LIMITED HAZARDOUS MATERIALS SURVEY REPORT

DEPARTMENT OF LAND & NATURAL RESOURCES (DLNR)
MAUI OFFICE ANNEX BUILDING
MAUI, HAWAII

Prepared for:
THE LIMTIACO CONSULTING GROUP
Dole Office Building
680 Iwilei Road, Suite 430
Honolulu, Hawaii 96817

Prepared by:
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Honolulu, Hawaii 96814
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ETC Project No. 15-4003

March 16, 2015

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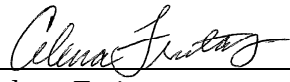
1.0 CERTIFICATIONS AND LIMITATIONS

EnviroServices & Training Center, LLC (ETC) has completed this Limited Hazardous Materials Survey Report for the demolition project at the Department of Land and Natural Resources Maui Office Annex Building located in Maui, Hawaii (Subject Site). ETC's findings and recommendations contained herein are based on research, 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 The Limtiaco Consulting Group exclusively for the Subject Site. The Limtiaco Consulting Group 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.

Prepared By: 

Celena Freitas
State of Hawaii Asbestos Building Inspector Certification # HIASB-3180
State of Hawaii Lead Risk Assessor Certification # PB-0432

Date: March 16, 2015

2.0 EXECUTIVE SUMMARY

EnviroServices & Training Center, LLC (ETC) has completed this Limited Hazardous Materials Survey Report for the demolition project at the Department of Land and Natural Resources Maui Office Annex Building located in Maui, Hawaii (Subject Site). The following summarizes the hazardous materials identified at the Subject Site:

Summary of Asbestos Containing Materials Survey

Laboratory analysis determined that two (2) of the sampled materials contained asbestos above the regulatory limit of 1%. The asbestos containing materials are summarized below.

Homogenous Area	Material	Condition	Category	Friability	Estimated Quantity
Interior	9”x9” Brown Vinyl Floor Tile	Good	Misc.	Non Friable I	3,000 ft^2

Summary of Lead Paint Survey

None of the surfaces sampled during ETC’s survey were found to contain lead in excess of the Environmental Protection Agency (EPA)/United States Department of Housing and Urban Development (HUD) guideline of 5,000 milligrams per kilogram (mg/kg) defining Lead-Based Paint (LBP).

Summary of Arsenic Survey

ETC did not identify suspected arsenic treated materials during its investigation.

Summary of Miscellaneous Hazardous Materials Survey

Polychlorinated Biphenyl (PCB) Ballasts and Mercury-Containing Lamps

None of the seven (7) fluorescent light ballasts inspected were PCB-containing. Of the eighty-seven (87) fluorescent lamps tabulated at the Subject Site, fifty-four (54) are considered universal waste and thirty-three (33) are considered low mercury-containing fluorescent lamps.

3.0 INTRODUCTION/PURPOSE

The purpose of this survey was to investigate the Department of Land and Natural Resources Maui Office Annex Building located in Maui, Hawaii (Subject Site) for the presence of hazardous materials that may be affected by the demolition project. Specifically, ETC completed the following tasks:

- Performed site reconnaissance at the Subject Site;
- Collected forty-two (42) samples of suspected Asbestos Containing Material (ACM) from the Subject Site;
- Submitted the forty-two (42) samples of suspected ACM to NVL Laboratories, Inc. for analysis of asbestos via Polarized Light Microscopy (PLM) in accordance with the Asbestos Hazard Emergency Response Act (AHERA) protocol and the National Institute for Occupational Safety and Health (NIOSH) Method 600/R-93/116;
- Collected eleven (11) paint chip samples from the Subject Site;
- Submitted the eleven (11) paint chip samples to NVL Laboratories, Inc. for analysis via Environmental Protection Agency (EPA) Method 7420 for total lead content;
- Visually inspected 20% of interior fluorescent light fixtures for required documentation indicating the presence or lack of PCB-containing ballasts oil;
- Visually inventoried universal waste and low mercury-containing lamps; and
- Prepared this report documenting the field activities and the results of the investigation including analytical results, conclusions, and recommendations.

4.0 METHODOLOGY

4.1 Asbestos

ETC personnel collected a total of forty-two (42) samples of suspected materials for asbestos analysis. All of the suspected ACM 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.

All of the asbestos samples were properly logged and recorded following strict chain of custody procedure and submitted to NVL Laboratories, Inc. (NVL) in Seattle, Washington for analysis by polarized light microscopy in accordance with EPA Method 600/R-93/116. NVL Labs, Inc. is accredited for bulk asbestos analysis through successful participation in the National Voluntary Lab Accreditation Program (NVLAP).

4.2 Lead Paint

ETC personnel collected and had analyzed eleven (11) paint chip samples from the Subject Site in accordance with 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. All samples were properly logged and recorded following strict chain of custody procedure and submitted to NVL for analysis in accordance with EPA Method 7420.

4.3 Arsenic

ETC personnel conducted a visual investigation to identify suspected arsenic treated materials at the Subject Site.

4.4 Miscellaneous Hazardous Materials

Polychlorinated Biphenyl (PCB) Ballasts and Mercury-Containing Lamps

ETC inspected 20% of interior fluorescent light fixtures for required documentation indicating the presence or lack of PCB-containing ballasts oil and mercury-containing lamps. Fluorescent light ballasts were inspected for the presence of labeling stating "No PCBs". If labeling was not observed on the light ballast and/or if the ballast was not accessible, the ballast was assumed to be PCB-containing.

Fluorescent light bulbs were inspected for the presence of green end caps or labeling indicating low-mercury levels, or silver end caps, indicating high levels of mercury. Silver end capped lamps were considered to be hazardous/universal waste.

5.0 RESULTS

5.1 Asbestos Inspection

Laboratory analysis determined that one (1) of the materials sampled contained levels of asbestos above the regulatory limit of 1%. The results of this analysis are contained in Table 1, found in Appendix I.

In addition, two (2) samples contained 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.

5.2 Lead Paint Inspection

The sampled surfaces did not contain lead in excess of the EPA/ HUD guideline of 5,000 milligrams per kilogram (mg/kg) defining Lead-Based Paint (LBP). Four (4) sampled surfaces contained detectable levels of lead less than the EPA/HUD guideline classifying them as Lead-Containing Paint (LCP). The remaining surfaces did not contain lead above the laboratory detection limit and are not considered to be lead-containing.

The lead paint survey results are recorded in Table 2, found in Appendix I.

5.3 Arsenic Inspection

ETC personnel did not observe suspected arsenic treated materials during the investigation.

5.4 Miscellaneous Hazardous Materials

Polychlorinated Biphenyl (PCB) Ballasts and Mercury-Containing Lamps

None of the seven (7) fluorescent light ballasts inspected were PCB-containing. Of the eighty-seven (87) fluorescent lamps tabulated at the Subject Site, fifty-four (54) are considered universal waste and thirty-three (33) are considered low mercury-containing fluorescent lamps.

The results of this survey are provided in Table 3, found in Appendix I.

6.0 DISCUSSION

The findings of this investigation extend to the areas that were accessible at the time of survey. On February 24, 2015 two areas; the historical preservation office adjacent to bathroom A and the "bone room" were not accessible.

When possible, sample locations were randomly selected in accordance with EPA guidelines however actual sample locations were dependent upon tenant occupancy.

7.0 RECOMMENDATIONS

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

- Manage and/or remove and dispose of hazardous and regulated materials in accordance with applicable local, state, and federal regulations, prior to renovation and/or demolition activities that may disturb these materials.
- Handle materials containing glass fibers with appropriate protective equipment to prevent inhalation or ingestion of fibers and contact with skin and mucous membranes.
- All friable ACM must be removed and disposed of by a qualified asbestos abatement contractor. Friable ACM is defined as those materials that may be crumbled, pulverized, or otherwise damaged by hand pressure.
- Any non-friable ACM which could be crumbled and pulverized during renovation/demolition activities must be removed and disposed of by a qualified asbestos abatement contractor.
- Remove and dispose of all loose and flaking (poor condition) lead-containing paint prior to renovation/demolition activities in accordance with applicable local, state, and federal regulations. Note that conditions of paint may have changed since the time of this survey.
- In addition, the services of a qualified consultant should be obtained to monitor and inspect the removal activities to ensure compliance with applicable Environmental Protection Agency (EPA), Occupational Safety and Health Administration (OSHA), and Hawaii Occupational Safety and Health (HIOSH) regulations pertaining to the handling of asbestos containing and lead containing paint material.
- Prior to demolition or renovation, conduct asbestos PLM analysis on materials that are suspected to be ACM and lead FAA on paint suspected to contain lead but were not tested.
- Any abatement and demolition contractor(s) must take appropriate measures to comply with applicable EPA, OSHA and HIOSH regulations pertaining to the handling of asbestos and lead containing materials and worker protection. Note that OSHA and HIOSH regulate activities that disturb paint containing any detectable concentration of lead.
- Have air monitoring conducted for airborne asbestos fibers by a State of Hawaii certified Project Monitor and airborne lead by qualified personnel during any asbestos and/or lead abatement and general renovation/demolition activities of areas that were determined to contain these contaminants.

Appendix **I**

TABLES OF RESULTS

Table 1
Asbestos Survey Results
DLNR Maui Annex

Sample ID	*Homogenous Area*	*Material*	*Condition*	*Category*	*Friability*	*Layer Description*	*Asbestos Type*	*Estimated Quantity*
15.4003-AB-01	Interior	12"x12" Gray Speckled Vinyl Floor Tile (VFT) w/Mastic	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-02							None Detected	
15.4003-AB-03							None Detected	
15.4003-AB-04	Interior	4" Gray Cove Base w/ Mastis	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-05							None Detected	
15.4003-AB-06							None Detected	
15.4003-AB-07	**Interior**	**9"x9" Brown VFT w/ Mastic**	**Good**	**Misc.**	**Non-Friable I**	**Brown vinyl tile**	**Chrysotile 5%**	**3,000 ft^2**
						Black asphaltic mastic	None Detected	
15.4003-AB-08						**Brown vinyl tile**	**Chrysotile 4%**	
						Black asphaltic mastic	None Detected	
15.4003-AB-09						**Brown vinyl tile**	**Chrysotile 5%**	
						Black asphaltic mastic	None Detected	
15.4003-AB-10	Interior	Red Brick Wall	Damaged	N/A	N/A	All	None Detected	N/A
15.4003-AB-11							None Detected	
15.4003-AB-12							None Detected	
15.4003-AB-13	Interior	Door Caulking	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-14							None Detected	
15.4003-AB-15							None Detected	
15.4003-AB-16	Bathrooms B & C	4"x4" Pink Ceramic Wall and Floor Tile	Good	N/A	N/A	All	None Detected	3,385 ft^2
15.4003-AB-17							None Detected	
15.4003-AB-18							None Detected	
15.4003-AB-19	Bathroom A	4"x4" Green Ceramic Wall and Floor Tile	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-20							None Detected	
15.4003-AB-21							None Detected	
15.4003-AB-22	Bathroom A	4"x4" White Cermaic Wall Tile	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-23							None Detected	
15.4003-AB-24							None Detected	

Table 1
Asbestos Survey Results
DLNR Maui Annex

Sample ID	*Homogenous Area*	*Material*	*Condition*	*Category*	*Friability*	*Layer Description*	*Asbestos Type*	*Estimated Quantity*
15.4003-AB-25	Interior	Textured Drywall Wall	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-26							None Detected	
15.4003-AB-27							None Detected	
15.4003-AB-28	Interior Bathrooms	Toilet/Sink Caulking	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-29							None Detected	
15.4003-AB-30							None Detected	
15.4003-AB-31	Roof	Roll-on Roofing w/Tar	Good	N/A	N/A	All	None Detected	N/A
15.4003-AB-32							None Detected*	
15.4003-AB-33							None Detected	
15.4003-AB-34	Roof	Soffit Vent Sealant	Damaged	N/A	N/A	All	None Detected*	N/A
15.4003-AB-35							None Detected	
15.4003-AB-36							None Detected	
15.4003-AB-37	Roof	Gray Vent Caulking	Significantly Damaged	N/A	N/A	All	None Detected	N/A
15.4003-AB-38							None Detected	
15.4003-AB-39							None Detected	
15.4003-AB-40	Roof	White Vent Caulking	Significantly Damaged	N/A	N/A	All	None Detected	N/A
15.4003-AB-41							None Detected	
15.4003-AB-42							None Detected	

Table 2
Lead Paint Sample Results
DLNR Maui Annex

Sample ID	*Interior/ Exterior*	*Color*	*Substrate/Structure*	*Condition*	*Reporting Limit (mg/kg)*	*Lead Concentration (mg/kg)*
15.4003-Pb-01	Interior	Brown	Wood Ceiling	Intact	49.0	<49.0
			Steel Beam	Intact		
15.4003-Pb-02	Interior	Tan	Wood Door, Door Frame, Window Frame, Ceiling	Fair	53.0	<53.0
			Brick Wall	Poor		
15.4003-Pb-03	Interior	Blue	Wood Door, Door Frame	Intact	52.0	<52.0
15.4003-Pb-04	Interior	White	Brick Wall	Intact	51.0	<51.0
			Concrete Wall	Intact		
			Wood Wall, Ceiling	Intact		
			Drywall Wall	Intact		
15.4003-Pb-05	Interior - Storage Room	Aqua	Brick Wall	Intact	51.0	<51.0
			Wood Door Frame	Intact		
15.4003-Pb-06	Interior - Aquatic Office	Teal	Brick Wall	Intact	50.0	<50.0
			Wood Door Frame	Intact		
15.4003-Pb-07	Exterior	Cream	Brick Wall	Intact	53.0	4900.0
			Steel Beam	Intact		
			Wood Window Frame	Intact		
15.4003-Pb-08	Exterior	Light Brown	Brick Wall	Fair	51.0	85.0
15.4003-Pb-09	Exterior	Blue	Wood Door, Door Frame	Intact	52.0	<52.0
15.4003-Pb-10	Exterior	Light Brown over Green	Wood Window Frame	Poor	50.0	1200.0
15.4003-Pb-11	Exterior	Pink	Brick Wall	Poor	54.0	480.0

Table 3
PCB Ballasts and Mercury Lamps Inventory
DLNR Maui Annex

Floor	*Total No. of Fixtures Counted*	*No. of Ballasts Inspected*	*Ballasts*		*Fixtures Not Inspected*	*Total No. of Lamps*	*No. of Lamps Inspected*	*Lamps*		*Lamps Not Inspected*
			PCB Containin	*Non-PCB Containing*				*Universal Waste*	*Low Mercury Containing*	
1	31	7	0	7	24	Unk	87	54	33	Unk
Total	**31**	**7**	**0**	**7**	**24**	**Unk**	**87**	**54**	**33**	**Unk**

Appendix II

LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

March 4, 2015

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

Celena Freitas
EnviroServices & Training CTR, LLC
505 Ward Avenue, Suite 202
Honolulu, HI 96814

RE: Bulk Asbestos Fiber Analysis, NVL Batch # 1503638.00

Dear Ms. Freitas,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with both U.S. EPA 600/M4-82-020, Interim Method for Determination of Asbestos in Bulk Insulation Samples, as found in 40 CFR, Part 763, Subpart E, Appendix E (formerly Subpart F, Appendix A), and U.S. EPA 600/R-93/116 (July 1993) Test Methods.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

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. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

Enc.: Sample Results

NVLAP
Lab Code: 102063-0

1.888.NVL.LABS
1.888.(685.5227)
www.nvllabs.com

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

ASBESTOS CHAIN OF CUSTODY

1503638

Turn Around Tir.

☐ 1 Hour	☐ 24 Hours	☑ 4 Days
☐ 2 Hours	☐ 2 Days	☐ 5 Days
☐ 4 Hours	☐ 3 Days	☐ 10 Days

Please call for TAT less than 24 Hours

Company EnviroServices & Training Cente
Address 505 Ward Avenue, Suite 202
Honolulu, Hawaii 96814
Phone 808-839-7222

Project Manager Celena Freitas
Cell ( )
Email cfreitas@gotoetc.com
Fax (808) 839- 4455

Project Name/Number 15-4003 | Project Location DLNR Maui Annex Building

- ☐ PCM Air (NIOSH 7400)
- ☐ TEM (NIOSH 7402)
- ☐ TEM (AHERA)
- ☐ TEM (EPA Level II Modified)
- ☐ PLM (EPA 600/R-93-116)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ Asbestos in Sediment (EPA 1900 Points)
- ☑ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ Other

Reporting Instructions Please Stop at 1st Positive
☐ Call ( ) ☐ Fax ( ) ☐ Email

Total Number of Samples 42

	Sample ID	Description	A/R
1	15.4003-AB-01	Please See Attached Sheets	
2			
3			
4			
5	15.4003-AB-42		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Celena Freitas	Celena Freitas	ETC	2/24/15	
Relinquish by	Celena Freitas	Celena Freitas	ETC	2/25/14	

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	J. Shaver	John Shaver	NVL	2/27/15	1030 FedEx
Analyzed by					
Called by					
Faxed/Email by					

Asbestos Sampling Sheet

1503638

Project No. 15-4003 Inspectors' Name: C. Freitas Page: 1 of 2

Project Name: DLNR Maui Annex Survey Bldg. Name / No: _____ Date: 2/24/15

Sample Number	Sample Location	Homogeneous Areas	Material Description (Color, Texture, Size, Shape, etc.)	Condition	Category	Friability	Est. Quantity (ft^2, l.f.)
15.4003-AB-01			12" x 12" Gray Speckled VFT (over 9"x9" Brown VFT) w/mastic	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
02							
03							
04			4" Gray Cove Base w/mastic	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
05							
06							
07			9"x9" Brown VFT (exposed or under carpet) w/mastic	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
08							
09							
10			Red Brick Wall	☐ Good ☒ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
11							
12							
13			Door Caulking	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
14							
15							
16			4"x4" Pink Ceramic Wall & Floor Tile	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
17							
18							
19			4"x4" Green Ceramic Wall & Floor Tile	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
20							
21							

Asbestos Sampling Sheet

Project No. 15-4003 Inspectors' Name: C. Freitas **1503638** Page: 2 of 2

Project Name: DLNR Maui Annex Survey Bldg. Name / No: Date: 2/24/15

Sample Number	Sample Location	Homogeneous Areas	Material Description (Color, Texture, Size, Shape, etc.)	Condition	Category	Friability	Est. Quantity (ft^2, l.f.)
15.4003-AB-22			4"x4" White Ceramic Wall Tile	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
23							
24							
25			Textured Drywall Wall	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
26							
27							
28			Toilet/Sink caulking	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
29							
30							
31			Rdl on Roofing w/~~mastic~~ tar	☒ Good ☐ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
32							
33							
34			Soffit vent sealant	☐ Good ☒ Damaged ☐ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	7 vents
35							
36							
37			Gray Vent Caulking	☐ Good ☐ Damaged ☒ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
38							
39							
40			White Vent Caulking	☐ Good ☐ Damaged ☒ Sig. Damaged	☐ Surfacing ☐ TSI ☒ Misc.	☐ Friable ☐ NF I ☐ NF II	
41							
42							

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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

Attention: Ms. Celena Freitas
Project Location: DLNR Maui Annex Building

Batch #: 1503638.00
Client Project #: 15-4003
Date Received: 2/27/2015
Samples Received: 42
Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020630 **Client Sample #: 15.4003-AB-01**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Gray vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Granules	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	2%	**None Detected ND**

Lab ID: 15020631 **Client Sample #: 15.4003-AB-02**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Gray vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Granules	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	2%	**None Detected ND**

Lab ID: 15020632 **Client Sample #: 15.4003-AB-03**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Gray vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Granules	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	3%	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015
Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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

Attention: Ms. Celena Freitas
Project Location: DLNR Maui Annex Building

Batch #: 1503638.00
Client Project #: 15-4003
Date Received: 2/27/2015
Samples Received: 42
Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020633 **Client Sample #: 15.4003-AB-04**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder, Fine grains	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 15020634 **Client Sample #: 15.4003-AB-05**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder, Fine grains	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 15020635 **Client Sample #: 15.4003-AB-06**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder, Fine grains	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	Cellulose	2%	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015
Nick Ly, Technical Director

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By Polarized Light Microscopy

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Attention: Ms. Celena Freitas
Project Location: DLNR Maui Annex Building

Batch #: 1503638.00
Client Project #: 15-4003
Date Received: 2/27/2015
Samples Received: 42
Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020636 **Client Sample #: 15.4003-AB-07**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Brown vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Granules	None Detected	ND	**Chrysotile 5%**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	2%	**None Detected ND**

Lab ID: 15020637 **Client Sample #: 15.4003-AB-08**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Brown vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Granules	None Detected	ND	**Chrysotile 4%**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	Cellulose	2%	**None Detected ND**

Lab ID: 15020638 **Client Sample #: 15.4003-AB-09**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Brown vinyl tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Granules	None Detected	ND	**Chrysotile 5%**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020639 **Client Sample #: 15.4003-AB-10**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** White soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Red brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Granules, Miscellaneous particles	None Detected	ND	**None Detected ND**

Lab ID: 15020640 **Client Sample #: 15.4003-AB-11**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** White soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Red brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Granules, Miscellaneous particles	None Detected	ND	**None Detected ND**

Lab ID: 15020641 **Client Sample #: 15.4003-AB-12**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** White soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Red brittle material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Granules, Miscellaneous particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020642 **Client Sample #: 15.4003-AB-13**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** White soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound	Cellulose	3%	**None Detected ND**
	Hair	2%	

Lab ID: 15020643 **Client Sample #: 15.4003-AB-14**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** White soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound	Cellulose	2%	**None Detected ND**

Lab ID: 15020644 **Client Sample #: 15.4003-AB-15**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** White soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound	Cellulose	2%	**None Detected ND**

Lab ID: 15020645 **Client Sample #: 15.4003-AB-16**
Location: DLNR Maui Annex Building

Layer 1 of 2 **Description:** Pink ceramic tile

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Ceramic/Binder	None Detected	ND	**None Detected ND**

Layer 2 of 2 **Description:** White soft material with paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Paint	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020646 **Client Sample #: 15.4003-AB-17**
Location: DLNR Maui Annex Building

Layer 1 of 1	**Description:** Pink ceramic tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Ceramic/Binder	None Detected	ND	**None Detected ND**

Lab ID: 15020647 **Client Sample #: 15.4003-AB-18**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Pink ceramic tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Ceramic/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** White brittle grout type material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 15020648 **Client Sample #: 15.4003-AB-19**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Green ceramic tile			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Ceramic/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** White brittle grout type material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler	None Detected	ND	**None Detected ND**

Lab ID: 15020649 **Client Sample #: 15.4003-AB-20**
Location: DLNR Maui Annex Building

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 1	**Description:** Green ceramic tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Ceramic/Binder	None Detected ND	**None Detected ND**

Lab ID: 15020650 **Client Sample #: 15.4003-AB-21**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Green ceramic tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Ceramic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Gray sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Granules	Cellulose 2%	**None Detected ND**

Lab ID: 15020651 **Client Sample #: 15.4003-AB-22**
Location: DLNR Maui Annex Building

Layer 1 of 1	**Description:** White ceramic tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Ceramic/Binder	None Detected ND	**None Detected ND**

Lab ID: 15020652 **Client Sample #: 15.4003-AB-23**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** White ceramic tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Ceramic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** White brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Miscellaneous particles	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020653 **Client Sample #: 15.4003-AB-24**
Location: DLNR Maui Annex Building

Layer 1 of 3	**Description:** White ceramic tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Ceramic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** White brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Miscellaneous particles	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** White soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler	Cellulose 2%	**None Detected ND**

Lab ID: 15020654 **Client Sample #: 15.4003-AB-25**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** White compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler, Paint	Cellulose 2%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Gypsum/Binder	Cellulose 17%	**None Detected ND**

Lab ID: 15020655 **Client Sample #: 15.4003-AB-26**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** White compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler, Paint	Cellulose 2%	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Samples Received: 42
Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
Gypsum/Binder	Cellulose 19%	**None Detected ND**

Lab ID: 15020656 **Client Sample #: 15.4003-AB-27**
Location: DLNR Maui Annex Building

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
Calcareous particles, Binder/Filler, Paint	Cellulose 3%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
Gypsum/Binder	Cellulose 20%	**None Detected ND**

Lab ID: 15020657 **Client Sample #: 15.4003-AB-28**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** White soft material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
Caulking compound, Paint, Miscellaneous particles	None Detected ND	**None Detected ND**

Lab ID: 15020658 **Client Sample #: 15.4003-AB-29**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** White brittle material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
Binder/Filler, Paint	Cellulose 5%	**None Detected ND**

Lab ID: 15020659 **Client Sample #: 15.4003-AB-30**
Location: DLNR Maui Annex Building

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Layer 1 of 1	**Description:** White soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Caulking compound	Cellulose 3%	**None Detected ND**

Lab ID: 15020660 **Client Sample #: 15.4003-AB-31**
Location: DLNR Maui Annex Building

Layer 1 of 2	**Description:** Black asphaltic material with fibrous elements		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mineral grains	Synthetic fibers 25%	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder	None Detected ND	**None Detected ND**

Lab ID: 15020661 **Client Sample #: 15.4003-AB-32**
Location: DLNR Maui Annex Building

Layer 1 of 3	**Description:** Black asphaltic material with fibrous elements		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mineral grains	Synthetic fibers 26%	**None Detected ND**
Layer 2 of 3	**Description:** Black asphaltic fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder	Glass fibers 53%	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder	None Detected ND	**None Detected ND**

Lab ID: 15020662 **Client Sample #: 15.4003-AB-33**
Location: DLNR Maui Annex Building

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

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Samples Received: 42
Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 2	**Description:** Black asphaltic material with fibrous elements			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder	Synthetic fibers	24%	**None Detected ND**
Layer 2 of 2	**Description:** Black asphaltic material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder	None Detected	ND	**None Detected ND**

Lab ID: 15020663 **Client Sample #: 15.4003-AB-34**
Location: DLNR Maui Annex Building

Layer 1 of 1	**Description:** Black asphaltic material with fibrous elements			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder	Cellulose	10%	**None Detected ND**
		Glass fibers	3%	

Lab ID: 15020664 **Client Sample #: 15.4003-AB-35**
Location: DLNR Maui Annex Building

Layer 1 of 1	**Description:** Black/gray asphaltic material with fibrous elements			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Plastic	Cellulose	26%	**None Detected ND**

Lab ID: 15020665 **Client Sample #: 15.4003-AB-36**
Location: DLNR Maui Annex Building

Layer 1 of 1	**Description:** Black/gray asphaltic material with fibrous elements			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Plastic	Cellulose	30%	**None Detected ND**

Lab ID: 15020666 **Client Sample #: 15.4003-AB-37**
Location: DLNR Maui Annex Building

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015 Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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

Attention: Ms. Celena Freitas
Project Location: DLNR Maui Annex Building

Batch #: 1503638.00
Client Project #: 15-4003
Date Received: 2/27/2015
Samples Received: 42
Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Layer 1 of 1 **Description:** Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound	Cellulose	2%	**None Detected ND**

Lab ID: 15020667 **Client Sample #: 15.4003-AB-38**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound	Cellulose	2%	**None Detected ND**

Lab ID: 15020668 **Client Sample #: 15.4003-AB-39**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** Gray soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound	Cellulose	3%	**None Detected ND**

Lab ID: 15020669 **Client Sample #: 15.4003-AB-40**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** Off-white soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound, Miscellaneous particles	Cellulose	2%	**None Detected ND**

Lab ID: 15020670 **Client Sample #: 15.4003-AB-41**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** Off-white soft material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Caulking compound, Miscellaneous particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015
Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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

Attention: Ms. Celena Freitas
Project Location: DLNR Maui Annex Building

Batch #: 1503638.00
Client Project #: 15-4003
Date Received: 2/27/2015
Samples Received: 42
Samples Analyzed: 42
Method: EPA/600/R-93/116 & EPA/600/M4-82-020

Lab ID: 15020671 **Client Sample #: 15.4003-AB-42**
Location: DLNR Maui Annex Building

Layer 1 of 1 **Description:** Off-white soft material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Caulking compound, Miscellaneous particles	Cellulose 2%	**None Detected ND**

Sampled by: Client
Analyzed by: Jason J. Stuhr **Date:** 03/04/2015
Reviewed by: Nick Ly **Date:** 03/04/2015

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

March 2, 2015

Celena Freitas
EnviroServices & Training CTR, LLC
505 Ward Avenue, Suite 202
Honolulu, HI 96814

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Metals Analysis; NVL Batch # 1503630.00

Dear Ms. Freitas,

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/cm^2 by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft^2. 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/m^3. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested. Lead test results 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.

Sincerely,

Nick Ly, Technical Director

ilac-MRA

AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
LAB # 101861

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Lead (Pb)

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

Batch #: 1503630.00
Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 15-4003
Date Received: 2/27/2015
Samples Received: 11
Samples Analyzed: 11

Attention: Ms. Celena Freitas
Project Location: DLNR Maui Annex Building

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
15020557	15.4003-Pb-01	0.2076	49.0	< 49.0	< 0.0049
15020558	15.4003-Pb-02	0.1918	53.0	< 53.0	< 0.0053
15020559	15.4003-Pb-03	0.1937	52.0	< 52.0	< 0.0052
15020560	15.4003-Pb-04	0.2009	51.0	< 51.0	< 0.0051
15020561	15.4003-Pb-05	0.1993	51.0	< 51.0	< 0.0051
15020562	15.4003-Pb-06	0.2037	50.0	< 50.0	< 0.0050
15020563	15.4003-EXT-Pb-07	0.1934	53.0	4900.0	0.4900
15020564	15.4003-EXT-Pb-08	0.1992	51.0	85.0	0.0085
15020565	15.4003-EXT-Pb-09	0.1945	52.0	< 52.0	< 0.0052
15020566	15.4003-EXT-Pb-10	0.2012	50.0	1200.0	0.1200
15020567	15.4003-EXT-Pb-11	0.1890	54.0	480.0	0.0480

Sampled by: Client
Analyzed by: Yasuyuki Hida
Reviewed by: Nick Ly
Date Analyzed: 03/02/2015
Date Issued: 03/02/2015

Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
RL = Reporting Limit
'<' = Below the reporting Limit
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 35-0302-8

1503630

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

METALS CHAIN OF CUSTODY

Turn Around
- ❑ 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

Company: EnviroServices & Training Cente
Project Manager: Celena Freitas
Address: 505 Ward Avenue, Suite 202
Honolulu, Hawaii 96814
Cell: ( ) -
Email: cfreitas@gotoetc.com
Phone: 808-839-7222
Fax: (808) 839 - 4455

Project Name/Number: 15-4003
Project Location: DLNR Maui Annex Building

- ☑ Total Metals
- ❑ TCLP
- ❑ FAA (ppm
- ❑ ICP (PPM
- ❑ GFAA (ppb)
- ❑ CVAA (ppb)
- ❑ Air Filter
- ❑ Paint Chips (cm)
- ❑ Drinking Water
- ❑ Other
- ☑ Paint Chips (%)
- ❑ Dust Wipes
- ❑ Waste Water
- ❑ Soil

RCRA 8
- ❑ Barium
- ❑ Chromium
- ❑ Silver
- ❑ Arsenic
- ❑ Mercury
- ☑ Lead
- ❑ Selenium
- ❑ Cadmium

RCRA 11
- ❑ Copper
- ❑ Zinc
- ❑ Other

Reporting Instructions
❑ Call ( ) - ❑ Fax ( ) - ❑ Email

Total Number of Samples 11

	Sample ID	Description	A/R
1	15.4003-Pb-01	Brown on wood ceiling / Steel Beam	
2	15.4003-Pb-02	Tan on wood door / door frame / window frame / ceiling / brick wall	
3			
4	15.4003-Pb-03	Blue on wood door / door frame	
5	15.4003-Pb-04	White on Brick / Concrete wall & Wood wall / Ceiling / Drywall	
6	15.4003-Pb-05	Aqua on Brick wall & Wood door frame	
7	15.4003-Pb-06	Teal on Brick wall & Wood door frame	
8			
9	15.4003-EXT-Pb-07	Cream on Brick wall / Steel Beam / Wood Window Frame	
10	15.4003-EXT-Pb-08	Light Brown on Brick wall	
11	15.4003-EXT-Pb-09	Blue on wood door / door frame	
12	15.4003-EXT-Pb-10	Light Brown over green on wood window frame	
13	15.4003-EXT-Pb-11	Pink on Brick wall	
14			
15			

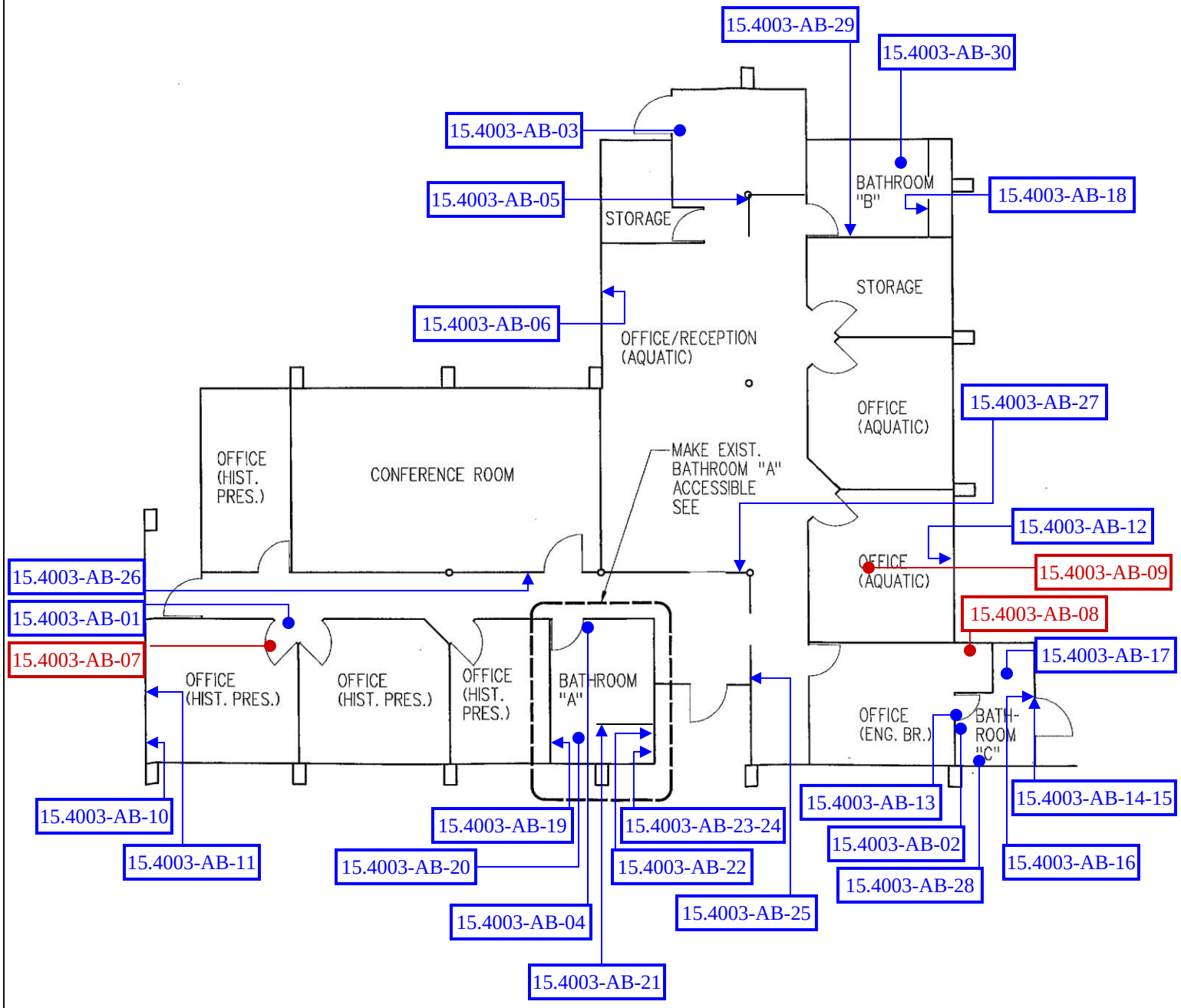
	Print Name	Signature	Company	Date	Time
Sampled by	Celena Freitas	Celena Freitas	ETC	2/24/15	
Relinquish by	Celena Freitas	Celena Freitas	ETC	2/25/15	

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	J. Shearer		NVL	2/27/15	1030 Fed Ex
Analyzed by	Yasuyuki Hida		NVL	2/2/15	12:3.
Called by					
Faxed/Email by					

Appendix III

SAMPLE LOCATION MAP



enviro SERVICES & TRAINING CENTER, LLC

LIMITED HAZARDOUS MATERIALS SURVEY ASBESTOS SAMPLE LOCATIONS

Legend

15.4003-AB-XX	Positive (Asbestos - Containing Material)
15.4003-AB-XX	Negative (None Detected)
15.4003-AB-XX	Not Analyzed
←	Wall Sample
●—	Non-Wall Sample

Department of Land & Natural Resources
Maui Office Annex Building
Maui, Hawaii

ETC Project No. 15-4003

March 2015

Appendix **IV**

PHOTOGRAPHIC DOCUMENTATION

Photograph 1: 9”x9” Brown Vinyl Floor Tile (VFT) under carpet and 12”x12” Gray Speckled VFT.