

Asbestos Containing Materials Survey Point Count Analysis Report

Tripler Army Medical Facility E-Wing Exterior Surface Repair Project

Prepared For:

**Dept. of Veterans Affairs
459 Patterson Rd., Box 138
Honolulu, HI 96819**

Prepared By:

**White Environmental Consultants Inc.
197 Sand Island Access Road Suite # 203
Honolulu, Hawaii 96819**

January 24, 2013

Table of Contents

	Section Number
1. Narrative Report	1
a) Introduction	
b) Executive Summary	
c) Project Impacts	
d) Analytical Methods	
2. Site Photographs	2
3. Laboratory Results	3

Section 1

Narrative Report

Introduction

WEC conducted a limited asbestos containing materials (ACM) survey on May 21, 2012 at the E-Wing of the Tripler Army Medical Facility. The survey was limited to sampling of accessible suspect ACM present on the exterior walls of the E-Wing building. The suspect ACM sampling was conducted in compliance with the Hawaii Department of Health sample requirements. Sampling was conducted by Shad Wells, a HDOH certified Asbestos Building Inspector (HIASB-0132).

In December 2012 the client requested point count analysis be conducted on the exterior plaster samples that were reported by the laboratory to contain detectable levels of asbestos. Fourteen of the 18 plaster samples collected were reported by the laboratory to contain detectable levels of asbestos. The purpose of the point count analysis is to verify that the concentrations of asbestos are less than 1% to maintain compliance with EPA 40 CFR Part 763 and HDOH Title 11 HAR Chapter 501-504.

Executive Summary

Suspect Asbestos Containing Material Samples - Laboratory point count analysis of the suspect asbestos containing exterior plaster material collected by WEC from accessible areas, indicated that asbestos concentrations were less than 1%. The following samples were analyzed:

Point Count Analysis Table:

Plaster Sample ID & Location	Results (PLM Point Count)
B796-01: 2 nd Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-02: 2 nd Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-03: 2 nd Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-10: 3 rd Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-11: 3 rd Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-12: 3 rd Fl. Lanai Exterior Wall South Side	None Detected
B796-16: 4 th Fl. Lanai Exterior Wall South Side	None Detected
B796-17: 4 th Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-18: 4 th Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-22: 5 th Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-23: 5 th Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-24: 5 th Fl. Lanai Exterior Wall South Side	0.25% Chrysotile Asbestos
B796-34: Ground Level Exterior Wall North Side	0.25% Chrysotile Asbestos
B796-36: Ground Level Exterior Wall Southwest Side	0.50% Chrysotile Asbestos

Note: NESHAP and HDOH regulations classify friable materials containing < 1% asbestos as regulated asbestos containing materials (RACM) unless concentrations of < 1% have been verified by PLM point count method.

Project Impacts

Exterior Plaster Material

Based on the PLM point count analytical results the plaster material is not classified as a regulated asbestos containing material (RACM) as defined by EPA and HDOH. This determination enables the disturbance of this material to be conducted without establishing a negative pressure containment for areas where the exterior plaster material will be disturbed during renovations.

Disturbance/abatement of materials containing less than 1% asbestos must be conducted in compliance with OSHA 29 CFR 1926.1101 including but not limited to the following.

- Trained Workers
- Medical Clearance
- Respirator Fit Test
- Personnel Protective Equipment
- Exposure Monitoring
- Wet Removal Methods
- Prompt Clean Up

Analytical Methods

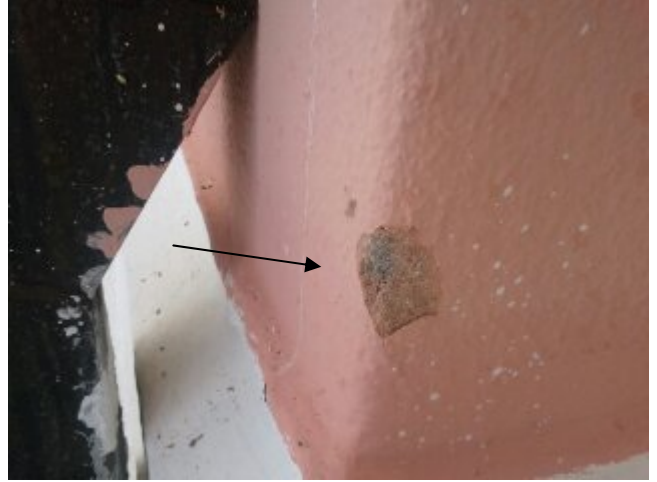
Asbestos

EPA method 600/R-93/116 400 point count method was utilized to analyze bulk asbestos samples. This method utilizes polarized light microscopy (PLM) with dispersion staining oils to identify asbestos species. EPA method 600/R-93/116 is the method of analysis recommended by the US EPA to determine the composition of suspect asbestos containing materials.

Analysis was performed by White Laboratories, LLC. a NVLAP/AIHA accredited laboratory

Section 2

Site Photographs



Exterior Wall Plaster

Section 3

Laboratory Results

Bulk Sample Analysis for Asbestos

WL Project #: WLH12-849
Client Project#: H12-796

Report #: 81168
Report By: S. Yoshitake
Report Date: 12/20/2012

Client: Dept. of Veterans Affairs
Billing Number:
459 Patterson Rd., Box 138
Honolulu, HI 96819

Collection Date: 5/21/2012
Collection By: Client
TAT: 3 Business Days
Analysis By: K. Wells
Analysis Date: 12/19/2012
Received By: Mercado
Received Date: 12/17/2012

Samples: 14 # Layers: 14

Project Name/Location: E-Wing Exterior TAMC

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-01	HB12-6136	2nd Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS		% Asbestos: <1%	Homo- genous No	Color Tan
Chrysotile <1%		% Other Fibrous Materials: <1%		
Other Fibrous Materials		% Non-Fibrous Materials: 100%		
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-02	HB12-6137	2nd Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS		% Asbestos: <1%	Homo- genous No	Color Tan
Chrysotile <1%		% Other Fibrous Materials: <1%		
Other Fibrous Materials		% Non-Fibrous Materials: 100%		
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-03	HB12-6138	2nd Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS		% Asbestos: <1%	Homo- genous No	Color Tan
Chrysotile <1%		% Other Fibrous Materials: <1%		
Other Fibrous Materials		% Non-Fibrous Materials: 100%		
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-10	HB12-6139	3rd Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS		% Asbestos: <1%	Homo- genous No	Color Tan
Chrysotile <1%		% Other Fibrous Materials: <1%		
Other Fibrous Materials		% Non-Fibrous Materials: 99%		
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Bulk Sample Analysis for Asbestos

WL Project #: WLH12-849
Client Project#: H12-796

Report #: 81168
Report By: S. Yoshitake
Report Date: 12/20/2012

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-11	HB12-6140	3rd Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS			% Asbestos: <1%	
Chrysotile <1%			% Other Fibrous Materials: <1%	Color Tan
Other Fibrous Materials			% Non-Fibrous Materials: 100%	
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-12	HB12-6141	3rd Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS			Homo- genous No	Color Tan
None Detected			% Other Fibrous Materials: <1%	
Other Fibrous Materials			% Non-Fibrous Materials: 100%	
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method.

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-16	HB12-6142	4th Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS			Homo- genous No	Color Tan
None Detected			% Other Fibrous Materials: <1%	
Other Fibrous Materials			% Non-Fibrous Materials: 100%	
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method.

Client ID#	WL ID#	Location	Material	Layer 1 of 1
B796-17	HB12-6143	4th Fl. Lanai Ext. Wall South Side	Plaster	
ASBESTOS			Homo- genous No	Color Tan
Chrysotile <1%			% Asbestos: <1%	
Other Fibrous Materials			% Other Fibrous Materials: <1%	
Cellulose <1%			% Non-Fibrous Materials: 100%	

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Bulk Sample Analysis for Asbestos

WL Project #: WLH12-849
Client Project#: H12-796

Report #: 81168
Report By: S. Yoshitake
Report Date: 12/20/2012

Client ID#	WL ID#	Location	Material	Layer
B796-18	HB12-6144	4th Fl. Lanai Ext. Wall South Side	Plaster	1 of 1
ASBESTOS			% Asbestos: <1%	
Chrysotile <1%			% Other Fibrous Materials: <1%	Color Tan
<i>Other Fibrous Materials</i>			% Non-Fibrous Materials: 99%	
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Client ID#	WL ID#	Location	Material	Layer
B796-22	HB12-6145	5th Fl. Lanai Ext. Wall South Side	Plaster	1 of 1
ASBESTOS			% Asbestos: <1%	
Chrysotile <1%			% Other Fibrous Materials: <1%	Color Tan
<i>Other Fibrous Materials</i>			% Non-Fibrous Materials: 99%	
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Client ID#	WL ID#	Location	Material	Layer
B796-23	HB12-6146	5th Fl. Lanai Ext. Wall South Side	Plaster	1 of 1
ASBESTOS			% Asbestos: <1%	
Chrysotile <1%			% Other Fibrous Materials: <1%	Color Tan
<i>Other Fibrous Materials</i>			% Non-Fibrous Materials: 100%	
Fibrous Glass <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Client ID#	WL ID#	Location	Material	Layer
B796-24	HB12-6147	5th Fl. Lanai Ext. Wall South Side	Plaster	1 of 1
ASBESTOS			% Asbestos: <1%	
Chrysotile <1%			% Other Fibrous Materials: <1%	Color Tan
<i>Other Fibrous Materials</i>			% Non-Fibrous Materials: 100%	
Fibrous Glass <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

Bulk Sample Analysis for Asbestos

WL Project #: WLH12-849
Client Project#: H12-796

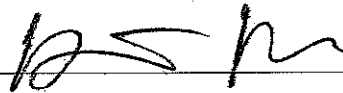
Report #: 81168
Report By: S. Yoshitake
Report Date: 12/20/2012

Client ID#	WL ID#	Location	Material	Layer of
B796-34	HB12-6148	Ground Level Ext. Wall North Side	Plaster	1 of 1
ASBESTOS		% Asbestos: <1%	Homo- genous	Color
Chrysotile <1%		% Other Fibrous Materials: <1%	No	Tan
Other Fibrous Materials		% Non-Fibrous Materials: 99%		
Cellulose <1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.25%.

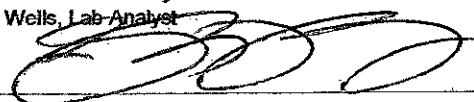
Client ID#	WL ID#	Location	Material	Layer of
B796-36	HB12-6149	Ground Level Ext. Wall Southwest Side	Plaster	1 of 1
ASBESTOS		% Asbestos: Present	Homo- genous	Color
Chrysotile Present		% Other Fibrous Materials: 1%	No	Tan
Other Fibrous Materials		% Non-Fibrous Materials: 99%		
Cellulose 1%				

Sample Comments: Analysis Performed Using Point Count Method. Actual Percentage of Asbestos Detected is 0.5%.



Kanokthip Wells, Lab Analyst

Date 12/20/2012



Joanna Dela Cruz, Technical Reviewer

Date 12/20/2012

Analysis performed by EPA Method 600/R-93/116 with dispersion staining microscopy. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of WL, LLC, and are subject to WL, LLC General Terms and Conditions (see reverse). White Laboratories, LLC is a NVLAP accredited laboratory for bulk asbestos analysis. (Lab# 200350-0)



197 Sand Island Access Rd. Unit 203 Honolulu, HI 96819 Phone: 808-843-0655 Fax: 808-843-0657

WLH Project Number: 849

Client Name / Billing Information:

Wec/ Dept. of Veterans Affairs

Client Project Name / Location:

E-Wing Exterior TAMC

ph: email:

Client Project Number: H12-796

Relinquished by: Shad Wells

Received by: [Signature]

Date Relinquished: 12/17/12 1600

Received Date: [Signature] Time: 10:55

Please write a sample description in the space provided.
(i.e. paint chips, concrete, specific location samples were collected, etc.)

Please provide verbal results to: Shad

Phone #: _____

Circle requested TAT: RUSH 24hr 48hr 72hr 5day

For mold only, Circle Requested TAT: RUSH Standard (48-72 hrs)

Place an 'X' under the requested analysis per sample received.

Client Sample Number	Collection Date	Sample Description	PCM NIOSH 7400A	PLM EPA 600/R93/116 Point Count	TEM	Pb Air NIOSH 7082	* Pb Wipe HUD 14.2	Pb Paint SW 846-7420	Pb Soil SW 846-3050B	TCLP SW 846-1311	Non-Viable Mold	Viable Mold	8 RCRA Metal TCLP	PCB	Arsenic Air, Bulk, TCLP	Other	Acceptable/ Not Acceptable (A/NA)	
1 B-796-01	5/21/12	Plaster Layer ONLY		X														
2 02																		
3 03																		
4 10																		
5 11																		
6 12																		
7 16																		
8 17-18																		
9 22																		
10 23																		
11 24																		
12 34																		
13 36																		

* All samples submitted to WL LLC shall be sealed in the appropriate container, canister, or collection vessel; shall be free of exterior dust or contamination, and shall pose no immediate or potential hazard to personnel during sample receiving and processing. When applicable, please include field blanks as required by sampling method. Wipe samples must meet ASTM requirements before analysis is run. WL cannot determine whether wipe samples meet ASTM requirements.
* All samples are received in good condition unless otherwise stated.
* Document any correspondence with client regarding sample acceptance criteria or other aspects of analytical request on an attached sheet.