM(L2)1, 498-AH-RM(L2)2, 498-AH-RM(L2)3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	**NO**
Number of Salient Designations:	

PHOTOGRAPH

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Sample Log and Notes

Building Number and Name		EMET ID
AH	ALI'IOLANI HALE	1511498

Sample Area/Lot Number and Name	
498-AH-RM(L2)	6" O. D. white wrap w/yellow insulation TSI

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
498-AH-RM(L2)1	0	6" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RM(L2)2	0	6" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R
498-AH-RM(L2)3	0	6" O. D. white wrap w/yellow insulation TSI	See Sketch 498-AH-R

Inspector's Name	Signature	Date Samples Collected
Stephen Kaneshiro		12/5/2016

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Phone (808) 671-8383 Fax (808) 671-7979

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LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with Test Methods EPA 600/M4-82-020 and EPA 600/9-93/116

NVLAP®

Client: RMA Architects, Inc.

Address: 1150 South King Street, 8th Floor
Honolulu, HI 96814

Building: ALI'IOLANI HALE

Address: 417 South King Street
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Approved Signatory:

Sample/Homogeneous Area: 498-AH-RM(L2) Analysis Date: 12/15/2016 Report Date: 12/15/2016

Lab ID	Sample ID	Color	Homogeneity	Asbestos Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
498/AH-271	498-AH-RM(L2)1	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-272	498-AH-RM(L2)2	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	
498/AH-273	498-AH-RM(L2)3	yellow	Yes	No	-	fibrous glass	-	
					-	100	-	

Accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope specific under Lab Code 101807-0.
State of Hawaii Asbestos Requirements mandates all samples to be collected by a certified Asbestos Inspector in accordance with § 11-501, 11-502, and 11-504. Results of samples collected by someone other than a certified Asbestos Inspector may be invalid.
Note: EPA, OSHA, and HIOSH define "asbestos-containing material" as any material or product which contains more than one percent asbestos.

*Laboratory test report may not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.
*Laboratory test report relates only to items tested.
*Asbestos fiber percentage is approximate - performed by visual observation only, unless otherwise indicated.

*This method is not reliable for analysis of tile or other materials when fiber size is less than 10 microns and/or below detection limit (appr. 1%) of current PLM techniques.
*Samples analyzed as received by the laboratory, interpretation is responsibility of the client.

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Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
1511498	AH	ALI'IOLANI HALE	
	Material ID and Description		
Document Number	498-AH-RN	black foam rubber insulation	Unified Sample Area Number
	Drawing/Sketch Number		498-AH-RN

A Sample Area should contain material of one, and only one, composition or matrix. An exception can be made in the case of layered applications of materials, such as occurs with a Three Coat Plaster system, that generally matches the same physical locations. Special care must be taken while collecting samples of layered materials, to enable the analysis to discern the several matrices present. Such conditions should be described in detail on the Sample Notes form for the analyst.

Unified Sample Area/Homogeneous Material

black foam rubber insulation

not suspect

Location of Confirmed, Assumed, or New ACM within Building

Not Applicable

SAMPLING STRATEGY DATA

Ceiling Height #1		#2	
Square Feet of Ceiling Materials			
Square Feet of Wall Materials			
Square Feet of Floor Surface			
Linear Feet of TSI			
Square Feet of Structural Steel Coatings (including over-spray)			
Square Feet of Other ACM			
Linear Feet of Other ACM			
Total square and/or linear feet of ACM in this Sample Space:			

RISK ASSESSMENT DETERMINATION

Physical Condition	Potential Damage	Water Damage
Visible	**Reachable**	**Texture**
Barriers	**Ventilation** / **If Yes**	**Friable Surface**
Air Movement	**Proximity to Repair Items**	**Activity**

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	
Samples Collected by	
Sample Numbers	
Total Number of Samples Analyzed	
Samples Analyzed by	
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH

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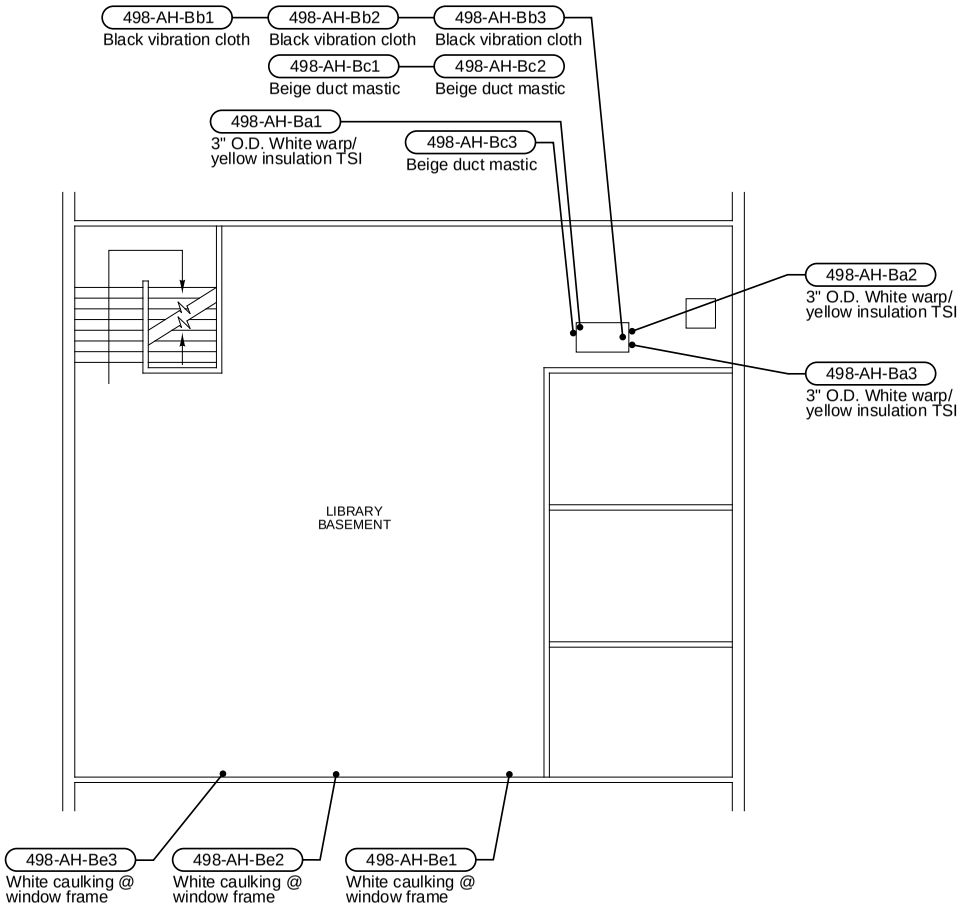
Appendix B

Asbestos Survey Sample Locations Sketch

EnvironMETeo (EMET) Services, Inc. Waipio Centry Business Park 94-520 Uke'e Street, Suite A Waipahu, Hawaii, USA 96797-4200
(808) 671-8383...Telephone (808) 671-7979...Facsimile

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF BUILDING	ADDRESS	SKETCH #
AH	ALIIOLANI HALE	417 SOUTH KING STREET HONOLULU, HI 96813	498-AH-B 1 OF 1



ALIIOLANI HALE - BASEMENT FLOOR PLAN
NOT TO SCALE

LEGEND

ACM: SAMPLE #

NON-ACM: SAMPLE #

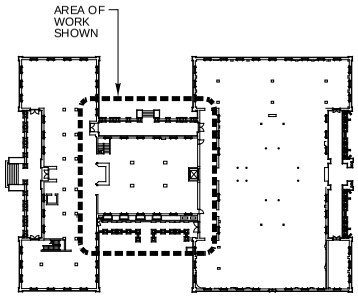
NORTH

ASBESTOS-CONTAINING MATERIALS (ACM)* :

NO ACM DETECTED IN AREAS SAMPLED

*ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1 % ASBESTOS.

THIS SURVEY WAS LIMITED IN SCOPE TO SPECIFIC AREAS AFFECTED BY PLANNED RENOVATION ACTIVITIES ONLY; THEREFORE, THIS REPORT MAKES NO WARRANTY FOR AREAS OF THE BUILDING WHICH WERE NOT INCLUDED IN THE SCOPE OF THE SURVEY.



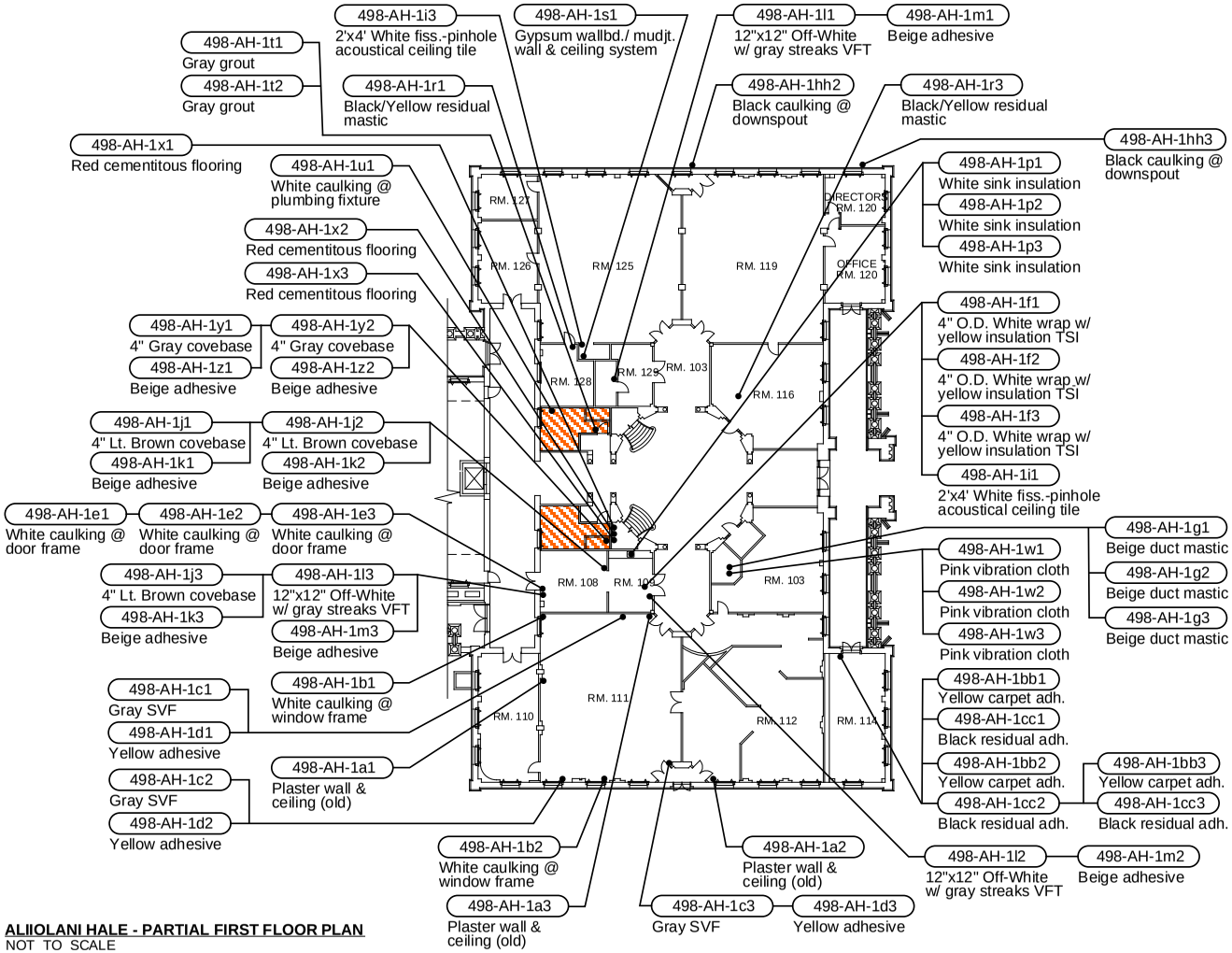
NORTH

KEY PLAN: ALIIOLANI HALE - BASEMENT FLOOR

EMET I.D. #1511498

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF BUILDING	ADDRESS	SKETCH #
AH	ALIIOLANI HALE	417 SOUTH KING STREET HONOLULU, HI 96813	498-AH-1 1 OF 2



ALIIOLANI HALE - PARTIAL FIRST FLOOR PLAN
NOT TO SCALE

LEGEND

ACM: SAMPLE #

NON-ACM: SAMPLE #

NORTH

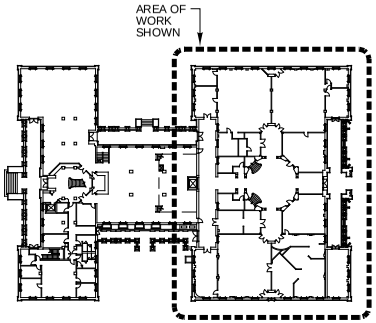
ASBESTOS-CONTAINING MATERIALS (ACM)* :

*ACM are described in this Legend in **boldface** text; Non-ACM (listed here only if layered with ACM) are described in plain text.

NOT SHOWN — **SAMPLE AREA 498-AH-1N: WHITE VIBRATION CLOTH (NO SAMPLES TAKEN DURING TIME OF SURVEY, INACCESSIBLE - ASSUMED ACM)**

SAMPLE AREA 498-AH-1V: WATERPROOFING MATERIAL (INACCESSIBLE WITHOUT CAUSING ANY COSMETIC DAMAGE, NO SAMPLES TAKEN DURING TIME OF SURVEY - ASSUMED ACM)

*ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1 % ASBESTOS.



NORTH

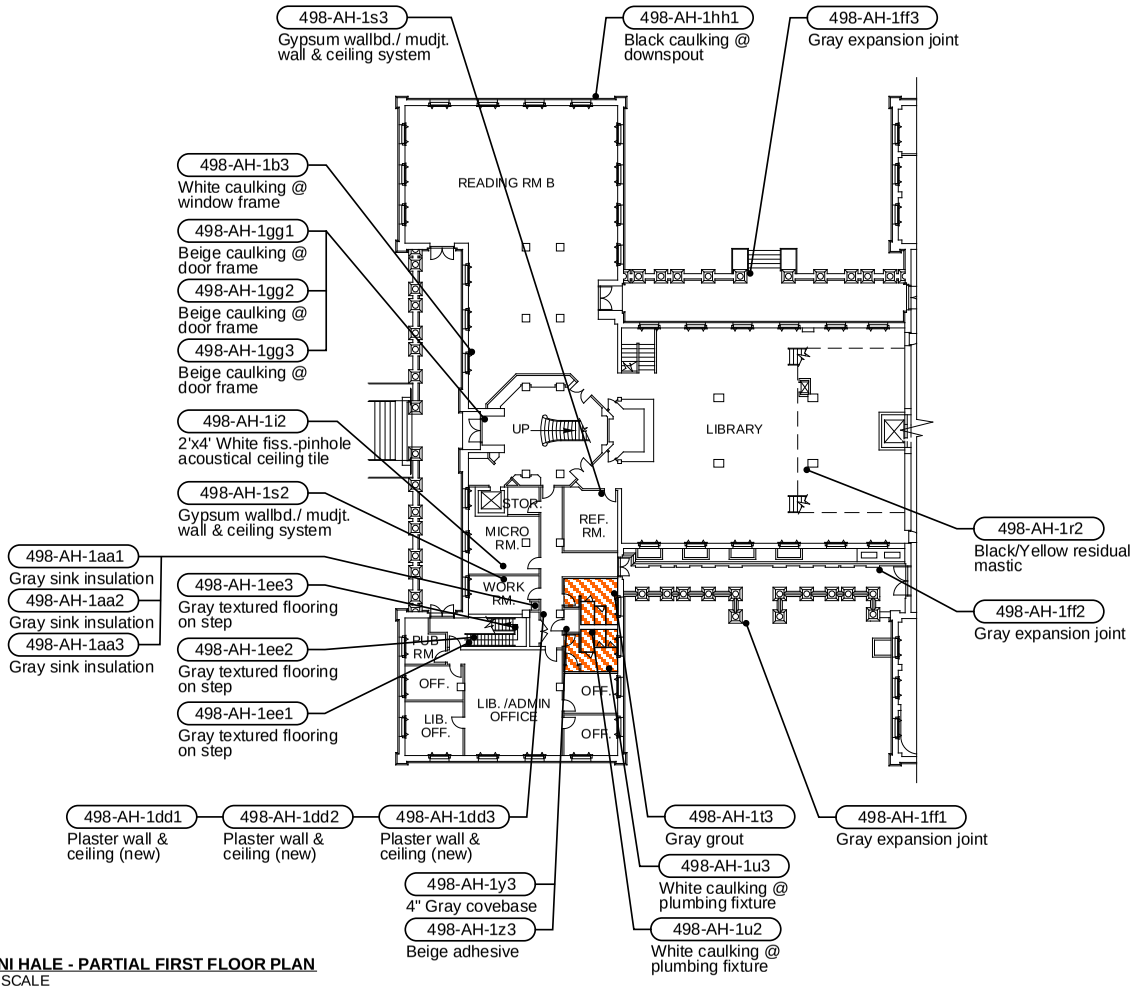
KEY PLAN: ALIIOLANI HALE - FIRST FLOOR

EMET I.D. #1511498

EnvironMETeo (EMET) Services, Inc. 94-520 Uke'e Street, Suite A Waipahu, Hawaii 96797 Phone: (808) 671-8383 Fax: (808) 671-7979

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF BUILDING	ADDRESS	SKETCH #
AH	ALIIOLANI HALE	417 SOUTH KING STREET HONOLULU, HI 96813	498-AH-1 2 OF 2



ALIIOLANI HALE - PARTIAL FIRST FLOOR PLAN
NOT TO SCALE

LEGEND

ACM: SAMPLE #

NON-ACM: SAMPLE #

NORTH

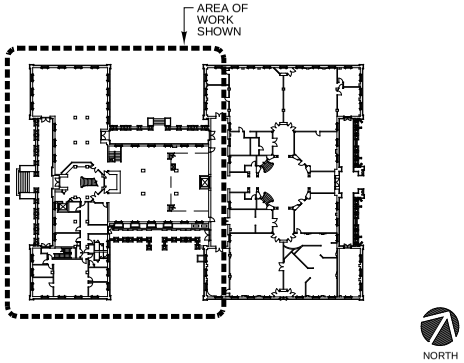
ASBESTOS-CONTAINING MATERIALS (ACM)* :

*ACM are described in this Legend in **boldface** text; Non-ACM (listed here only if layered with ACM) are described in plain text.

NOT SHOWN — **SAMPLE AREA 498-AH-1N: WHITE VIBRATION CLOTH (NO SAMPLES TAKEN DURING TIME OF SURVEY, INACCESSIBLE - ASSUMED ACM)**

SAMPLE AREA 498-AH-1V: WATERPROOFING MATERIAL (INACCESSIBLE WITHOUT CAUSING ANY COSMETIC DAMAGE, NO SAMPLES TAKEN DURING TIME OF SURVEY - ASSUMED ACM)

*ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1 % ASBESTOS.

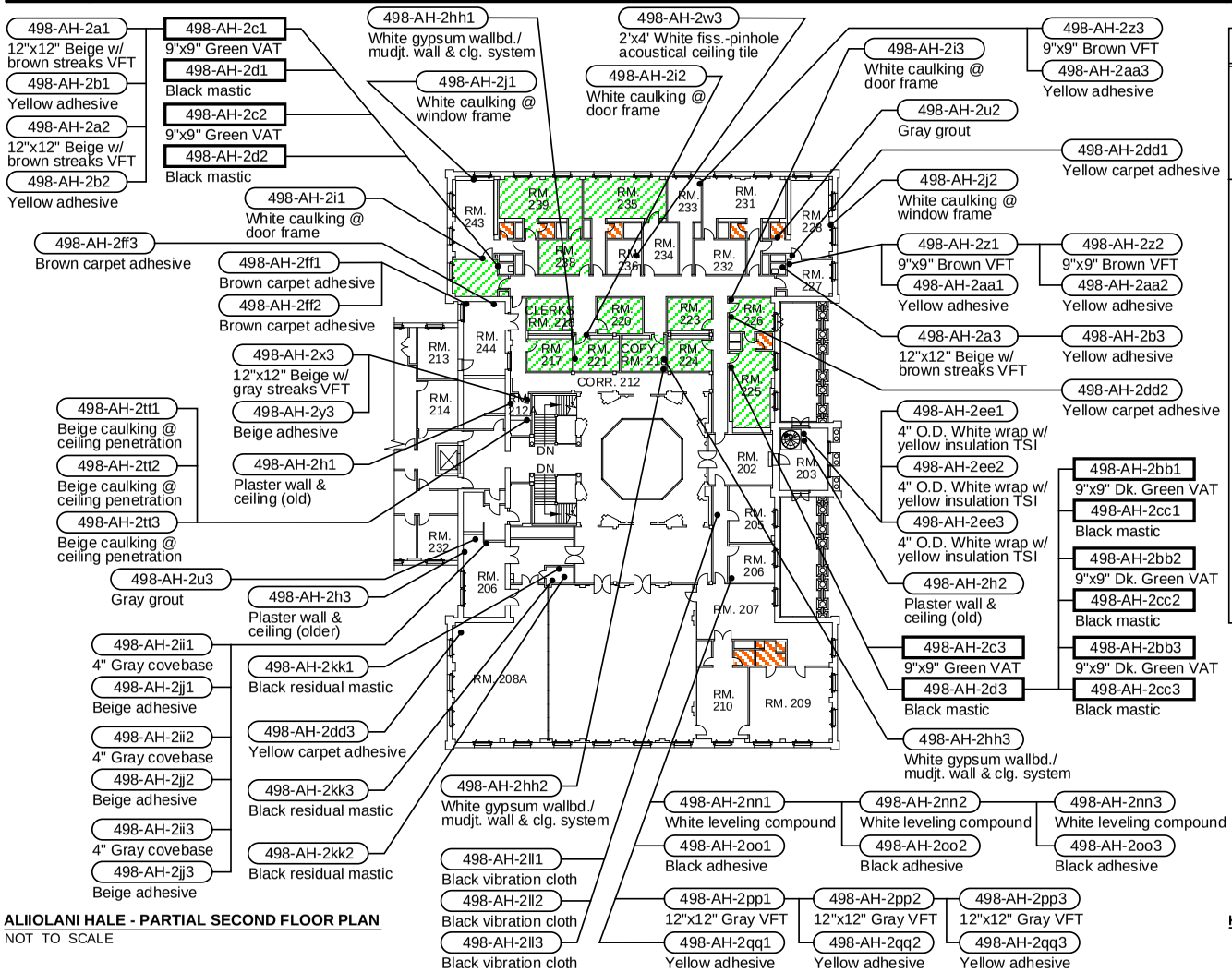


KEY PLAN: ALIIOLANI HALE - FIRST FLOOR

EMET I.D. #1511498

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF BUILDING	ADDRESS	SKETCH #
AH	ALIIOLANI HALE	417 SOUTH KING STREET HONOLULU, HI 96813	498-AH-2 1 OF 2



ALIIOLANI HALE - PARTIAL SECOND FLOOR PLAN
NOT TO SCALE

LEGEND

ACM: SAMPLE #
NON-ACM: SAMPLE #
NORTH

ASBESTOS-CONTAINING MATERIALS (ACM)* :

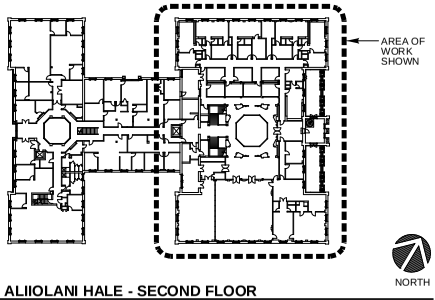
*ACM are described in this Legend in **boldface** text; Non-ACM (listed here only if layered with ACM) are described in plain text.

SAMPLE AREAS 498-AH-2C, -2D, -2BB, -2CC, -2DD: **9"x9" GREEN VAT, BLACK MASTIC, 9"x9" DARK GREEN VAT, BLACK MASTIC**, YELLOW CARPET ADHESIVE

NOT SHOWN — **SAMPLE AREA 498-AH-2M: 8" O.D. WHITE WRAP W/ YELLOW INSULATION TSI (NO SAMPLES TAKEN DURING TIME OF SURVEY, INACCESSIBLE - ASSUMED ACM)**

SAMPLE AREA 498-AH-2N: WATERPROOFING MATERIAL (INACCESSIBLE WITHOUT CAUSING 2ANY COSMETIC DAMAGE, NO SAMPLES TAKEN DURING TIME OF SURVEY - ASSUMED ACM)

*ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1 % ASBESTOS.



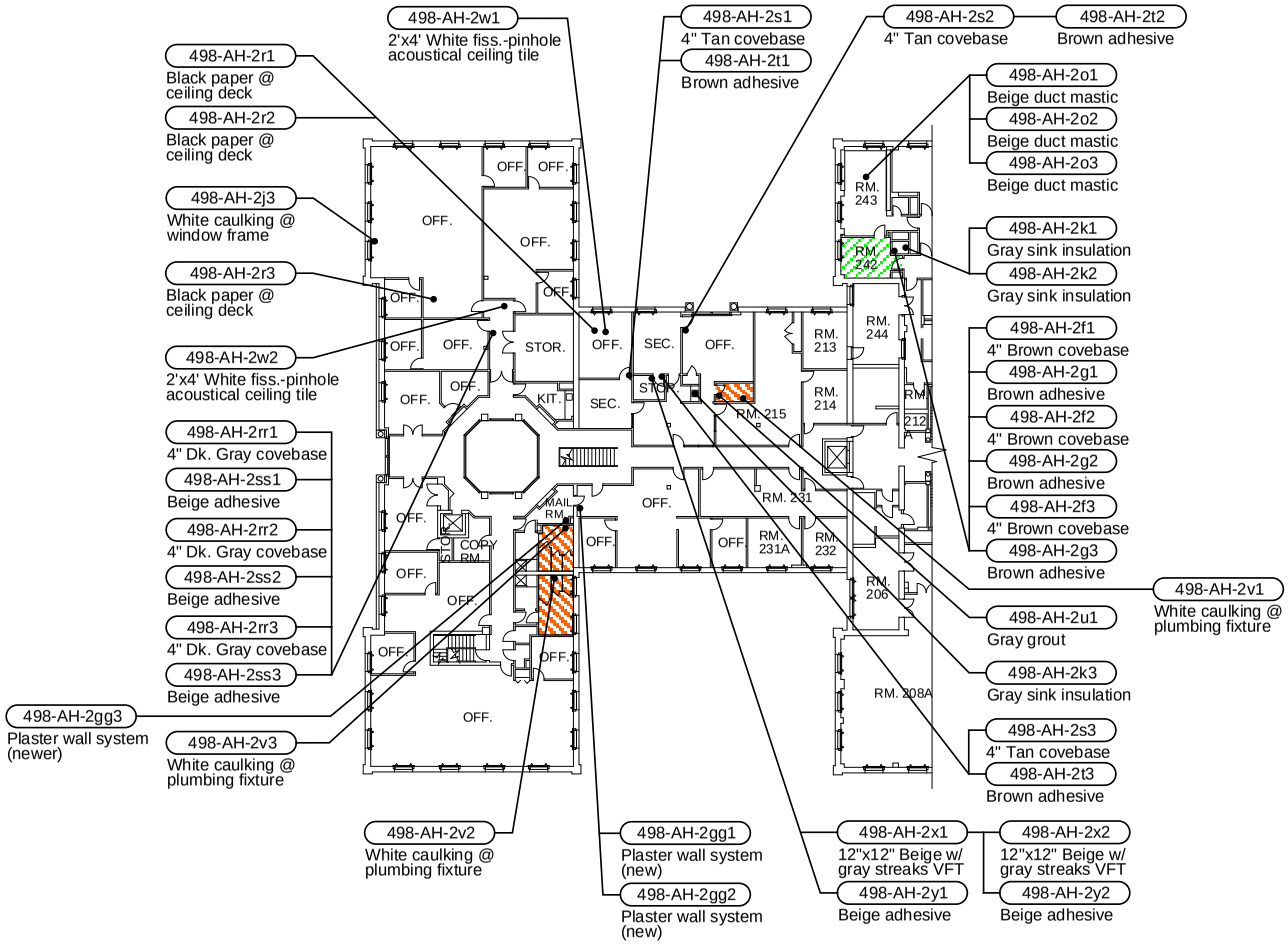
KEY PLAN: ALIIOLANI HALE - SECOND FLOOR

EMET I.D. #1511498

EnvironMETeo (EMET) Services, Inc. **94-520 Uke'e Street, Suite A** **Waipahu, Hawaii 96797** **Phone: (808) 671-8383** **Fax: (808) 671-7979**

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF BUILDING	ADDRESS	SKETCH #
AH	ALIIOLANI HALE	417 SOUTH KING STREET HONOLULU, HI 96813	498-AH-2 2 OF 2



ALIIOLANI HALE - PARTIAL SECOND FLOOR PLAN
NOT TO SCALE

LEGEND

ACM: SAMPLE #

NON-ACM: SAMPLE #

NORTH

ASBESTOS-CONTAINING MATERIALS (ACM)* :

*ACM are described in this Legend in **boldface** text; Non-ACM (listed here only if layered with ACM) are described in plain text.

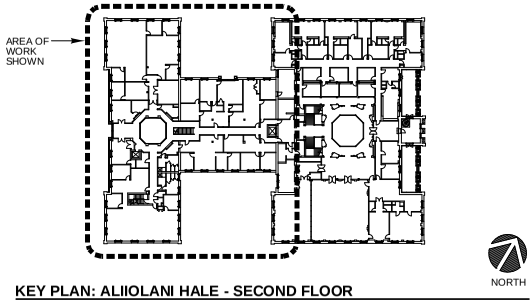
SAMPLE AREAS 498-AH-2C, -2D, -2BB, -2CC, -2DD**:**
9"x9" GREEN VAT, BLACK MASTIC, 9"x9" DARK GREEN VAT, BLACK MASTIC, YELLOW CARPET ADHESIVE

NOT SHOWN

SAMPLE AREA 498-AH-2M:
8" O.D. WHITE WRAP W/ YELLOW INSULATION TSI
(NO SAMPLES TAKEN DURING TIME OF SURVEY, INACCESSIBLE - ASSUMED ACM)

SAMPLE AREA 498-AH-2N:
WATERPROOFING MATERIAL (INACCESSIBLE WITHOUT CAUSING ANY COSMETIC DAMAGE, NO SAMPLES TAKEN DURING TIME OF SURVEY - ASSUMED ACM)

*ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1 % ASBESTOS.



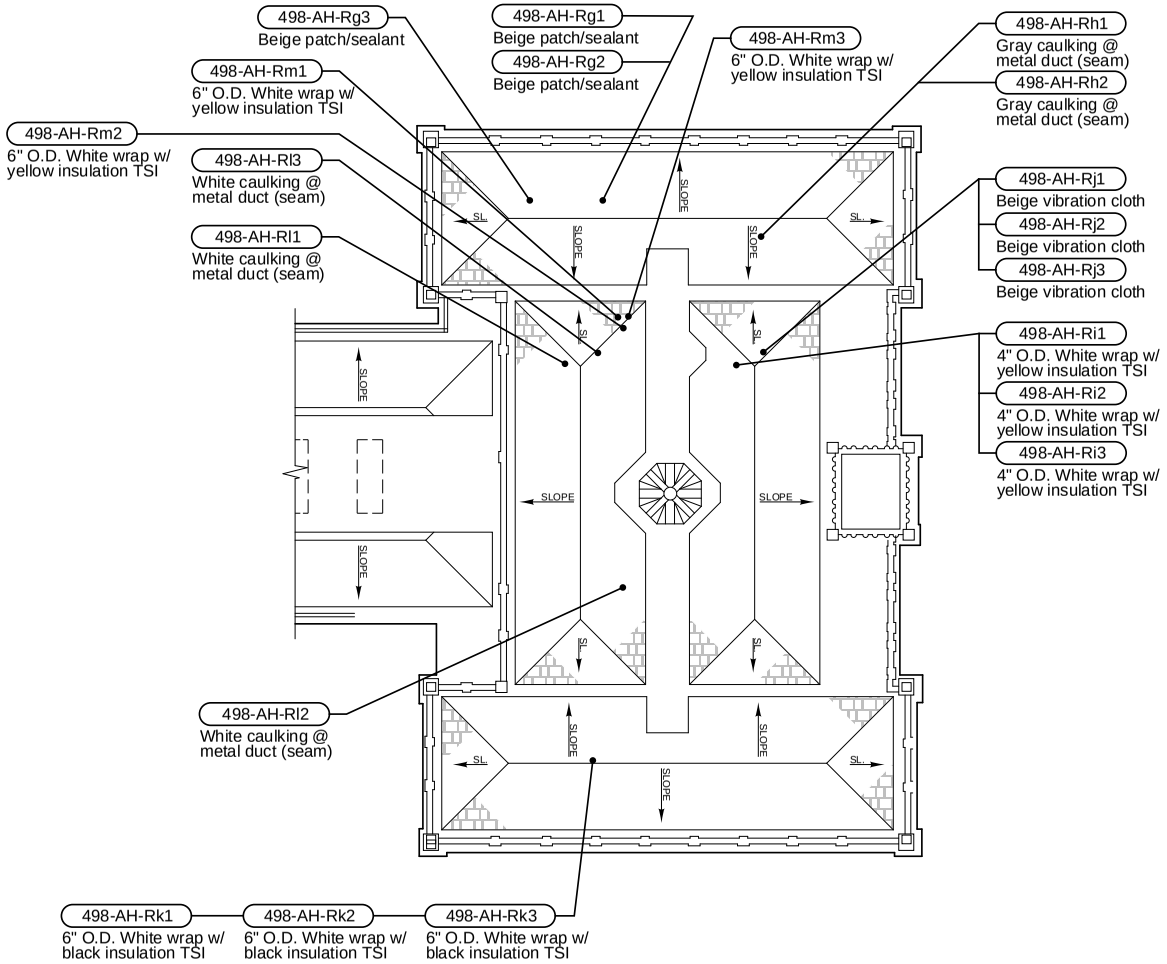
KEY PLAN: ALIIOLANI HALE - SECOND FLOOR

EMET I.D. #1511498

EnvironMETeo (EMET) Services, Inc. **94-520 Uke'e Street, Suite A** **Waipahu, Hawaii 96797** **Phone: (808) 671-8383** **Fax: (808) 671-7979**

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF BUILDING	ADDRESS	SKETCH #
AH	ALIIOLANI HALE	417 SOUTH KING STREET HONOLULU, HI 96813	498-AH-R 1 OF 2



ALIIOLANI HALE - PARTIAL ROOF PLAN
NOT TO SCALE

LEGEND

ACM: SAMPLE #
NON-ACM: SAMPLE #

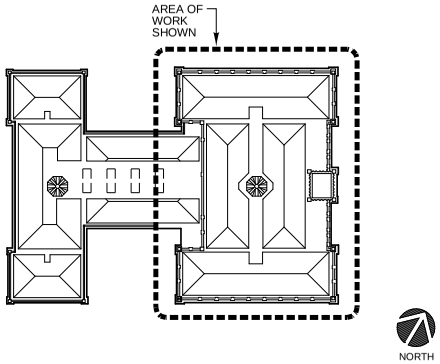
NORTH

ASBESTOS-CONTAINING MATERIALS (ACM)* :

NO ACM DETECTED IN AREAS SAMPLED

*ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1 % ASBESTOS.

THIS SURVEY WAS LIMITED IN SCOPE TO SPECIFIC AREAS AFFECTED BY PLANNED RENOVATION ACTIVITIES ONLY; THEREFORE, THIS REPORT MAKES NO WARRANTY FOR AREAS OF THE BUILDING WHICH WERE NOT INCLUDED IN THE SCOPE OF THE SURVEY.

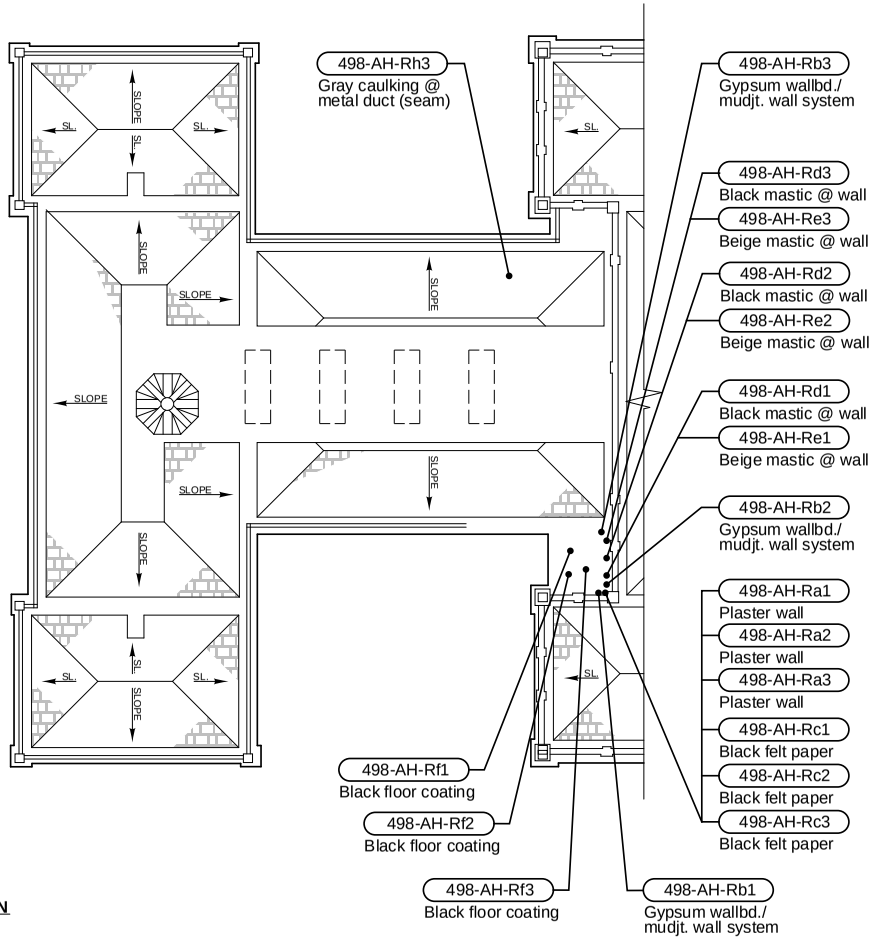


KEY PLAN: ALIIOLANI HALE - ROOF

EMET I.D. #1511498

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF BUILDING	ADDRESS	SKETCH #
AH	ALIIOLANI HALE	417 SOUTH KING STREET HONOLULU, HI 96813	498-AH-R 2 OF 2



ALIIOLANI HALE - PARTIAL ROOF PLAN
NOT TO SCALE

LEGEND

ACM: SAMPLE #

NON-ACM: SAMPLE #

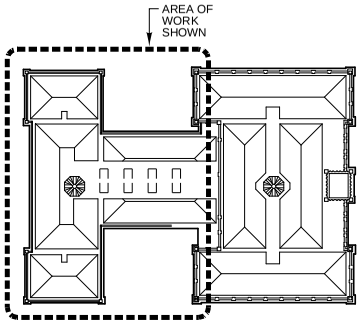
NORTH

ASBESTOS-CONTAINING MATERIALS (ACM)* :

NO ACM DETECTED IN AREAS SAMPLED

*ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1 % ASBESTOS.

THIS SURVEY WAS LIMITED IN SCOPE TO SPECIFIC AREAS AFFECTED BY PLANNED RENOVATION ACTIVITIES ONLY; THEREFORE, THIS REPORT MAKES NO WARRANTY FOR AREAS OF THE BUILDING WHICH WERE NOT INCLUDED IN THE SCOPE OF THE SURVEY.



NORTH

KEY PLAN: ALIIOLANI HALE - ROOF

EMET I.D. #1511498

EnvironMETeo (EMET) Services, Inc. 94-520 Uke'e Street, Suite A Waipahu, Hawaii 96797 Phone: (808) 671-8383 Fax: (808) 671-7979

Appendix C

Lead Paint Test Results

EnvironMETeo (EMET) Services, Inc. Waipio Gentry Business Park 94-520 Uke'e Street, Suite A Waipahu, Hawaii, USA 96797-4200
(808) 671-8383...Telephone (808) 671-7979...Facsimile

Laboratory Report

Painted Surfaces Total Elemental Lead Analyses
by X-Ray Fluorescence

EMET ID: 1511498 **Test Date: December 5, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm²)			Lead-Based Paint	Confirmed Lead-Containing Paint
308	Calibration						0.90	±	0.10		
309	Calibration						0.90	±	0.10		
310	Calibration						0.90	±	0.10		
311	1st Fl. Courtroom 1913	North	door frame	wood	intact	off white	0.24	±	0.36	no	yes
312	**1st Fl. Courtroom 1913**	**West**	**crown molding**	**plaster**	**intact**	**off white**	**11.20**	**±**	**9.10**	**yes**	**yes**
313	1st Fl. Courtroom 1913	West	soffit	wood	intact	beige	0.07	±	0.71	no	yes
314	1st Fl. Courtroom 1913		ceiling	plaster	intact	beige	<LOD			no	no
315	1st Fl. Courtroom 1913	North	door	wood	intact	brown	0.40	±	0.60	no	yes
316	**1st Fl. Courtroom 1913**	**East**	**wall**	**plaster**	**intact**	**pale green**	**13.50**	**±**	**11.00**	**yes**	**yes**
317	**1st Fl. Courtroom 1913**	**South**	**column**	**plaster**	**intact**	**green**	**16.00**	**±**	**14.40**	**yes**	**yes**
318	1st Fl. Courtroom 1913	North	door	wood	intact	beige	<LOD			no	no
319	1st Fl. Courtroom 1913	East	window frame	wood	intact	beige	<LOD			no	no
320	1st Fl. Courtroom 1913	East	window shutters	wood	intact	stained	<LOD			no	no
321	1st Fl. Courtroom 1913	East	window muntin	wood	fair	beige	<LOD			no	no
322	1st Fl. Courtroom 1913		window sill	wood	fair	beige	<LOD			no	no
323	1st Fl. Courtroom 1913	South	Judge's desk	wood	intact	stained	0.04	±	0.08	no	yes
324	1st Fl. Courtroom 1913	South	railing	wood	intact	stained	0.01	±	0.05	no	yes
325	1st Fl. Monarchy Court Gallery	East	door frame	wood	intact	gray	<LOD			no	no
326	1st Fl. Monarchy Court Gallery	South	door	wood	intact	gray	<LOD			no	no
327	**1st Fl. Monarchy Court Gallery**	**North**	**crown molding**	**plaster**	**intact**	**gray**	**13.00**	**±**	**10.70**	**yes**	**yes**
328	**1st Fl. Monarchy Court Gallery**	**North**	**soffit**	**plaster**	**intact**	**gray**	**9.10**	**±**	**7.80**	**yes**	**yes**
329	1st Fl. Monarchy Court Gallery		ceiling	plaster	intact	dark gray	<LOD			no	no
330	1st Fl. Monarchy Court Gallery		lighting frame on ceiling	metal	intact	black	<LOD			no	no
331	1st Fl. Monarchy Court Gallery	East	window frame	wood	fair	gray	<LOD			no	no
332	**1st Fl. Monarchy Court Gallery**	**East**	**column**	**plaster**	**intact**	**gray**	**19.40**	**±**	**15.80**	**yes**	**yes**
333	1st Fl. Monarchy Court Gallery	East	Exhibit wall	wood	fair	white	<LOD			no	no
334	1st Fl. Martial Law in Hawaii Exhibit	North	crown molding	plaster	intact	light gray	<LOD			no	no
335	NULL										
336	1st Fl. Martial Law in Hawaii Exhibit		ceiling	plaster	intact	gray	<LOD			no	no
337	1st Fl. Martial Law in Hawaii Exhibit		lighting frame on ceiling	metal	intact	white	<LOD			no	no
338	1st Fl. Martial Law in Hawaii Exhibit	South	wall base	plaster	intact	gray	<LOD			no	no
339	1st Fl. Elevator Hallway		ceiling access panel	metal	intact	white	<LOD			no	no
340	1st Fl. Elevator Hallway		ceiling	plaster	intact	white	<LOD			no	no
341	1st Fl. Elevator Hallway		lighting frame on ceiling	metal	intact	white	<LOD			no	no
342	1st Fl. Elevator Hallway	South	wall	concrete	intact	light gray	0.14	±	0.11	no	yes
343	1st Fl. Room 108/109		door frame	wood	fair	gray	0.02	±	0.06	no	yes
344	1st Fl. Room 108/109		wall	gypboard	fair	off white	<LOD			no	no
345	1st Fl. Judiciary Personnel Office		beam	metal	intact	yellow	0.14	±	0.15	no	yes
346	1st Fl. Judiciary Personnel Office		ceiling access panel	metal	intact	off white	<LOD			no	no
347	1st Fl. Room 125	East	door frame	wood	intact	brown	<LOD			no	no
348	1st Fl. Room 125	East	wall	plaster	intact	gray	0.70	±	0.30	no	yes
349	1st Fl. Room 128	West	door	wood	intact	brown	<LOD			no	no
350	1st Fl. Room 128	North	wall	plaster	intact	gray	<LOD			no	no
351	**1st Fl. Room 126**	**West**	**crown molding**	**plaster**	**intact**	**white**	**1.90**	**±**	**0.80**	**yes**	**yes**
352	1st Fl. Room 126	West	ceiling	plaster	intact	white	0.08	±	0.21	no	yes

Determination of paint as lead-based paint by the U. S. Department of Housing and Urban Development (HUD) is based on the values in the "**PbC**" column reported in mg/cm^2 (milligrams per square centimeter). HUD regulations; 24 CFR Parts 35, 200, 881, and 886; and Guidelines for the Evaluation and Control of Lead-based Paint (LBP) Hazards in Housing, dated June 1995, define LBP as paint with a lead content of 1.0 mg/cm^2 or greater. <LOD = less than instrument level of detection.

However, OSHA and HIOSH regulate activities disturbing paint that contains lead (lead-containing paint), even if the content is below the HUD standard.

Serial #7798, Source Date 4/2014

EnvironMETeo (EMET) Services, Inc. Waipio Gentry Business Park 94-520 Uke'e Street, Suite A Waipahu, Hawaii, USA 96797-4200
(808) 671-8383...Telephone (808) 671-7979...Facsimile

EMET ID: 1511498 **Test Date: December 5, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
353	NULL								
354	1st Fl. Room 126	West	wall	plaster	intact	dark gray	0.07 ± 0.04	no	yes
355	1st Fl. Room 127	East	wall	plaster	intact	gray	0.01 ± 0.02	no	yes
356	1st Fl. Room 127	West	window sash	plaster	intact	brown	<LOD	no	no
357	1st Fl. Room 127	West	window frame	wood	intact	brown	<LOD	no	no
358	1st Fl. Room 129	South	wall	gypboard	intact	gray	<LOD	no	no
359	1st Fl. Room 129	South	cabinet	metal	intact	gray	<LOD	no	no
360	1st Fl. Room 129	South	cabinet	wood	intact	black	<LOD	no	no
361	1st Fl. Room 129	South	door frame	wood	intact	brown	<LOD	no	no
362	1st Fl. Room 129	South	door	wood	intact	brown	<LOD	no	no
363	**1st Fl. Men's RR**	**North**	**underside of stairs**	**plaster**	**poor**	**brown**	**3.10 ± 2.00**	**yes**	**yes**
364	1st Fl. Men's RR	North	wall	plaster	intact	white	0.01 ± 0.07	no	yes
365	1st Fl. Men's RR	North	door frame	wood	intact	brown	<LOD	no	no
366	1st Fl. Men's RR	North	door	wood	intact	brown	<LOD	no	no
367	1st Fl. Men's RR	South	window sill	wood	intact	brown	<LOD	no	no
368	1st Fl. Men's RR	South	window blinds	wood	intact	stained	<LOD	no	no
369	1st Fl. Men's RR	East	stall partition	wood	intact	gray	<LOD	no	no
370	1st Fl. Theater	East	door	wood	intact	gray	<LOD	no	no
371	1st Fl. Theater	North	window frame	wood	intact	gray	<LOD	no	no
372	1st Fl. Theater	East	wall base	wood	intact	gray	<LOD	no	no
373	1st Fl. Theater	East	wall	gypboard	intact	beige	<LOD	no	no
374	1st Fl. Women's RR	East	wall	plaster	fair	gray	0.01 ± 0.03	no	yes
375	1st Fl. Women's RR	North	door frame	wood	intact	brown	<LOD	no	no
376	1st Fl. Women's RR	North	door	wood	fair	brown	0.01 ± 0.04	no	yes
377	**1st Fl. WoMen's RR**		**stairs**	**plaster**	**intact**	**off white**	**2.20 ± 1.10**	**yes**	**yes**
378	**1st Fl. Mauka Rotunda**	**South**	**column**	**concrete**	**intact**	**dark gray**	**16.10 ± 14.10**	**yes**	**yes**
379	**1st Fl. Mauka Rotunda**	**South**	**round column**	**plaster**	**intact**	**white**	**9.20 ± 7.80**	**yes**	**yes**
380	1st Fl. Mauka Rotunda	South	railing	metal	intact	brown	0.18 ± 0.24	no	yes
381	**1st Fl. Mauka Rotunda**	**South**	**crown molding**	**plaster**	**intact**	**white**	**12.30 ± 10.80**	**yes**	**yes**
382	1st Fl. Mauka Rotunda	South	Baseboard	wood	fair	brown	<LOD	no	no
383	1st Fl. Mauka Rotunda	South	post	metal	intact	white	0.03 ± 0.10	no	yes
384	1st Fl. Mauka Rotunda	North	door frame	wood	intact	brown	<LOD	no	no
385	1st Fl. Mauka Rotunda	North	door	wood	intact	brown	0.08 ± 0.13	no	yes
386	1st Fl. Room 120	East	door frame	wood	intact	brown	0.01 ± 0.06	no	yes
387	1st Fl. Room 120	East	door	wood	intact	brown	<LOD	no	no
388	**1st Fl. Room 120**	**North**	**column**	**plaster**	**intact**	**gray**	**16.10 ± 14.00**	**yes**	**yes**
389	NULL								
390	1st Fl. Room 120	North	wall	plaster	intact	gray	<LOD	no	no
391	1st Fl. Room 120	West	crown molding	plaster	intact	white	0.10 ± 0.18	no	yes
392	**1st Fl. Room 120**	**West**	**wall**	**plaster**	**intact**	**dark gray**	**7.70 ± 6.30**	**yes**	**yes**
393	1st Fl. Room 120	West	wall trim	plaster	intact	white	<LOD	no	no
394	1st Fl. Room 120		ceiling	plaster	intact	white	<LOD	no	no
395	1st Fl. Room 119	North	wall trim	plaster	intact	beige	<LOD	no	no
396	1st Fl. Makai Women's RR	East	wall	plaster	intact	gray	<LOD	no	no
397	1st Fl. Makai Women's RR	North	window frame	wood	intact	gray	<LOD	no	no
398	1st Fl. Makai Women's RR	North	window sill	wood	intact	gray	<LOD	no	no
399	1st Fl. Makai Women's RR		I-beam	metal	intact	yellow	0.13 ± 0.13	no	yes
400	1st Fl. Room 118	South	window frame	wood	intact	gray	<LOD	no	no
401	NULL								
402	1st Fl. Room 118	South	wall	concrete	intact	off white	<LOD	no	no

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However, OSHA and HIOSH regulate activities disturbing paint that contains lead (lead-containing paint), even if the content is below the HUD standard.

Serial #7798, Source Date 4/2014

EnvironMETeo (EMET) Services, Inc. Waipio Centry Business Park 94-520 Uke'e Street, Suite A Waipahu, Hawaii, USA 96797-4200
(808) 671-8383...Telephone (808) 671-7979...Facsimile

EMET ID: 1511498 **Test Date: December 5, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm²)	Lead-Based Paint	Confirmed Lead-Containing Paint
403	1st Fl. Makai Men's RR		I-beam	metal	intact	yellow	0.09 ± 0.10	no	yes
404	1st Fl. Makai Men's RR	West	wall	gypboard	intact	gray	<LOD	no	no
405	1st Fl. Law Library & Reading Room A	South	wall	plaster	intact	gray	<LOD	no	no
406	1st Fl. Law Library & Reading Room A	South	door frame	wood	intact	stained	<LOD	no	no
407	1st Fl. Law Library & Reading Room A	South	door	wood	intact	stained	<LOD	no	no
408	1st Fl. Law Library & Reading Room A	South	Baseboard	wood	intact	stained	<LOD	no	no
409	1st Fl. Law Library & Reading Room A	South	column	plaster	intact	gray	<LOD	no	no
410	1st Fl. Law Library & Reading Room A	West	column	concrete	intact	white	0.60 ± 0.40	no	yes
411	1st Fl. Law Library & Reading Room A	North	post	metal	intact	white	0.06 ± 0.10	no	yes
412	1st Fl. Law Library & Reading Room A	North	railing	metal	intact	white	0.21 ± 0.27	no	yes
413	1st Fl. Law Library & Reading Room A		ceiling	metal	intact	beige	<LOD	no	no
414	1st Fl. Law Library & Reading Room A		I-beam	metal	intact	gray	0.02 ± 0.04	no	yes
415	1st Fl. Law Library & Reading Room A	West	wall	plaster	fair	white	<LOD	no	no
416	1st Fl. Law Library & Reading Room A	West	door frame	wood	intact	stained	<LOD	no	no
417	1st Fl. Law Library & Reading Room A	West	door	wood	intact	stained	<LOD	no	no
418	1st Fl. Law Library & Reading Room A	West	Base board	wood	intact	stained	<LOD	no	no
419	1st Fl. Law Library & Reading Room A	West	post	metal	intact	white	0.05 ± 0.08	no	yes
420	1st Fl. Law Library & Reading Room A	North	railing	metal	intact	white	0.17 ± 0.21	no	yes
421	1st Fl. Law Library & Reading Room A		ceiling	metal	intact	beige	<LOD	no	no
422	1st Fl. Law Library & Reading Room A	West	C-beam	metal	intact	gray	0.01 ± 0.04	no	yes
423	Basement		ceiling	concrete	intact	off white	<LOD	no	no
424	Basement		I-beam	metal	intact	off white	0.04 ± 0.19	no	yes
425	Basement		wall	CMU	intact	off white	0.02 ± 0.06	no	yes
426	Basement		door	metal	peeling	brown	-0.03 ± 0.96	no	yes
427	Basement		door frame	metal	intact	brown	0.40 ± 0.50	no	yes
428	Basement		railing	metal	intact	white	0.01 ± 0.07	no	yes
429	Basement		column	concrete	intact	off white	0.03 ± 0.03	no	yes
430	Basement	North	post	metal	intact	white	0.09 ± 0.13	no	yes
431	Basement		Duct	metal	intact	white	<LOD	no	no
432	Basement	North	wall	CMU	intact	yellow	<LOD	no	no
433	Basement	North	door frame	wood	intact	stained	<LOD	no	no
434	Basement	North	door	wood	intact	stained	<LOD	no	no
435	Basement	East	window frame	wood	intact	maroon	0.21 ± 0.23	no	yes
436	Basement		I-beam	metal	intact	brown	0.05 ± 0.07	no	yes
437	1st Fl. Rm 117	South	column	plaster	intact	white	<LOD	no	no
438	1st Fl. Rm 117	West	wall	gypboard	intact	white	<LOD	no	no
439	NULL								
440	NULL								
441	Calibration						0.90 ± 0.10		
442	NULL								
443	NULL								
444	Calibration						0.90 ± 0.10		
445	Calibration						1.00 ± 0.10		

Determination of paint as lead-based paint by the U. S. Department of Housing and Urban Development (HUD) is based on the values in the "**PbC**" column reported in mg/cm^2 (milligrams per square centimeter). HUD regulations; 24 CFR Parts 35, 200, 881, and 886; and Guidelines for the Evaluation and Control of Lead-based Paint (LBP) Hazards in Housing, dated June 1995, define LBP as paint with a lead content of 1.0 mg/cm^2 or greater. <LOD = less than instrument level of detection.

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Serial #7798, Source Date 4/2014

EnvironMETeo (EMET) Services, Inc. Waipio Gentry Business Park 94-520 Uke'e Street, Suite A Waipahu, Hawaii, USA 96797-4200
(808) 671-8383...Telephone (808) 671-7979...Facsimile

Laboratory Report

Painted Surfaces Total Elemental Lead Analyses
by X-Ray Fluorescence

EMET ID: 1511498 **Test Date: December 6, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
447	Calibration						1.00 ± 0.10		
448	Calibration						1.10 ± 0.10		
449	Calibration						1.10 ± 0.10		
450	2nd Fl. Room 243	West	wall	plaster	intact	yellow	0.60 ± 0.40	no	yes
451	2nd Fl. Room 243	West	crown molding	wood	intact	stained	<LOD	no	no
452	2nd Fl. Room 243	West	door frame	wood	intact	stained	<LOD	no	no
453	2nd Fl. Room 243	West	door	wood	intact	stained	<LOD	no	no
454	2nd Fl. Room 243		ceiling	plaster	intact	off white	<LOD	no	no
455	2nd Fl. Room 243	West	baseboard	wood	intact	stained	<LOD	no	no
456	2nd Fl. Room 243	North	wall	plaster	intact	beige	<LOD	no	no
457	2nd Fl. Room 243	East	wall	plaster	intact	beige	0.60 ± 0.40	no	yes
458	NULL								
459	2nd Fl. Room 243	South	window frame	wood	intact	brown	<LOD	no	no
460	2nd Fl. Room 243	South	window	wood	intact	brown	<LOD	no	no
461	2nd Fl. Room 243	East	shelf	wood	intact	white	<LOD	no	no
462	2nd Fl. Room 243	South	Utility closet	plaster	intact	beige	<LOD	no	no
463	2nd Fl. Room 221	East	wall base	wood	fair	brown	<LOD	no	no
464	2nd Fl. Room 221	West	bookshelf	wood	intact	stained	<LOD	no	no
465	2nd Fl. Room 221	West	door frame	wood	intact	brown	<LOD	no	no
466	2nd Fl. Room 221	West	door	wood	intact	brown	<LOD	no	no
467	2nd Fl. Room 218	North	door frame	wood	intact	brown	<LOD	no	no
468	2nd Fl. Room 218	North	door	wood	intact	brown	<LOD	no	no
469	2nd Fl. Room 218	South	crown molding	plaster	intact	white	<LOD	no	no
470	2nd Fl. Room 218		ceiling	plaster	intact	white	<LOD	no	no
471	2nd Fl. Room 220	South	crown molding	plaster	intact	white	<LOD	no	no
472	2nd Fl. Room 220		ceiling	plaster	intact	white	<LOD	no	no
473	2nd Fl. Room 220	South	door frame	wood	intact	brown	<LOD	no	no
474	2nd Fl. Room 220	North	door	wood	intact	brown	<LOD	no	no
475	2nd Fl. Dep Director of the Courts Office		I-beam	metal	intact	brown	0.01 ± 0.07	no	yes
476	NULL								
477	2nd Fl. Dep Director of the Courts Office	West	wall	concrete	intact	white	<LOD	no	no
478	2nd Fl. Dep Director of the Courts Office	South	wall	gypboard	intact	white	<LOD	no	no
479	2nd Fl. Dep Director of the Courts Office	East	wall	gypboard	intact	white	<LOD	no	no
480	2nd Fl. Dep Director of the Courts Office	North	wall	gypboard	intact	white	<LOD	no	no
481	2nd Fl. Dep Director of the Courts Office	West	window frame	wood	intact	white	<LOD	no	no
482	2nd Fl. Dep Director of the Courts Office	West	window sill	wood	intact	white	<LOD	no	no
483	NULL								
484	2nd Fl. Dep Director of the Courts Office	West	window	wood	intact	white	<LOD	no	no
485	2nd Fl. Asst Dep Director of the Courts Office	East	wall	gypboard	intact	white	<LOD	no	no
486	2nd Fl. Asst Dep Director of the Courts Office	South	wall	gypboard	intact	white	<LOD	no	no
487	2nd Fl. Asst Dep Director of the Courts Office	West	wall	gypboard	intact	white	<LOD	no	no
488	2nd Fl. Asst Dep Director of the Courts Office	North	wall	gypboard	intact	white	<LOD	no	no
489	2nd Fl. Asst Dep Director of the Courts Office	West	door frame	wood	fair	stained	<LOD	no	no
490	2nd Fl. Director of the Courts	East	wall	gypboard	intact	white	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 6, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
491	2nd Fl. Director of the Courts	South	wall	gypboard	intact	white	<LOD	no	no
492	2nd Fl. Director of the Courts	West	wall	plaster	intact	white	<LOD	no	no
493	2nd Fl. Director of the Courts	North	wall	gypboard	intact	white	<LOD	no	no
494	2nd Fl. Director of the Courts	West	window sill	wood	intact	beige	<LOD	no	no
495	2nd Fl. Director of the Courts	West	window muntin	wood	intact	beige	<LOD	no	no
496	2nd Fl. Director of the Courts	South	wall trim	wood	intact	stained	<LOD	no	no
497	2nd Fl. Director of the Courts	South	door	wood	intact	stained	<LOD	no	no
498	2nd Fl. Director of the Courts, Bathroom	North	wall	gypboard	intact	white	<LOD	no	no
499	2nd Fl. Director of the Courts, Closet	North	shelf	wood	intact	white	<LOD	no	no
500	2nd Fl. Asst Director of the Courts Office	East	wall	plaster	intact	white	<LOD	no	no
501	2nd Fl. Asst Director of the Courts Office	South	wall	plaster	intact	white	<LOD	no	no
502	2nd Fl. Asst Director of the Courts Office	West	wall	plaster	intact	white	<LOD	no	no
503	2nd Fl. Asst Director of the Courts Office	North	wall	gypboard	intact	white	<LOD	no	no
504	2nd Fl. Asst Director of the Courts Office	East	door frame	wood	intact	stained	<LOD	no	no
505	2nd Fl. Asst Director of the Courts Office	East	door	wood	intact	stained	<LOD	no	no
506	2nd Fl. Director of the Courts, Storage	North	wall	gypboard	intact	white	<LOD	no	no
507	2nd Fl. Director of the Courts, Storage	East	wall	gypboard	intact	white	<LOD	no	no
508	2nd Fl. Director of the Courts, Storage	South	wall	gypboard	intact	white	<LOD	no	no
509	2nd Fl. Director of the Courts, Storage	West	wall	gypboard	intact	white	<LOD	no	no
510	2nd Fl. Room 206	East	column	gypboard	intact	white	<LOD	no	no
511	2nd Fl. Room 206	East	wall	gypboard	intact	white	<LOD	no	no
512	2nd Fl. Room 206	South	wall	gypboard	intact	white	<LOD	no	no
513	2nd Fl. Room 206	West	wall	gypboard	intact	white	<LOD	no	no
514	2nd Fl. Room 206	North	wall	gypboard	intact	white	<LOD	no	no
515	2nd Fl. Room 206	East	door frame	wood	intact	stained	<LOD	no	no
516	2nd Fl. Room 206	West	door	wood	intact	stained	<LOD	no	no
517	**1st Fl. Room 114**	**North**	**wall**	**plaster**	**intact**	**white**	**1.60 ± 0.60**	**yes**	**yes**
518	1st Fl. Room 114	North	column	plaster	intact	white	<LOD	no	no
519	1st Fl. Room 114	North	wall	plaster	intact	white	0.50 ± 0.20	no	yes
520	1st Fl. Room 114	East	wall	plaster	intact	white	0.90 ± 0.30	no	yes
521	1st Fl. Room 114	East	column	plaster	intact	white	0.25 ± 0.04	no	yes
522	1st Fl. Room 114	West	wall	concrete	intact	white	0.30 ± 0.05	no	yes
523	1st Fl. Room 114	South	wall	gypboard	intact	white	<LOD	no	no
524	1st Fl. Room 119	South	wall	plaster	intact	gray	<LOD	no	no
525	1st Fl. Room 119	South	soffit	plaster	intact	gray	0.30 ± 0.39	no	yes
526	1st Fl. Room 119	South	wall trim	plaster	intact	brown	0.50 ± 0.30	no	yes
527	NULL								
528	1st Fl. Room 119		ceiling	plaster	intact	gray	<LOD	no	no
529	NULL								
530	**1st Fl. Room 119**	**South**	**crown molding**	**plaster**	**intact**	**gray**	**11.30 ± 9.50**	**yes**	**yes**
531	**1st Fl. Room 119**	**South**	**column**	**plaster**	**intact**	**gray**	**14.60 ± 12.30**	**yes**	**yes**
532	1st Fl. Room 119	South	wall base	wood	intact	stained	0.02 ± 0.07	no	yes
533	1st Fl. Room 119	West	wall	plaster	intact	white	<LOD	no	no
534	NULL								
535	NULL								
536	1st Fl. Room 119	West	door frame	wood	intact	brown	<LOD	no	no
537	1st Fl. Room 119	West	door	wood	intact	brown	<LOD	no	no
538	**1st Fl. Room 119**	**West**	**round column**	**plaster**	**intact**	**white**	**8.00 ± 6.40**	**yes**	**yes**
539	**1st Fl. Room 119**	**West**	**wall**	**concrete**	**intact**	**off white**	**17.90 ± 14.90**	**yes**	**yes**

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540	1st Fl. Room 119	West	window frame	wood	intact	brown	0.02	±	0.10	no	yes
541	**1st Fl. Room 119**	**North**	**wall**	**plaster**	**intact**	**off white**	**14.70**	**±**	**13.50**	**yes**	**yes**
542	NULL										
543	**1st Fl. Room 119**	**East**	**wall**	**plaster**	**intact**	**off white**	**16.50**	**±**	**14.60**	**yes**	**yes**
544	1st Fl. Room 212 corridor	South	wall	plaster	intact	white	0.50	±	0.40	no	yes
545	1st Fl. Room 212 corridor	South	Molding	plaster	intact	white	0.60	±	0.30	no	yes
546	1st Fl. Room 212 corridor		ceiling	plaster	intact	white	0.30	±	0.69	no	yes
547	NULL										
548	1st Fl. Room 212 corridor	East	wall	plaster	fair	gray	0.20	±	0.32	no	yes
549	1st Fl. Room 212 corridor	East	door frame	wood	peeling	brown	0.50	±	0.40	no	yes
550	**1st Fl. Room 212 corridor**	**East**	**door**	**wood**	**peeling**	**brown**	**1.60**	**±**	**0.60**	**yes**	**yes**
551	1st Fl. Room 212 corridor	West	wall	plaster	intact	gray	<LOD			no	no
552	1st Fl. Room 212 corridor	West	baseboard	wood	intact	brown	<LOD			no	no
553	1st Fl. Room 212 corridor	North	wall	plaster	intact	gray	0.50	±	0.50	no	yes
554	NULL										
555	1st Fl. Room 228	South	wall	plaster	intact	yellow	<LOD			no	no
556	NULL										
557	1st Fl. Room 228	South	crown molding	plaster	intact	white	0.60	±	0.40	no	yes
558	NULL										
559	1st Fl. Room 228		ceiling	plaster	intact	white	<LOD			no	no
560	1st Fl. Room 228	East	wall	plaster	intact	beige	<LOD			no	no
561	1st Fl. Room 228	East	door frame	wood	intact	brown	<LOD			no	no
562	1st Fl. Room 228	East	door	wood	intact	brown	<LOD			no	no
563	1st Fl. Room 228	East	baseboard	wood	intact	stained	<LOD			no	no
564	1st Fl. Room 228	West	wall	concrete	intact	beige	0.15	±	0.26	no	yes
565	1st Fl. Room 228	West	window frame	wood	intact	brown	<LOD			no	no
566	**1st Fl. Room 228**	**East**	**column**	**plaster**	**intact**	**beige**	**15.00**	**±**	**13.00**	**yes**	**yes**
567	1st Fl. Room 228	North	wall	concrete	intact	beige	0.11	±	0.05	no	yes
568	**1st Fl. Room 227**	**East**	**wall**	**concrete**	**intact**	**olive**	**11.00**	**±**	**8.90**	**yes**	**yes**
569	1st Fl. Room 227	South	wall	plaster	intact	off white	<LOD			no	no
570	1st Fl. Room 227	South	door frame	wood	intact	brown	<LOD			no	no
571	1st Fl. Room 227	South	door	wood	intact	brown	<LOD			no	no
572	1st Fl. Room 227	West	baseboard	wood	fair	brown	<LOD			no	no
573	1st Fl. Room 227	North	column	plaster	intact	beige	0.19	±	0.04	no	yes
574	**1st Fl. Room 227**	**North**	**wall**	**concrete**	**intact**	**beige**	**15.10**	**±**	**13.80**	**yes**	**yes**
575	1st Fl. Room 227	North	window frame	wood	intact	brown	<LOD			no	no
576	1st Fl. Room 227	North	window sill	wood	intact	brown	<LOD			no	no
577	1st Fl. Room 225	North	wall	plaster	intact	white	0.60	±	0.40	no	yes
578	1st Fl. Room 225	North	crown molding	wood	intact	white	0.50	±	0.50	no	yes
579	1st Fl. Room 225	North	wall	plaster	intact	yellow	<LOD			no	no
580	1st Fl. Room 225		ceiling	plaster	intact	white	<LOD			no	no
581	1st Fl. Room 225	West	door frame	wood	intact	brown	<LOD			no	no
582	1st Fl. Room 225	East	door	wood	intact	brown	<LOD			no	no
583	1st Fl. Room 225	North	baseboard	wood	intact	stained	<LOD			no	no
584	**1st Fl. Room 225**	**North**	**wall**	**concrete**	**intact**	**beige**	**8.30**	**±**	**6.90**	**yes**	**yes**
585	1st Fl. Room 225	North	window frame	wood	intact	brown	<LOD			no	no
586	1st Fl. Room 225	North	window sill	wood	intact	brown	<LOD			no	no
587	**1st Fl. Room 225**	**North**	**column**	**plaster**	**intact**	**beige**	**7.00**	**±**	**4.30**	**yes**	**yes**
588	1st Fl. Room 225	East	wall	plaster	intact	beige	<LOD			no	no

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589	1st Fl. Room 225	South	wall	plaster	intact	beige	<LOD	no	no
590	1st Fl. Room 225	South	wall	plaster	intact	beige	0.70 ± 0.30	no	yes
591	1st Fl. Room 225	South	door frame	wood	intact	brown	<LOD	no	no
592	1st Fl. Room 225	South	door	wood	intact	brown	<LOD	no	no
593	1st Fl. Room 225	West	wall	plaster	intact	beige	0.60 ± 0.40	no	yes
594	1st Fl. Room 225	East	wall	plaster	intact	beige	<LOD	no	no
595	1st Fl. Room 203	South	wall	concrete	fair	beige	<LOD	no	no
596	1st Fl. Room 203	West	door frame	wood	intact	brown	<LOD	no	no
597	1st Fl. Room 203	West	door	wood	intact	brown	<LOD	no	no
598	1st Fl. Room 203	West	wall	concrete	intact	beige	0.60 ± 0.40	no	yes
599	1st Fl. Room 203	West	baseboard	wood	intact	brown	<LOD	no	no
600	1st Fl. Room 203	North	wall	concrete	intact	beige	0.50 ± 0.50	no	yes
601	1st Fl. Room 203	North	window frame	wood	intact	brown	<LOD	no	no
602	NULL								
603	1st Fl. Room 203	North	window sill	wood	intact	brown	<LOD	no	no
604	1st Fl. Room 203	East	wall	concrete	intact	beige	0.40 ± 0.60	no	yes
605	1st Fl. Room 203		railing	wood	intact	brown	<LOD	no	no
606	1st Fl. Room 203		stairs	wood	intact	brown	0.02 ± 0.09	no	yes
607	1st Fl. Room 203		column	wood	intact	brown	<LOD	no	no
608	NULL								
609	1st Fl. Room 203		underside of stairs	plaster	intact	white	0.50 ± 0.50	no	yes
610	1st Fl. Room 203	South	crown molding	wood	intact	white	<LOD	no	no
611	1st Fl. Room 203	South	soffit	plaster	intact	beige	<LOD	no	no
612	1st Fl. Room 203	North	wall	concrete	fair	beige	<LOD	no	no
613	1st Fl. Room 203	East	wall	concrete	intact		0.60 ± 0.40	no	yes
614	1st Fl. Room 203	South	wall	gypboard	intact	beige	<LOD	no	no
615	1st Fl. Room 203	South	door frame	wood	fair	brown	<LOD	no	no
616	NULL								
617	1st Fl. Room 203	South	door	wood	fair	brown	<LOD	no	no
618	1st Fl. Room 203	West	wall	concrete	fair	beige	<LOD	no	no
619	1st Fl. Room 212A Janitor Closet	South	wall	plaster	intact	gray	<LOD	no	no
620	1st Fl. Room 212A Janitor Closet	West	wall	plaster	intact	gray	0.01 ± 0.04	no	yes
621	**1st Fl. Room 212A Janitor Closet**	**West**	**door frame**	**wood**	**intact**	**brown**	**1.90 ± 0.80**	**yes**	**yes**
622	**1st Fl. Room 212A Janitor Closet**	**West**	**door**	**wood**	**peeling**	**brown**	**1.90 ± 0.80**	**yes**	**yes**
623	1st Fl. Room 212A Janitor Closet	North	wall	plaster	intact	gray	0.04 ± 0.02	no	yes
624	**1st Fl. Room 212A Janitor Closet**	**East**	**wall**	**plaster**	**intact**	**gray**	**1.80 ± 0.80**	**yes**	**yes**
625	1st Fl. Room 217	North	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
626	1st Fl. Room 244	East	wall	plaster	intact	white	<LOD	no	no
627	1st Fl. Room 244		ceiling	plaster	intact	white	<LOD	no	no
628	1st Fl. Room 244	South	wall	plaster	intact	white	<LOD	no	no
629	1st Fl. Room 213	North	wall	plaster	intact	white	<LOD	no	no
630	1st Fl. Room 213	West	wall	concrete	intact	white	<LOD	no	no
631	1st Fl. Room 213	South	wall	gypboard	intact	white	<LOD	no	no
632	1st Fl. Room 213	East	wall	gypboard	intact	white	<LOD	no	no
633	1st Fl. Room 213	West	window sill	wood	intact	beige	<LOD	no	no
634	1st Fl. Room 213	West	window sash	wood	intact	white	<LOD	no	no
635	1st Fl. Room 244	North	door frame	wood	intact	brown	<LOD	no	no
636	1st Fl. Room 218	North	door	wood	intact	brown	<LOD	no	no
637	1st Fl. Room 218		crown molding	wood	intact	white	<LOD	no	no

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638	NULL								
639	2nd Fl. Room 236	East	door frame	wood	intact	brown	<LOD	no	no
640	2nd Fl. Room 236	East	door	wood	intact	brown	<LOD	no	no
641	2nd Fl. Room 236	West	cabinet	wood	intact	stained	<LOD	no	no
642	2nd Fl. Room 235 corridor		ceiling	plaster	intact	white	<LOD	no	no
643	2nd Fl. Room 235 corridor	South	crown molding	wood	intact	white	<LOD	no	no
644	2nd Fl. Room 235 corridor	South	wall trim	wood	intact	stained	<LOD	no	no
645	2nd Fl. Room 235 corridor	North	wall	plaster	intact	white	<LOD	no	no
646	2nd Fl. Room 235 corridor	South	wall	plaster	intact	white	<LOD	no	no
647	2nd Fl. Room 235 corridor	North	door frame	wood	intact	brown	<LOD	no	no
648	2nd Fl. Room 235 corridor	East	door	wood	intact	brown	<LOD	no	no
649	2nd Fl. Room 235 RR	North	wall	gypboard	intact	beige	0.60 ± 0.30	no	yes
650	2nd Fl. Room 235 RR	East	wall	gypboard	intact	beige	0.01 ± 0.03	no	yes
651	2nd Fl. Room 235 RR	South	wall	gypboard	intact	beige	<LOD	no	no
652	2nd Fl. Room 235 RR	North	door frame	wood	intact	brown	<LOD	no	no
653	2nd Fl. Room 235 RR	South	door	wood	intact	brown	<LOD	no	no
654	2nd Fl. Room 235 RR	West	wall	gypboard	intact	beige	<LOD	no	no
655	2nd Fl. Room 235	South	wall	gypboard	intact	white	<LOD	no	no
656	2nd Fl. Room 235	South	column	plaster	intact	white	<LOD	no	no
657	2nd Fl. Room 235	West	window sill	wood	intact	brown	<LOD	no	no
658	**2nd Fl. Room 235**	**West**	**wall**	**concrete**	**intact**	**white**	**12.40 ± 11.20**	**yes**	**yes**
659	2nd Fl. Room 235	West	baseboard	wood	intact	stained	<LOD	no	no
660	**2nd Fl. Room 235**	**West**	**wall**	**concrete**	**intact**	**white**	**11.40 ± 10.20**	**yes**	**yes**
661	2nd Fl. Room 235	North	wall	gypboard	intact	white	<LOD	no	no
662	NULL						0.02 ± 0.23	no	yes
663	2nd Fl. Room 234	North	crown molding	wood	intact	white	<LOD	no	no
664	2nd Fl. Room 234		ceiling	plaster	intact	beige	<LOD	no	no
665	2nd Fl. Room 234	West	wall	gypboard	intact	beige	0.50 ± 0.50	no	yes
666	2nd Fl. Room 234	West	baseboard	wood	intact	brown	<LOD	no	no
667	2nd Fl. Room 234	East	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
668	2nd Fl. Room 234	South	wall	gypboard	intact	white	0.60 ± 0.40	no	yes
669	1st Fl. Room 116	West	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
670	1st Fl. Room 116	North	door frame	wood	intact	stained	<LOD	no	no
671	1st Fl. Room 116	North	door	wood	intact	stained	<LOD	no	no
672	1st Fl. Room 116	North	wall	gypboard	intact	white	<LOD	no	no
673	1st Fl. Room 116		wall	gypboard	intact	white	<LOD	no	no
674	1st Fl. Room 116	South	wall	gypboard	intact	white	0.01 ± 0.02	no	yes
675	**2nd Fl. Room 208A**	**West**	**wall**	**plaster**	**intact**	**gray**	**1.80 ± 0.80**	**yes**	**yes**
676	NULL								
677	2nd Fl. Room 208A	West	crown molding	plaster	intact	white	0.09 ± 0.17	no	yes
678	2nd Fl. Room 208A		ceiling	plaster	intact	white	0.28 ± 0.69	no	yes
679	**2nd Fl. Room 208A**	**South**	**wall**	**concrete**	**intact**	**gray**	**6.50 ± 3.90**	**yes**	**yes**
680	NULL								
681	2nd Fl. Room 208A	West	wall	gypboard	intact	gray	<LOD	no	no
682	2nd Fl. Room 208A	West	door frame	wood	intact	white	<LOD	no	no
683	2nd Fl. Room 208A	West	door	wood	intact	white	<LOD	no	no
684	NULL								
685	2nd Fl. Room 208A	North	column	plaster	intact	white	<LOD	no	no
686	2nd Fl. Room 208A	West	baseboard	wood	intact	stained	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 6, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
687	**2nd Fl. Room 208A**	**East**	**wall**	**concrete**	**intact**	**white**	**8.70 ± 7.60**	**yes**	**yes**
688	2nd Fl. Room 208A	West	window frame	wood	intact	white	<LOD	no	no
689	2nd Fl. Room 208A	East	window sill	wood	intact	white	<LOD	no	no
690	**2nd Fl. Room 208A**	**South**	**wall**	**concrete**	**intact**	**white**	**1.80 ± 0.80**	**yes**	**yes**
691	2nd Fl. Room 206	South	wall	concrete	intact	gray	<LOD	no	no
692	2nd Fl. Room 206	West	wall	gypboard	intact	white	<LOD	no	no
693	2nd Fl. Room 206	West	wall	plaster	intact	white	<LOD	no	no
694	2nd Fl. Room 206	South	window frame	wood	intact	white	<LOD	no	no
695	2nd Fl. Room 206	South	window sill	wood	intact	white	0.01 ± 0.07	no	yes
696	2nd Fl. Room 207	East	wall	gypboard	intact	white	<LOD	no	no
697	2nd Fl. Room 207	South	wall	gypboard	intact	white	<LOD	no	no
698	2nd Fl. Room 207	South	door frame	wood	intact	brown	<LOD	no	no
699	2nd Fl. Room 207	South	door	wood	intact	brown	<LOD	no	no
700	2nd Fl. Room 207	South	baseboard	wood	intact	stained	0.01 ± 0.05	no	yes
701	2nd Fl. Room 207	West	wall	gypboard	intact	white	0.23 ± 0.42	no	yes
702	2nd Fl. Room 207	North	wall	gypboard	intact	white	<LOD	no	no
703	**2nd Fl. Room 201A Public Lobby**	**East**	**wall**	**plaster**	**intact**	**white**	**9.00 ± 7.40**	**yes**	**yes**
704	2nd Fl. Room 201A Public Lobby	East	crown molding	plaster	intact	white	0.04 ± 0.05	no	yes
705	2nd Fl. Room 201A Public Lobby		ceiling	plaster	intact	white	<LOD	no	no
706	**2nd Fl. Room 201A Public Lobby**	**South**	**wall**	**plaster**	**intact**	**white**	**11.70 ± 10.50**	**yes**	**yes**
707	**2nd Fl. Room 201A Public Lobby**	**West**	**wall**	**plaster**	**peeling**	**white**	**1.80 ± 0.80**	**yes**	**yes**
708	2nd Fl. Room 201A Public Lobby	North	wall	plaster	intact	white	<LOD	no	no
709	2nd Fl. Room 201A Public Lobby	North	wall trim	wood	intact	white	<LOD	no	no
710	2nd Fl. Room 201A Public Lobby	East	door frame	wood	intact	brown	0.50 ± 0.40	no	yes
711	2nd Fl. Room 201A Public Lobby	East	door	wood	intact	brown	<LOD	no	no
712	2nd Fl. Room 20		crown molding	wood	fair	white	<LOD	no	no
713	2nd Fl. Room 20	South	door frame	wood	intact	brown	0.02 ± 0.08	no	yes
714	2nd Fl. Room 20		door	wood	intact	brown	<LOD	no	no
715	2nd Fl. Room 20	East	crown molding		intact	white	<LOD	no	no
716	2nd Fl. Room 20		shelf	wood	intact	Stained	<LOD	no	no
717	2nd Fl. Room 202	West	crown molding	wood	intact	white	<LOD	no	no
718	2nd Fl. Room 202	South	wall	plaster	intact	white	<LOD	no	no
719	2nd Fl. Room 202	West	door frame	wood	intact	brown	<LOD	no	no
720	2nd Fl. Room 202	West	door	wood	intact	brown	<LOD	no	no
721	2nd Fl. Room 202	West	wall	plaster	intact	white	0.60 ± 0.40	no	yes
722	**2nd Fl. Room 202**	**North**	**wall**	**concrete**	**intact**	**beige**	**14.50 ± 11.30**	**yes**	**yes**
723	2nd Fl. Room 202	North	baseboard	wood	intact	brown	<LOD	no	no
724	2nd Fl. Room 202	East	wall	plaster	intact	white	<LOD	no	no
725	2nd Fl. Room 202	South	crown moldings	wood	intact	white	<LOD	no	no
726	2nd Fl. Room 202						<LOD	no	no
727	2nd Fl. Room 205	South	wall	plaster	peeling	white	0.01 ± 0.07	no	yes
728	2nd Fl. Room 205	North	wall	plaster	intact	white	<LOD	no	no
729	2nd Fl. Room 205	North	window frame	wood	intact	brown	<LOD	no	no
730	2nd Fl. Room 205	North	window	wood	intact	brown	<LOD	no	no
731	NULL								
732	2nd Fl. Room 204 corridor		ceiling	plaster	intact	white	0.01 ± 0.04	no	yes
733	2nd Fl. Room 206	West	wall	plaster	intact	white	<LOD	no	no
734	2nd Fl. Room 206	North	wall	plaster	intact	white	<LOD	no	no
735	2nd Fl. Room 206	North	window frame	wood	intact	brown	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 6, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
736	2nd Fl. Room 206	North	window sill	wood	intact	brown	<LOD	no	no
737	2nd Fl. Room 206	South	wall	plaster	intact	white	0.70 ± 0.30	no	yes
738	Calibration						1.00 ± 0.10		
739	Calibration						0.90 ± 0.10		
740	Calibration						1.00 ± 0.10		

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Laboratory Report

Painted Surfaces Total Elemental Lead Analyses
by X-Ray Fluorescence

EMET ID: 1511498 **Test Date: December 8, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
800	Calibration						0.80 ± 0.10		
801	Calibration						0.90 ± 0.10		
802	Calibration						0.90 ± 0.10		
803	2nd Fl. Room 216	South	wall	concrete	intact	white	<LOD	no	no
804	2nd Fl. Room 216	East	wall	gypboard	intact	white	<LOD	no	no
805	2nd Fl. Room 216	North	wall	gypboard	fair	white	<LOD	no	no
806	2nd Fl. Room 216	West	wall	gypboard	intact	white	<LOD	no	no
807	2nd Fl. Room 216	South	window frame	wood	intact	gray	<LOD	no	no
808	2nd Fl. Room 216	West	door frame	wood	intact	stained	<LOD	no	no
809	2nd Fl. Room 216	West	door	wood	intact	stained	<LOD	no	no
810	2nd Fl. Mail Room Side Room	East	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
811	2nd Fl. Mail Room Side Room	South	wall trim	gypboard	intact	white	<LOD	no	no
812	2nd Fl. Mail Room Side Room	North	wall	plaster	intact	yellow	<LOD	no	no
813	2nd Fl. Mail Room Side Room	North	door frame	wood	intact	stained	<LOD	no	no
814	2nd Fl. Mail Room Side Room	North	door	wood	intact	tan	<LOD	no	no
815	2nd Fl. Room 207	West	wall	gypboard	intact	white	0.01 ± 0.06	no	yes
816	2nd Fl. Room 207	North	wall	gypboard	intact	white	<LOD	no	no
817	2nd Fl. Room 207	North	conduit pipe	metal	intact	white	<LOD	no	no
818	2nd Fl. Room 207	East	wall	gypboard	intact	white	<LOD	no	no
819	2nd Fl. Room 207	East	window frame	wood	intact	gray	<LOD	no	no
820	2nd Fl. Room 207	East	window	wood	intact	gray	0.02 ± 0.11	no	yes
821	2nd Fl. Room 207	East	wall	gypboard	intact	white	<LOD	no	no
822	2nd Fl. Room 207	East	window frame	wood	fair	gray	<LOD	no	no
823	2nd Fl. Room 207 North Office	South	wall	gypboard	intact	yellow	0.50 ± 0.50	no	yes
824	2nd Fl. Room 207 North Office	South	door frame	wood	intact	tan	<LOD	no	no
825	2nd Fl. Room 207 North Office	North	wall	gypboard	intact	white	0.01 ± 0.07	no	yes
826	2nd Fl. Room 207 North Office	North	wall	gypboard	fair	white	<LOD	no	no
827	2nd Fl. Room 207 North End Office	West	wall	gypboard	intact	white	<LOD	no	no
828	2nd Fl. Room 207 North End Office	North	wall	gypboard	intact	white	<LOD	no	no
829	2nd Fl. Room 207 North End Office	East	wall	gypboard	intact	white	<LOD	no	no
830	2nd Fl. Room 207 North End Office	South	wall	gypboard	intact		<LOD	no	no
831	2nd Fl. Room 231	East	wall	gypboard	intact	white	<LOD	no	no
832	2nd Fl. Room 231	East	window frame	wood	intact	gray	<LOD	no	no
833	2nd Fl. Room 231	West	wall	gypboard	intact	white	<LOD	no	no
834	2nd Fl. Room 231	North	wall	gypboard	intact	white	<LOD	no	no
835	2nd Fl. Room 231	East	door frame	wood	intact	stained	<LOD	no	no
836	2nd Fl. Room 231	East	door	wood	intact	stained	<LOD	no	no
837	2nd Fl. Room 231 North East Office	East	wall	gypboard	fair	white	0.60 ± 0.40	no	yes
838	2nd Fl. Room 231 North East Office	South	wall	gypboard	fair	white	<LOD	no	no
839	2nd Fl. Room 231 North East Office	North	wall	gypboard	intact	white	<LOD	no	no
840	2nd Fl. Room 231 North East Office	West	wall	gypboard	intact	white	<LOD	no	no

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Serial #7798, Source Date 4/2014

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EMET ID: 1511498 **Test Date: December 8, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
841	2nd Fl. Room 231	North	wall	plaster	intact	white	<LOD	no	no
842	2nd Fl. Room 231	East	wall	gypboard	intact	white	<LOD	no	no
843	2nd Fl. Room 231		column	gypboard	intact	white	<LOD	no	no
844	2nd Fl. Room 231	West	wall	gypboard	intact	white	<LOD	no	no
845	2nd Fl. Room 215	North	wall	gypboard	intact	white	<LOD	no	no
846	2nd Fl. Room 215	East	door frame	wood	intact	stained	<LOD	no	no
847	2nd Fl. Room 215	East	door	wood	intact	stained	<LOD	no	no
848	2nd Fl. Room 215	East	wall	gypboard	intact	white	<LOD	no	no
849	2nd Fl. Room 215	South	wall	gypboard	intact	white	<LOD	no	no
850	2nd Fl. Room 215	West	wall	gypboard	intact	white	<LOD	no	no
851	2nd Fl. Room 215	West	wall	concrete	intact	gray	<LOD	no	no
852	2nd Fl. Room 215	East	wall	gypboard	intact	gray	<LOD	no	no
853	2nd Fl. Room 215	South	wall	gypboard	intact	gray	<LOD	no	no
854	2nd Fl. Room 215	West	wall	gypboard	intact	gray	<LOD	no	no
855	2nd Fl. Room 215		ceiling	gypboard	intact	gray	<LOD	no	no
856	2nd Fl. Room 215	West	door frame	wood	intact	brown	<LOD	no	no
857	2nd Fl. Room 215	West	door	wood	intact	brown	<LOD	no	no
858	2nd Fl. Room 215	South	wall	concrete	intact	gray	<LOD	no	no
859	2nd Fl. Room 215	West	wall	gypboard	intact	gray	<LOD	no	no
860	2nd Fl. Room 215	North	wall	gypboard	intact	gray	<LOD	no	no
861	2nd Fl. Room 215	East	wall	gypboard	intact	gray	<LOD	no	no
862	2nd Fl. Room 215		stall partition	wood	intact	gray	<LOD	no	no
863	NULL								
864	2nd Fl. Room 215		ceiling	gypboard	intact	gray	<LOD	no	no
865	2nd Fl. Room 215	East	wall	plaster	intact	gray	<LOD	no	no
866	2nd Fl. Room 215	South	wall	concrete	intact	gray	0.28 ± 0.31	no	yes
867	2nd Fl. Room 215	West	wall	gypboard	fair	gray	0.50 ± 0.10	no	yes
868	2nd Fl. Room 215	North	wall	concrete	peeling	gray	0.60 ± 0.10	no	yes
869	2nd Fl. Room 215		ceiling	gypboard	fair	gray	<LOD	no	no
870	2nd Fl. Room 201B	East	crown molding	plaster	intact	white	0.12 ± 0.29	no	yes
871	2nd Fl. Room 201B	East	wall trim	plaster	intact	gray	0.17 ± 0.40	no	yes
872	2nd Fl. Room 201B		ceiling	plaster	intact	gray	0.50 ± 0.50	no	yes
873	**2nd Fl. Room 201B**	**South**	**wall**	**concrete**	**fair**	**white**	**1.00 ± 0.30**	**yes**	**yes**
874	2nd Fl. Room 201B	West	wall	plaster	intact		0.13 ± 0.27	no	yes
875	**2nd Fl. Room 201B**	**North**	**wall**	**plaster**	**intact**	**white**	**10.00 ± 8.10**	**yes**	**yes**
876	**2nd Fl. Room 201B**	**East**	**wall**	**plaster**	**intact**	**white**	**11.10 ± 9.60**	**yes**	**yes**
877	2nd Fl. Room 201B	West	post	metal	fair	white	0.05 ± 0.07	no	yes
878	2nd Fl. Room 201B	West	railing	wood	intact	brown	0.30 ± 0.11	no	yes
879	NULL								
880	2nd Fl. Mauka Rotunda	South	baseboard	wood	fair	brown	0.90 ± 0.10	no	yes
881	**2nd Fl. Mauka Rotunda**	**South**	**wall**	**plaster**	**intact**	**gray**	**18.00 ± 15.00**	**yes**	**yes**
882	**2nd Fl. Mauka Rotunda**	**South**	**wall trim**	**wood**	**intact**	**white**	**12.10 ± 10.20**	**yes**	**yes**
883	**2nd Fl. Mauka Rotunda**	**West**	**wall**	**plaster**	**intact**	**gray**	**22.90 ± 21.70**	**yes**	**yes**
884	**2nd Fl. Mauka Rotunda**	**West**	**column**	**plaster**	**intact**	**white**	**13.10 ± 11.10**	**yes**	**yes**
885	2nd Fl. Mauka Rotunda	North	wall	plaster	intact	gray	0.01 ± 0.03	no	yes
886	2nd Fl. Mauka Rotunda	North	wall	plaster	intact	white	<LOD	no	no

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887	2nd Fl. Mauka Rotunda	North	door frame	wood	intact	brown	<LOD	no	no
888	2nd Fl. Mauka Rotunda	North	door	wood	intact	brown	<LOD	no	no
889	**2nd Fl. Mauka Rotunda**	**East**	**wall**	**wood**	**intact**	**gray**	**13.20 ± 11.00**	**yes**	**yes**
890	**2nd Fl. Mauka Rotunda**		**column**	**plaster**	**intact**	**white**	**17.10 ± 15.10**	**yes**	**yes**
891	2nd Fl. Mauka Elevator Lobby	East	wall	concrete	intact	off white	<LOD	no	no
892	2nd Fl. Mauka Elevator Lobby	East	baseboard	wood	intact	stained	<LOD	no	no
893	2nd Fl. Mauka Elevator Lobby	South	wall	concrete	intact	off white	<LOD	no	no
894	NULL								
895	2nd Fl. Mauka Elevator Lobby	South	Elevator door frame	metal	intact	brown	0.02 ± 0.04	no	yes
896	2nd Fl. Mauka Elevator Lobby	South	Elevator door	metal	intact	brown	0.06 ± 0.10	no	yes
897	2nd Fl. Mauka Elevator Lobby	West	wall	concrete	intact	off white	<LOD	no	no
898	2nd Fl. Mauka Elevator Lobby		soffit	plaster	intact	off white	<LOD	no	no
899	2nd Fl. Corridor	West	door frame	wood	intact	stained	<LOD	no	no
900	2nd Fl. Corridor	West	door	wood	intact	stained	<LOD	no	no
901	2nd Fl. Corridor	West	baseboard	wood	intact	stained	<LOD	no	no
902	2nd Fl. Corridor	West	window frame	wood	intact	stained	<LOD	no	no
903	2nd Fl. Room 213	West	wall	gypboard	intact	white	<LOD	no	no
904	2nd Fl. Room 213	North	wall	gypboard	intact	white	<LOD	no	no
905	2nd Fl. Room 213	North	door frame	wood	intact	stained	<LOD	no	no
906	2nd Fl. Room 213	North	door frame	wood	intact	stained	<LOD	no	no
907	2nd Fl. Room 213	South	wall	gypboard	intact	white	<LOD	no	no
908	2nd Fl. Room 213	West	wall	gypboard	intact	white	<LOD	no	no
909	2nd Fl. Room 213	South	window frame	wood	intact	gray	<LOD	no	no
910	2nd Fl. Room 213	South	window	wood	intact	gray	<LOD	no	no
911	2nd Fl. Corridor Makai West	South	door frame	wood	intact	tan	<LOD	no	no
912	2nd Fl. Corridor Makai West	South	door	wood	intact	stained	<LOD	no	no
913	2nd Fl. Corridor Makai West	South	baseboard	wood	intact	stained	<LOD	no	no
914	2nd Fl. Room 215	East	wall	gypboard	intact	white	<LOD	no	no
915	2nd Fl. Room 215	East	door frame	wood	intact	stained	0.02 ± 0.08	no	yes
916	2nd Fl. Room 215	East	door	wood	intact	stained	<LOD	no	no
917	2nd Fl. Room 215	South	wall	gypboard	intact	white	1.00 ± 0.30		
918	2nd Fl. Room 215	South	window frame	wood	intact	gray	<LOD	no	no
919	2nd Fl. Room 215	North	wall	gypboard	intact	white	0.50 ± 0.40	no	yes
920	2nd Fl. Room 215	West	wall	gypboard	intact	white	<LOD	no	no
921	2nd Fl. Room 215 Side Room	East	wall	gypboard	intact	white	<LOD	no	no
922	2nd Fl. Room 215 Side Room	South	wall	gypboard	intact	white	0.60 ± 0.40	no	yes
923	2nd Fl. Room 215 Side Room	South	window frame	wood	intact	stained	<LOD	no	no
924	2nd Fl. Room 215 Side Room	West	wall	gypboard	intact	white	<LOD	no	no
925	2nd Fl. Room 215 Side Room	North	wall	gypboard	intact	white	<LOD	no	no
926	2nd Fl. Room 212	East	wall	gypboard	intact	white	0.01 ± 0.03	no	yes
927	2nd Fl. Room 212	East	door frame	wood	intact	stained	<LOD	no	no
928	2nd Fl. Room 212	East	door	wood	intact	stained	<LOD	no	no
929	2nd Fl. Room 212	South	column	gypboard	intact	white	<LOD	no	no
930	2nd Fl. Room 212	South	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
931	NULL								
932	2nd Fl. Room 212	West	wall	gypboard	intact	white	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 8, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
933	2nd Fl. Room 212	North	window frame	wood	intact	gray	<LOD	no	no
934	2nd Fl. Room 212	North	window sash	wood	intact	beige	0.01 ± 0.04	no	yes
935	2nd Fl. Room 212	North	wall	gypboard	intact	white	0.02 ± 0.08	no	yes
936	2nd Fl. Room 212, West Office	South	wall	gypboard	intact	white	<LOD	no	no
937	2nd Fl. Room 212, East Office	South	wall	gypboard	intact	white	0.02 ± 0.10	no	yes
938	2nd Fl. Room Lounge		ceiling	gypboard	intact	white	<LOD	no	no
939	2nd Fl. Room Lounge	West	wall	gypboard	intact	white	<LOD	no	no
940	2nd Fl. Room Lounge	North	wall	concrete	intact	white	<LOD	no	no
941	2nd Fl. Room Lounge	East	wall	gypboard	fair	white	<LOD	no	no
942	NULL								
943	2nd Fl. Room Lounge	South	wall	gypboard	fair	white	<LOD	no	no
944	2nd Fl. Room Lounge		door frame	wood		stained	<LOD	no	no
945	2nd Fl. Storage	West	wall	gypboard	intact	white	<LOD	no	no
946	2nd Fl. Storage	North	wall	concrete	intact	white	<LOD	no	no
947	2nd Fl. Storage	East	wall	gypboard	intact	white	0.60 ± 0.40	no	yes
948	2nd Fl. Storage	South	wall	gypboard	intact	white	<LOD	no	no
949	2nd Fl. Storage	South	door frame	wood	intact	stained	<LOD	no	no
950	2nd Fl. Makai stairs	South	soffit	wood	intact	gray	<LOD	no	no
951	2nd Fl. Makai stairs	South	crown molding	plaster	intact	white	<LOD	no	no
952	2nd Fl. Makai stairs		ceiling	plaster	intact	gray	<LOD	no	no
953	NULL								
954	2nd Fl. Makai stairs	South	wall	gypboard	intact	white	<LOD	no	no
955	2nd Fl. Makai stairs	East	wall	gypboard	intact	white	<LOD	no	no
956	NULL								
957	2nd Fl. Makai stairs	East	column	plaster	intact	white	<LOD	no	no
958	2nd Fl. Makai stairs	East	post	metal	intact	white	0.15 ± 0.27	no	yes
959	2nd Fl. Makai stairs	East	railing	wood	intact	stained	<LOD	no	no
960	2nd Fl. Makai stairs	North	wall	gypboard	intact	white	<LOD	no	no
961	2nd Fl. Makai stairs	North	display case	wood	intact	stained	<LOD	no	no
962	2nd Fl. Makai stairs	West	wall	gypboard	intact	white	<LOD	no	no
963	2nd Fl. Makai stairs	West	column base	wood	intact	white	<LOD	no	no
964	2nd Fl. Copy Room	East	wall	gypboard	fair	white	<LOD	no	no
965	2nd Fl. Copy Room	South	wall	gypboard	fair	white	0.60 ± 0.40	no	yes
966	2nd Fl. Copy Room	West	wall	gypboard	fair	white	<LOD	no	no
967	2nd Fl. Copy Room	North	wall	gypboard	fair	white	<LOD	no	no
968	2nd Fl. Copy Room	North	door frame	wood	intact	stained	<LOD	no	no
969	2nd Fl. Copy Room	North	door	wood	intact	stained	<LOD	no	no
970	2nd Fl. Makai East corridor	North	door frame	wood	intact	stained	<LOD	no	no
971	2nd Fl. Makai East corridor	North	door	wood	intact	stained	<LOD	no	no
972	2nd Fl. Makai East corridor	South	baseboard	wood	intact	stained	<LOD	no	no
973	2nd Fl. Makai Women's RR	East	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
974	2nd Fl. Makai Women's RR	South	wall	gypboard	intact	gray	<LOD	no	no
975	2nd Fl. Makai Women's RR		stall partition	wood	intact	stained	<LOD	no	no
976	2nd Fl. Makai Women's RR	West	wall	gypboard	intact	gray	<LOD	no	no
977	2nd Fl. Makai Women's RR	North	wall	concrete	intact	gray	<LOD	no	no
978	2nd Fl. Makai Women's RR	North	window frame	wood	intact	beige	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 8, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
979	2nd Fl. Makai Women's RR		soffit	gypboard	intact	gray	<LOD	no	no
980	2nd Fl. Makai Women's RR	South	door frame	wood	intact	stained	<LOD	no	no
981	2nd Fl. Makai Women's RR	South	door	wood	intact	stained	<LOD	no	no
982	2nd Fl. Makai DH Closet	West	wall	gypboard	intact	white	0.60 ± 0.40	no	yes
983	2nd Fl. Makai DH Closet	North	wall	gypboard	intact	off white	0.50 ± 0.40	no	yes
984	2nd Fl. Makai DH Closet	East	wall	gypboard	intact	off white	<LOD	no	no
985	2nd Fl. Makai DH Closet	South	door frame	wood	intact	stained	<LOD	no	no
986	2nd Fl. Makai DH Closet	South	door	wood	intact	stained	<LOD	no	no
987	2nd Fl. Makai DH Custodian	South	wall	gypboard	fair	off white	<LOD	no	no
988	2nd Fl. Makai DH Custodian	West	wall	gypboard	intact	off white	0.50 ± 0.50	no	yes
989	2nd Fl. Makai DH Custodian	North	wall	gypboard	intact	off white	<LOD	no	no
990	NULL								
991	2nd Fl. Makai DH Custodian	East	wall	gypboard	intact	off white	<LOD	no	no
992	2nd Fl. Makai DH Custodian	South	door frame	wood	intact	stained	0.01 ± 0.04	no	yes
993	NULL								
994	2nd Fl. Makai DH Custodian		ceiling	gypboard	intact	off white	<LOD	no	no
995	2nd Fl. Makai Men's RR		ceiling	gypboard	intact	white	<LOD	no	no
996	2nd Fl. Makai Men's RR	West	wall	gypboard	intact	white	<LOD	no	no
997	2nd Fl. Makai Men's RR	North	wall	concrete	intact	white	<LOD	no	no
998	2nd Fl. Makai Men's RR	East	stall partition	wood	intact	gray	<LOD	no	no
999	2nd Fl. Makai Men's RR	East	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
1000	2nd Fl. Makai Men's RR	South	wall	gypboard	intact	white	<LOD	no	no
1001	2nd Fl. Makai Room 218	North	wall	gypboard	intact	white	<LOD	no	no
1002	2nd Fl. Makai Room 218	North	door frame	wood	intact	stained	<LOD	no	no
1003	2nd Fl. Makai Room 218	North	door	wood	intact	stained	<LOD	no	no
1004	2nd Fl. Makai Room 218	East	wall	CMU	intact	white	<LOD	no	no
1005	NULL								
1006	2nd Fl. Makai Room 218	West	wall	gypboard	intact	white	<LOD	no	no
1007	2nd Fl. Makai Room 218	South	wall	gypboard	intact	white	<LOD	no	no
1008	2nd Fl. Makai Room 219	South	wall	gypboard	intact	white	<LOD	no	no
1009	2nd Fl. Makai Room 219	South	window frame	wood	intact	gray	<LOD	no	no
1010	2nd Fl. Makai Room 219	West	wall	CMU	intact	white	<LOD	no	no
1011	2nd Fl. Makai Room 219	South	column	gypboard	intact	white	<LOD	no	no
1012	2nd Fl. Makai Room 219	South	I-beam	metal	intact	red	0.03 ± 0.06	no	yes
1013	2nd Fl. Makai Room 219	North	wall	gypboard	intact	white	<LOD	no	no
1014	2nd Fl. Stairwell	West	wall	plaster	intact	white	<LOD	no	no
1015	2nd Fl. Stairwell	West	baseboard	wood	intact	stained	<LOD	no	no
1016	NULL								
1017	2nd Fl. Stairwell	North	wall	concrete	intact	white	<LOD	no	no
1018	NULL						<LOD		
1019	2nd Fl. Stairwell	East	wall	concrete	intact	white	<LOD	no	no
1020	NULL								
1021	2nd Fl. Stairwell	East	underside of stairs	metal	intact	gray	0.18 ± 0.27	no	yes
1022	2nd Fl. Stairwell	West	handrail	metal	intact	gray	0.40 ± 0.40	no	yes
1023	2nd Fl. Stairwell	West	railing	metal	intact	gray	0.12 ± 0.15	no	yes
1024	2nd Fl. Stairwell	South	wall	concrete	intact	gray	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 8, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
1025	2nd Fl. Stairwell	West	stairs	metal	intact	gray	0.07 ± 0.09	no	yes
1026	Attic		rafter	wood	intact	off white	<LOD	no	no
1027	Attic		ceiling	wood	intact	off white	<LOD	no	no
1028	Attic		I-beam	metal	intact	off white	0.05 ± 0.09	no	yes
1029	Attic	East	wall	wood	intact	off white	0.70 ± 0.30	no	yes
1030	Attic	North	wall	wood	intact	off white	<LOD	no	no
1031	NULL								
1032	Attic	West	wall	wood	intact	off white	<LOD	no	no
1033	Attic	South	wall	wood	intact	off white	0.50 ± 0.50	no	yes
1034	Attic	West	conduit pipe	metal	intact	off white	0.01 ± 0.04	no	yes
1035	Roof		I-beam	metal	intact	beige	0.22 ± 0.33	no	yes
1036	Roof		pipe	metal	intact	beige	<LOD	no	no
1037	Roof		rafter	wood	intact	beige	<LOD	no	no
1038	Roof		wall	plaster	intact	beige	<LOD	no	no
1039	Roof		ceiling	wood	intact	beige	<LOD	no	no
1040	Roof	North	beam	metal	intact	yellow	0.02 ± 0.04	no	yes
1041	Roof		floor	concrete	peeling	red	<LOD	no	no
1042	2nd Fl. Room 214	North	wall	gypboard	fair	white	<LOD	no	no
1043	2nd Fl. Room 214	North	door frame	wood	intact	stained	<LOD	no	no
1044	2nd Fl. Room 214 Back Room	North	door	wood	intact		<LOD	no	no
1045	2nd Fl. Room 214 Back Room	East	wall	gypboard	intact	white	<LOD	no	no
1046	2nd Fl. Room 214	East	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
1047	2nd Fl. Room 214	South	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
1048	2nd Fl. Room 214 Back Room	North	column	gypboard	intact	white	<LOD	no	no
1049	2nd Fl. Room 214	North	wall	gypboard	intact	white	<LOD	no	no
1050	Roof, West Mauka Enclosure	East	rafter	metal	intact	beige	0.08 ± 0.12	no	yes
1051	Roof, West Mauka Enclosure	East	wall	plaster	intact	beige	<LOD	no	no
1052	Roof, West Mauka Enclosure	East	I beam	metal	intact	beige	0.10 ± 0.12	no	yes
1053	Roof, West Mauka Enclosure		rafter	wood	intact	beige	<LOD	no	no
1054	Roof, West Mauka Enclosure		ceiling	wood	intact	beige	<LOD	no	no
1055	Roof, North Mauka Enclosure	North	I-beam	metal	intact	beige	0.04 ± 0.06	no	yes
1056	Roof, North Mauka Enclosure	North	beam	wood	fair	beige	<LOD	no	no
1057	Roof, North Mauka Enclosure		ceiling	wood	intact	beige	<LOD	no	no
1058	Roof, North Mauka Enclosure	South	wall	plaster	intact	beige	<LOD	no	no
1059	Roof, North Mauka Enclosure	South	conduit pipe	metal	intact	beige	<LOD	no	no
1060	Roof, North Mauka Enclosure	South	door frame	metal	fair	beige	<LOD	no	no
1061	Roof, North Mauka Enclosure	South	door	metal	intact	beige	<LOD	no	no
1062	NULL								
1063	Roof, North Mauka Enclosure	East	wall	plaster	intact	beige	0.01 ± 0.05	no	yes
1064	Roof, East Mauka Enclosure		duct	metal	intact	beige	<LOD	no	no
1065	Roof, East Mauka Enclosure		rafter	wood	intact		<LOD	no	no
1066	Roof, East Mauka Enclosure		ceiling	wood	intact	beige	<LOD	no	no
1067	Roof, East Mauka Enclosure		I-beam	metal	intact	beige	0.14 ± 0.17	no	yes
1068	2nd Fl. Room 239		crown molding	wood	intact	stained	<LOD	no	no
1069	2nd Fl. Room 239	West	wall	plaster	intact	yellow	<LOD	no	no
1070	2nd Fl. Room 239		ceiling	plaster	intact	white	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 8, 2016**

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XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
1071	2nd Fl. Room 239	North	wall	plaster	intact	beige	<LOD	no	no
1072	2nd Fl. Room 239	East	door frame	wood	intact	brown	<LOD	no	no
1073	NULL								
1074	2nd Fl. Room 239	East	door	wood	intact	brown	<LOD	no	no
1075	2nd Fl. Room 239	East	baseboard	wood	intact	stained	<LOD	no	no
1076	**2nd Fl. Room 239**	**West**	**wall**	**concrete**	**intact**	**beige**	**3.60 ± 2.60**	**yes**	**yes**
1077	2nd Fl. Room 239	West	window frame	wood	intact	brown	<LOD	no	no
1078	2nd Fl. Room 239	South	wall	plaster	intact	beige	<LOD	no	no
1079	2nd Fl. Room 239	North	wall	plaster	intact	beige	<LOD	no	no
1080	2nd Fl. Room 239 Bathroom	East	wall	plaster	intact	beige	<LOD	no	no
1081	2nd Fl. Room 239 Bathroom	South	wall	plaster	intact	yellow	0.01 ± 0.06	no	yes
1082	2nd Fl. Room 239 Bathroom	North	wall	gypboard	intact	beige	0.60 ± 0.40	no	yes
1083	2nd Fl. Room 238		baseboard	wood	intact	stained	<LOD	no	no
1084	2nd Fl. Room 238	East	wall	gypboard	intact		<LOD	no	no
1085	2nd Fl. Room 238	South	crown molding	wood	intact	beige	0.01 ± 0.06	no	yes
1086	2nd Fl. Room 238	South	wall	plaster	intact	beige	<LOD	no	no
1087	2nd Fl. Room 238	South	baseboard	wood	intact	brown	<LOD	no	no
1088	2nd Fl. Room 238	West	window frame	wood	intact	brown	<LOD	no	no
1089	2nd Fl. Room 238	West	window sash	wood	intact	brown	<LOD	no	no
1090	**2nd Fl. Room 238**	**West**	**wall**	**plaster**	**intact**	**beige**	**10.70 ± 9.20**	**yes**	**yes**
1091	2nd Fl. Room 238	North	wall	plaster	intact	beige	<LOD	no	no
1092	2nd Fl. Room 238	East	wall	plaster	intact	beige	<LOD	no	no
1093	2nd Fl. Room 238		ceiling	plaster	intact	beige	<LOD	no	no
1094	2nd Fl. Room 208 Supreme Court	West	wall	gypboard	intact	off white	<LOD	no	no
1095	2nd Fl. Room 208 Supreme Court	West	column	plaster	intact	white	<LOD	no	no
1096	2nd Fl. Room 208 Supreme Court	West	baseboard	wood	intact	stained	<LOD	no	no
1097	2nd Fl. Room 208 Supreme Court	West	door frame	wood	intact	white	<LOD	no	no
1098	2nd Fl. Room 208 Supreme Court	West	door	wood	intact	white	<LOD	no	no
1099	2nd Fl. Room 208 Supreme Court	North	wall	plaster	intact	off white	<LOD	no	no
1100	2nd Fl. Room 208 Supreme Court	East	column	plaster	intact	white	<LOD	no	no
1101	**2nd Fl. Room 208 Supreme Court**	**East**	**wall**	**plaster**	**intact**	**off white**	**6.40 ± 4.10**	**yes**	**yes**
1102	2nd Fl. Room 208 Supreme Court		railing	wood	intact	stained	<LOD	no	no
1103	2nd Fl. Room 208 Supreme Court	East	window frame	wood	intact	off white	<LOD	no	no
1104	Roof, Mauka South Attic	North	wall	plaster	intact	beige	<LOD	no	no
1105	Roof, Mauka South Attic	North	door frame	metal	intact	beige	<LOD	no	no
1106	Roof, Mauka South Attic	North	door	metal	intact	beige	<LOD	no	no
1107	Roof, Mauka South Attic	South	beam	wood	intact	beige	<LOD	no	no
1108	Roof, Mauka South Attic		I-beam	metal	intact	beige	0.16 ± 0.17	no	yes
1109	Roof, Mauka South Attic		ceiling	wood	fair	beige	<LOD	no	no
1110	Roof, Mauka South Attic	North	conduit pipe	metal	intact	beige	<LOD	no	no
1111	Roof, Mauka South Attic	South	wall	plaster	fair	beige	<LOD	no	no
1112	Roof, Mauka South Attic	North	brackets	metal	intact	beige	<LOD	no	no
1113	Roof, Mauka South Attic		duct	metal	intact	beige	<LOD	no	no
1114	Roof, Mauka South Attic	West	louvres	metal	intact	beige	<LOD	no	no
1115	Roof, Southwest Attic		I-beam	metal	intact	off white	0.06 ± 0.09	no	yes
1116	Roof, Southwest Attic		rafter	wood	intact	beige	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 8, 2016**

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1117	Roof, Southwest Attic		ceiling	wood	intact	off white	<LOD	no	no
1118	Roof, Southwest Attic	East	door frame	metal	intact	off white	<LOD	no	no
1119	Roof, Southwest Attic	East	door	metal	intact	off white	<LOD	no	no
1120	Calibration						1.00 ± 0.10		
1121	Calibration						0.90 ± 0.10		
1122	NULL								
1123	Calibration						0.90 ± 0.10		

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Laboratory Report

Painted Surfaces Total Elemental Lead Analyses by X-Ray Fluorescence

EMET ID: 1511498 **Test Date: December 9, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
1125	Calibration						0.90 ± 0.10		
1126	Calibration						0.90 ± 0.10		
1127	Calibration						0.90 ± 0.10		
1128	1st Fl Makai Rotunda	South	wall	gypboard	intact	white	<LOD	no	no
1129	1st Fl Makai Rotunda	West	bench	wood	intact	stained	<LOD	no	no
1130	1st Fl Makai Rotunda	West	wall	gypboard	intact	white	<LOD	no	no
1131	1st Fl Makai Rotunda	West	column	plaster	intact	white	<LOD	no	no
1132	1st Fl Makai Rotunda	West	door frame	wood	intact	stained	<LOD	no	no
1133	1st Fl Makai Rotunda	West	door	wood	intact	stained	<LOD	no	no
1134	1st Fl Makai Rotunda	North	wall	gypboard	intact	white	0.50 ± 0.50	no	yes
1135	1st Fl Makai Rotunda	North	underside of stairs	plaster	intact	white	<LOD	no	no
1136	1st Fl Makai Rotunda	North	I-beam	metal	intact	white	0.15 ± 0.18	no	yes
1137	1st Fl Makai Rotunda	North	post	metal	intact	white	0.19 ± 0.25	no	yes
1138	1st Fl Makai Rotunda	North	railing	wood	intact	stained	<LOD	no	no
1139	1st Fl Makai Rotunda	North	crown molding	wood	intact	white	<LOD	no	no
1140	1st Fl Makai Rotunda	North	soffit	gypboard	intact	white	-0.03 ± 0.84	no	yes
1141	1st Fl Exterior, North-facing		wall	CMU	fair	beige	0.01 ± 0.02	no	yes
1142	1st Fl Exterior, North-facing		column	concrete	fair	beige	0.50 ± 0.50	no	yes
1143	1st Fl Exterior, North-facing		railing	metal	peeling	beige	0.09 ± 0.27	no	yes
1144	1st Fl Exterior, North-facing		wall	CMU	intact	beige	<LOD	no	no
1145	1st Fl Exterior, North-facing		eave	metal	fair	brown	0.01 ± 0.05	no	yes
1146	1st Fl Exterior, East-facing		wall	CMU	fair	beige	0.29 ± 0.70	no	yes
1147	1st Fl Exterior, East-facing		wall	concrete	intact	beige	0.50 ± 0.40	no	yes
1148	1st Fl Exterior, East-facing		floor	concrete	intact	white	<LOD	no	no
1149	1st Fl Exterior, East-facing		column	concrete	intact	beige	<LOD	no	no
1150	1st Fl Exterior, East-facing		wall	CMU	intact	beige	<LOD	no	no
1151	1st Fl Exterior, East-facing		door frame	wood	fair	stained	<LOD	no	no
1152	1st Fl Exterior, East-facing		door	wood	intact	stained	0.01 ± 0.04	no	yes
1153	1st Fl Exterior, East-facing		window frame	wood	intact	beige	<LOD	no	no
1154	1st Fl Exterior, South-facing		wall	CMU	intact	beige	<LOD	no	no
1155	1st Fl Exterior, South-facing		window sash	wood	fair	white	<LOD	no	no
1156	1st Fl Exterior, South-facing		wall	CMU	fair	beige	<LOD	no	no
1157	1st Fl Exterior, South-facing		door frame	wood	intact	stained	<LOD	no	no
1158	1st Fl Exterior, South-facing		door	wood	intact	stained	<LOD	no	no
1159	NULL								
1160	1st Fl Exterior, West-facing		wall	CMU	fair	beige	0.23 ± 0.76	no	yes
1161	1st Fl Exterior, West-facing		wall	CMU	intact	beige	0.25 ± 0.74	no	yes
1162	1st Fl Exterior, West-facing		wall	CMU	intact	beige	<LOD	no	no

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(808) 671-8383...Telephone (808) 671-7979...Facsimile

EMET ID: 1511498 **Test Date: December 9, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
1163	1st Fl Exterior, West-facing		window frame	wood	intact	white	<LOD	no	no
1164	1st Fl Exterior, West-facing		window sash	wood	intact	white	<LOD	no	no
1165	1st Fl Exterior, West-facing		wall	CMU	intact	beige	<LOD	no	no
1166	1st Fl Exterior, West-facing		door frame	wood	intact	stained	<LOD	no	no
1167	1st Fl Exterior, West-facing		door	wood	intact	stained	<LOD	no	no
1168	1st Fl Exterior, West-facing		column	concrete	intact	beige	<LOD	no	no
1169	1st Fl Exterior, West-facing		wall	CMU	intact	beige	<LOD	no	no
1170	1st Fl Exterior, North-facing		wall	CMU	intact	beige	0.01 ± 0.02	no	yes
1171	1st Fl Exterior, North-facing		window sill	wood	intact	white	<LOD	no	no
1172	1st Fl Exterior, North-facing		column	concrete	fair	black	0.01 ± 0.02	no	yes
1173	1st Fl Room 110	East	wall	concrete	intact	beige	<LOD	no	no
1174	1st Fl Room 110	East	window frame	wood	intact	gray	<LOD	no	no
1175	**1st Fl Room 110**	**South**	**wall**	**concrete**	**intact**	**white**	**5.30 ± 4.00**	**yes**	**yes**
1176	1st Fl Room 110	South	baseboard	wood	intact	gray	<LOD	no	no
1177	**1st Fl Room 110**	**South**	**column**	**plaster**	**intact**	**white**	**13.60 ± 10.10**	**yes**	**yes**
1178	1st Fl Room 110	West	wall	plaster	intact	white	<LOD	no	no
1179	**1st Fl Room 111**	**East**	**wall**	**plaster**	**intact**	**green**	**13.00 ± 10.20**	**yes**	**yes**
1180	1st Fl Room 111	East	baseboard	wood	intact	beige	<LOD	no	no
1181	NULL								
1182	1st Fl Room 111	East	gate	wood	intact	stained	<LOD	no	no
1183	**1st Fl Room 111**	**South**	**wall**	**plaster**	**intact**	**green**	**19.10 ± 15.50**	**yes**	**yes**
1184	1st Fl Room 112	South	wall	gypboard	fair	white	0.50 ± 0.50	no	yes
1185	**1st Fl Room 112**	**South**	**column**	**plaster**	**intact**	**gray**	**2.00 ± 1.00**	**yes**	**yes**
1186	**1st Fl Room 112**	**East**	**wall**	**plaster**	**intact**	**white**	**7.60 ± 6.50**	**yes**	**yes**
1187	1st Fl Room 112	East	window frame	wood	intact	gray	<LOD	no	no
1188	2nd Fl Room 209	West	wall	plaster	intact	yellow	<LOD	no	no
1189	NULL								
1190	2nd Fl Room 209	South	wall	plaster	intact	yellow	0.01 ± 0.02	no	yes
1191	2nd Fl Room 209	West	wall	plaster	intact	yellow	<LOD	no	no
1192	2nd Fl Room 209	North	wall	plaster	intact	yellow	<LOD	no	no
1193	2nd Fl Room 209	North	door frame	wood	intact	brown	<LOD	no	no
1194	2nd Fl Room 209	North	column	plaster	intact	white	0.70 ± 0.30	no	yes
1195	2nd Fl Room 209	North	baseboard	wood	intact	stained	<LOD	no	no
1196	2nd Fl Room 209	East	wall	plaster	intact	white	0.20 ± 0.32	no	yes
1197	2nd Fl Room 209	East	window frame	wood	intact	brown	<LOD	no	no
1198	2nd Fl Room 209	South	door frame	wood	intact	brown	<LOD	no	no
1199	2nd Fl Room 209	South	door	wood	intact	brown	<LOD	no	no
1200	2nd Fl Room 207	West	wall	concrete	intact	beige	0.40 ± 0.60	no	yes
1201	2nd Fl Room 207	West	baseboard	wood	intact	brown	<LOD	no	no
1202	2nd Fl Room 207	North	wall	concrete	intact	beige	0.27 ± 0.72	no	yes
1203	2nd Fl Room 207	East	wall	gypboard	intact	beige	<LOD	no	no
1204	2nd Fl Room 207	East	door frame	wood	intact	brown	<LOD	no	no
1205	2nd Fl Room 207	East	door	wood	intact	brown	<LOD	no	no

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(808) 671-8383...Telephone (808) 671-7979...Facsimile

EMET ID: 1511498 **Test Date: December 9, 2016**

Ali'iolani Hale

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm^2)	Lead-Based Paint	Confirmed Lead-Containing Paint
1206	2nd Fl Room 207	East	wall	gypboard	intact	beige	0.60 ± 0.40	no	yes
1207	2nd Fl Room 207	East	crown molding	plaster	intact	white	0.01 ± 0.03	no	yes
1208	2nd Fl Room 207	East	crown molding	wood	intact	yellow	<LOD	no	no
1209	2nd Fl Room 210	East	wall	gypboard	fair	beige	0.25 ± 0.10	no	yes
1210	2nd Fl Room 210	East	window frame	wood	intact	black	<LOD	no	no
1211	NULL								
1212	2nd Fl Room 210	South	wall	gypboard	intact	beige	0.19 ± 0.04	no	yes
1213	2nd Fl Room 210	South	door frame	wood		brown	<LOD	no	no
1214	2nd Fl Room 210	South	door	wood	intact	brown	<LOD	no	no
1215	2nd Fl Room 210	West	wall	gypboard	intact	yellow	<LOD	no	no
1216	2nd Fl Room 210	West	crown molding	plaster	intact	white	<LOD	no	no
1217	2nd Fl Room 210	North	wall	gypboard	intact	beige	<LOD	no	no
1218	2nd Fl Room 210	West	wall	gypboard	intact	pink	<LOD	no	no
1219	2nd Fl Room 210	South	wall	gypboard	intact	pink	<LOD	no	no
1220	2nd Fl Room 210	East	wall	gypboard	intact	pink	<LOD	no	no
1221	2nd Fl Room 210	North	wall	gypboard	intact	pink	<LOD	no	no
1222	2nd Fl Room 210	North	lock box	metal	intact	beige	0.01 ± 0.04	no	yes
1223	2nd Fl Room 210	West	electrical box	metal	intact	beige	0.27 ± 0.24	no	yes
1224	2nd Fl Room 210		ceiling	gypboard	intact	white	<LOD	no	no
1225	2nd Fl Room 210		crown molding	wood	intact	white	<LOD	no	no
1226	2nd Fl Room 210	East	wall	gypboard	intact	white	<LOD	no	no
1227	2nd Fl Room 210	West	crown molding	wood	intact	white	<LOD	no	no
1228	2nd Fl Room 210		ceiling	plaster	intact	white	0.01 ± 0.05	no	yes
1229	2nd Fl Room 210	North	crown molding	wood	intact	white	<LOD	no	no
1230	2nd Fl Room 210		ceiling	plaster	intact	white	<LOD	no	no
1231	2nd Fl Room 210	North	wall	gypboard	intact	white	<LOD	no	no
1232	2nd Fl Room 231	East	wall	gypboard	intact	beige	<LOD	no	no
1233	2nd Fl Room 231	South	crown molding	plaster	intact	white	<LOD	no	no
1234	2nd Fl Room 231		ceiling	plaster	intact	white	0.60 ± 0.40	no	yes
1235	**2nd Fl Room 231**	**West**	**wall**	**plaster**	**intact**	**beige**	**1.60 ± 0.60**	**yes**	**yes**
1236	2nd Fl Room 231	West	window frame	wood	intact	brown	<LOD	no	no
1237	2nd Fl Room 231	West	window sash	wood	intact	brown	<LOD	no	no
1238	2nd Fl Room 231	North	wall	gypboard	intact	beige	<LOD	no	no
1239	2nd Fl Room 231	East	wall	gypboard	intact	beige	<LOD	no	no
1240	2nd Fl Room 231	East	baseboard	wood	intact	stained	<LOD	no	no
1241	2nd Fl Room 231 RR	East	wall	gypboard	intact	beige	<LOD	no	no
1242	2nd Fl Room 231 RR	South	wall	gypboard	intact	beige	<LOD	no	no
1243	2nd Fl Room 231 RR	West	wall	gypboard	intact	yellow	0.50 ± 0.50	no	yes
1244	2nd Fl Room 231 RR	West	door	wood	intact	brown	<LOD	no	no
1245	2nd Fl Room 231 RR	North	door frame	wood	intact	brown	<LOD	no	no
1246	2nd Fl Room 231 RR	North	wall	gypboard	intact	yellow	<LOD	no	no
1247	2nd Fl Room 231 Hallway		ceiling	gypboard	intact	white	<LOD	no	no
1248	2nd Fl Room 232	South	crown molding	wood	intact	stained	<LOD	no	no

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EMET ID: 1511498 **Test Date: December 9, 2016**

Ali'iolani Hale

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1249	2nd Fl Room 232	South	wall	plaster	intact	yellow	0.01 ± 0.04	no	yes
1250	2nd Fl Room 232	East	wall	gypboard	intact	white	<LOD	no	no
1251	2nd Fl Room 232	East	door frame	wood	intact	brown	<LOD	no	no
1252	2nd Fl Room 232	East	door	wood	intact	brown	<LOD	no	no
1253	2nd Fl Room 232	West	wall	gypboard	intact	white	<LOD	no	no
1254	2nd Fl Room 232	North	wall	gypboard	intact	white	<LOD	no	no
1338	Calibration						0.90 ± 0.10		
1339	Calibration						0.80 ± 0.10		
1340	NULL						0.90 ± 0.20		
1341	Calibration						0.90 ± 0.10		

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Appendix D

Certifications

EnvironMETeo (EMET) Services, Inc. Waipio Gentry Business Park 94-520 Uke'e Street, Suite A Waipahu, Hawaii, USA 96797-4200
(808) 671-8383...Telephone (808) 671-7979...Facsimile

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101807-0

EnvironMETeo Services Inc.

Waipahu, HI

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2016-07-01 through 2017-06-30

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

STATE OF HAWAI'I

DEPARTMENT OF HEALTH

Lead-Based Paint Activities Firm Certification

THIS IS TO CERTIFY THAT

EnvironMETeo Services, Inc.

has fulfilled the requirements of Chapter 11-41 Hawaii Administrative Rules and the Toxic Substance Control Act (TSCA) Section 402(a)(2), and has received certification as a firm pursuant to §11-41-4, HAR to conduct lead-based paint activities in Hawaii.

This certification is valid from the date of issuance and expires on **JUNE 19, 2018**.

Date of Issue: **MAY 14, 2015**
Certification # **PBF-0024**

FOR DIRECTOR OF HEALTH

NON-TRANSFERABLE

REVOCABLE FOR CAUSE

State of Hawai'i
Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	n/a
CS	n/a	PD	n/a
INS	08/29/17	PM	06/06/17

W= Worker
CS= Cont./Sup.
INS= Inspector
PD= Project Designer
MP= Mgmt. Planner
PM= Project Monitor

Arellano
Julius A.
EnvironMETeo Services, Inc.
HIASB-4021
State Exp. Date 10/02/2017

State of Hawai'i
Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	01/20/18
CS	n/a	PD	n/a
INS	01/20/18	PM	12/29/17

W= Worker
CS= Cont./Sup.
INS= Inspector
PD= Project Designer
MP= Mgmt. Planner
PM= Project Monitor

Kaneshiro
Stephen Y.
EnvironMETeo Services, Inc.
HIASB-2307
State Exp. Date 09/07/2017

State of Hawai'i
Lead Based Paint Activities Certification

Expiration Dates:

Inspector-	n/a
Supervisor-	n/a
Risk Assessor-	11/05/2019
Project Designer-	n/a
Worker-	n/a

Kaneshiro
Stephen
Certification # PB-0676

State of Hawai'i
Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	n/a
CS	n/a	PD	n/a
INS	01/20/18	PM	12/29/17

W= Worker
CS= Cont./Sup.
INS= Inspector
PD= Project Designer
MP= Mgmt. Planner
PM= Project Monitor

Uyeda
Andrew H.
EnvironMETeo Services, Inc.
HIASB-2432
State Exp. Date 06/01/2017

State of Hawai'i
Lead Based Paint Activities Certification

Expiration Dates:

Inspector-	n/a
Supervisor-	n/a
Risk Assessor-	10/16/2019
Project Designer-	n/a
Worker-	n/a

Uyeda
Andrew
Certification # PB-0669

State of Hawai'i
Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	n/a
CS	n/a	PD	n/a
INS	08/29/17	PM	12/29/17

W= Worker
CS= Cont./Sup.
INS= Inspector
PD= Project Designer
MP= Mgmt. Planner
PM= Project Monitor

Wu
Jayson S.
EnvironMETeo Services, Inc.
HIASB-3835
State Exp. Date 05/08/2017

End of Report

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