BUILDING 130

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INTRODUCTION

This report presents the results of the Asbestos Inspection performed in the Building #130 at Fort Allen, Juana Diaz, Puerto Rico. This inspection was performed from November 8, 2010 in accordance with the U.S. Environmental Protection Agency and 40CFR763 AHERA, 40CFR61, Sub Part M NESHAP and the Environmental Quality Board guidelines for presence of asbestos containing materials inspections. This document is prepared for the sole use of the Puerto Rico National Guard. No other party should rely on the information contained herein without prior written consent of the Puerto Rico National Guard. The scope of services, inspection methodology, and results are presented below.

SCOPE OF WORK

The purpose of this inspection is to identify and assess all the asbestos containing materials of the Building #130 at Fort Allen, Juana Diaz, Puerto Rico. The Puerto Rico National Guard has requested assistance from Environmental Health and Safety Services to determine the level of asbestos hazards controls needed (if any) at the facilities. The intent of this inspection is to ascertain the presence of asbestos containing materials above specified regulatory action levels. If asbestos containing materials are found, the inspection will identify the components and their respective asbestos concentrations in such a manner that this report could be used as a basis for subsequent abatement activity.

PROPERTY DESCRIPTION

The Building #127 is a two floor office building at Fort Allen. It has many offices and service areas. It is not in use (it is abandoned).

SUMMARY OF FINDINGS

During the inspection of Building 130 suspected asbestos containing materials were found. Many samples were taken, including roofing material, baseboard, window caulking and floor tile and glue samples. For detailed information, please refer to the laboratory results section. Laboratory analysis reported presence of asbestos on these materials.

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PHOTO #1

BUILDING #130 OF FORT ALLEN, JUANA DIAZ, PUERTO RICO AEREAL PHOTO

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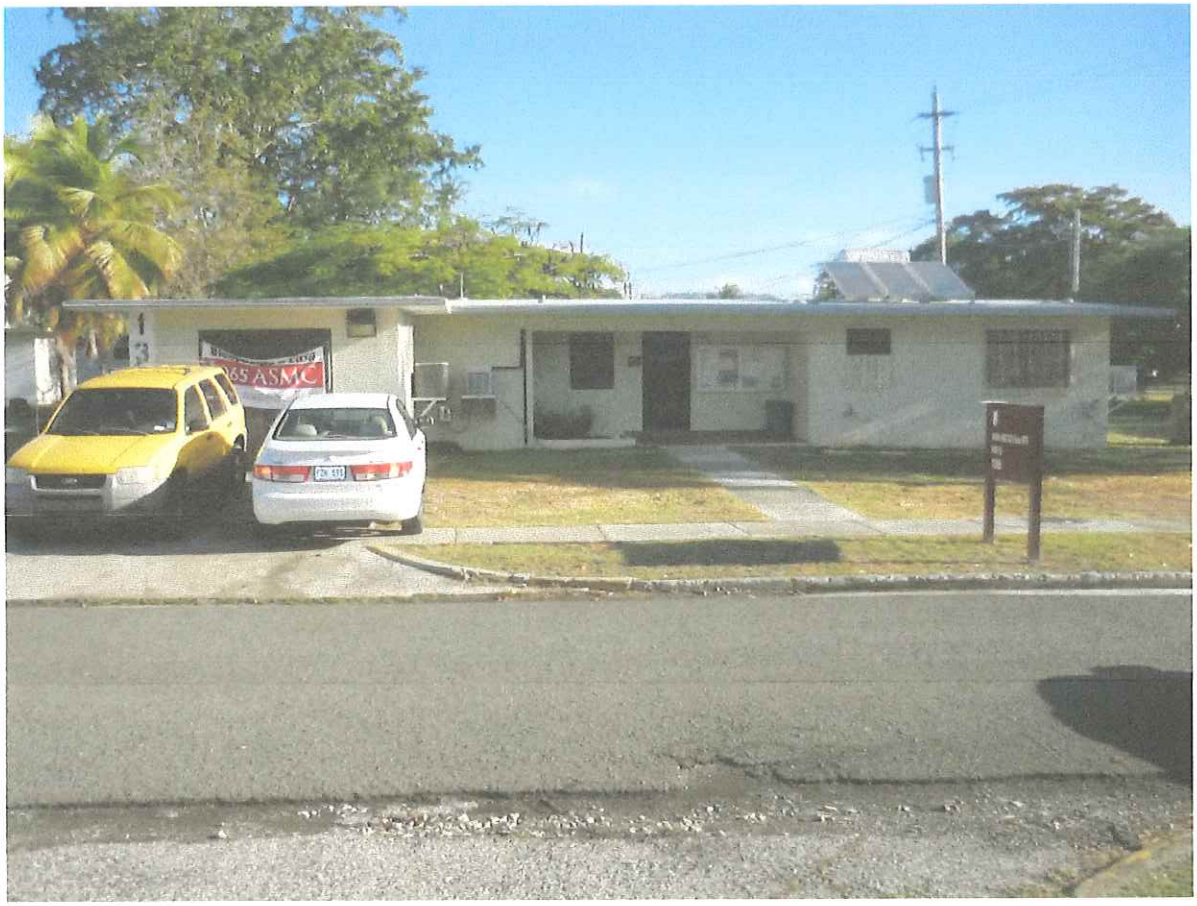

PHOTO #2

BUILDING #130 OF FORT ALLEN,
JUANA DIAZ, PUERTO RICO
FRONT AREA PHOTO

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FINDINGS: INSPECTION CHECKUP RESULTS

Location	Building 130, 1st Floor, Inside Areas					Suspected ACM on Location:			Yes
Findings	Suspected ACM	Floortile	Mastic /Glue	Drywall	Plaster	Stucco	Ceiling Tiles	Roofing Materials	Joint Materials
	Description:	Gray	Black						
	Condition:	Good	Good						
	Potential of Disturbance:	Low	Low						
	Suspected ACM	Caulking	Panels	Fire Proofing Materials	TSI	Baseboards	Wall Insulation	A/C Duct Insulation	Others:
	Description:					Black			
	Condition:					Good			
	Potential of Disturbance:					Low			

Comments:

Location	Building 130, 2nd Floor, Inside Areas					Suspected ACM on Location:			Yes
Findings	Suspected ACM	Floortile	Mastic /Glue	Drywall	Plaster	Stucco	Ceiling Tiles	Roofing Materials	Joint Materials
	Description:	Gray	Black						
	Condition:	Good	Good						
	Potential of Disturbance:	Low	Low						
	Suspected ACM	Caulking	Panels	Fire Proofing Materials	TSI	Baseboards	Wall Insulation	A/C Duct Insulation	Others:
	Description:					Black			
	Condition:					Good			
	Potential of Disturbance:					Low			

Comments:

Legend: N/A - Not Applicable, Description - Color, Noticeable or Characteristic, Condition - Good (G), Damaged (D) or Significantly Damaged (SD), Disturbance Potential - Low (L), Medium (M) or High (H)

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FINDINGS: INSPECTION CHECKUP RESULTS

Location	Building 130, Outside Areas					Suspected ACM on Location:			Yes
Findings	Suspected ACM	Floortile	Mastic /Glue	Drywall	Plaster	Stucco	Ceiling Tiles	Roofing Materials	Joint Materials
	Description:							Black	
	Condition:							Good	
	Potential of Disturbance:							Low	
	Suspected ACM	Caulking	Panels	Fire Proofing Materials	TSI	Baseboards	Wall Insulation	A/C Duct Insulation	Others:
	Description:	Bone White							
	Condition:	Good							
	Potential of Disturbance:	Low							

Comments: Roofing Material: Gravel & Tar

Legend: N/A - Not Applicable, Description - Color, Noticeable or Characteristic, Condition - Good (G), Damaged (D) or Significantly Damaged (SD), Disturbance Potential - Low (L), Medium (M) or High (H)

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FINDINGS: LABORATORY RESULTS

ENVIRONMENTAL HEALTH & SAFETY SERVICES

TRANSMITTAL SHEET FOR Bulk Sampling PAGE 1

CLIENT:	PUERTO RICO NATIONAL GUARD	DATE:	November 8, 2010
CONTACT:	ILEANA MEJIA	SAMPLER:	Carlos Roman
PROJECT:	FORT ALLEN, JUANA DIAZ	METHOD:	PLM
P.O.#		PROJECT #	

	SAMPLE ID#	SAMPLE DESCRIPTION	SAMPLE LOCATION
43572	RB-101108-AN01	GRAY FLOORTILE & BLACK GLUE	BUILDING 119, ROOM C, MAIN ROOM
573	RB-101108-AN02	RED FLOORTILE & BLACK GLUE	BUILDING 119, ROOM C, KITCHEN
574	RB-101108-AN03	WHITE FLOORTILE & BLACK GLUE	BUILDING 119, ROOM C, HALLWAY
575	RB-101108-AN04	GREEN FLOORTILE & BLACK GLUE	BUILDING 119, ROOM D, ALL AREAS
576	RB-101108-AN05	WHITE FLOORTILE & WHITE GLUE	BUILDING 119, ROOM A, ROOM 1
577	RB-101108-AN06	GRAY FLOORTILE & BLACK GLUE	BUILDING 119, ROOM A, ROOM 1
578	RB-101108-AN07	BONE WHITE WINDOW CAULKING	BUILDING 119, ALL AREAS
579	RB-101108-AN08	BLACK ROOFING MATERIAL	BUILDING 119, ROOF AREA
580	RB-101108-AN09	BLACK ROOFING MATERIAL	BUILDING 119, ROOF AREA
581	RB-101108-AN10	BLACK ROOFING MATERIAL	BUILDING 119, ROOF AREA
582	RB-101108-AN11	LIGHT BLUE FLOORTILE & BLACK GLUE	BUILDING 120, ALL ROOMS
583	RB-101108-AN12	BLACK ROOFING MATERIAL	BUILDING 120, ROOF AREA
584	RB-101108-AN13	BLACK ROOFING MATERIAL	BUILDING 120, ROOF AREA
585	RB-101108-AN14	BLACK ROOFING MATERIAL	BUILDING 120, ROOF AREA
586	RB-101108-AN15	BONE WHITE FLOORTILE & BONE WHITE GLUE	BUILDING 122, ROOM C, FLOOR AREA
587	RB-101108-AN16	GREEN FLOORTILE & BLACK GLUE	BUILDING 122, ROOM D, FLOOR AREA
588	RB-101108-AN17	GRAY FLOORTILE & BLACK GLUE	BUILDING 122, ROOM A, FLOOR AREA
589	RB-101108-AN18	BONE WHITE FLOORTILE & BLACK GLUE	BUILDING 122, ROOM A, FLOOR AREA
590	RB-101108-AN19	BONE WHITE FLOORTILE & BLACK GLUE	BUILDING 122, ROOM B, FLOOR AREA
591	RB-101108-AN20	GRAY FLOORTILE & BLACK GLUE	BUILDING 122, ROOM B, FLOOR AREA
592	RB-101108-AN21	GRAY FLOORTILE & BLACK GLUE	BUILDING 130, 2ND FLOOR, FLOOR AREA
593	RB-101108-AN22	BLACK BASEBOARD & GLUE	BUILDING 130, 2ND FLOOR, FLOOR AREA
594	RB-101108-AN23	BONE WHITE WINDOW CAULKING	BUILDING 130, ALL WINDOW AREAS
595	RB-101108-AN24	BLACK ROOFING MATERIAL	BUILDING 130, PORCH ROOF
596	RB-101108-AN25	GREEN FLOORTILE & BLACK GLUE	BUILDING 128, WEST AREA, FLOOR AREA
597	RB-101108-AN26	GREEN FLOORTILE & BLACK GLUE	BUILDING 128, EAST AREA, FLOOR AREA

NORMAL X RUSH _____ T.A.T. 5 DAYS

ADDITIONAL COMMENTS: TOTAL OF SAMPLES: 26

COLLECTED BY

NAME	CARLOS ROMAN	COMPANY	ENVIRONMENTAL HEALTH & SAFETY SERVICES
SIGNATURE	[signature]	DATE	November 8, 2010

DELIVERED BY

NAME	CARLOS ROMAN	COMPANY	ENVIRONMENTAL HEALTH & SAFETY SERVICES
SIGNATURE	[signature]	DATE	November 11, 2010

RECEIVED BY

NAME	Karen Y. Aust	COMPANY	AEI Inc
SIGNATURE	[signature]	DATE	11/16/10 10:40

400 CALAF, SUITE 142 SAN JUAN, PUERTO RICO, 00918-1323 CARR. #2 KM. 39.6, VEGA BAJA, P.R. 00693
TEL: 1(787)-855-1901 FAX: 1(787)858-2646

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FINDINGS: LABORATORY RESULTS

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor
Santurce, Puerto Rico 00907
Ph. (787) 722-0220
Fax (787) 724-5788

NLLAP	102702
PAT	102702
ELAP	11583
NVLAP	200051-0

POLARIZED LIGHT MICROSCOPY (PLM)
BULK SAMPLE ANALYSIS REPORT

Client : Environmental, Health and Safety Services
Project : Fort Allen, Juana Diaz
Lab Project # : PRB3157
Lab ID #: 43592
Sample ID#: RB-101108-AN21
Sample Location: Gray Floor Tile and Black Glue, Bldg. #130, 2nd Floor, Floor Area

Date Collected: 11/8/10
Date Received: 11/16/10
Date Analyzed: 11/17/10

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Gray, Hard, Compact, Partly Granular with Black Mastic and Fibers				

RESULT OF ANALYSIS (BY VISUAL ESTIMATE)

ASBESTOS FIBERS		NON ASBESTOS FIBERS		NONFIBROUS COMPONENTS		OTHERS COMPONENTS	
Chrysotile	2	Cellulose		Vermiculite/Mica		Bitumen	3
Amosite		Glass Fibers		Perlite		Sand/Aggregates	26
Crocidolite		Synthetics		Expanded Glass		Glue	
Tremolite		Wollastonite		Styrofoam		Vinyl	
Actinolite		Talc		Aluminum		Cork	
Anthophyllite		Mineral Wool		Foam		Latex	
						Binders/Paint	69

Comments: Bitumen Contain 2% of Chrysotile

FOR ALL HETEROGENEOUS AND LAYERED SAMPLES EASILY SEPARATED INTO SUBLAYERS, EACH COMPONENT IS ANALYZED AND REPORTED SEPARATELY.

SAMPLE WAS ANALYZED BY PLM USING DISPERSION STAINING TECHNIQUES IN ACCORDANCE WITH US EPA METHOD: 600/R-93/116 OF JULY 93.

MICROANALYST: E. L. Elme Rivera

QUALITY CONTROL: Ady Padaj, Ph.D

PLM IS NOT CONSISTENTLY RELIABLE IN DETECTING SMALL CONCENTRATION OF ASBESTOS IN FLOOR TILES AND SIMILAR NONFRIABLE MATERIALS. QUANTITATIVE TEM IS CURRENTLY THE ONLY METHOD THAT CAN BE USED TO GET THE CONCLUSIVE ASBESTOS CONTENT. THIS REPORT RELATES ONLY TO THE ITEMS TESTED. THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL AND NOT WITHOUT WRITTEN APPROVAL OF THE LABORATORY. THIS REPORT SHALL NOT BE USED TO CLAIM ENDORSEMENT BY NVLAP OR ANY AGENCY OF OF THE US GOVERNMENT. ANALYSIS OF FLOOR TILE IS NOT COVERED BY THE CURRENT NEW YORK ELAP CERTIFICATION

AR-011/Rev. 1/12-06

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Santurce, Puerto Rico 00907
Ph. (787) 722-0220
Fax (787) 724-5788

NLLAP	102702
PAT	102702
ELAP	11583
NVLAP	200051-0

POLARIZED LIGHT MICROSCOPY (PLM)
BULK SAMPLE ANALYSIS REPORT

Client : Environmental, Health and Safety Services
Project : Fort Allen, Juana Diaz
Lab Project # : PRB3157
Lab ID #: 43593
Sample ID#: RB-101108-AN22
Sample Location: Black Baseboard and Glue, Bldg. #130, 2nd Floor, Floor Area

Date Collected: 11/8/10
Date Received: 11/16/10
Date Analyzed: 11/17/10

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Black, Hard, Rubber with Glue and Fibers				

RESULT OF ANALYSIS (BY VISUAL ESTIMATE)

ASBESTOS FIBERS		NON ASBESTOS FIBERS		NONFIBROUS COMPONENTS		OTHERS COMPONENTS	
Chrysotile		Cellulose	2	Vermiculite/Mica		Bitumen	
Amosite		Glass Fibers		Perlite		Sand/Aggregates	
Crocidolite		Synthetics	2	Expanded Glass		Glue	6
Tremolite		Wollastonite		Styrofoam		Vinyl	
Actinolite		Talc		Aluminum		Cork	
Anthophyllite		Mineral Wool		Foam	90	Latex	
						Binders/Paint	

Comments:

FOR ALL HETEROGENEOUS AND LAYERED SAMPLES EASILY SEPARATED INTO SUBLAYERS, EACH COMPONENT IS ANALYZED AND REPORTED SEPARATELY.

SAMPLE WAS ANALYZED BY PLM USING DISPERSION STAINING TECHNIQUES IN ACCORDANCE WITH US EPA METHOD: 600/R-93/116 OF JULY 93.

MICROANALYST: Elme Rivera

QUALITY CONTROL: Ady Padlan, Ph.D

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NLLAP	102702
PAT	102702
ELAP	11583
NVLAP	200051-0

POLARIZED LIGHT MICROSCOPY (PLM)
BULK SAMPLE ANALYSIS REPORT

Client : Environmental, Health and Safety Services
Project : Fort Allen, Juana Diaz
Lab Project # : PRB3157
Lab ID #: 43594
Sample ID#: RB-101108-AN23
Sample Location: Bone White Window Caulking, Bldg. #130, All Window Areas

Date Collected: 11/8/10
Date Received: 11/16/10
Date Analyzed: 11/17/10

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Cream, Hard, Glue with Sand, Paint and Fibers				

RESULT OF ANALYSIS (BY VISUAL ESTIMATE)

ASBESTOS FIBERS		NON ASBESTOS FIBERS		NONFIBROUS COMPONENTS		OTHERS COMPONENTS	
Chrysotile	2	Cellulose		Vermiculite/Mica		Bitumen	
Amosite		Glass Fibers		Perlite		Sand/Aggregates	30
Crocidolite		Synthetics		Expanded Glass		Glue	53
Tremolite		Wollastonite		Styrofoam		Vinyl	
Actinolite		Talc		Aluminum		Cork	
Anthophyllite		Mineral Wool		Foam Rubber		Latex	
						Binders/Paint	15

Comments: Paint Included As Binder

FOR ALL HETEROGENEOUS AND LAYERED SAMPLES EASILY SEPARATED INTO SUBLAYERS, EACH COMPONENT IS ANALYZED AND REPORTED SEPARATELY.

SAMPLE WAS ANALYZED BY PLM USING DISPERSION STAINING TECHNIQUES IN ACCORDANCE WITH US EPA METHOD: 600/R-93/116 OF JULY 93.

MICROANALYST: E. R. Elme Rivera

QUALITY CONTROL: Ady Padán, Ph.D

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ELAP	11583
NVLAP	200051-0

POLARIZED LIGHT MICROSCOPY (PLM)
BULK SAMPLE ANALYSIS REPORT

Client :	Environmental, Health and Safety Services	Date Collected:	11/8/10
Project :	Fort Allen, Juana Diaz	Date Received:	11/16/10
Lab Project # :	PRB3157	Date Analyzed:	11/17/10
Lab ID #:	43595		
Sample ID#:	RB-101108-AN24		
Sample Location:	Black Roofing Material, Bldg. #130, Porch Roof		

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Black, Hard, Bituminous with Aggregates and Fibers				

RESULT OF ANALYSIS (BY VISUAL ESTIMATE)

ASBESTOS FIBERS		NON ASBESTOS FIBERS		NONFIBROUS COMPONENTS		OTHERS COMPONENTS	
Chrysotile		Cellulose	2	Vermiculite/Mica		Bitumen	85
Amosite		Glass Fibers	3	Perlite		Sand/Aggregates	10
Crocidolite		Synthetics		Expanded Glass		Glue	
Tremolite		Wollastonite		Styrofoam		Vinyl	
Actinolite		Talc		Aluminum		Cork	
Anthophyllite		Mineral Wool		Foam Rubber		Latex	
						Binders/Paint	

Comments:

FOR ALL HETEROGENEOUS AND LAYERED SAMPLES EASILY SEPARATED INTO SUBLAYERS, EACH COMPONENT IS ANALYZED AND REPORTED SEPARATELY.

SAMPLE WAS ANALYZED BY PLM USING DISPERSION STAINING TECHNIQUES IN ACCORDANCE WITH US EPA METHOD: 600/R-93/116 OF JULY 93.

MICROANALYST: E. R. Elme Rivera

QUALITY CONTROL: Ady Padah, Ph.D

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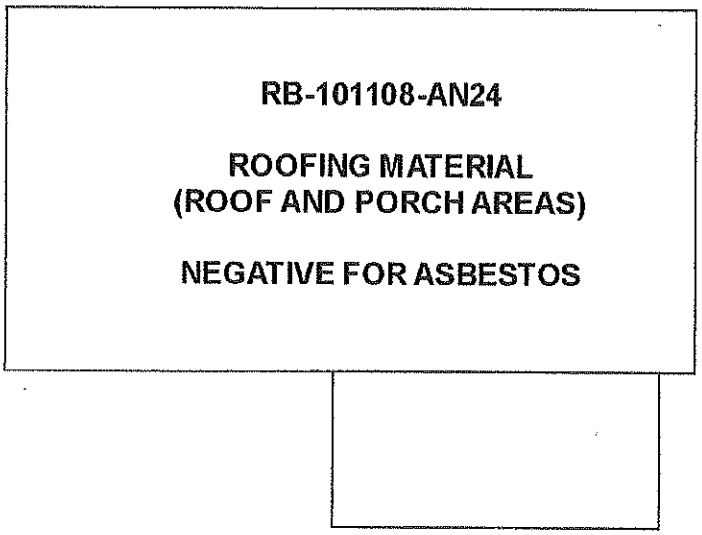
FINDINGS: RESULTS LOCATIONS – BUILDING 130



ROOF AREA

PORCH ROOF AREA

RB-101108-AN22
BASEBOARD & GLUE
NEGATIVE FOR ASBESTOS

RB-101108-AN23
WINDOW CAUKING
POSITIVE FOR ASBESTOS

RB-101108-AN21
FLOOR TILE & GLUE
POSITIVE FOR ASBESTOS

1ST FLOOR

RB-101108-AN22
BASEBOARD & GLUE
NEGATIVE FOR ASBESTOS

RB-101108-AN23
WINDOW CAUKING
POSITIVE FOR ASBESTOS

RB-101108-AN21
FLOOR TILE & GLUE
POSITIVE FOR ASBESTOS

2ND FLOOR

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FINDINGS: RESULTS LOCATIONS – PHOTOS



BUILDING #130, ALL INSIDE AREAS
POSITIVE FOR ASBESTOS: GRAY FLOOR TILE & GLUE AND WINDOW CAULKING

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