



EnvironMETeo Services, Inc.
Environmental / Industrial Health & Safety

Project Specific Asbestos, Lead Paint, and Arsenic Survey Report

For:

**Hawaii Engineering Group, Inc.
1088 Bishop Street, Suite 2506
Honolulu, Hawaii 96813**

Facility Surveyed:

**4474 Kukuihale Road
Anahola, Hawaii 96703**

Project:

4474 Kukuihale Road, Anahola (Lot 57)

Conducted by:

**EnvironMETeo Services, Inc. (EMET)
94-520 Uke'e Street, Suite A
Waipahu, Hawaii 96797**

Date of Report: February 22, 2022

Amended: March 28, 2022

EMET ID: 2112615



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Certification of Report

We certify that this report is based on a physical survey of EMET scope of work areas as impacted by this project located at 4474 Kukuihale Road (Lot 57), Anahola, Hawaii. The survey included an inspection for asbestos-containing materials (ACM) and lead paint on surfaces/building components.

The survey was conducted by EnvironMETeo Services, Inc. (EMET) on February 2, 2022 and was limited to the following scope of work:

Asbestos/Lead Paint 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:

4474 Kukuihale Road (Lot 57)

- interior – main house and 2 wooden sheds
- exterior – perimeter and roofs of main house and 2 wooden sheds

Materials previously sampled and tested for the September 2018 survey by EnviroQuest that still exist in the work scope area are not to be resampled by EMET for this survey.

2. Lead paint inspection by EPA-accredited inspectors from the areas indicated in item 1.
3. Arsenic in bulk testing of canec ceiling/wall material 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.



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).

This report was amended on March 28, 2022 to include approximate totals of lead-based paint and arsenic-containing canec board.

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

A handwritten signature in black ink, appearing to read "Arnaldo Estrada".

Arnaldo Estrada
Asbestos Building Inspector
Hawaii State Certification # HIASB-0966
Lead Based Paint Risk Assessor
Hawaii State Certification # PB-0138

Summary

EnvironMETeo Services, Inc. (EMET) conducted a survey for asbestos-containing materials (ACM) and lead paint on surfaces/building components located at the dwelling located at 4474 Kukuihale Road, Anahola, Hawaii, on February 2, 2022. Arnaldo Estrada, Andrew Uyeda, and Bronson Groendyke of EMET conducted the survey in accordance with Hawaii Administrative Rules (H.A.R) 11-501 and EMET's scope of work. The survey was requested and authorized by Ather Dar of Hawaii Engineering Group, Inc. and was 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 used as such.

The two wooden sheds indicated in the scope of work are no longer present on the site.

Asbestos Summary

Based on the visual inspection and laboratory analysis, ACM was not detected.

Lead Paint Summary

Based on XRF test results, lead-based paint (LBP) was found on the following tested surfaces:

LBP

- white/green paint on wooden walls at interior (approx. 4400 square feet)
- green paint on wooden walls at exterior (approx. 3600 square feet)

The paints on the following components contain lead in concentrations of less than 1.0 mg/cm². The paint on these surfaces is lead-containing paint (LCP).

LCP

off-white paint on wooden window frames	off-white paint on wooden door frames
off-white paint on gypboard ceiling	green paint on wooden slats at exterior
green paint on wooden railing at exterior	off-white paint on wooden posts at exterior
off-white paint on wooden beams at exterior	green paint on wooden eaves at exterior
salmon paint on wooden stairs at exterior	-

Paint on testing combinations similar to those identified with LBP and LCP should also be treated as LBP and LCP, respectively.

Workers performing disturbance of LBP or LCP must abide by OSHA Lead in Construction rules.

Arsenic Summary

The cance ceiling panels throughout the 1st floor bedrooms, hallway, and bathroom contain arsenic per the September 2018 survey by EnviroQuest. (approximately 450 square feet)

Asbestos-Containing Material

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

- Hawaii Administrative Rules (HAR), Title 11, Department of Health, Chapter 501 (11-501), *Asbestos Requirements*.
- 29 CFR 1926.1101 Occupational Safety and Health Administration (OSHA), *Asbestos Standards for the Construction Industry*.

- EPA 40 CFR Part 61, Subpart M - National Emission Standards for Hazardous Air Pollutants (NESHAP), Final Rule revised July 20, 2004, *National Emission Standard for Asbestos.*

Asbestos Bulk Sampling

A total of 27 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:

1st Floor Suspect ACM

12" x 12" tan w/black streaks ceramic tile/grout/mortar*	gypsum wallboard/mudjoint wall and ceiling system*
2" x 2" white ceramic tile/grout/mortar*	14" x 14" gray ceramic tile/grout*
4" x 4" pink ceramic tile/grout/mortar*	white coating w/brown canec board*
white caulking at plumbing fixture	white caulking at window frame
green non-skid flooring	-

2nd Floor Suspect ACM

gypsum wallboard/mudjoint wall system*	12" x 12" lavender w/black streaks ceramic tile/grout/mortar*
white caulking at shower bathtub	white caulking at door frame

Upper Roof Suspect ACM

black roof shingles*	-
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Lower Roof Suspect ACM

black roof shingles	black patch/sealant
white caulking at flashing	-

* These materials were previously sampled and tested by EnviroQuest for their September 2018 survey. EMET's Asbestos Building Inspectors confirmed their existence in the work scope areas. No additional samples of these materials were collected for this survey.

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, ACM was not identified as a result of this survey. No ACM was identified

Lead Paint

U.S. Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, 2012 Edition, defines lead-based paint (LBP) as paint with a lead content greater than or equal to 1.0 milligrams per square centimeter (mg/cm^2). The concentration $1.0 \text{ mg}/\text{cm}^2$ is equivalent to 5000 parts per million (ppm) and 0.5 percent weight (% wt.). EPA regulation 40 CFR Part 745 *Lead-based Paint Activities* similarly defines LBP as stated in HUD regulations.

OSHA regulates any activity disturbing paint that contains any measurable amount of 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/cm² 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 119 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/cm² or 0.5% wt. was detected in the following:

LBP Details

XRF No. and Location	Testing Combination Component / Substrate	Condition	Color
71, exterior	wall / wood	poor	green
93, exterior	wall / wood	poor	green
94, exterior	wall / wood	poor	green
1 st floor, interior*	wall / wood	intact	white/green
exterior*	wall / wood	fair	green

* These testing combinations were sampled and tested for lead by EnviroQuest during their September 2018 survey.

The following painted surfaces/building components contain lead in concentrations of less than 1.0 mg/cm² or less than 0.5% wt. The paints on these surfaces are lead-containing paint (LCP).

LCP Details

XRF No. and Location	Testing Combination Component / Substrate	Condition	Color
interior, Living Room	wall / wood	poor	off-white
interior, East bedroom	wall / wood	poor	off-white
interior, East bedroom	window frame / wood	poor	off-white
interior, bathroom	wall / wood	poor	off-white
interior, bathroom	door frame / wood	poor	off-white
interior, bathroom	ceiling / gypboard	poor	off-white
interior, West bedroom	door / wood	poor	off-white
interior, West bedroom	wall / wood	poor	off-white
interior, West bedroom	window frame / wood	poor	off-white
interior, West bedroom	door frame / wood	poor	off-white
interior, Southeast bedroom	wall / wood	poor	off-white
interior, hallway	door frame / wood	poor	off-white
interior, hallway	door frame / wood	poor	stained
exterior	slats / wood	poor	green
exterior	railing / wood	poor	green
exterior	post / wood	poor	off-white
exterior	beam / wood	poor	off-white
exterior	eave / wood	poor	green
exterior	stairs / wood	poor	salmon

Component/substrate combinations similar to those identified with LBP or LCP should also be treated as having LBP or LCP, respectively. OSHA Lead in Construction rules apply to workers disturbing LCP and LBP.

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

Arsenic in Canec Boards

Canec boards in the bedrooms, bathroom, and hallway were analyzed by EQI and determined to contain arsenic. EMET's inspectors confirmed their existence in the work scope areas. No additional canec ceiling/wall materials were observed during EMET's inspection.

Arsenic Details

Description	Material Location	Arsenic (mg/kg)
canec ceiling panel	bedrooms 1, 2, and 3, hallway, and bathroom	3200

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.

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 used as such.



Appendix A

Asbestos Survey Report

4474 Kukuihale Road
Anahola, HI 96703

Asbestos, Lead Paint, and Arsenic Survey
EMET ID: 2112615

Building Information Sheet

Job Code /EMET ID	Client Name	Inspection date
2112615	Hawaii Engineering Group, Inc.	2/2/2022
Building Number	Building Name	No. of Floors Surveyed
4474	4474 KUKUIHALE ROAD	2
Location	No. of Other Levels Surveyed	
	4474 Kukuihale Road Anahola, HI 96703	
1		

Building Construction Type <input type="checkbox"/> WOOD FRAME 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 <input type="checkbox"/> RESIDENCE <input type="checkbox"/> 100 Use #2 <input type="checkbox"/> Use #3 <input type="checkbox"/> Academic Classes, Administration Offices, Food Services, Dormitory, Mechanical Spaces, Gymnasium, Laboratory, Library, Residential or Other (Specify)	ACBM PRESENT? <input type="checkbox"/> NO YES = PRESENT NO = NOT PRESENT ASM = ASSUMED
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Inspector Identification Name: Arnaldo Estrada State of HI Certification No. HIASB-0966 State of HI Certification Expiration Date: 1/30/2023 Building Inspector Certification Exp. Date: 12/10/2022	Specific areas surveyed interior and exterior including roofs
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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.

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

Building ID and Name		Building Location		EMET ID	
For the ACM - Space Identified as:		4474 Kukuihale Road Anahola, HI 96703		2112615	
				Inspection Date(s):	
Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments		ACBM Present	Material Type*
615-4474-1A	12" X 12" TAN W/BLACK STREAKS CERAMIC TILE/GROUT/MORTAR	previously tested for EQI September 2018 survey	Suspected	Confirmed	Friable
615-4474-1B	WHITE GYPSUM WALLBOARD/MUDJOINT WALL AND CEILING SYSTEM	previously tested for EQI September 2018 survey	YES	NO ACM	DC
615-4474-1C	2" X 2" WHITE CERAMIC TILE/GROUT/MORTAR	previously tested for EQI September 2018 survey	YES	NO ACM	PD
615-4474-1D	14"X14" GRAY CERAMIC TILE/GROUT	previously tested for EQI September 2018 survey	YES	NO ACM	
615-4474-1E	4"X4" PINK CERAMIC TILE/GROUT/MORTAR	previously tested for EQI September 2018 survey	YES	NO ACM	
615-4474-1F	WHITE W/BROWN CANEC BOARD	previously tested for EQI September 2018 survey	YES	NO ACM	

* Refers to Material Type and Damage Conditions

T = Material Type:

S = Surfacing

M = Miscellaneous

T = Thermal Systems

DC = Damage Condition:

ND = No Damage

D = Damaged

SD = Significant Damage

PD = Potential Damage Condition:

NPD = No Potential Damage

PD = ACM w/ Potential 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.
 - 3. Remove or repair ASAP or reduce potential for disturbance.
 - 4. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.
 - 5. Continue O&M. Take preventive measures to reduce disturbance.
 - 6-7. Continue O&M. 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.

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

Building ID and Name		Building Location		EMET ID	
For the ACM - Space Identified as:		Comments		Inspection Date(s):	
4474 4474 KUKUIHALE ROAD		4474 Kukuihale Road Anahola, HI 96703		2112615	
Unified Sample Area	Homogeneous Sample Area or Salient Description	Suspected	Confirmed	Friable	Material Type*
615-4474-1G	WHITE CAULKING AT PLUMBING FIXTURE	YES	NO ACM		Estimated Cost to Remove
615-4474-1H	WHITE CAULKING AT WINDOW FRAME	YES	NO ACM		Response Action
615-4474-1I	GREEN NON SKID FLOORING	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 = ACM 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.
 - 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.
 8. Continue O&M until major renovation or demolition requires removal under NESHPAS, or until hazard assessment factors change.
- Note: An O&M program may include enclosure and encapsulation.

Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1A		12" X 12" TAN W/BLACK STREAKS CERAMIC TILE/GROUT/MORTAR
Unified Sample Area Number			
Drawing/Sketch Number		615-4474-1A	

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

Location of Confirmed, Assumed, or New ACM within Building

12" X 12" TAN W/BLACK STREAKS CERAMIC TILE/GROUT/MORTAR

Not Applicable

previously tested for EQI September 2018 survey

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	0
Samples Collected by	Other
Sample Numbers	
Total Number of Samples Analyzed	0
Samples Analyzed by	Other
ASBESTOS-CONTAINING MATERIAL ?	
NO	
Number of Salient Designations:	

PHOTOGRAPH



Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1B		WHITE GYPSUM WALLBOARD/MUDJOINT WALL AND CEILING SYSTEM
Unified Sample Area Number			
Drawing/Sketch Number		615-4474-1B	

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE GYPSUM WALLBOARD/MUDJOINT WALL AND CEILING SYSTEM

Not Applicable

previously tested for EQI September 2018 survey

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected 0

Samples Collected by Other

Sample Numbers

Total Number of Samples Analyzed 0

Samples Analyzed by Other

ASBESTOS-CONTAINING MATERIAL ?

NO

Number of Salient Designations:

PHOTOGRAPH



Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1C		2" X 2" WHITE CERAMIC TILE/GROUT/MORTAR
Unified Sample Area Number			
Drawing/Sketch Number		615-4474-1C	

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

Location of Confirmed, Assumed, or New ACM within Building

2" X 2" WHITE CERAMIC
TILE/GROUT/MORTAR

Not Applicable

previously tested for EQI September 2018
survey

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected 0

Samples Collected by Other

Sample Numbers

Total Number of Samples Analyzed 0

Samples Analyzed by Other

ASBESTOS-CONTAINING MATERIAL ?

NO

Number of Salient Designations:

PHOTOGRAPH



Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1D		14"X14" GRAY CERAMIC TILE/GROUT
Unified Sample Area Number			
Drawing/Sketch Number		615-4474-1D	

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

Location of Confirmed, Assumed, or New ACM within Building

14"X14" GRAY CERAMIC TILE/GROUT	Not Applicable
previously tested for EQI September 2018 survey	

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

SAMPLE ANALYSIS SUMMARY SECTION

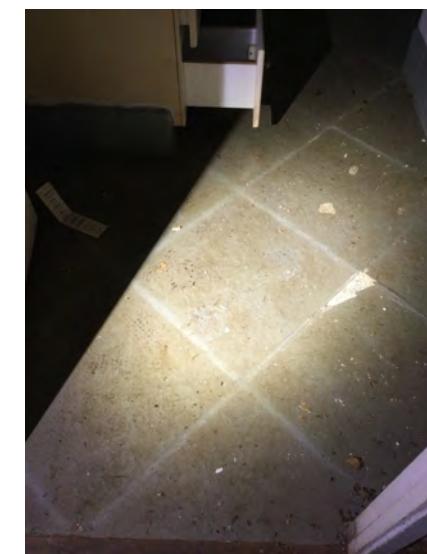
Total Number of Samples Collected	0
Samples Collected by	Other
Sample Numbers	

Total Number of Samples Analyzed	0
Samples Analyzed by	Other

ASBESTOS-CONTAINING MATERIAL ?

Number of Salient Designations:

PHOTOGRAPH



Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1E		4"X4" PINK CERAMIC TILE/GROUT/MORTAR
Drawing/Sketch Number			
			615-4474-1E

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

Location of Confirmed, Assumed, or New ACM within Building

4"X4" PINK CERAMIC TILE/GROUT/MORTAR

Not Applicable

previously tested for EQI September 2018 survey

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

PHOTOGRAPH



Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1F	WHITE W/BROWN CANEC BOARD	
Unified Sample Area Number			
Drawing/Sketch Number		615-4474-1F	

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE W/BROWN CANEC BOARD

Not Applicable

previously tested for EQI September 2018 survey

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected 0

Samples Collected by Other

Sample Numbers

Total Number of Samples Analyzed 0

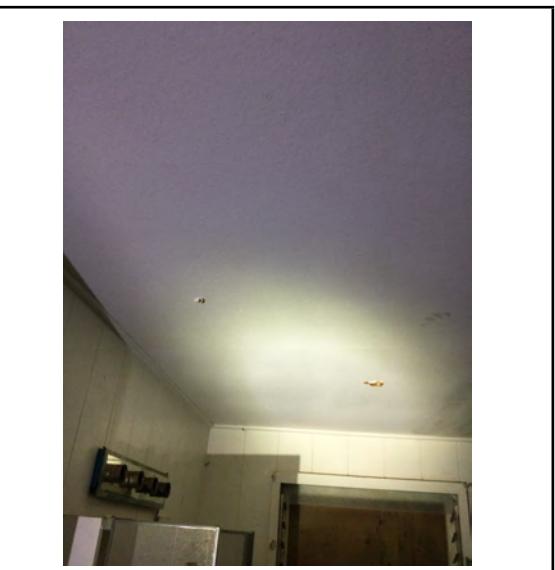
Samples Analyzed by Other

ASBESTOS-CONTAINING MATERIAL ?

NO

Number of Salient Designations:

PHOTOGRAPH



Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1G	WHITE CAULKING AT PLUMBING FIXTURE	Unified Sample Area Number
Drawing/Sketch Number			
			615-4474-1G

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE CAULKING AT PLUMBING FIXTURE

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	615-4474-1G1, 615-4474-1G2, 615-4474-1G3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH



Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

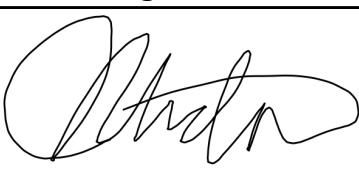
EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-1G	WHITE CAULKING AT PLUMBING FIXTURE
-------------	------------------------------------

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-1G1	0	WHITE CAULKING AT PLUMBING FIXTURE	See Sketch 615-4474-1
615-4474-1G2	0	WHITE CAULKING AT PLUMBING FIXTURE	See Sketch 615-4474-1
615-4474-1G3	0	WHITE CAULKING AT PLUMBING FIXTURE	See Sketch 615-4474-1

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E



Client: Hawaii Engineering Group, Inc.

NVLAP LAB CODE 101807-0

Building: 4474 KUKUIHALE ROAD

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 615-4474-1G

Analysis Date:				2/9/2022	Report Date:	2/9/2022	
Lab ID	Sample ID	Color	Homogeneity Detected	Astbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-001	615-4474-1G1	white	Yes	No	-	-	misc. part. 100
615-002	615-4474-1G2	white	Yes	No	-	-	misc. part. 100
615-003	615-4474-1G3	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
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1H	WHITE CAULKING AT WINDOW FRAME	Unified Sample Area Number
Drawing/Sketch Number			
			615-4474-1H

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE CAULKING AT WINDOW FRAME

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	615-4474-1H1, 615-4474-1H2, 615-4474-1H3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH



Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

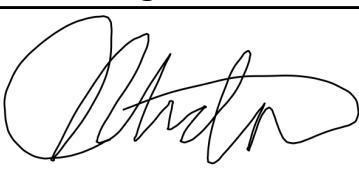
EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-1H	WHITE CAULKING AT WINDOW FRAME
-------------	--------------------------------

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-1H1	0	WHITE CAULKING AT WINDOW FRAME	See Sketch 615-4474-1
615-4474-1H2	0	WHITE CAULKING AT WINDOW FRAME	See Sketch 615-4474-1
615-4474-1H3	0	WHITE CAULKING AT WINDOW FRAME	See Sketch 615-4474-1

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E



Client: Hawaii Engineering Group, Inc.

NVLAP LAB CODE 101807-0

Building: 4474 KUKUIHALE ROAD

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 615-4474-1H

Analysis Date:				2/9/2022	Report Date:	2/9/2022	
Lab ID	Sample ID	Color	Homogeneity Detected	Astbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-004	615-4474-1H1	white, green	Yes	No	-	-	misc. part. 100
615-005	615-4474-1H2	white, green	Yes	No	-	-	misc. part. 100
615-006	615-4474-1H3	white, green	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
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-1I		GREEN NON SKID FLOORING
Unified Sample Area Number			
Drawing/Sketch Number		615-4474-1I	

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

Location of Confirmed, Assumed, or New ACM within Building

GREEN NON SKID FLOORING

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	615-4474-1I1, 615-4474-1I2, 615-4474-1I3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH



Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-11	GREEN NON SKID FLOORING
-------------	-------------------------

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-1I1	0	GREEN NON SKID FLOORING	See Sketch 615-4474-1
615-4474-1I2	0	GREEN NON SKID FLOORING	See Sketch 615-4474-1
615-4474-1I3	0	GREEN NON SKID FLOORING	See Sketch 615-4474-1

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy in accordance with 40 CFR Part 763 Appendix E to Subpart E

Client: Hawaii Engineering Group, Inc.

NVLAP LAB CODE 101807-0

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Building: 4474 KUKUIHALE ROAD

Address: 4474 Kukuihale Road
Anahola, HI 96703

NVLAP LAB CODE 101807-0

[Signature]

Sample/Homogeneous Area:		Analysis Date:				Report Date:	
Lab ID	Sample ID	Color	Homogeneity Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-007	615-4474-111	brown, green	Yes	No	-	-	misc. part. 100
615-008	615-4474-112	brown, green	Yes	No	-	-	misc. part. 100
615-009	615-4474-113	brown, green	Yes	No	-	-	misc. part. -

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 or mineral fiber which may be released during normal use.

NOTE: ERA, UGMA, and PMSA accounts are used as daily financials or produc-

*Laboratory test report may not be used to claim pr

agency of the U.S. Government.

*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		Building Location		EMET ID	
For the ACM - Space Identified as:		4474 Kukuihale Road Anahola, HI 96703		2112615	
615-4474-2				Inspection Date(s): 2/2/2022	
Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments		ACBM Present	Material Type*
615-4474-2A	WHITE GYPSUM WALLBOARD/MUDJOINT WALL SYSTEM	previously tested for EQI September 2018 survey	Suspected	Friable	Estimated Cost to Remove
615-4474-2B	12" X 12" LAVENDER W/BLACK STREAKS CERAMIC TILE/GROUT/MORTAR	previously tested for EQI September 2018 survey	YES	NO ACM	Response Action
615-4474-2C	WHITE CAULKING AT SHOWER BATHTUB		YES	NO ACM	
615-4474-2D	WHITE CAULKING AT DOOR 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 = ACM 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.
 3. Remove or repair ASAP or reduce potential for disturbance.
 4. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.
 5. Continue O&M. Take preventive measures to reduce disturbance.
 - 6-7. Continue O&M. 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.

Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-2A		WHITE GYPSUM WALLBOARD/MUDJOINT WALL SYSTEM
Unified Sample Area Number			
Drawing/Sketch Number		615-4474-2A	

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE GYPSUM WALLBOARD/MUDJOINT WALL SYSTEM	Not Applicable
previously tested for EQI September 2018 survey	

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
--	--	--
Air Movement	Proximity to Repair Items	Friable Surface
--	--	--
		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



Sample Area Report - Area Master

EMET ID

Building Number and Name

Inspection Date

2112615

4474

4474 KUKUIHALE ROAD

2/2/2022

Document Number

Material ID and Description

615-4474-2B

12" X 12" LAVENDER W/BLACK STREAKS
CERAMIC TILE/GROUT/MORTAR

Unified Sample Area Number

Drawing/Sketch Number

615-4474-2B

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

Location of Confirmed, Assumed, or New ACM within Building

12" X 12" LAVENDER W/BLACK STREAKS
CERAMIC TILE/GROUT/MORTAR

Not Applicable

previously tested for EQI September 2018
survey

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
<input type="text"/>	<input type="text"/>	<input type="text"/>

Visible	Reachable	Texture
<input type="text"/>	<input type="text"/>	<input type="text"/>

Barriers	Ventilation	If Yes	Friable Surface
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Air Movement	Proximity to Repair Items	Activity
<input type="text"/>	<input type="text"/>	<input type="text"/>

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected 0

Samples Collected by Other

Sample
Numbers

Total Number of Samples Analyzed 0

Samples Analyzed by Other

**ASBESTOS-CONTAINING
MATERIAL ?**

NO

Number of Salient Designations:

PHOTOGRAPH



Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-2C	WHITE CAULKING AT SHOWER BATHTUB	Unified Sample Area Number
Drawing/Sketch Number			
			615-4474-2C

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE CAULKING AT SHOWER BATHTUB

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	615-4474-2C1, 615-4474-2C2, 615-4474-2C3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH



Sample Log and Notes

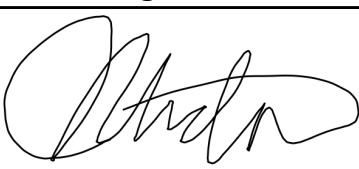
Building Number and Name

4474	4474 KUKUIHALE ROAD	EMET ID
		2112615

Sample Area/Lot Number and Name

615-4474-2C	WHITE CAULKING AT SHOWER BATHTUB
-------------	----------------------------------

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-2C1	0	WHITE CAULKING AT SHOWER BATHTUB	See Sketch 615-4474-2
615-4474-2C2	0	WHITE CAULKING AT SHOWER BATHTUB	See Sketch 615-4474-2
615-4474-2C3	0	WHITE CAULKING AT SHOWER BATHTUB	See Sketch 615-4474-2

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E



Client: Hawaii Engineering Group, Inc.

NVLAP LAB CODE 101807-0

Building: 4474 KUKUIHALE ROAD

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 615-4474-2C

Analysis Date: 2/9/2022					Report Date: 2/9/2022		
Lab ID	Sample ID	Color	Homogeneity Detected	Astbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-010	615-4474-2C1	tan, white	Yes	No	-	-	misc. part. 100
615-011	615-4474-2C2	tan, white	Yes	No	-	-	misc. part. 100
615-012	615-4474-2C3	tan, 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 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
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-2D	WHITE CAULKING AT DOOR FRAME	Unified Sample Area Number
Drawing/Sketch Number			615-4474-2D

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE CAULKING AT DOOR FRAME

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET

Sample Numbers
615-4474-2D1, 615-4474-2D2, 615-4474-2D3

Total Number of Samples Analyzed	3
Samples Analyzed by	EMET

ASBESTOS-CONTAINING MATERIAL ?

NO

Number of Salient Designations:

PHOTOGRAPH



Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-2D	WHITE CAULKING AT DOOR FRAME
-------------	------------------------------

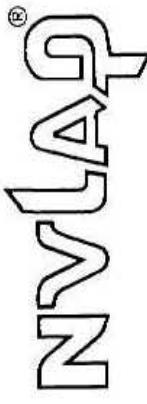
Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-2D1	0	WHITE CAULKING AT DOOR FRAME	See Sketch 615-4474-2
615-4474-2D2	0	WHITE CAULKING AT DOOR FRAME	See Sketch 615-4474-2
615-4474-2D3	0	WHITE CAULKING AT DOOR FRAME	See Sketch 615-4474-2

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E



Client: Hawaii Engineering Group, Inc.

NVLAP LAB CODE 101807-0

Building: 4474 KUKUIHALE ROAD

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area:				Analysis Date:				Report Date:	
Lab ID	Sample ID	Color	Homogeneity Detected	Astbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments	2/9/2022	2/9/2022
615-013	615-4474-2D1	brown	Yes	No	-	-	misc. part.		
615-014	615-4474-2D2	brown	Yes	No	-	-	100		
615-015	615-4474-2D3	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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Unified Homogeneous/Sample Area ACM - Space and Salient Cross Reference

Building ID and Name		Building Location		EMET ID	
4474 4474 KUKUIHALE ROAD		4474 Kukuihaele Road Anahola, HI 96703		2112615	
For the ACM - Space Identified as:		Comments		Inspection Date(s):	
Unified Sample Area	Homogeneous Sample Area or Salient Description	Suspected	Confirmed	Friable	Material Type*
615-4474-LRA(L1)	BLACK ROOF SHINGLES	YES	NO ACM		
615-4474-LRA(L2)	BLACK ROOF SHINGLES	YES	NO ACM		
615-4474-LRB	BLACK PATCH/SEALANT	YES	NO ACM		
615-4474-LRC	WHITE CAULKING AT FLASHING	YES	NO ACM		

* Refers to Material Type and Damage Conditions

T = Material Type:

DC = Damage Condition:

ND = No Damage

M = Miscellaneous

D = Damaged

SD = Significant Damage

T = Thermal Systems

PSD = Potential Significant Damage

Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	ACBM Present	Material Type*	Estimated Cost to Remove		
Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments	Suspected	Confirmed	Friable	Material Type*	Estimated Cost to Remove
615-4474-LRA(L1)	BLACK ROOF SHINGLES		YES	NO ACM			
615-4474-LRA(L2)	BLACK ROOF SHINGLES		YES	NO ACM			
615-4474-LRB	BLACK PATCH/SEALANT		YES	NO ACM			
615-4474-LRC	WHITE CAULKING AT FLASHING		YES	NO ACM			

** Recommended Response Actions:

DC = Damage Condition:	PD = Potential Damage Condition:
ND = No Damage	NPD = No Potential Damage
D = Damaged	PD = ACM w/ Potential Damage
SD = Significant Damage	PSD = Potential Significant Damage
T = Thermal Systems	

1. Isolate area and restrict access. Remove or repair ASAP.

2. Continue Operations and Maintenance (O&M) program.

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.

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.

Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-LRA (L1)	BLACK ROOF SHINGLES	Unified Sample Area Number
Drawing/Sketch Number			
			615-4474-LRA(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

Location of Confirmed, Assumed, or New ACM within Building

BLACK ROOF SHINGLES

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected 3

Samples Collected by EMET

Sample Numbers 615-4474-LRA(L1)1, 615-4474-LRA(L1)2, 615-4474-LRA(L1)3

Total Number of Samples Analyzed 3

Samples Analyzed by EMET

ASBESTOS-CONTAINING MATERIAL ?

NO

Number of Salient Designations:

PHOTOGRAPH



Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

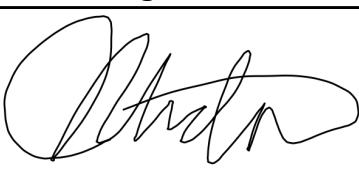
EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-LRA(L1)	BLACK ROOF SHINGLES
------------------	---------------------

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-LRA(L1)1	0	BLACK ROOF SHINGLES	See Sketch 615-4474-LR
615-4474-LRA(L1)2	0	BLACK ROOF SHINGLES	See Sketch 615-4474-LR
615-4474-LRA(L1)3	0	BLACK ROOF SHINGLES	See Sketch 615-4474-LR

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

NVLAP®
Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E

Client: Hawaii Engineering Group, Inc.

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Building: 4474 KUKUIHALE ROAD

NVLAP LAB CODE 101807-0

Address: 4474 Kukuihaele Road
Anaeho, HI 96703

Approved Signatory:


Sample/Homogeneous Area: 615-4474-LRA(L1) Analysis Date: 2/9/2022 Report Date: 2/9/2022

Lab ID	Sample ID	Color	Homogeneity Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-016	615-4474-LRA (L1)	various	Yes	No	-	glass	misc. part. 80
615-018	615-4474-LRA (L1)	various	Yes	No	-	glass	misc. part. 80
615-020	615-4474-LRA (L1)	various	Yes	No	-	glass	misc. part. 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
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-LRA (L2)	BLACK ROOF SHINGLES	Unified Sample Area Number
Drawing/Sketch Number			
			615-4474-LRA(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

Location of Confirmed, Assumed, or New ACM within Building

BLACK ROOF SHINGLES

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected

3

Samples Collected by

EMET

Sample Numbers

615-4474-LRA(L2)1, 615-4474-LRA(L2)2,
615-4474-LRA(L2)3

Total Number of Samples Analyzed

3

Samples Analyzed by

EMET

ASBESTOS-CONTAINING MATERIAL ?

NO

Number of Salient Designations:

PHOTOGRAPH



Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

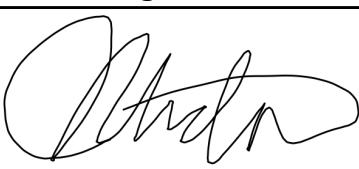
EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-LRA(L2)	BLACK ROOF SHINGLES
------------------	---------------------

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-LRA(L2)1	0	BLACK ROOF SHINGLES	See Sketch 615-4474-LR
615-4474-LRA(L2)2	0	BLACK ROOF SHINGLES	See Sketch 615-4474-LR
615-4474-LRA(L2)3	0	BLACK ROOF SHINGLES	See Sketch 615-4474-LR

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

NVLAP®
Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E

Client: Hawaii Engineering Group, Inc.

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Building: 4474 KUKUIHALE ROAD

NVLAP LAB CODE 101807-0

Address: 4474 Kukuihaele Road
Anaeho, HI 96703

Approved Signatory:


Sample/Homogeneous Area: 615-4474-LRA(L2) Analysis Date: 2/9/2022 Report Date: 2/9/2022

Lab ID	Sample ID	Color	Homogeneity Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-017	615-4474-LRA (L2)1	black, blue	Yes	No	-	glass	misc. part. 90
615-019	615-4474-LRA (L2)2	black	Yes	No	-	glass	misc. part. 90
615-021	615-4474-LRA (L2)3	black	Yes	No	-	glass	misc. part. 90

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

2112615

4474

4474 KUKUIHALE ROAD

2/2/2022

Document Number

Material ID and Description

615-4474-LRB

BLACK PATCH/SEALANT

Unified Sample Area Number

Drawing/Sketch Number

615-4474-LRB

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.

Location of Confirmed, Assumed, or New ACM within Building

Unified Sample Area/Homogeneous Material

BLACK PATCH/SEALANT

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 -- -- --

PHOTOGRAPH



SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected

3

Samples Collected by

EMET

Sample
Numbers

615-4474-LRB1, 615-4474-LRB2, 615-4474-LRB3

Total Number of Samples Analyzed

3

Samples Analyzed by

EMET

**ASBESTOS-CONTAINING
MATERIAL ?**

NO

Number of Salient Designations:

Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-LRB	BLACK PATCH/SEALANT
--------------	---------------------

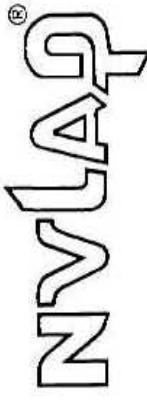
Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-LRB1	0	BLACK PATCH/SEALANT	See Sketch 615-4474-LR
615-4474-LRB2	0	BLACK PATCH/SEALANT	See Sketch 615-4474-LR
615-4474-LRB3	0	BLACK PATCH/SEALANT	See Sketch 615-4474-LR

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E



Client: Hawaii Engineering Group, Inc.

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

NVLAP LAB CODE 101807-0

Building: 4474 KUKUIHALE ROAD
Address: 4474 Kukuihaele Road
Anaeho, HI 96703

Approved Signatory:

Sample/Homogeneous Area: 615-4474-LRB

Lab ID	Sample ID	Color	Homogeneity Detected	Asbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-022	615-4474-LRB1	black	Yes	No	-	cellulose	misc. part. 80
615-023	615-4474-LRB2	black	Yes	No	-	cellulose	20 80
615-024	615-4474-LRB3	black	Yes	No	-	cellulose	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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*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
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-LRC	WHITE CAULKING AT FLASHING	Unified Sample Area Number
Drawing/Sketch Number			615-4474-LRC

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

Location of Confirmed, Assumed, or New ACM within Building

WHITE CAULKING AT FLASHING

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:	

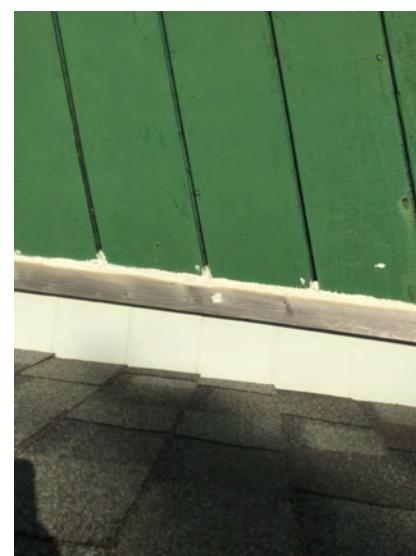
RISK ASSESSMENT DETERMINATION

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	3
Samples Collected by	EMET
Sample Numbers	615-4474-LRC1, 615-4474-LRC2, 615-4474-LRC3
Total Number of Samples Analyzed	3
Samples Analyzed by	EMET
ASBESTOS-CONTAINING MATERIAL ?	
Number of Salient Designations:	

PHOTOGRAPH



Sample Log and Notes

Building Number and Name

4474	4474 KUKUIHALE ROAD
------	---------------------

EMET ID

2112615

Sample Area/Lot Number and Name

615-4474-LRC	WHITE CAULKING AT FLASHING
--------------	----------------------------

Sample Number	% Asbestos	Description of Sampled Material	Sample Location
615-4474-LRC1	0	WHITE CAULKING AT FLASHING	See Sketch 615-4474-LR
615-4474-LRC2	0	WHITE CAULKING AT FLASHING	See Sketch 615-4474-LR
615-4474-LRC3	0	WHITE CAULKING AT FLASHING	See Sketch 615-4474-LR

Inspector's Name	Signature	Date Samples Collected
Arnaldo Estrada		2/2/2022

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

LABORATORY REPORT

Asbestos Bulk Sample Analysis by Polarized Light Microscopy
in accordance with 40 CFR Part 763 Appendix E to Subpart E



Client: Hawaii Engineering Group, Inc.

NVLAP LAB CODE 101807-0

Building: 4474 KUKUIHALE ROAD

Address: 1088 Bishop Street, Suite 2506
Honolulu, HI 96813

Approved Signatory:

Sample/Homogeneous Area: 615-4474-LRC

Analysis Date: 2/9/2022					Report Date: 2/9/2022		
Lab ID	Sample ID	Color	Homogeneity Detected	Astbestos (Type) Area %	Fibrous Components Area %	Non-fibrous Components Area %	Comments
615-025	615-4474-LRC1	white	Yes	No	-	-	misc. part. 100
615-026	615-4474-LRC2	white	Yes	No	-	-	misc. part. 100
615-027	615-4474-LRC3	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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*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		Building Location		EMET ID	
4474 4474 KUKUIHALE ROAD		4474 Kukuihaele Road Anahola, HI 96703		2112615	
For the ACM - Space Identified as:		Inspection Date(s):			
615-4474-UR				2/2022	
Unified Sample Area	Homogeneous Sample Area or Salient Description	Comments		ACBM Present	Material Type*
615-4474-URA	BLACK ROOF SHINGLES	previously tested for EQI September 2018 survey	Suspected YES	Confirmed NO ACM	Friable T DC PD Response Action

* Refers to Material Type and Damage Conditions

T = Material Type:

S = Surfacing

M = Miscellaneous

T = Thermal Systems

DC = Damage Condition:

ND = No Damage

D = Damaged

SD = Significant Damage

PSD = Potential Significant Damage

PD = Potential Damage Condition:

NPD = No Potential Damage

PD = ACM w/ Potential 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.
 3. Remove or repair ASAP or reduce potential for disturbance.
 4. Repair, continue O&M. Lower number indicates higher priority if all repair cannot be done immediately.

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

Sample Area Report - Area Master

EMET ID	Building Number and Name		Inspection Date
2112615	4474	4474 KUKUIHALE ROAD	2/2/2022
Material ID and Description			
Document Number	615-4474-URA	BLACK ROOF SHINGLES	Unified Sample Area Number
Drawing/Sketch Number			
			615-4474-URA

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

Location of Confirmed, Assumed, or New ACM within Building

BLACK ROOF SHINGLES

Not Applicable

previously tested for EQI September 2018 survey

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

SAMPLE ANALYSIS SUMMARY SECTION

Total Number of Samples Collected	0
Samples Collected by	Other

Sample Numbers

Total Number of Samples Analyzed	0
Samples Analyzed by	Other

ASBESTOS-CONTAINING MATERIAL ?

Number of Salient Designations:

PHOTOGRAPH





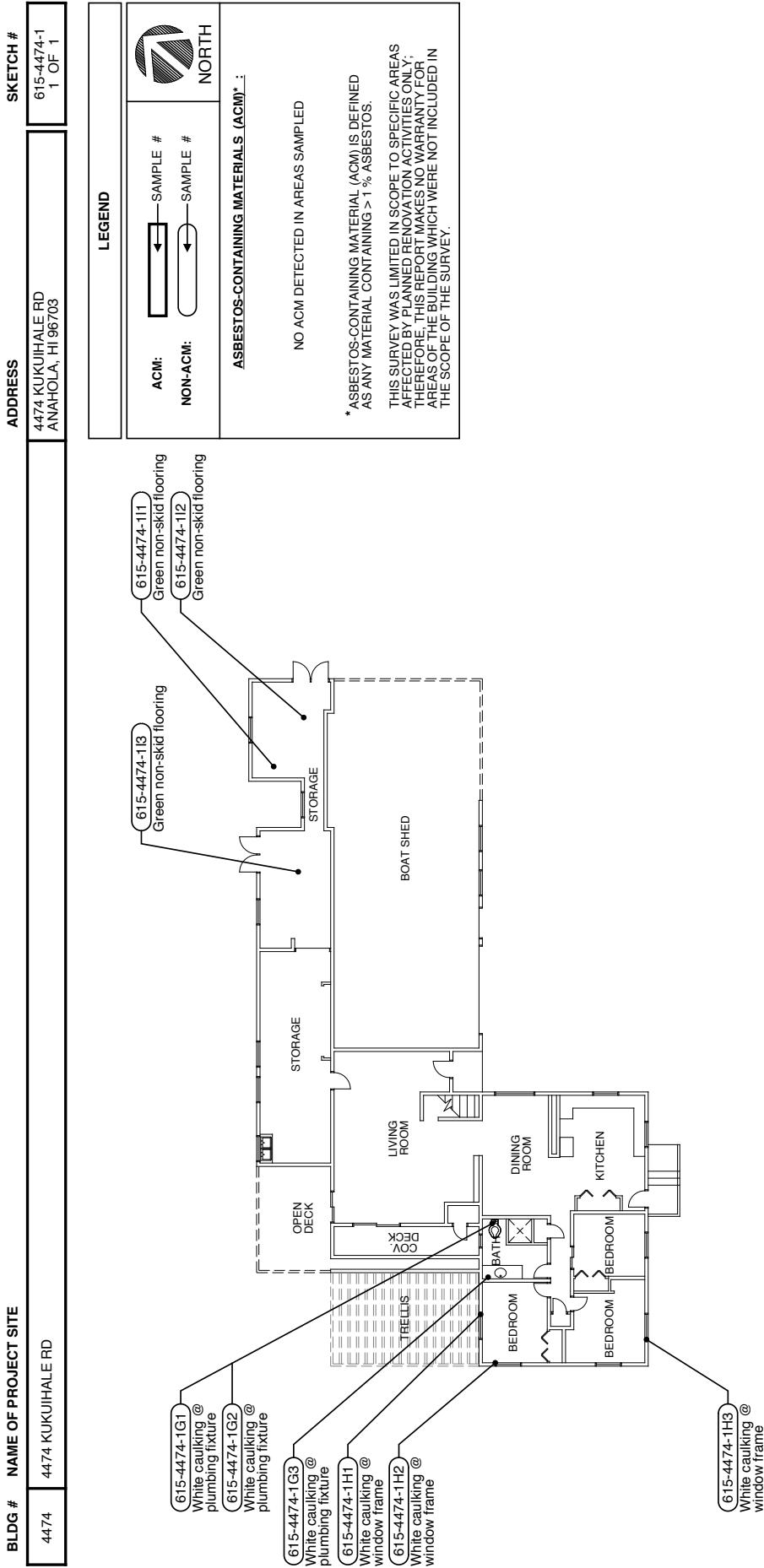
Appendix B

Asbestos Survey Sample Locations Sketch

4474 Kukuihale Road
Anahola, HI 96703

Asbestos, Lead Paint, and Arsenic Survey
EMET ID: 2112615

ASBESTOS SAMPLE LOCATION PLAN

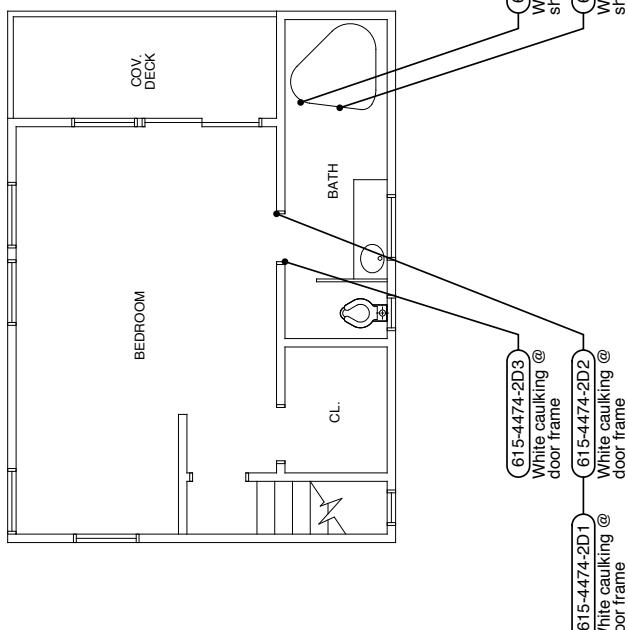


4474 KUKUIHALE RD - FIRST FLOOR PLAN
NOT TO SCALE

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF PROJECT SITE	ADDRESS	SKETCH #								
4474	4474 KUKUIHALE RD	4474 KUKUIHALE RD ANAHOLA, HI 96703	615-4474-2 1 OF 1								
LEGEND											
<table border="1" style="width: 100%; text-align: center;"> <tr> <td>ACM:</td> <td></td> <td>SAMPLE #</td> <td></td> </tr> <tr> <td>NON-ACM:</td> <td></td> <td>SAMPLE #</td> <td></td> </tr> </table>				ACM:		SAMPLE #		NON-ACM:		SAMPLE #	
ACM:		SAMPLE #									
NON-ACM:		SAMPLE #									
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.

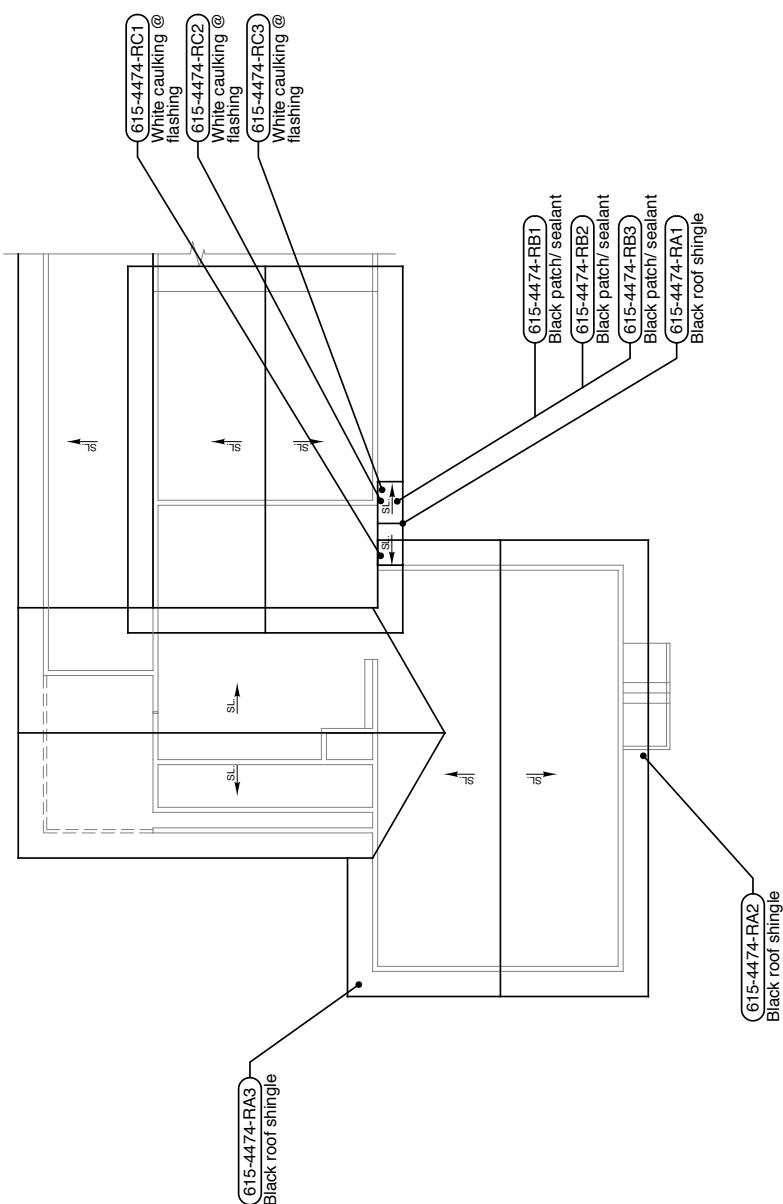


4474 KUKUIHALE RD - SECOND FLOOR PLAN
NOT TO SCALE

EnvironMETeo (EMET) Services, Inc. 94-520 Ukele Street, Suite A Waipahu, Hawaii 96797 Phone: (808) 671-8383 Fax: (808) 671-7979

EMET I.D. #2112615

ASBESTOS SAMPLE LOCATION PLAN

BLDG #	NAME OF PROJECT SITE	SKETCH #	ADDRESS	SKETCH #
4474	4474 KUKUIHALE RD		4474 KUKUIHALE RD ANAHOLA, HI 96703	615-4474-R 1 OF 1
LEGEND				
ACM:  NON-ACM: 	NORTH	ASBESTOS-CONTAINING MATERIALS (ACM)*: NO ACM DETECTED IN AREAS SAMPLED		
<p>* ASBESTOS-CONTAINING MATERIAL (ACM) IS DEFINED AS ANY MATERIAL CONTAINING > 1% ASBESTOS.</p> <p>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.</p>				
				

4474 KUKUIHALE RD - PARTIAL ROOF PLAN
NOT TO SCALE

EnvironMETeo (EMET) Services, Inc. 94-520 Ukele Street, Suite A Waipahu, Hawaii 96797 Phone: (808) 671-8383 Fax: (808) 671-7979

EMET I.D. #2112615



Appendix C

Lead Paint Test Results

4474 Kukuihale Road
Anahola, HI 96703

Asbestos, Lead Paint, and Arsenic Survey
EMET ID: 2112615



Laboratory Report

Painted Surfaces Total Elemental Lead Analyses by X-Ray Fluorescence

EMET ID: 2112615

Test Date: February 2, 2022

4474 Kukuihale Road
Anahola, HI 96703

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm ²)	Lead-Based Paint	Confirmed Lead-Containing Paint
2	Calibration						1.00 ± 0.10		
3	Calibration						1.10 ± 0.10		
4	Calibration						1.00 ± 0.10		
5	interior, Living Room	North	wall	gypsum board	poor	off-white	<LOD	no	no
6	interior, Living Room	West	door	wood	poor	off-white	<LOD	no	no
7	interior, Living Room	West	door frame	wood	poor	stained	<LOD	no	no
8	interior, Living Room	North	window frame	wood	poor	stained	<LOD	no	no
9	interior, Living Room	South	door frame	wood	poor	stained	<LOD	no	no
10	interior, Living Room	South	wall	gypsum board	poor	off-white	<LOD	no	no
11	interior, Living Room		cabinet	wood	poor	stained	<LOD	no	no
12	interior, Living Room	North	wall	wood	poor	off-white	0.28 ± 0.25	no	yes
13	interior, Living Room	North	cabinet	wood	poor	stained	<LOD	no	no
14	interior, Living Room	South	wall	wood	poor	off-white	0.60 ± 0.30	no	yes
15	interior, Living Room		wall base	wood	poor	stained	<LOD	no	no
16	interior, Living Room		wall base	wood	poor	stained	<LOD	no	no
17	interior, Living Room	South	shelf	wood	poor	stained	<LOD	no	no
18	interior, Living Room	North	window frame	wood	poor	off-white	<LOD	no	no
19	interior, Living Room	East	door	wood	poor	stained	<LOD	no	no
20	interior, Living Room		ceiling	gypsum board	poor	off-white	<LOD	no	no
21	interior, Living Room		floor	wood	poor	stained	<LOD	no	no
22	interior, Living Room		stairs	wood	poor	off-white	<LOD	no	no
23	interior, E bedroom	North	wall	wood	poor	off-white	0.70 ± 0.10	no	yes
24	interior, E bedroom	East	window frame	wood	poor	off-white	0.80 ± 0.20	no	yes
25	interior, E bedroom	South	closet door	wood	poor	off-white	<LOD	no	no
26	interior, E bedroom	West	wall base	wood	poor	stained	<LOD	no	no
27	interior, E bathroom	West	wall	wood	poor	off-white	0.70 ± 0.30	no	yes
28	interior, E bathroom	West	door frame	wood	poor	off-white	0.30 ± 0.22	no	yes
29	interior, E bathroom	South	cabinet	wood	poor	off-white	<LOD	no	no
30	interior, E bathroom		ceiling	gypsum board	poor	off-white	0.01 ± 0.02	no	yes
31	interior, E bathroom	East	wall	wood	poor	off-white	0.50 ± 0.30	no	yes
32	interior, W bedroom	East	door	wood	poor	off-white	0.01 ± 0.04	no	yes
33	interior, W bedroom	North	wall	wood	poor	off-white	0.60 ± 0.40	no	yes
34	interior, W bedroom		window frame	wood	poor	off-white	0.70 ± 0.30	no	yes
35	interior, W bedroom	East	door frame	wood	poor	off-white	0.80 ± 0.10	no	yes
36	interior, W bedroom		floor	wood	poor	stained	<LOD	no	no
37	interior, SE bedroom	North	wall	wood	poor	off-white	0.70 ± 0.30	no	yes
38	interior, SE bedroom	East	wall	wood	poor	off-white	0.40 ± 0.20	no	yes
39	interior, SE bedroom	North	shelf	wood	poor	off-white	<LOD	no	no
40	interior, SE bedroom		ceiling	gypsum board	poor	off-white	<LOD	no	no

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/cm² (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/cm² 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.



EMET ID: 2112615

Test Date: February 2, 2022

**4474 Kukuihale Road
Anahola, HI 96703**

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm ²)	Lead-Based Paint	Confirmed Lead-Containing Paint
41	interior, SE bedroom		wall base	wood	poor	stained	<LOD	no	no
42	interior, hallway	South	door	wood	poor	off-white	<LOD	no	no
43	interior, hallway	West	door frame	wood	poor	off-white	0.50 ± 0.30	no	yes
44	interior, hallway	West	door frame	wood	poor	stained	0.90 ± 0.10	no	yes
45	interior, hallway	West	wall base	wood	poor	stained	<LOD	no	no
46	interior, hallway		floor	wood	poor	stained	<LOD	no	no
47	interior, living room		ceiling	wood	poor	stained	<LOD	no	no
48	interior, 2nd floor bedroom	North	wall	gypboard	poor	off-white	<LOD	no	no
49	interior, 2nd floor bedroom		wall base	wood	poor	stained	<LOD	no	no
50	interior, 2nd floor bedroom	South	wall	gypboard	poor	off-white	<LOD	no	no
51	interior, 2nd floor bedroom	West	window frame	wood	poor	stained	<LOD	no	no
52	interior, 2nd floor bedroom	West	window frame	wood	poor	stained	<LOD	no	no
53	interior, 2nd floor bedroom	East	wall base	wood	poor	stained	<LOD	no	no
54	interior, 2nd floor bedroom		ceiling	wood	poor	stained	<LOD	no	no
55	interior, 2nd floor bedroom		floor	wood	poor	stained	<LOD	no	no
56	interior, 2nd floor closet	South	wall	gypboard	poor	off-white	<LOD	no	no
57	interior, 2nd floor closet	East	wall	wood	poor	off-white	<LOD	no	no
58	interior, 2nd floor closet	West	wall base	wood	poor	stained	<LOD	no	no
59	interior, 2nd floor closet		floor	wood	poor	stained	<LOD	no	no
60	interior, 2nd floor bathroom	East	cabinet	wood	poor	stained	<LOD	no	no
61	interior, 2nd floor bathroom	West	door frame	wood	poor	gray	<LOD	no	no
62	interior, 2nd floor bathroom	West	wall base	wood	poor	gray	<LOD	no	no
63	interior, 2nd floor bathroom	North	wall	gypboard	poor	off-white	<LOD	no	no
64	interior, 2nd floor bathroom	East	window frame	wood	poor	gray	<LOD	no	no
65	interior, 2nd floor bathroom	South	wall	gypboard	poor	off-white	<LOD	no	no
66	exterior	East	door	wood	poor	off-white	<LOD	no	no
67	exterior	East	door frame	wood	poor	off-white	<LOD	no	no
68	exterior	East	wall	wood	poor	green	<LOD	no	no
69	exterior	East	stairs	wood	poor	salmon	<LOD	no	no
70	exterior	East	rafter	wood	poor	green	<LOD	no	no
71	exterior	East	wall	wood	poor	green	1.00 ± 0.10	yes	yes
72	NULL								
73	exterior	East	wall	wood	poor	green	<LOD	no	no
74	exterior	East	slats	wood	poor	green	0.90 ± 0.10	no	yes
75	exterior	East	post	wood	poor	green	<LOD	no	no
76	exterior	East	conduit pipe	metal	poor	green	<LOD	no	no
77	exterior	East	fascia	wood	poor	off-white	<LOD	no	no
78	exterior	East	flashing	metal	poor	off-white	<LOD	no	no
79	exterior	North	post	wood	poor	green	<LOD	no	no
80	exterior	North	beam	wood	poor	off-white	<LOD	no	no
81	exterior		door frame	wood	poor	off-white	<LOD	no	no
82	exterior	West	wall	wood	poor	green	<LOD	no	no
83	exterior	North	railing	wood	poor	green	<LOD	no	no
84	exterior	East	floor	wood	poor	salmon	<LOD	no	no

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/cm² (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/cm² or greater. <LOD = less than instrument level of detection.

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EMET ID: 2112615

Test Date: February 2, 2022

**4474 Kukuihale Road
Anahola, HI 96703**

XRF#	Location	Side	Component	Substrate	Condition	Color	PbC (mg/cm ²)	Lead-Based Paint	Confirmed Lead-Containing Paint
85	exterior	West	wall	wood	poor	green	<LOD	no	no
86	exterior	South	post	wood	poor	off-white	<LOD	no	no
87	exterior	South	fascia	wood	poor	off-white	<LOD	no	no
88	exterior	South	wall	wood	poor	green	<LOD	no	no
89	exterior	South	wall	wood	poor	green	<LOD	no	no
90	exterior	South	slats	wood	poor	green	<LOD	no	no
91	exterior	South	cabinet	wood	poor	off-white	<LOD	no	no
92	exterior	East	trelis	wood	poor	off-white	<LOD	no	no
93	exterior	East	wall	wood	poor	green	1.40 ± 0.40	yes	yes
94	exterior	East	wall	wood	poor	green	1.40 ± 0.40	yes	yes
95	exterior	East	wall trim	wood	poor	off-white	<LOD	no	no
96	exterior	East	slats	wood	poor	green	0.30 ± 0.22	no	yes
97	exterior	East	door frame	wood	poor	off-white	<LOD	no	no
98	exterior	East	door	wood	poor	red	<LOD	no	no
99	exterior	East	door	wood	poor	off-white	<LOD	no	no
100	exterior	East	railing	wood	poor	green	0.06 ± 0.12	no	yes
101	exterior	East	post	wood	poor	off-white	0.80 ± 0.20	no	yes
102	exterior	West	beam	wood	poor	off-white	0.30 ± 0.27	no	yes
103	exterior	West	rafter	wood	poor	green	<LOD	no	no
104	exterior	West	eave	wood	poor	green	0.50 ± 0.40	no	yes
105	exterior	East	fascia	wood	poor	off-white	<LOD	no	no
106	exterior	East	flashing	metal	poor	off-white	<LOD	no	no
107	exterior	East	stairs	wood	poor	salmon	0.01 ± 0.03	no	yes
108	exterior, carport	West	wall	wood	poor	off-white	<LOD	no	no
109	exterior, carport	South	wall	wood	poor	green	<LOD	no	no
110	exterior, carport	East	wall base	wood	poor	green	<LOD	no	no
111	exterior, carport	South	cabinet	wood	poor	stained	<LOD	no	no
112	exterior, carport		beam	wood	poor	green	<LOD	no	no
113	exterior, carport		rafter	wood	poor	green	<LOD	no	no
114	exterior, carport		ceiling	wood	poor	green	<LOD	no	no
115	exterior	North	floor	gypsum board	poor	green	<LOD	no	no
116	exterior		floor	concrete	poor	green	<LOD	no	no
117	exterior						0.14 ± 0.62	no	yes
138	Calibration						1.00 ± 0.10		
139	Calibration						1.00 ± 0.10		
140	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/cm² (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/cm² 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.



Appendix D

Certifications

4474 Kukuihale Road
Anahola, HI 96703

Asbestos, Lead Paint, and Arsenic Survey
EMET ID: 2112615

**United States Department of Commerce
National Institute of Standards and Technology**



Certificate of Accreditation to ISO/IEC 17025:2017

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 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO/IAC-IAF Communique dated January 2009).*



2021-07-01 through 2022-06-30
Effective Dates

For the National Voluntary Laboratory Accreditation Program

A handwritten signature in blue ink that reads "Michael G. Johnson".

STATE OF HAWAII



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, 2024.

Date of Issue: MAY 18, 2021
Certification # PBF-0024

NON-TRANSFERABLE

Diane Devario
FOR DIRECTOR OF HEALTH

REVOCABLE FOR CAUSE



**Uyeda
Andrew H.
EnvironMETeo Services, Inc.
HIASB-2432
State Exp. Date 08/01/2022**

State of Hawai'i Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	n/a
CS	n/a	PD	n/a
INS	12/01/02	PM	01/01/22

W= Worker
CS= Cont./Sup
INS= Inspector
PD= Project Designer
MP= Mgmt. Planner
PM= Project Monitor

State of Hawai'i Lead Based Paint Activities Certification

Expiration Dates:

Inspector-	n/a
Supervisor-	n/a
Risk Assessor-	10/16/2022
Project Designer-	n/a
Worker-	n/a



**Uyeda
Andrew
Certification # PB-0669**



**Estrada
Arnaldo
EnvironMETeo Services, Inc.
HIASB-0966
State Exp. Date 01/30/2023**

State of Hawai'i Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	n/a
CS	n/a	PD	n/a
INS	12/01/02	PM	01/01/22

W= Worker
CS= Cont./Sup
INS= Inspector
PD= Project Designer
MP= Mgmt. Planner
PM= Project Monitor

State of Hawai'i Lead Based Paint Activities Certification

Expiration Dates:

Inspector-	n/a
Supervisor-	n/a
Risk Assessor-	10/16/2022
Project Designer-	n/a
Worker-	n/a



**Estrada
Arnaldo
Certification # PB-0138**



**Groendyke
Bronson J.
EnvironMETeo Services, Inc.
HIASB-4452
State Exp. Date 03/14/2022**

State of Hawai'i Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	n/a
CS	n/a	PD	n/a
INS	12/11/21	PM	04/16/22

W= Worker
CS= Cont./Sup
INS= Inspector
PD= Project Designer
MP= Mgmt. Planner
PM= Project Monitor

State of Hawai'i Lead Based Paint Activities Certification

Expiration Dates:

Inspector-	n/a
Supervisor-	n/a
Risk Assessor-	05/01/2022
Project Designer-	n/a
Worker-	n/a



**Groendyke
Bronson J.
Certification # PB-1099**



End of Report

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AUSTIN, TSUTSUMI & ASSOCIATES, INC.

CIVIL ENGINEERS • SURVEYORS

CONTINUING THE ENGINEERING PRACTICE FOUNDED BY H. A. R. AUSTIN IN 1934

TERRANCE S. ARASHIRO, P.E.

ADRIENNE W.L.H. WONG, P.E., LEED AP

DEANNA M.R. HAYASHI, P.E.

PAUL K. ARITA, P.E.

ERIK S. KANESHIRO, L.P.L.S., LEED AP

MATT K. NAKAMOTO, P.E.

GARRETT K. TOKUOKA, P.E.

20-328.22

May 30, 2022

Ms. Darlene Fernandez
State of Hawaii
Department of Hawaiian Home Lands
91-5420 Kapolei Parkway
Kapolei, Hawaii 96707

SUBJECT: 4474 Kukuihale Road Boundary Stakeout
Lot 57 of Anahola Residence Lots
(Plat 24.3 H.H.)
At Anahola, Kawaihau, Kauai, Hawaii
TMK: (4) 4-8-017: 029

Pursuant to your request, we wish to inform you that the staking of the above-mentioned property, was completed on May 3, 2022. Should there be any questions, please contact the undersigned at 533-3646.



ERIK S. KANESHIRO, L.P.L.S.
CERTIFICATE NO. 9826
EXP. 04/24