BUILDING 133

This inspection report is for the use only of The Puerto Rico National Guard. Any full or partial copy of this document must be authorized by The Puerto Rico National Guard.

INTRODUCTION

This report presents the results of the Asbestos Inspection performed in the Building #133 at Fort Allen, Juana Diaz, Puerto Rico. This inspection was performed from November 10, 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 #133 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 #133 is a two floor office building at Fort Allen. It has many offices and service areas. It is in use.

SUMMARY OF FINDINGS

During the inspection of Building 133 suspected asbestos containing materials were found. Many samples were taken, including baseboard, 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 #133 OF FORT ALLEN, JUANA DIAZ, PUERTO RICO AEREAL PHOTO

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PHOTO #1

**BUILDING #133 OF FORT ALLEN,
JUANA DIAZ, PUERTO RICO
FRONT AREA PHOTO**

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FINDINGS: INSPECTION CHECKUP RESULTS

Location	Building 133, Inside Areas					Suspected ACM on Location:			Yes
Findings	Suspected ACM	Floortile	Mastic /Glue	Drywall	Plaster	Stucco	Ceiling Tiles	Roofing Materials	Joint Materials
	Description:	Beige	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 133, 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:					Black			
	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 10, 2010
CONTACT:	JUANA MEJIA	SAMPLER:	Carlos Roman
PROJECT:	FORT ALLEN, JUANA DIAZ	METHOD:	PLM
P.O.#		PROJECT #	

SAMPLE ID#	SAMPLE DESCRIPTION	SAMPLE LOCATION
RB-101110-AN01	BLACK ROOFING MATERIAL	BUILDING 126, ROOF AREA
RB-101110-AN02	BLACK ROOFING MATERIAL	BUILDING 126, ROOF AREA
RB-101110-AN03	BLACK ROOFING MATERIAL	BUILDING 126, ROOF AREA
RB-101110-AN04	GREEN FLOORTILE/BONE WHITE FLOORTILE (2 LAYER)	BUILDING 126, FLOOR AREA
RB-101110-AN05	GREEN BASEBOARD & WHITE GLUE	BUILDING 126, FLOOR AREA
RB-101110-AN06	BEIGE FLOORTILE & BLACK GLUE	BUILDING 127, 2ND FLOOR, HALLWAY CLOSET, FLOOR AREA
RB-101110-AN07	BROWN BASEBOARD & GLUE	BUILDING 127, 1ST FLOOR, FLOOR AREA
RB-101110-AN08	BLACK ROOFING MATERIAL	BUILDING 127, PORCH ROOF AREA
RB-101110-AN09	BLACK ROOFING MATERIAL	BUILDING 127, ROOF AREA
RB-101110-AN10	BLACK ROOFING MATERIAL	BUILDING 127, ROOF AREA
RB-101110-AN11	BLACK ROOFING MATERIAL	BUILDING 128, ROOF AREA
RB-101110-AN12	BONE WHITE WINDOW CAULKING	BUILDING 131, WINDOW AREA
RB-101110-AN13	WHITE FLOORTILE & BLACK GLUE	BUILDING 131, 1ST FLOOR, FLOOR AREA
RB-101110-AN14	GRAY FLOORTILE & BLACK GLUE	BUILDING 131, 1ST FLOOR, FLOOR AREA
RB-101110-AN15	GREEN FLOORTILE & BLACK GLUE	BUILDING 132, 1ST FLOOR, FLOOR AREA
RB-101110-AN16	BEIGE FLOORTILE & BLACK GLUE	BUILDING 133, 1ST FLOOR, FLOOR AREA
RB-101110-AN17	BROWN BASEBOARD & GLUE	BUILDING 133, 1ST FLOOR, KITCHEN FLOOR AREA
RB-101110-AN18	WHITE ACOUSTIC CEILING TILE	BUILDING 118, ROOM E, CEILING
RB-101110-AN19	WHITE CEILING DRYWALL (WITH GREEN PAINT)	BUILDING 118, BATHROOM AREA OF ROOMS G & H, CEILING
RB-101110-AN20	BONE WHITE FLOORTILE & BLACK GLUE	BUILDING 149, 2ND FLOOR, ROOM 202, FLOOR AREA
RB-101110-AN21	BONE WHITE DOOR CAULKING	BUILDING 149, 2ND FLOOR, ROOM 202, DOOR AREA
RB-101110-AN22	BONE WHITE WINDOW CAULKING	BUILDING 149, 2ND FLOOR, ROOM 202, WINDOW AREA
RB-101110-AN23	BLACK PIPE INSULATION (TSI)	BUILDING 149, 2ND FLOOR, ROOM 208, INSIDE EAST WALL
RB-101110-AN24	BONE WHITE WINDOW CAULKING	BUILDING 149, 2ND FLOOR, ROOM 211, WINDOW AREA
RB-101110-AN25	GREEN FLOORTILE & BLACK GLUE	BUILDING 149, 2ND FLOOR, ROOM 211, FLOOR AREA
RB-101110-AN26	BONE WHITE FLOORTILE & BLACK GLUE	BUILDING 149, 2ND FLOOR, ROOM 211, FLOOR AREA
RB-101110-AN27	WHITE PAINTED BEIGE PIPE INSULATION (TSI)	BUILDING 149, 1ST FLOOR, ROOM 111, CEILING AREA
RB-101110-AN28	WHITE PAINTED BEIGE PIPE INSULATION (TSI)	BUILDING 149, 1ST FLOOR, ROOM 110, INSIDE EAST WALL
RB-101110-AN29	WHITE PIPE INSULATION, ELBOW (TSI)	BUILDING 149, 1ST FLOOR, ROOM 111, CEILING AREA
RB-101110-AN30	WHITE ACOUSTIC CEILING TILE	BUILDING 149, 1ST FLOOR, ROOM 109, CEILING AREA
RB-101110-AN31	WHITE PLASTER CEILING PANEL	BUILDING 149, 1ST FLOOR, ROOM 105, CEILING AREA
RB-101110-AN32	BLACK ROOFING MATERIAL	BUILDING 149, ROOF AREA
RB-101110-AN33	BLACK ROOFING MATERIAL	BUILDING 149, ROOF AREA
RB-101110-AN34	BLACK ROOFING MATERIAL	BUILDING 149, ROOF AREA

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

ADDITIONAL COMMENTS: TOTAL OF SAMPLES: 34

COLLECTED BY

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

DELIVERED BY

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

RECEIVED BY

NAME		COMPANY	
SIGNATURE		DATE	

400 CALAF, SUITE 142 SAN JUAN, PUERTO RICO, 00918-1323 CARR. #2 KM. 39.6, VEGA BAJA, P.R. 00693
TEL: (787)-855-1901 FAX: (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	Date Collected:	11/10/10
Project :	Fort Allen, Juana Diaz	Date Received:	11/16/10
Lab Project # :	PRB3157	Date Analyzed:	11/22/10
Lab ID #:	43605		
Sample ID#:	RB-101110-AN08		
Sample Location:	Black Roofing Material, Bldg. #127, Porch Roof Area		

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Black,Hard, Bitumen with Fibers				

RESULT OF ANALYSIS (BY VISUAL ESTIMATE)

ASBESTOS FIBERS		NON ASBESTOS FIBERS		NONFIBROUS COMPONENTS		OTHERS COMPONENTS	
Chrysotile		Cellulose	3	Vermiculite/Mica		Bitumen	95
Amosite		Glass Fibers	2	Perlite		Sand/Aggregates	
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 Padan, 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.

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FINDINGS: LABORATORY RESULTS

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NLLAP	102702
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NVLAP	200051-0

POLARIZED LIGHT MICROSCOPY (PLM)
BULK SAMPLE ANALYSIS REPORT

Client :	Environmental, Health and Safety Services	Date Collected:	11/10/10
Project :	Fort Allen, Juana Diaz	Date Received:	11/16/10
Lab Project # :	PRB3157	Date Analyzed:	11/22/10
Lab ID #:	43606		
Sample ID#:	RB-101110-AN09		
Sample Location:	Black Roofing Material, Bldg. #127, Roof Area		

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Black,Hard, Bitumen with Fibers				

RESULT OF ANALYSIS (BY VISUAL ESTIMATE)

ASBESTOS FIBERS		NON ASBESTOS FIBERS		NONFIBROUS COMPONENTS		OTHERS COMPONENTS	
Chrysotile		Cellulose	2	Vermiculite/Mica		Bitumen	95
Amosite		Glass Fibers	3	Perlite		Sand/Aggregates	
Crocidolite		Synthetics		Expanded Glass		Glue	
Tremolite		Wollastonite		Styrofoam		Vinyl	
Actinolite		Talc		Aluminum		Cork	
Anthophyllite		Mineral Wool		Foam Rubber		Latex	
						Binders/Paint	

Comments:

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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 Padan, Ph.D

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FINDINGS: LABORATORY RESULTS

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Ph. (787) 722-0220
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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	Date Collected: 11/10/10
Project :	Fort Allen, Juana Diaz	Date Received: 11/16/10
Lab Project # :	PRB3157	Date Analyzed: 11/22/10
Lab ID #:	43607	
Sample ID#:	RB-101110-AN10	
Sample Location:	Black Roofing Material, Bldg. #127, Roof Area	

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Black,Hard, Bitumen with Fibers				

ASBESTOS FIBERS		NON ASBESTOS FIBERS		NONFIBROUS COMPONENTS		OTHERS COMPONENTS	
Chrysotile		Cellulose	3	Vermiculite/Mica		Bitumen	94
Amosite		Glass Fibers	3	Perlite		Sand/Aggregates	
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 Padán, Ph.D

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FINDINGS: LABORATORY RESULTS

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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 #: 43613
Sample ID#: RB-101110-AN16
Sample Location: Beige Floor Tile and Black Glue, Bldg. #133, 1st Floor, Floor Area

Date Collected: 11/10/10
Date Received: 11/16/10
Date Analyzed: 11/22/10

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Cream, 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	<1	Cellulose		Vermiculite/Mica		Bitumen	3
Amosite		Glass Fibers		Perlite		Sand/Aggregates	20
Crocidolite		Synthetics		Expanded Glass		Glue	
Tremolite		Wollastonite		Styrofoam		Vinyl	
Actinolite		Talc		Aluminum		Cork	
Anthophyllite		Mineral Wool		Foam Rubber		Latex	
						Binders/Paint	77

Comments: Bitumen Contains 1% to 2% 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. R. Elme Rivera

QUALITY CONTROL: Ady Padan, Ph.D

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FINDINGS: LABORATORY RESULTS

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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	Date Collected: 11/10/10
Project :	Fort Allen, Juana Diaz	Date Received: 11/16/10
Lab Project # :	PRB3157	Date Analyzed: 11/22/10
Lab ID #:	43614	
Sample ID#:	RB-101110-AN17	
Sample Location:	Brown Baseboard and Glue, Bldg. #133, 1st Floor, Kitchen Floor Area	

Layered:	No	No. of Layers:*	*	Layer No:	**
Appearance:	Brown, 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		Expanded Glass		Glue	6
Tremolite		Wollastonite		Styrofoam		Vinyl	
Actinolite		Talc		Aluminum		Cork	
Anthophyllite		Mineral Wool		Foam Rubber	92	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

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.

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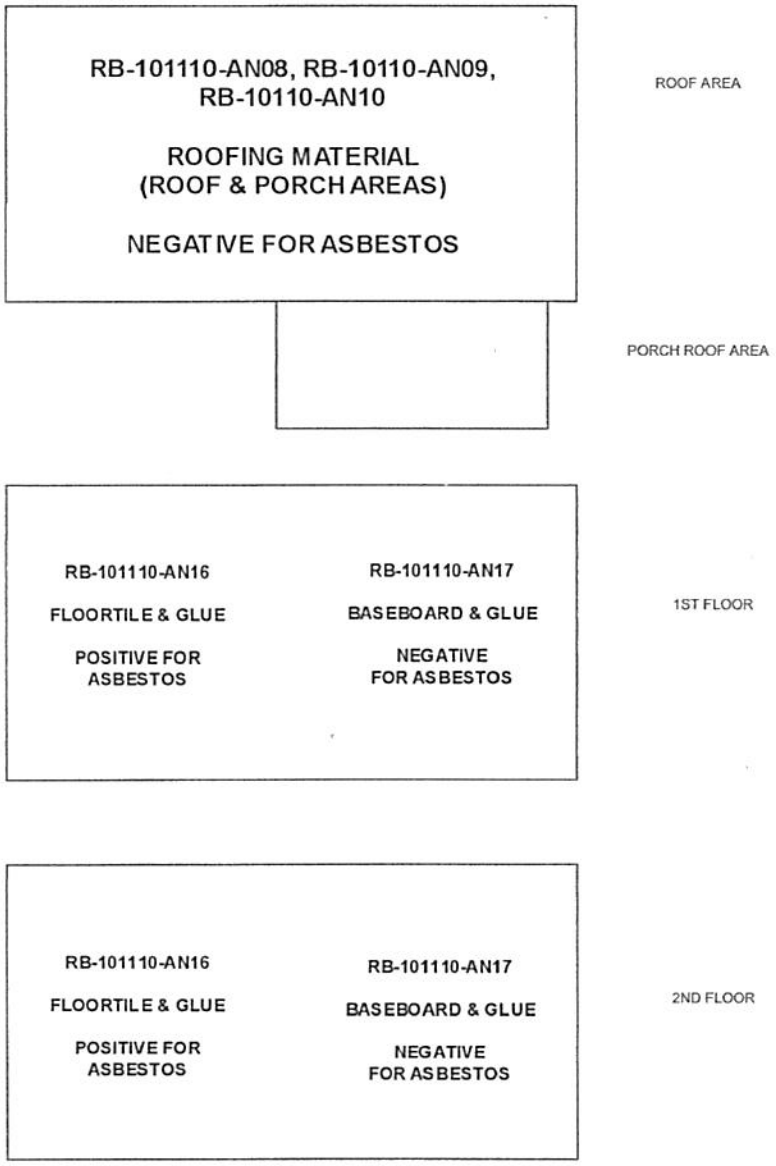
FINDINGS: RESULTS LOCATIONS – BUILDING 133



NOTE: THE ROOFING MATERIAL OF THE BUILDING #133 IS THE SAME MATERIAL AS THE ROOFING MATERIAL OF THE BUILDING #127. THE LABORATORY RESULTS OF THE ROOFING MATERIAL OF THE BUILDING #127 WERE NEGATIVE FOR ASBESTOS CONTAINING MATERIALS (ACM). THEREFORE, BASED ON THESE RESULTS, THE ROOFING MATERIAL OF THE BUILDING #133 IS DECLARED NEGATIVE FOR ACM.

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FINDINGS: RESULTS LOCATIONS – PHOTOS



BUILDING #133, ALL INSIDE AREAS
POSITIVE FOR ASBESTOS: BEIGE FLOOR TILE & GLUE

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