

HAZARDOUS MATERIALS SURVEY REPORT

**KAIPAPAU STREAM BRIDGE REPLACEMENT
HAU'ULA, OAHU, HAWAII**

Prepared for:
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ETC Project No. 19-4007

April 26, 2019

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1.0 CERTIFICATIONS AND LIMITATIONS

EnviroServices & Training Center, LLC (ETC) has completed a Limited Hazardous Materials Survey (Survey) for R.M. Towill Corporation at Kaipapau Buildings located at buildings identified by Tax Map Key (TMK) 5-4-18: Parcel 003, Kamehameha Highway, Oahu, Hawaii (Subject Site). ETC's findings and recommendations contained herein are based on site observations, government regulations and laboratory data, which were gathered at the time and location of the study. Opinions stated in this report do not apply to changes that may have occurred after the services were performed.

ETC has performed specified services for this project with the degree of care, skill and diligence ordinarily exercised by professional consultants performing the same or similar services. No other warranty, guarantee, or representation, expressed or implied, is included or intended; unless otherwise specifically agreed to in writing by both ETC and ETC's Client.

This report is intended for the sole use of R.M. Towill Corporation, exclusively for the Subject Site. R.M. Towill Corporation may use and release this report, including making and retaining copies, provided such use is limited to the particular site and project for which this report is provided. However, the services performed may not be appropriate for satisfying the needs of other users. Release of this report to third-parties will be at the sole risk of ETC's Client and/or said user, and ETC shall not be liable for any claims or damages resulting from or connected with such release or any third party's use or reuse of this report.

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State of Hawaii Asbestos Building Inspector # HIASB-0315
State of Hawaii Lead Building Inspector # PB-0041

Surveyed/
Prepared By: Daniel Woo
State of Hawaii Asbestos Building Inspector # HIASB-4697
State of Hawaii Lead Building Inspector # PB-1075

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Prepared By: Jacob Valencia
State of Hawaii Asbestos Building Inspector # HIASB-4696
State of Hawaii Lead Building Inspector # PB-1074

EXECUTIVE SUMMARY

EnviroServices & Training Center, LLC (ETC) conducted a Limited Hazardous Materials Survey (Survey) and compiled this report for R.M. Towill Corporation at Kaipapau Buildings located at buildings identified by Tax Map Key (TMK) 5-4-18: Parcel 003, Kamehameha Highway, Oahu, Hawaii (Subject Site). The following hazardous materials were identified during ETC's survey of buildings A (main house) and B (studio):

1.1 Summary of Asbestos Containing Materials Survey

Laboratory analysis determined that the following material contains asbestos above the regulatory limit of 1%:

- Black mastic on pipe penetration on roof B
- Black Mastic under white caulking on pipe penetration on roof B
- Rolled on roofing on roof B

1.2 Summary of Lead Paint Survey

Laboratory analysis determined that the sampled paints do not contain detectable levels of lead above the laboratory detection limit and are considered to be non-lead-containing.

1.3 Summary of Arsenic Survey

None of the materials sampled were found to contain detectable levels of arsenic.

2.0 INTRODUCTION/PURPOSE

The purpose of this Survey was to inspect the Subject Site for the presence of suspected hazardous materials that may be affected by the project. The Survey was conducted on April 15, 2019 and limited to the areas specified by R.M. Towill Corporation. Specifically, ETC completed the following tasks:

- Performed site reconnaissance at the Subject Site;
- Collected sixty (60) samples of suspected Asbestos-Containing Material (ACM) from the Subject Site;
- Submitted the 60 samples of suspected ACM to EMC Labs, Inc. (EMC) for analysis of asbestos via Polarized Light Microscopy (PLM) in accordance with the Environmental Protection Agency (EPA) Method 600/R-93/116;
- Collected four(4) paint chip samples from the Subject Site;
- Submitted the 4 paint chip samples to EMC for analysis by flame atomic absorption spectroscopy (FAAS) via EPA Method 7000 for total lead content;
- Conducted a visual inspection for suspect arsenic-containing materials, and
- Collected one (1) arsenic sample from the Subject Site;
- Prepared this report documenting the field activities and the results of the investigation including analytical results, conclusions, and recommendations.

3.0 METHODOLOGY

3.1 Asbestos

ETC personnel collected 60 samples of suspected ACM for asbestos analysis. Samples were collected from various areas of the Subject Site in accordance with EPA guidelines and recommendations.

The suspected ACM were wetted with amended water before sample collection. A small piece was then carefully cut out and placed into a labeled, re-sealable plastic bag. The sampling equipment was cleaned between each sample collection to avoid cross-contamination between samples. The approximate quantity of each suspected ACM was noted. Sample locations were randomly selected in accordance with EPA protocols and recommendations.

Samples were properly logged and recorded following strict chain-of-custody procedures, and sent to EMC located in Phoenix, Arizona, for analysis by PLM in accordance with EPA Method 600/R-93/116. EMC is accredited for bulk asbestos analysis through successful participation in the National Voluntary Lab Accreditation Program (NVLAP).

3.2 Lead Paint

ETC personnel collected and had 4 paint chip samples analyzed in accordance with the EPA guidelines and recommendations.

The suspected lead-containing paints were wetted with amended water before sample collection. Paint was carefully scraped and placed into a labeled re-sealable plastic bag. The sampling equipment was cleaned between each sample collection to avoid cross-contamination between samples. Samples were properly logged and recorded following strict chain of custody procedure and submitted to EMC for analysis by FAAS, in accordance with EPA Method 7420. EMC is an Environmental Lead Laboratory Accreditation Program (ELLAP)-accredited laboratory.

3.3 Arsenic

ETC personnel collected 1 sample of fiberboard material, suspected of being treated with arsenic, from the Subject Site. The suspected arsenic treated samples were collected in accordance with EPA guidelines and recommendations.

The suspected arsenic treated materials were wetted with amended water before sample collection. Small pieces were then carefully cut out and placed into a labeled, re-sealable plastic bag. The samples were logged and recorded following strict chain of custody procedure and submitted to NVL Laboratories, Inc. for analysis by EPA Method 6010.

4.0 RESULTS

4.1 Asbestos

Laboratory analysis determined that the following material contains asbestos above the regulatory limit of 1%:

- Black mastic on pipe penetration on roof B
- White Caulking on pipe penetration with black mastic on roof B
- Rolled on roofing on roof B

In accordance with federal and state regulations and industry standard practice, ETC determined homogenous areas of each suspect material and collected multiple representative samples of the material from each homogenous area. Typically, all samples for a suspect material will have similar laboratory results. When the results differ, a single result above the regulatory limit is sufficient to determine that the material within the homogenous area is ACM and the entirety of the homogenous area should be treated as ACM. Thus, ETC may request that the laboratory stops analyzing when the first sample in the set is determines to have asbestos content above one percent.

In addition, six (6) materials were found to contain glass fibers. Although materials containing such fibers are not specifically regulated, it is ETC's recommendation to handle materials containing glass fibers with appropriate protective equipment.

The asbestos analytical laboratory report is included in Appendix II.

4.2 Lead Paint

The sampled paints did not contain detectable levels of lead and are considered to be non-lead-containing.

The lead analytical laboratory report is included in Appendix II.

4.3 Arsenic

The sampled suspect arsenic containing material did not contain detectable levels of arsenic.

The arsenic analytical laboratory report is included in Appendix II.

5.0 DISCUSSION AND RECOMMENDATIONS

The findings and recommendations of ETC's limited hazardous material survey extended only to those areas that were accessible at the time of the site reconnaissance. Any areas that were inaccessible either due to physical restraints (i.e. areas within walls, excessive heights, hidden materials, etc.) are not covered under the scope of this survey and should be evaluated for hazardous materials separately prior to any disturbance.

Based on ETC's visual inspection of the facility and laboratory data, ETC recommends the following:

- Manage and/or remove and dispose of hazardous and regulated materials in accordance with applicable federal, state, and local regulations, prior to renovation and/or demolition activities that may disturb these materials.
- Any material that is suspected to contain a hazardous contaminant but was not tested as part of this survey should be tested prior to disturbance.
- All ACM must be removed and disposed of by a qualified asbestos abatement contractor.
- Handle materials containing glass fibers with appropriate protective equipment to prevent inhalation or ingestion of fibers and contact with skin and mucous membranes.
- Any abatement and demolition contractor(s) must take appropriate measures to comply with applicable EPA, Occupational Safety and Health Administration (OSHA), and Hawaii Occupational Safety and Health (HIOSH) regulations pertaining to the handling of asbestos containing materials and worker protection. Note that OSHA and HIOSH regulate activities that disturb materials containing any detectable concentrations of these contaminants.
- Retain the services of a qualified consultant to monitor and inspect the removal activities to ensure compliance with applicable EPA, OSHA and HIOSH regulations pertaining to the handling of hazardous materials.
- Conduct air monitoring for asbestos fibers by qualified personnel during abatement and general renovation/demolition activities in areas that were determined to contain asbestos.

Appendix **I**

RESULTS TABLES

Table 2
Asbestos Survey Results
Kaipapau Stream Bridge Replacement

Sample ID	Homogeneous Area	Material	Condition	Category	Friability	Analysis Layer	Asbestos Content	Estimated Quantity
1907-003B-A01	Building B Studio	12" 12" Ceramic Floor Tile with Grout	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A02								
1907-003B-A03								
1907-003B-A04	Building B Studio	Black Mastic on Pipe Penetration on Roof	Fair	Misc	Category II Non-Friable	Black Mastic	ChyrsoTile 5%	2 square ft.
1907-003B-A05						Not Analyzed	Not Applicable	
1907-003B-A06						Not Analyzed	Not Applicable	
1907-003B-A07	Building B Studio	White Caulking Around Toilet	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A08								
1907-003B-A09								
1907-003B-A10	Building B Studio	Grey Sink Insulation	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A11								
1907-003B-A12								
1907-003B-A13	Building B Studio	Grey Felt on Perimeter of Roof	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A14								
1907-003B-A15								

Table 2
Asbestos Survey Results
Kaipapau Stream Bridge Replacement

Sample ID	Homogeneous Area	Material	Condition	Category	Friability	Analysis Layer	Asbestos Content	Estimated Quantity
1907-003B-A16	Building B Studio	Black Felt on Perimeter of Roof	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A17								
1907-003B-A18								
1907-003B-A19	Building B Studio	White Caulking on Pipe Pentration with Black Mastic on Roof	Good	Misc	Category II Non-Friable	White Caulking	None Detect	3 square ft.
1907-003B-A20						Black Mastic	4% Chyrstotile	
1907-003B-A21						Not Analyzed	Not Applicable	
1907-003B-A22						Not Analyzed	Not Applicable	
1907-003B-A23	Building B Studio	White Door Caulking	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A24								
1907-003B-A25								
1907-003B-A26	Building B Studio	Drywall Wall and Ceiling w/ Joint Compound	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A27								
1907-003B-A28								
1907-003B-A29	Building B Studio	Beige Mastic on Electric Cable Pole on Roof	Good	Not Applicable	Not Applicable	All Layers	None Detect	Not Applicable
1907-003B-A30								

Table 2
Asbestos Survey Results
Kaipapau Stream Bridge Replacement

Sample ID	Homogeneous Area	Material	Condition	Category	Friability	Analysis Layer	Asbestos Content	Estimated Quantity
1907-003B-A31	Building B Studio	Rolled on Roofing Material	Good	Misc	Category II Non-Friable	Black Roofing	8% Chrysotile	150 square ft.
						Black/Off-White Roofing	None Detect	
1907-003B-A32						Not Analyzed	Not Applicable	
1907-003B-A33						Not Analyzed	Not Applicable	

Table 3
Lead Survey Results
Kaipapau Stream Bridge Replacement

<i>Sample ID</i>	<i>Location</i>	<i>Interior/ Exterior</i>	<i>Color</i>	<i>Substrate</i>	<i>Description</i>	<i>Condition</i>	<i>Reporting Limit (% Pb by weight)</i>	<i>Results (% Pb by weight)</i>
1907-L01	Throughout	Interior	White	Drywall	Walls, Ceilings	Intact	0.010	BRL
				Wood	Door, Door Frame, Window, Baseboard			
1907-L02	Garage Port, Exterior of Main Building and Studio	Exterior	White	Concrete	Walls, Building Foundation	Intact	0.010	BRL
1907-L03	Exterior of Main Building and Studio	Exterior	Brown	Wood	Fence, Railings, Steps, Porch, Window Frame	Intact	0.010	BRL
				Metal	Flashing			
1907-L04	Garage Port, Exterior of Main Building and Studio	Exterior	Beige	Wood	Walls, Beams, Eaves, Overhang	Intact	0.013	BRL
				Concrete	Support Poles			

Table 4
Arsenic Survey Results
Kaipapau Stream Bridge Replacement

Sample ID	Location	Material Description	Condition	Color	Reporting Limit (mg/kg)	Results (mg/kg)
1907-003A-Ars01	Building A Main Building	Fiber Board Ceiling Panel	Good	White	20.0	<20.0

Appendix **II**

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

0218703

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/24/2019
Collected:	04/15/2019	Date Reported:	04/24/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG A	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218703-001 1907-003A-A01		16x16 Ceramic Tile/ Grout, Beige/ Gray Note: No Ceramic Tile Present	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
0218703-002 1907-003A-A02		16x16 Ceramic Tile/ Grout, Beige/ Gray Note: No Ceramic Tile Present	No	None Detected	Quartz Gypsum Mica Carbonates Binder/Filler 100%
0218703-003 1907-003A-A03		16x16 Ceramic Tile/ Grout, Beige/ Gray Note: No Ceramic Tile Present	No	None Detected	Quartz Gypsum Mica Carbonates Binder/Filler 100%
0218703-004 1907-003A-A04		LAYER 1 Drywall, Off White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Mica Quartz Carbonates 88%
		LAYER 2 Texture, White/ Off White	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler 100%

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Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG A	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218703-005 1907-003A-A05		LAYER 1 Drywall, Off White/ Brown	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Mica Quartz Carbonates 88%
		LAYER 2 Texture, White/ Off White	No	None Detected	Carbonates Quartz Gypsum Perlite Binder/Filler 100%
0218703-006 1907-003A-A06		Drywall/ Texture, Off White/ Brown Note: No Texture Present	No	None Detected	Cellulose Fiber 10% Fibrous Glass 2% Gypsum Mica Quartz Carbonates 88%
0218703-007 1907-003A-A07		LAYER 1 Fiberboard, White/ Brown	No	None Detected	Cellulose Fiber 90% Carbonates Gypsum Binder/Filler 10%
		LAYER 2 Texture/ Paint, White/ Tan	No	None Detected	Cellulose Fiber 1% Carbonates Mica Quartz Perlite Binder/Filler 99%

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Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG A	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218703-008 1907-003A-A08		LAYER 1 Fiberboard, White/ Brown	No	None Detected	Cellulose Fiber 90%
					Carbonates Gypsum Binder/Filler 10%
		LAYER 2 Texture/ Paint, White/ Tan	No	None Detected	Cellulose Fiber <1%
					Carbonates Mica Quartz Perlite Binder/Filler 99%
0218703-009 1907-003A-A09		LAYER 1 Fiberboard, White/ Brown	No	None Detected	Cellulose Fiber 90%
					Carbonates Gypsum Binder/Filler 10%
		LAYER 2 Texture/ Paint, White/ Tan	No	None Detected	Cellulose Fiber <1%
					Carbonates Mica Quartz Perlite Binder/Filler 99%
0218703-010 1907-003A-A10		LAYER 1 Carpet, White	No	None Detected	Synthetic Fiber 85%
					Carbonates Binder/Filler 15%
		LAYER 2 Adhesive, White/ Yellow	No	None Detected	Synthetic Fiber <1%
					Carbonates Quartz Binder/Filler 99%

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Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG A	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents	
0218703-011 1907-003A-A11		LAYER 1 Carpet, White	No	None Detected	Synthetic Fiber	85%
					Carbonates Binder/Filler	15%
		LAYER 2 Adhesive, White/ Yellow	No	None Detected	Carbonates Quartz Binder/Filler	100%
0218703-012 1907-003A-A12		LAYER 1 Carpet, White	No	None Detected	Synthetic Fiber	85%
					Carbonates Binder/Filler	15%
		LAYER 2 Adhesive, White/ Yellow	No	None Detected	Carbonates Quartz Binder/Filler	100%
0218703-013 1907-003A-A13		LAYER 1 Shingle, Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler	80%
		LAYER 2 Shingle, Black/ Red	No	None Detected	Fibrous Glass Cellulose Fiber	20% <1%
					Carbonates Quartz Binder/Filler	79%
		LAYER 3 Felt, Black	No	None Detected	Cellulose Fiber	40%
					Carbonates Gypsum Binder/Filler	60%

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Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG A	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218703-014 1907-003A-A14	LAYER 1 Shingle, Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler
					80%
	LAYER 2 Shingle, Black/ Red	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler
					80%
	LAYER 3 Felt, Black	No	None Detected	Cellulose Fiber	40%
					Carbonates Gypsum Binder/Filler
					60%
0218703-015 1907-003A-A15	LAYER 1 Shingle, Black	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler
					80%
	LAYER 2 Shingle, Black/ Red	No	None Detected	Fibrous Glass	20%
					Carbonates Quartz Binder/Filler
					80%
	LAYER 3 Felt, Black	No	None Detected	Cellulose Fiber	40%
					Carbonates Gypsum Binder/Filler
					60%
0218703-016 1907-003A-A16	Sink Insulation, Gray	No	None Detected	Carbonates Mica Quartz Binder/Filler	100%

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	HONOLULU HI 96814	Date Analyzed:	04/24/2019
Collected:	04/15/2019	Date Reported:	04/24/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG A	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218703-017 1907-003A-A17		Sink Insulation, Gray	No	None Detected	Carbonates Mica Quartz Binder/Filler 100%
0218703-018 1907-003A-A18		Sink Insulation, Gray	No	None Detected	Cellulose Fiber Carbonates Mica Quartz Binder/Filler 99%
0218703-019 1907-003A-A19		Caulking, Beige/ Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0218703-020 1907-003A-A20		Caulking, Beige/ Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0218703-021 1907-003A-A21		Caulking, Beige/ Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0218703-022 1907-003A-A22		Caulking, Off White	No	None Detected	Cellulose Fiber Carbonates Quartz Binder/Filler 99%

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Bulk Asbestos Analysis by Polarized Light Microscopy

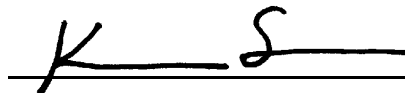
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Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG A	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218703-023 1907-003A-A23		Caulking, Off White	No	None Detected	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 99%
0218703-024 1907-003A-A24		Caulking, Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0218703-025 1907-003A-A25		Caulking, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0218703-026 1907-003A-A26		Caulking, White	No	None Detected	Carbonates Quartz Binder/Filler 100%
0218703-027 1907-003A-A27		Caulking, White	No	None Detected	Carbonates Quartz Binder/Filler 100%



Analyst - Kurt Kettler



Signatory - Lab Manager - Ken Scheske

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(800) 362-3373 Fax (480) 893-1726

LAB#: 218703
TAT: 35 days
Rec'd: APR 17 P.M.

COMPANY NAME: **ENVIROSERVICES & TRAINING CENTER, LLC**
505 Ward Ave. Suite #202
Honolulu, HI 96814
CONTACT: Daniel Woo, Jacob Valencia, Vel Roberts
Phone/Fax: (808) 839-7222 ext 225 / (619) 495-6559
Email: dwoo@gotoetc.com, jvalencia@gotoetc.com

BILL TO: (If Different Location)
Trina Oshiro

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ / Sample \$ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [Same Day RUSH] [1-Day] [2-Day] [3-4-5 Day] [6-10 Day]

****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** Kaipapaw TML 5-4-18-003 bldg. A **Project Number:** 19-4007

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No
1, 2, 3	1907-003A-A01-A03	4/15/19	^{white} 16"x16" ceramic tile w/grout; Liv/Kit/Restroom	Y N
4, 5, 6	1907-003A-A04-A06		^{white} Drywall walls and ceiling w/joint compound	Y N
7, 8, 9	1907-003A-A07-A09		^{white} Fiberboard ceiling panels	Y N
10, 11, 12	1907-003A-A10-A12		Carpet material w/adhesive	Y N
13, 14, 15	1907-003A-A13-A15		Shingles on roof A	Y N
16, 17, 18	1907-003A-A16-A18		Gray sink insulation in kitchen	Y N
19, 20, 21	1907-003A-A19-A21		Beige caulking around bathroom tub w/adhesive	Y N
22, 23, 24	1907-003A-A22-A24		Off-white caulking around kitchen counter	Y N
25, 26, 27	1907-003A-A25-A27		white caulking around bathroom sink	Y N
				Y N
				Y N
				Y N

SPECIAL INSTRUCTIONS: Stop at first positive

Sample Collector: (Print) Jacob Valencia, Daniel Woo (Signature) Jacob Valencia

Relinquished by D.Woo Date/Time 4/15/19 Received by: Diana Federico Date/Time: 4/17/19 950

Relinquished by: Diana Federico Date/Time: 4/17/19 3:55 PM Received by: [Signature] Date/Time: 4/17/19 530

Relinquished by: _____ Date/Time _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

0218704

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: ENVIROSERVICES & TRAINING CENTER Job# / P.O. #: 19-4007
Address: 505 WARD AVE, STE 202 Date Received: 04/17/2019
HONOLULU HI 96814 Date Analyzed: 04/22/2019
Collected: 04/15/2019 Date Reported: 04/22/2019
Project Name: KAIPAPAU TMK 5-4-18:03 BLDG B EPA Method: EPA 600/R-93/116
Address: Submitted By: JACOB VALENCIA
Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-001 1907-003B-A01		LAYER 1 Ceramic Floor Tile, White/ Red	No	None Detected	Quartz Gypsum Binder/Filler 100%
		LAYER 2 Grout, Beige/ Gray	No	None Detected	Quartz Gypsum Mica Carbonates Binder/Filler 100%
0218704-002 1907-003B-A02		LAYER 1 Ceramic Floor Tile, White/ Red	No	None Detected	Quartz Gypsum Binder/Filler 100%
		LAYER 2 Grout, Beige/ Gray	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Mica Carbonates Binder/Filler 99%
0218704-003 1907-003B-A03		LAYER 1 Ceramic Floor Tile, White/ Red	No	None Detected	Quartz Gypsum Binder/Filler 100%
		LAYER 2 Grout, Beige/ Gray	No	None Detected	Cellulose Fiber <1% Quartz Gypsum Binder/Filler 99%
0218704-004 1907-003B-A04		Mastic, Black	Yes	Chrysotile 5%	Fibrous Glass 3% Gypsum Carbonates Quartz Binder/Filler 92%

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Laboratory Report

0218704

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/22/2019
Collected:	04/15/2019	Date Reported:	04/22/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG B	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-005 1907-003B-A05		Mastic, Black Note: *Not analyzed per client request			
0218704-006 1907-003B-A06		Mastic, Black Note: *Not analyzed per client request			
0218704-007 1907-003B-A07		Caulking, White/ Off White	No	None Detected	Silicone 100%
0218704-008 1907-003B-A08		Caulking, White/ Off White	No	None Detected	Silicone 100%
0218704-009 1907-003B-A09		Caulking, White/ Off White	No	None Detected	Silicone 100%
0218704-010 1907-003B-A10		Sink Insulation, Gray	No	None Detected	Cellulose Fiber <1% Carbonates Mica Quartz Binder/Filler 99%
0218704-011 1907-003B-A11		Sink Insulation, Gray	No	None Detected	Cellulose Fiber <1% Carbonates Mica Quartz Binder/Filler 99%
0218704-012 1907-003B-A12		Sink Insulation, Gray	No	None Detected	Carbonates Mica Quartz Binder/Filler 100%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/22/2019
Collected:	04/15/2019	Date Reported:	04/22/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG B	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-013 1907-003B-A13		Felt, Gray	No	None Detected	Fibrous Glass 1% Carbonates Quartz Gypsum Binder/Filler 99%
0218704-014 1907-003B-A14		Felt, Gray	No	None Detected	Fibrous Glass 1% Cellulose Fiber <1% Carbonates Quartz Gypsum Binder/Filler 98%
0218704-015 1907-003B-A15		Felt, Gray	No	None Detected	Fibrous Glass 1% Cellulose Fiber <1% Carbonates Quartz Gypsum Binder/Filler 98%
0218704-016 1907-003B-A16		LAYER 1 Felt, Black	No	None Detected	Fibrous Glass 20% Carbonates Quartz Binder/Filler 80%
		LAYER 2 Coating, White/ Black	No	None Detected	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 99%

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Laboratory Report
0218704

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/22/2019
Collected:	04/15/2019	Date Reported:	04/22/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG B	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-017 1907-003B-A17	LAYER 1 Felt, Black		No	None Detected	Fibrous Glass 20%
					Carbonates Quartz Binder/Filler 80%
	LAYER 2 Felt, Black		No	None Detected	Fibrous Glass 20%
					Carbonates Quartz Binder/Filler 80%
	LAYER 3 Coating, White/ Black		No	None Detected	Cellulose Fiber <1%
					Quartz Carbonates Gypsum Mica Binder/Filler 99%
0218704-018 1907-003B-A18	LAYER 1 Felt, Black		No	None Detected	Fibrous Glass 20%
					Carbonates Quartz Binder/Filler 80%
	LAYER 2 Felt, Black		No	None Detected	Fibrous Glass 20%
					Carbonates Quartz Binder/Filler 80%
	LAYER 3 Coating, White/ Black		No	None Detected	Carbonates Quartz Binder/Filler 100%
0218704-019 1907-003B-A19	LAYER 1 Caulking, White/ Off White		No	None Detected	Cellulose Fiber <1%
					Carbonates Quartz Binder/Filler 99%
	LAYER 2 Mastic, Black		Yes	Chrysotile 4%	Cellulose Fiber 1%
					Carbonates Quartz Binder/Filler 95%

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Laboratory Report

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/22/2019
Collected:	04/15/2019	Date Reported:	04/22/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG B	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-020 1907-003B-A20		LAYER 1 Caulking, White/ Off White Note: *Not analyzed per client request LAYER 2 Mastic, Black Note: *Not analyzed per client request			
0218704-021 1907-003B-A21		LAYER 1 Caulking, White/ Off White Note: *Not analyzed per client request LAYER 2 Mastic, Black Note: *Not analyzed per client request			
0218704-022 1907-003B-A22		Door Caulking, White/ Off White	No	None Detected	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 99%
0218704-023 1907-003B-A23		Door Caulking, White/ Off White	No	None Detected	Cellulose Fiber <1% Carbonates Quartz Binder/Filler 99%
0218704-024 1907-003B-A24		Door Caulking, White/ Off White	No	None Detected	Carbonates Quartz Binder/Filler 100%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client: ENVIROSERVICES & TRAINING CENTER Job# / P.O. #: 19-4007
Address: 505 WARD AVE, STE 202 Date Received: 04/17/2019
HONOLULU HI 96814 Date Analyzed: 04/22/2019
Collected: 04/15/2019 Date Reported: 04/22/2019
Project Name: KAIPAPAU TMK 5-4-18:03 BLDG B EPA Method: EPA 600/R-93/116
Address: Submitted By: JACOB VALENCIA
Collected By:

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-025 1907-003B-A25		LAYER 1 Drywall, Off White/ Brown	No	None Detected	Cellulose Fiber 12% Gypsum Mica Quartz Carbonates 88%
		LAYER 2 Texture, White/ Off White	No	None Detected	Cellulose Fiber 1% Carbonates Quartz Perlite Binder/Filler 99%
		LAYER 1 Drywall, Off White/ Brown	No	None Detected	Cellulose Fiber 12% Gypsum Mica Quartz Carbonates 88%
		LAYER 2 Texture, White/ Off White	No	None Detected	Carbonates Mica Quartz Perlite Binder/Filler 100%
0218704-027 1907-003B-A27		LAYER 1 Drywall, Off White/ Brown	No	None Detected	Cellulose Fiber 12% Gypsum Mica Quartz Carbonates 88%
		LAYER 2 Texture, White/ Off White	No	None Detected	Cellulose Fiber 1% Carbonates Quartz Perlite Binder/Filler 99%

EMC LABS, INC.

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Laboratory Report

0218704

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/22/2019
Collected:	04/15/2019	Date Reported:	04/22/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG B	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-028 1907-003B-A28		Mastic/ Caulking, Beige/ Off White	No	None Detected	Quartz Gypsum Binder/Filler 100%
0218704-029 1907-003B-A29		Mastic/ Caulking, Beige/ Off White	No	None Detected	Quartz Gypsum Binder/Filler 100%
0218704-030 1907-003B-A30		Mastic/ Caulking, Beige/ Off White	No	None Detected	Cellulose Fiber Quartz Gypsum Binder/Filler <1% 99%
0218704-031 1907-003B-A31		LAYER 1 Coating, White/ Gray	No	None Detected	Carbonates Quartz Binder/Filler 100%
		LAYER 2 Roofing, Black/ Off White	No	None Detected	Synthetic Fiber Fibrous Glass Carbonates Quartz Binder/Filler 15% 5% 80%
		LAYER 3 Roofing, Black	No	None Detected	Cellulose Fiber Carbonates Gypsum Quartz Binder/Filler 20% 80%
		LAYER 4 Roofing, Black	No	None Detected	Fibrous Glass Carbonates Quartz Binder/Filler 20% 80%

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Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/22/2019
Collected:	04/15/2019	Date Reported:	04/22/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG B	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-032 1907-003B-A32	ADDITIONAL LAYERS	LAYER 1 Coating, White/ Gray Note: *Not analyzed per client request LAYER 2 Roofing, Black/ Off White Note: *Not analyzed per client request LAYER 3 Roofing, Black Note: *Not analyzed per client request LAYER 4 Roofing, Black Note: *Not analyzed per client request			
0218704-033 1907-003B-A33		LAYER 1 Coating, White/ Gray Note: *Not analyzed per client request LAYER 2 Roofing, Black/ Off White Note: *Not analyzed per client request LAYER 3 Roofing, Black Note: *Not analyzed per client request LAYER 4 Roofing, Black Note: *Not analyzed per client request			

EMC LABS, INC.

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Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report
0218704

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROSERVICES & TRAINING CENTER	Job# / P.O. #:	19-4007
Address:	505 WARD AVE, STE 202	Date Received:	04/17/2019
	HONOLULU HI 96814	Date Analyzed:	04/22/2019
Collected:	04/15/2019	Date Reported:	04/22/2019
Project Name:	KAIPAPAU TMK 5-4-18:03 BLDG B	EPA Method:	EPA 600/R-93/116
Address:		Submitted By:	JACOB VALENCIA
		Collected By:	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0218704-034 1907-003B-A31		LAYER 1 Roofing, Black	Yes	Chrysotile 8%	Gypsum Carbonates Quartz Binder/Filler 92%
		LAYER 2 Roofing, Black/ Off White	No	None Detected	Fibrous Glass 20% Carbonates Quartz Binder/Filler 80%



Analyst - James A. Storm



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimate and measured in area percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicated or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately less than 1 by area percent. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(800) 362-3373 Fax (480) 893-1726

LAB#: 218704
TAT: 3 Day
Rec'd: APR 17 PM

COMPANY NAME: **ENVIROSERVICES & TRAINING CENTER, LLC**

BILL TO: (If Different Location)

505 Ward Ave. Suite #202

Trina Oshiro

Honolulu, HI 96814

CONTACT: Daniel Woo

Phone/Fax: (808) 839-7222 ext 225 / (619) 495-6559

Email: dwoo@gotoetc.com

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ / Sample \$ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day RUSH] [1-Day] [2-Day] [3-4-5 Day] [6-10 Day]

****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. Project Name: Kaipapau TMK 5-4-18 bldg B **Project Number:** 19-4007

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No
1,2,3	1907-003B-A01-A03	4/15/19	12" x 12" Ceramic Floor tile with grout	Y N
4,5,6	1907-003B-A04-A06		Black mastic on pipe penetration on roof	Y N
7,8,9	1907-003B-A07-A09		White caulking around toilet	Y N
10,11,12	1907-003B-A10-A12		Grey shik insulation	Y N
13,14,15	1907-003B-A13-A15		Grey felt on perimeter of roof	Y N
16,17,18	1907-003B-A16-A18		Black felt on perimeter of roof	Y N
19,20,21	1907-003B-A19-A21		White caulking on pipe penetration with black mastic roof	Y N
22,23,24	1907-003B-A22-A24		door caulking white	Y N
25,26,27	1907-003B-A25-A27		Drywall wall and ceiling Joint compound	Y N
28,29,30	1907-003B-A28-A30		Biege mastic on electric cable pole on roof	Y N
31,32,33	1907-003B-A31-A33		Rolled on roofing on roof	Y N
				Y N

SPECIAL INSTRUCTIONS: Stop after 1st positive

Sample Collector: (Print) Daniel W / Jacob ✓ (Signature) Daniel Woo

Relinquished by: D.Woo Date/Time 4/15/19 Received by: Diana Federico Date/Time: 4/17/19 950

Relinquished by: Diana Federico Date/Time: 4/17/19 3:55pm Received by: [Signature] Date/Time: 4/17/19 355

Relinquished by: Date/Time Received by: Date/Time:

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

LEAD (Pb) IN PAINT CHIP SAMPLES
EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB #: L74587			DATE RECEIVED: 04/17/19		
CLIENT: Enviroservices & Training Center, LLC			REPORT DATE: 04/22/19		
			DATE OF ANALYSIS: 04/19/19		
CLIENT ADDRESS: 505 Ward Ave. Suite #202 Honolulu, HI 96814			P.O. NO.:		
PROJECT NAME: Kaipapau Buildings – Kaipopou Stream Bridge Replacement			PROJECT NO.: 19-4007		

EMC # L74587-	SAMPLE DATE /19	CLIENT SAMPLE #	DESCRIPTION	REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
1	04/15	1907-L01	Interior – White – On Drywall – Ceiling/ Walls-/ Wood Door and Door Frames/ Window Frames/ Baseboard	0.010	BRL
2	04/15	1907-L02	Exterior – White on Concrete Wall and Building Foundation	0.010	BRL
3	04/15	1907-L03	Exterior – Brown – Wood Fence, Railings Steps, Porch/ Window Frames and Roof Metal	0.010	BRL
4	04/15	1907-L04	Exterior – Beige – Wood, Walls, Beams, Eaves, Overhang – Concrete Support Poles	0.010	BRL

^ = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results **BRL** = Below Reportable Limits # = Very Small Amount Of Sample Submitted, May Affect Result

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST:

Jason Thompson

QA COORDINATOR:

Kurt Kettler

CHAIN OF CUSTODY

EMC Labs, Inc.
9830 S. 51st St., Ste B-109
Phoenix, AZ 85044
(800) 362-3373 Fax (480) 893-1726

LAB#: 274587
TAT: 3 day
Rec'd: 4/17/19

COMPANY NAME: **ENVIROSERVICES & TRAINING CENTER, LLC**

BILL TO: (If Different Location)

505 Ward Ave. Suite #202

Trina Oshiro

Honolulu, HI 96814

CONTACT: Daniel Woo

Phone/Fax: (808) 839-7222 ext 225 / (619) 495-6559

Email: dwoo@gotoetc.com

Now Accepting: **VISA - MASTERCARD**

Price Quoted: \$ _____ / Sample \$ _____ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)**1. TURNAROUND TIME:** [Same Day RUSH] [1-Day] [2-Day] [3-4-5 Day] [6-10 Day]

****Prior confirmation of turnaround time is required

****Additional charges for rush analysis (please call marketing department for pricing details)

****Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]**3. DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. Project Name: Kaipapau Buildings - Bridge Replacement ^{Kaipapau Stream} **Project Number:** 19-4007

EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No
	1907-L01	04/15/19	Interior - White - on Drywall - Ceilings / Walls / Wood Door and Door Frames / Door Window Frames / Baseboard	Y N
	1907-L02	04/15/19	Exterior - White on concrete Wall and Building Foundation	Y N
	1907-L03	04/15/19	Exterior - Brown - Wood Fence, Railings, Steps, Porch	Y N
	1907-L04		Window Frame and Roof Metal Flashings	Y N
	1907-L04	04/15/19	Exterior - Beige - Door, walls, Beams, eaves, overhang - Concrete Support Door Poles	Y N
				Y N
				Y N
				Y N
				Y N
				Y N

SPECIAL INSTRUCTIONS:Sample Collector: (Print) Vel Roberts (Signature) Vel RobertsRelinquished by D. Woo Date/Time 4-15-19 Received by: _____ Date/Time: _____Relinquished by: D. Woo Date/Time: 4/17/19 Received by: [Signature] Date/Time: 4/17/19 9:50Relinquished by: [Signature] Date/Time: 4/17/19 Received by: [Signature] Date/Time: 4/17/19 10:10

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

April 18, 2019

Vel Roberts

EnviroServices & Training Center, LLC

505 Ward Avenue, Suite 202

Honolulu, HI 96814



RE: Metals Analysis; NVL Batch # 1907712.00

Dear Ms. Roberts,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846 -3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm), Percent (%) or mg/cm² by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft². TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m³. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested and are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

A handwritten signature in black ink, appearing to read 'Yasuyuki Hida'.

Yasuyuki Hida, Laboratory Analyst

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Metals



Client: EnviroServices & Training Center, LLC
Address: 505 Ward Avenue, Suite 202
Honolulu, HI 96814

Batch #: 1907712.00

Matrix: Bulk

Method: EPA 3051/6010C

Client Project #: 19-4007 Kaipapau TMK 5-4-18

Date Received: 4/17/2019

Samples Received: 1

Samples Analyzed: 1

Attention: Ms. Vel Roberts

Project Location: 54-260 Kamehameha Hwy

Lab ID	Client Sample #	Elements	Sample wt (g)	RL mg / kg	Results in mg / kg	Results in ppm
19039792	1907-003A-Ars01	Arsenic (As)	0.1997	20.0	< 20.0	< 20.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Yasuyuki Hida

Date Analyzed: 04/18/2019
Date Issued: 04/18/2019

Yasuyuki Hida, Laboratory Analyst

mg/ kg = Milligrams per kilogram

ppm = Parts per million

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

METAL LABORATORY SERVICES



Company EnviroServices & Training Center, LLC
Address 505 Ward Avenue, Suite 202
 Honolulu, HI 96814
Project Manager Ms. Vel Roberts
Phone (808) 839-7222
Cell (808) 384-9590
NVL Batch Number 1907712.00
TAT 5 Days **AH** No
Rush TAT
Due Date 4/24/2019 **Time** 9:35 AM
Email vel@gotoetc.com
Fax (808) 839-4455

Project Name/Number: 19-4007 Kaipapau
 TMK 5-4-18 **Project Location:** 54-260 Kamehameha Hwy

Subcategory Inductively Coupled Plasma (ICP) - Group Tests

Item Code ICP-M2 EPA 6010 (price per analyte) <paint>

Metals Arsenic (As)

Total Number of Samples 1

Rush Samples

	Lab ID	Sample ID	Description	A/R
1	19039792	1907-003A-Ars01		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Emily Schubert		NVL	4/17/19	935
Analyzed by	Shalini Patel		NVL	4/18/19	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions:

Date: 4/17/2019
 Time: 12:43 PM
 Entered By: Kelly AuVu

1907712



METALS CHAIN OF CUSTODY

Turn Around Time

☐ 2 Hour☐ 4 Hours☐ 24 Hours☐ 2 Days☐ 3 Days☐ 4 Days☒ 5 Days☐ 6-10 Days

Please call for TAT less than 24 Hours

Laboratory | Management | Training

Company EnviroServices & Training Center, LLCProject Manager Vel RobertsAddress 505 Ward Avenue, Suite 202Cell (808) 398 - 2174Honolulu, Hawaii 96814

Email _____

Phone (808) 839-7222

Fax () _____

Project Name/Number 19-4007 Kaipapau TMK 5-4-18Project Location 54-260 Kamehameha Hwy☒ Total Metals☐ FAA (ppm)☐ Air Filter☐ Paint Chips (%)☐ Soil

RCRA 8

RCRA 11

☐ TCLP☒ ICP (PPM)☐ Paint Chips (cm)☐ Dust Wipes☐ Barium☐ Chromium☐ Silver☐ Copper☐ GFAA (ppb)☐ Drinking Water☐ Waste Water☒ Arsenic☐ Mercury☐ Lead☐ Zinc☐ CVAA (ppb)☒ Other _____☐ Selenium☐ Cadmium☐ Other _____

Reporting Instructions _____

☐ Call () _____☐ Fax () _____☒ Email vel@gotoetc.comTotal Number of Samples 1

	Sample ID	Description	A/R
1	1907-003A-Ars01	Fiber board ceiling panel	
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Daniel Woo	<i>Daniel Woo</i>	ETC	4/15/19	
Relinquish by	Velverdee Roberts	<i>Velverdee Roberts</i>	ETC	4/15/19	

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	<i>Emilio</i>	<i>[Signature]</i>	NVL	4/17/19	9:35 Reddy
Analyzed by					
Called by					
Faxed/Email by					

Appendix **III**

PHOTO DOCUMENTATION



1907-003B-A04: Black Mastic on Pipe Penetration
Building B Studio Roof



1907-003B-A19: White Caulking on Pipe Penetration with Black
Mastic
Building B Studio Roof



1907-003B-A31: Rolled on Roofing
Building B Studio Roof