

LIMITED ENVIRONMENTAL SURVEY FOR LEAD BASED PAINT (LBP) AND ASBESTOS CONTAINING MATERIALS (ACM) FOR CDT ADJUNTAS LOCATED ON #4, DR DEFENDINI STREET ADJUNTAS, PUERTO RICO

Prepared For: Department of Health

Prepared By:

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LEAD



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I. SUMMARY

A limited survey for Lead Based Painted (LBP) Components was conducted by AES International for CDT Adjuntas located on Defendini Street #4, Adjuntas, Puerto Rico, 00601 (Project #:77703, DI#151659). The investigation is part of FEMA DISASTER 4339DR-PR and 4473DR-PR contract.

The LBP limited investigation was conducted by Elme Rivera, an DRNA certified lead risk assessor. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, was conducted using HUD protocol of 2012.

The scope of the survey included sampling of LBP suspected components listed on FEMA Lead Checklist for the project listed herein.

There were no LBP components present in the areas tested. However, LBP components were confirmed to be present in the following exterior areas which are not included in the FEMA's scope of work listed above.

Exterior

Emergency Area		
Curb	Concrete	Yellow
Riser	Concrete	Yellow
Bollard	Metal	Yellow

*All positive findings are not part of scope of work listed under FEMA DISASTER 4339DR-PR and 4473DR-PR contract (Project #:77703, DI#151659).

If remodeling activities will be conducted in the nearest future, it is required to remove all LBP materials prior to performance of said activities.

1.0 INTRODUCTION

A limited survey for Lead Based Painted (LBP) Components was conducted by AES International for CDT Adjuntas located on Defendini Street #4, Adjuntas, Puerto Rico, 00601 (Project #:77703, DI#151659). The investigation is part of FEMA DISASTER 4339DR-PR and 4473DR-PR contract.

The LBP limited investigation was conducted by Elme Rivera, an DRNA certified lead risk assessor. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, was conducted using HUD protocol of 1997, revised in 2012. The results are presented herein.

2.0 TESTING PROCEDURES

The testing was performed with an XRF instrument manufactured by Heuresis, Model Pb200i. The selected mode allows reference to the abatement level set at 1.0 mg/cm². The results are reported at 95% confidence levels.

3.0 LEAD BASED PAINT TESTING METHODOLOGY

The hazard level of lead in paint has been determined by the department of Housing & Urban development as 1.0 mg/cm², as measured by XRF, or AAS (Atomic Absorption Spectroscopy), or 0.5% be weight (or 5000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

The only lead-based paint testing protocol officially available at this time was published by HUD initially in 1990, revised in 1991 and finalized in 1995 (see above HUD reference). A revised chapter 7 was published in 1997 and finalized in 2012. In accordance to the new protocol, almost all surfaces present in the units have to be tested. The above guidelines were used to perform lead based-paint testing for this project.

The main steps involved in a single-family inspection are:

- 1. Perform inventory of all testing combinations
- 2. Select painted area to be tested
- 3. Perform XRF testing (including calibration checks)
- 4. Collect and analyze paint chip samples, for inconclusive results.
- 5. Classify XRF and paint chips results
- 6. Review and evaluate the data
- 7. Report findings

AES International personnel classify each XRF lead reading as positive, negative, or inconclusive. This classification is based on manufacturer XRF performance characteristic sheet (PCS), for each substrate. Samples and/or additional readings are taken from inconclusive areas.

Calibration verification of the instrument was performed prior to beginning of daily task, when the instrument was turned on, and at the end of the day. The verification was conducted on a NIST standard of 1.0 mg/cm². Acceptance criteria used was +-0.3 mg/cm². The data for calibration verification is attached in Appendix II.

Initially, a visual inspection was performed using FEMA lead based paint checklist and DDD document to identify materials listed to be sampled. Subsequently, readings were taken from suspected materials identified in FEMA's lead checklist (see Appendix II).

The identification of tested walls is based on HUD guidelines as follow: Wall A-entrance wall Walls B, C, and D-sequential walls, clockwise from A.

At the completion of the testing, ten (10) surfaces were retested as to assess precision of the testing. Statistical calculations performed on test-retest results suggest that the results are within the tolerance limits and therefore acceptable.

4.0 **RESULTS**

4.1 **Results of XRF inspection**

The results of the tested components are shown in Appendix II. Twenty-two (22) XRF readings were taken (see also summary). There were no LBP components present in the areas indicated in the scope of FEMA's work.

5.0 CONCLUSIONS

An LBP limited survey was conducted for CDT Adjuntas located on Defendini Street #4, Adjuntas, Puerto Rico, 00601. LBP components were detected. Some painted surfaces may contain levels of lead below 1.0 mg/cm², which could create lead dust, or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding.

This report shall be kept by the owner and all future owners for the life of the buildings. A copy of the relevant report shall be given to each tenant, buyer or lessor, as to comply with federal requirements for disclosure under lead disclosure rule of 1996 (see also section 1018 of Title X).

The LBP survey conducted did not address all suspected LBP present in the building but only materials listed by FEMA under the "FEMA Lead and Asbestos Checklist" and (when available) the Damage Description and Dimension (DDD) document. Consequently negative, or positive findings refer only to the areas and materials tested from selected locations.

Pry Vinne

Elme Rivera, DRNA Lead Risk Assessor Lic#: LBPRA-21722-207

ADY PADAN, PH.D

Table 1. Summary of LBP Positive Components at CDT Adjuntas,
Adjuntas, Puerto Rico.

Structure	Room	Components	Substrate	Color	Quantity
CDT Adjun	itas				
Exte	rior				
	Emergency	y Area			
	0	Curb	Concrete	Yellow	
		Riser	Concrete	Yellow	
		Bollard	Metal	Yellow	

*All positive findings are not part of scope of work listed under FEMA DISASTER 4339DR-PR and 4473DR-PR contract (Project #:77703, DI#151659).



Appendix I





AIHA Laboratory Accreditation Programs, LLC acknowledges that Analytical Environmental Services International, Inc. 611 Monserrate St. Suite 2 Santurce, PR 00907 Laboratory ID: LAP-102702

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

\checkmark	INDUSTRIAL HYGIENE	Accreditation Expires: February 01, 2023
\checkmark	ENVIRONMENTAL LEAD	Accreditation Expires: February 01, 2023
	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
	FOOD	Accreditation Expires:
	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl J. Marton

Cheryl O Morton Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 02/28/2021

Revision19: 09/01/2020



GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

AES International, Inc.

Por haber cumplido con los requisitos establecidos en el Capítulo VI, Regla 127 del Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo. Se le otorga esta certificación como **Firma** para llevar a cabo actividades relacionadas a Mitigación de Pintura con base de plomo en la jurisdicción de Puerto Rico.

Número de Certificado

LBPF-06922-014

Fecha de emisión: Abril 6, 2022 Fecha de Expiración: Abril 5, 2023



Jose Roque Juliá Jefe División Desperdicios Tóxicos

Lead Risk Assessor Credentials



Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make:	Heuresis
Models:	Model Pb200i
Source:	⁵⁷ Co, 5 mCi (nominal – new source)

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall	1.0 1.0 1.0
	Metal Plaster Wood	1.0 1.0 1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

<u>For each substrate type</u> (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th Reading)/6 - 1.02 mg/cm²

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level						
Reading (mg/cm ²) Mean Reading Time (seconds)		Standard Deviation (seconds)				
< 0.7	3.48	0.47				
0.7	7.29	1.92				
0.8	13.95	1.78				
0.9 – 1.2	15.25	0.66				
1.3 – 1.4	6.08	2.50				
<u>></u> 1.5	3.32	0.05				

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <u>http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997</u>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.



Appendix II



FEMA

Federal Emergency Management Agency FEMA-4339-DR-PR

Lead and Asbestos Checklist (428 Projects)

Project #: 77703 DI #: 151659

(1) Does the facility meet one of the following criteria?

	Asbestos	Lead		
X	Building constructed <u>before</u> 1990 and a Construction Permit is triggered based on the below permit checklist	X	Building constructed before 1978 and a Construction Permit is triggered based on the below permit checklist	
\bigcirc	Building constructed before 1990 and project requires a demolition permit	Ο	Building constructed before 1978 and a Demolition permit is required	
0	Applicant has documentation confirming the presence of asbestos Name of attachment:	0	Applicant has documentation confirming presence of lead paint Name of attachment:	
	None This DI does not qualify for asbestos abatement estimating for 428 project		None This DI does not qualify for asbestos abatement estimating for 428 project	

(2) Review DDD to identify suspect materials

Lead						
Suspect Material	Location in the Building (specify the room)	Quantity				
Interior and Exterior Finishes						
Exterior/interior paint						
Ceramic Tile (Wall, Floor)						
Ceramic equipment (Bathtubs, Sinks)						
Metal components (Doors, Windows)						
Fire retardant paint						
Other fire protection materials						
Roads and Bridges						
Road sign paints (Roads, Bridge						
Parapets)						
Traffic paint (Yellow, white, blue, etc.)						
Other						
Explain: Exterior, Full cap metal roof parapet top flashing (siding): 971 LF x 6 Inches x 6 Inches						

	Asbestos	
Suspect Material	Location in the Building (specify the room)	Quantity
Roofing Materials		
Roof and nonroof coatings		
Roofing felt		
Roofing stucco		
Roof panels		
Asphaltic, Bituminous, SBS, Mastic		27,069.00 SF
Sealant, polyolefins		,
Interior and Exterior Finishes		
Vinyl floor tiles		
Vinyl floor tile glue/ adhesives		
Ceiling tiles	Main Floor	32,104.00 SF
Millboard		
Insulation		
Plasters	Building Facade	508 SF
Mastic		
Textured paints (simulated stucco)		
Block filler paints (masonry coating)		
Cement products		
Drywall		
Electrical/HVAC Components		
Duct and return pipeline wrapping	Main Floor	700 SF
Duct and return pipeline wrapping	Building Exterior, Refrigeration lines insulation	100 FT long
Duct and return pipeline wrapping	Building Exterior, 1 each of Exterior ductwork (intake) insulation	52 Feet long X 24 Inch X 24 Inch
Duct and return pipeline wrapping	Building Exterior, Galvanized steel, exterior ventilation ductwork.	55 FT long x 2 FT wide x 2 FT high
Boilers		
Sealants		
Extruded sealant tapes		
High-grade electrical paper		
Insulation for friction parts		
Insulation for furnaces and refrigerators		

4

Glues, Adhesives, Mastic, HVAC Asbestos Sealants	
Other	
Explain:	



Appendix III



611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

		LEAD BASED P	'AINT TES'	TING DATA	A SHEET			
Client Name:	Departamento de S	Salud de Puerto Rico				Date:	10/13/22	
Project Name:	CDT Adjuntas					Inspector:	Elme Rivera	
Address:	Adjuntas, Puerto Ri	со			XRF	Serial No.:	3115	
Reading #	Structure	Room	SubstrateColorComponent & LocationXRF ReadingLaboratory Result (% or mg/cm2)					
1					Calibration	1.0		
2					Calibration	1.0		
3					Calibration	1.0		
4	Exterior	Exterior	Concrete	Light Blue	Wall A	0.1		
5	Exterior	Exterior	Concrete	Light Blue	Wall B	0.2		
6	Exterior	Exterior	Concrete	Light Blue	Wall C	0.1		
7	Exterior	Exterior	Concrete	Light Blue	Wall D	0.2		
8	Exterior	Exterior	Concrete	Gray	Trim	0.1		
9	Exterior	Exterior	Concrete	White	Trim	0.2		
10	Exterior	Exterior	Concrete	Gray	Column	0.1		
11	Exterior	Exterior	Concrete	Light Blue	Decorative Blocks	0.2		
12	Exterior	Exterior	Metal	Gray	Handrail	0.1		
13	Exterior	Exterior, Emergency Area	Concrete	Yellow	Curb	2.3		
14	Exterior	Exterior, Emergency Area	Concrete	Yellow	Riser	2.1		
15	Exterior	Exterior, Emergency Area	Metal	Yellow	Bollard	1.9		
16	Exterior	Exterior, Emergency Area	Concrete	Blue	Curb	0.1		
17	Exterior	Exterior	Metal	White	Window Frame	0.1		

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET							
Client Name:	Departamento de S	Salud de Puerto Rico Date: 10/13/22					
Project Name:	CDT Adjuntas					Inspector:	Elme Rivera
Address:	Adjuntas, Puerto Ri	со			XRF	Serial No.:	3115
Reading #	Structure	Room	SubstrateColorComponent & LocationXRF ReadingLaboratory Result (% or mg/cm²				
18	Exterior	Exterior	Metal	White	Window	0.2	
19	Exterior	Exterior	Metal	Cream	Door Frame	0.1	
20	Exterior	Exterior	Metal	Cream	Door	0.2	
21	Exterior	Exterior	Metal	White	Window Railing	0.1	
22	Interior	1-39	Concrete	Light Gray	Wall B	0.1	
23	Interior	1-39	Concrete	White	Ceiling	0.3	
24	Interior	Bathroom 6	Ceramic	Yellow	Lower Wall Tile	0.4	
25	Interior	1-54	Ceramic	Brown	Floor Tile	0.1	
26					Calibration	1.0	
27					Calibration	1.0	
28					Calibration	1.0	
			RETESTIN	IG			
29	Exterior	Exterior, Emergency Area	Concrete	Blue	Curb	0.1.	
30	Exterior	Exterior	Metal	White	Window Frame	0.1.	
31	Exterior	Exterior	Metal	White	Window	0.1	
32	Exterior	Exterior	Metal	Cream	Door Frame	0.2	
33	Exterior	Exterior	Metal	Cream	Door	0.1	

611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET											
Client Name:	Departamento de Sa	lud de Puerto Rico				Date:	10/13/22				
Project Name:	CDT Adjuntas					Inspector:	Elme Rivera				
Address:	Adjuntas, Puerto Rico)			XRF	Serial No.:	3115				
Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)				
34	Exterior	Exterior	Metal	White	Window Railing	0.2					
35	Interior	1-39	Concrete	Light Gray	Wall B	0.3					
36	Interior	1-39	Concrete	White	Ceiling	0.1					
37	Interior	Bathroom 6	Ceramic	Yellow	Lower Wall Tile	0.2					
38	Interior	1-54	Ceramic	Brown	Floor Tile	0.1					
39					Calibration	1.1					
40					Calibration	1.0					
41					Calibration	1.0					



Appendix IV



Selective Photos



General View of CDT Adjuntas Dr. Defendini Street, #4 Adjunts, Puerto Rico

General View of CDT Adjuntas Dr. Defendini Street, #4 Adjunts, Puerto Rico

Yellow Concrete Curb, Riser and Bollard Painted with LBP Emergency Area, Exterior

*All positive findings are not part of scope of work listed under FEMA DISASTER 4339DR-PR and 4473DR-PR contract (Project #:77703, DI#151659).



ASBESTOS



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- APPENDIX III Physical Assessment Inspection Form
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I. SUMMARY

Analytical Environmental Services International, Inc (AES International) was contracted to perform a limited Asbestos Containing Materials (ACM) survey for CDT Adjuntas located on Defendini Street #4, Adjuntas, Puerto Rico, 00601 (Project #:77703, DI#:151659). The investigation is part of FEMA DISASTER 4339DR-PR and 4473DR-PR contract.

The ACM limited inspection was conducted by Elme Rivera, a DRNA certified asbestos inspector.

The scope of the survey included sampling and physical assessments of ACM suspected materials listed on FEMA Asbestos Checklist.

During the survey, twenty-nine (29) samples were collected from suspected materials. Samples collected were analyzed by Polarized Light Microscopy (PLM) for asbestos fibers. ACM was identified in the following materials:

- Black Mastic on HVAC insulation. Material is classified as miscellaneous, category I, non-friable, ACM. According to FEMA estimates, 700 sq.ft of the material on the main floor and each of the ductwork insulation (intake) on the exterior (52'x 24''x 24'') will be affected.
- Ceiling Tiles 2'x2' and 2'x4'. Material is classified as miscellaneous, category I, non-friable, ACM. According to FEMA estimates, 32,104 sq.ft of this material will be affected.

Additional suspected materials were observed to be present in the building, outside of the FEMA's cope of work. These materials include VFT 12"x12" with mastic, undersink spray on, boiler insulation. In addition, there is an area on the Southeast side of the building where roofing material was not sampled as the roof treatment was applied approximatelly two years ago and is under warranty.

If demolition/remodeling activities will be conducted in the nearest future it is recommended to remove all ACM known, suspected, or presumed present within the structure, as to comply with NESHAP/DRNA requirements.

1.0 INTRODUCTION

Analytical Environmental Services International, Inc (AES International) was contracted to perform an Asbestos Containing Materials (ACM) survey for CDT Adjuntas located on Defendini Street #4, Adjuntas, Puerto Rico, 00601 (Project #:77703, DI#:151659). The investigation is part of FEMA DISASTER 4339DR-PR and 4473DR-PR contract.

The ACM inspection was conducted by Elme Rivera, a DRNA/AHERA certified asbestos inspector (see Appendix I for credentials). The scope of the survey included sampling of suspected ACM and analysis of samples collected.

Samples collected were sent to AES International Inc., a NVLAP accredited laboratory located in Santurce, Puerto Rico. Samples were analyzed by Polarized Light Microscopy method (PLM), in accordance with EPA recommended procedures. The samples are defined as asbestos containing materials (ACM) if they contain more than 1% asbestos.

2.0 GENERAL BACKGROUND

Asbestos was used in the construction industry from 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessarily constitute a health hazard. However, when these materials become disturbed from building renovation, maintenance, or other everyday activities that allow fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with various types of lung diseases including a debilitating lung disease called ASBESTOSIS; a rare cancer of chest called MESOTHELIOMA; and cancers of the esophagus, stomach, colon and other organs. Asbestosis is not fatal; it is, however, incurable. One who has it cannot breathe easily, and physical activity becomes limited. MESOTHELIOMA is 100% fatal, as there is no cure. These diseases can be directly linked to asbestos because of the mineral particles that can be found in the lining of the lungs and stomach, since the body cannot absorb these minerals. Tests have determined that asbestos can cause cancer, but scientists disagree on the number of asbestos fibers that must be inhaled to cause cancer. The nose filters out all visible particles. Therefore, only the microscopic fibers are the ones who cause the problems.

Studies indicate different health effect resulting from exposure to chrysotile asbestos versus exposure to the amphibole form of asbestos. The latter, which include tremolite, amosite, actinolite, anthophyllite and crocidolite have more significant health impact than chrysotile.

Some scientists cite studies concluding that is the size of the fibers deposited in the lungs that result in cancer. Long, thin fibers, greater than 8 microns in length and less than 0.25 microns in diameter show the highest potential of cancer development.

2.1 National Emission Standards for Hazardous Air Pollutants (NESHAP)

The EPA's rules concerning the application, removal, and disposal of ACM, as well as manufacturing, spraying and fabricating of ACM were issued under the asbestos NESHAP regulation (U.S. EPA National Emission Standards for Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before the building is demolished and may require its removal before renovation. If friable ACM shall be disturbed, the NESHAP rule may require appropriate work practices, or procedures for emission control. The rule states that any ACM, which may become friable, poses a potential hazard that should be addressed.

A revised NESHAP ruling was released on November 20, 1990, effective February 20, 1991, which includes as the responsibility of the owner, or operator, to "prior to the commencement of the demolition or renovation, thoroughly inspect the affected facility or part of the facility where demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II non-friable ACM." (40 CFR, Part 61, National Emission Standards for hazardous Air Pollutants, Asbestos NESHAP Revision, Final Rule, November 20, 1990).

3.0 PROJECT IDENTIFICATION/DESCRIPTION

The area investigated consists of building materials shown in FEMA's Asbestos Check list and DDD list (when available). The lists are attached in Appendix II.

4.0 SAMPLING METHODS

The materials listed in the FEMA's Asbestos Checklist were visually inspected and identified based on Photos provided and DDD List (see Appendix II). Accordingly, twenty-nine (29) samples were collected from suspected ACM. Samples were collected from roof built-up and flashing, exterior façade, ceiling tiles, TSI, fiber glass and black mastic on HVAC.

5.0 SAMPLING RESULTS

Location of materials and results are shown in the physical assessment form in Appendix III. Analytical results of samples collected are shown in Appendix IV. The results are presented according to functional areas tested. The suspected samples collected were analyzed by Polarized Light Microscopy (PLM) for asbestos fibers.

Asbestos fibers above 1% area (ACM) were identified in six (6) samples collected from blackmastic on HVAC and ceiling tiles. (see selective photos in Apendix V).

Additional suspected materials were observed to be present in the building, outside of the FEMA's cope of work. These materials include VFT 12"x12" with mastic, undersink spray on, boiler insulation. In addition, there is an area on the Southeast side of the building where

roofing material was not sampled as the roof treatment was applied approximatelly two years ago and is under warranty.

6.0 CONCLUSIONS

ACM were detected during a limited survey conducted CDT Adjuntas located on Defendini Street #4, Adjuntas, Puerto Rico, 00601 (Project #:77703, DI#:151659). The investigation is part of FEMA DISASTER 4339DR-PR and 4473DR-PR contract. Results are presented in the summary.

The ACM sampling relates to surfaces accessible and not covered by rigid barriers. Should any materials hidden under surfaces, or architectural components be present, they are to be assumed as ACM.

The ACM survey conducted did not address all suspected ACM present in the building but only materials listed by FEMA under the "FEMA Lead and Asbestos Checklist" and (when available) the Damage Description and Dimension (DDD) document. Consequently negative, or positive findings refer only to the areas and materials tested from selected locations.

Are Cinne

Elme Rivera, DRNA Asbestos Inspector Lic#: ASB-1221-0694-SI

Building	Sample ID	Description	Result (Percentage of Asbestos)
	CDT-A-ER23	Black Mastic on HVAC, Area 1-87	3% CHR
	CDT-A-ER24	Black Mastic on HVAC, Area 1-88	2% CHR
	CDT-A-ER25	Black Mastic on HVAC from Area 1-54	3% CHR
CD1 Adjuntas	CDT-A-ER26	Ceiling Tile 2'x 4' (Transite) from Area 1-54	15% CHR
	CDT-A-ER27	Ceiling Tile 2'x 4' (Transite) from Area 1-55	10% CHR
	CDT-A-ER28	Ceiling Tile 2'x 4' (Transite) from Area 1-59	10% CHR

 Table 1. Summary of Asbestos Containing Materials (ACM) for CDT Adjuntas located in Adjuntas, Puerto Rico.



Appendix I







Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200051-0

AES International

Santurce, PR

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-01-01 through 2022-12-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program

R

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AES International

611 Monserrate Santurce, PR 00907 Mr. Ady Padan Phone: 787-722-0220 Fax: 787-724-5788 Email: yota1@bellsouth.net http://www.aesipr.org

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200051-0

Bulk Asbestos Analysis

<u>Code</u>	Description
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

Asbestos Inspector Credentials

25	TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO Esta tarjeta autoriza a: Elme Rivera Pérez
	Inspector A trabajar en la remoción de asbesto en P.R. Esta persona NO es un empleado
ASB-1221-0694-SI	del DRNA
19-Nov-2022	Firma Autorizada - Departamento
Fecha de vencimiento	Recursos Naturales y Ambientales



Appendix II



FEMA

Federal Emergency Management Agency FEMA-4339-DR-PR

Lead and Asbestos Checklist (428 Projects)

Project #: 77703 DI #: 151659

(1) Does the facility meet one of the following criteria?

	Asbestos	Lead			
X	Building constructed <u>before</u> 1990 and a Construction Permit is triggered based on the below permit checklist	X	Building constructed before 1978 and a Construction Permit is triggered based on the below permit checklist		
\bigcirc	Building constructed before 1990 and project requires a demolition permit	Ο	Building constructed before 1978 and a Demolition permit is required		
0	Applicant has documentation confirming the presence of asbestos Name of attachment:	0	Applicant has documentation confirming presence of lead paint Name of attachment:		
	None This DI does not qualify for asbestos abatement estimating for 428 project		None This DI does not qualify for asbestos abatement estimating for 428 project		

(2) Review DDD to identify suspect materials

Lead								
Suspect Material	Location in the Building (specify the room)	Quantity						
Interior and Exterior Finishes								
Exterior/interior paint								
Ceramic Tile (Wall, Floor)								
Ceramic equipment (Bathtubs, Sinks)								
Metal components (Doors, Windows)								
Fire retardant paint								
Other fire protection materials								
Roads and Bridges								
Road sign paints (Roads, Bridge								
Parapets)								
Traffic paint (Yellow, white, blue, etc.)								
Other								
Explain: Exterior, Full cap metal roof parapet top flashing (siding): 971 LF x 6 Inches x 6 Inches								

	Asbestos	
Suspect Material	Location in the Building (specify the room)	Quantity
Roofing Materials		
Roof and nonroof coatings		
Roofing felt		
Roofing stucco		
Roof panels		
Asphaltic, Bituminous, SBS, Mastic		27,069.00 SF
Sealant, polyolefins		,
Interior and Exterior Finishes		
Vinyl floor tiles		
Vinyl floor tile glue/ adhesives		
Ceiling tiles	Main Floor	32,104.00 SF
Millboard		
Insulation		
Plasters	Building Facade	508 SF
Mastic		
Textured paints (simulated stucco)		
Block filler paints (masonry coating)		
Cement products		
Drywall		
Electrical/HVAC Components		
Duct and return pipeline wrapping	Main Floor	700 SF
Duct and return pipeline wrapping	Building Exterior, Refrigeration lines insulation	100 FT long
Duct and return pipeline wrapping	Building Exterior, 1 each of Exterior ductwork (intake) insulation	52 Feet long X 24 Inch X 24 Inch
Duct and return pipeline wrapping	Building Exterior, Galvanized steel, exterior ventilation ductwork.	55 FT long x 2 FT wide x 2 FT high
Boilers		
Sealants		
Extruded sealant tapes		
High-grade electrical paper		
Insulation for friction parts		
Insulation for furnaces and refrigerators		

4

Glues, Adhesives, Mastic, HVAC Asbestos Sealants	
Other	
Explain:	



Appendix III



ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name	Departamento de Salud de Puerto		Structure: CDT Adjunta			S			
Project Name:	CDT Adjuntas								
Inspection Date:	10/12/2022					Page:	1	of	5
Homoger	neous Material Description	Material	Asbestos	Friability	Location	Asbestos	Total Square	AHERA Assessment	Hazard
I.D. Number	Material Description	Category	Content		of Materials	Contents	Feet of ACM	Category (1-7,X, None)	Ranking (1-7)
CDT-A-ER1	Roof Built-Up from Center East Side	Misc.	No	NF	Roof	ND		Х	
CDT-A-ER2	Roof Flashing from Southeast Side	Misc.	No	NF	Roof	ND		X	
CDT-A-ER3	Roof Built-Up from West Side of Roof	Misc.	No	NF	Roof	ND		X	
CDT-A-ER4	Roof Built-Up from Lower Level, West Side	Misc.	No	NF	Roof	ND		X	
CDT-A-ER5	Roof Flashing from Lower Level, West Side	Misc.	No	NF	Roof	ND		X	
CDT-A-ER6	Roof Flashing from Metal Roof above Patio Area (1-26) next to Health Educator	Misc.	No	NF	Roof	ND		X	
Inspected by:	Elme Rivera						Date:	10/12/2	2022

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM;

4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage;

7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials); None = No assessment category provided in original inspection.

Hazard Ranking Category:

1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name	Departamento de Salud de Puerto	Structure: CDT Adj			CDT Adjunta	S			
Project Name:	CDT Adjuntas				_				
Inspection Date:	10/12/2022					Page:	2	of	5
Homoger	neous Material Description	Material	Asbestos	Friability	Location	Asbestos	Total Square	AHERA Assessment	Hazard
I.D. Number	Material Description	Category	Content		of Materials	Contents	Feet of ACM	Category (1-7,X, None)	Ranking (1-7)
CDT-A-ER7	Sample from Exterior Surface Façade, Area 1-83 (Patio next to Office)	Surf.	No	NF	Exterior Walls	ND		Х	
CDT-A-ER8	Sample from Exterior Surface Façade, North Wall	Surf.	No	NF	Exterior Walls	ND		Х	
CDT-A-ER9	Sample from Exterior Surface Façade, Northwest Wall	Surf.	No	NF	Exterior Walls	ND		Х	
CDT-A-ER10	Sample from Exterior Surface Façade, Southwest Wall	Surf.	No	NF	Exterior Walls	ND		Х	
CDT-A-ER11	Sample from Exterior Surface Façade, Southeast Wall	Surf.	No	NF	Exterior Walls	ND		Х	
CDT-A-ER12	Ceiling Tile 2'x 4' Metal Cover from Area 1-91 (Lavanderia)	Misc.	No	NF	1-89, 1-90, 1-91	ND		Х	
Inspected by:	Elme Rivera						Date:	10/12/2	2022

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM;

4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage;

7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials); None = No assessment category provided in original inspection.

Hazard Ranking Category:

1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name	Departamento de Salud de Puerto	Structure: CDT A			CDT Adjunta	S			
Project Name:	CDT Adjuntas								
Inspection Date:	10/12/2022					Page:	3	of	5
Homoger	neous Material Description	Material	Asbestos	Friability	Location	Asbestos	Total Square	AHERA Assessment	Hazard
I.D. Number	Material Description	Category	Content		of Materials	Contents	Feet of ACM	Category (1-7,X, None)	Ranking (1-7)
CDT-A-ER13	Ceiling Tile 2'x 4' Metal Cover from Area 1-90 (Comedor)	Misc.	No	NF	1-89, 1-90, 1-91	ND		Х	
CDT-A-ER14	Ceiling Tile 2'x 4' Metal Cover from Area 1-89 (Cocina)	Misc.	No	NF	1-89, 1-90, 1-91	ND		Х	
CDT-A-ER15	TSI Pipe 2" from Area 1-88 (Pasillo Salida)	TSI	No	NF	All Building	ND		Х	
CDT-A-ER16	TSI Pipe 2" from Area 1-88 (Pasillo Salida)	TSI	No	NF	All Building	ND		Х	
CDT-A-ER17	TSI Pipe 4" from Area 1-88 (Pasillo Salida)	TSI	No	NF	All Building	ND		Х	
CDT-A-ER18	TSI Pipe 4" from Area 1-87 (Pasillo Entrada Principal, atras)	TSI	No	NF	All Building	ND		Х	
Inspected by:	Elme Rivera						Date:	10/12/2	2022

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM;

4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage;

7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials); None = No assessment category provided in original inspection.

Hazard Ranking Category:

1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name	Departamento de Salud de Puerto	Structure: CDT Ac			CDT Adjunta	S			
Project Name:	CDT Adjuntas								
Inspection Date:	10/12/2022					Page:	4	of	5
Homoger	neous Material Description	Material	Asbestos	Friability	Location	Asbestos	Total Square	AHERA Assessment	Hazard
I.D. Number	Material Description	Category	Content		of Materials	Contents	Feet of ACM	Category (1-7,X, None)	Ranking (1-7)
CDT-A-ER19	Elbow Pipe 4" from Area 1-87 (Pasillo Entrada Principal atras)	TSI	No	NF	All Building	ND		Х	
CDT-A-ER20	Ceiling Tile 2'x 4' from Area 1-69 (Pasillo Entrada Principal frente)	Misc.	No	NF	All Building	ND		X	
CDT-A-ER21	Ceiling Tile 2'x 4' from Area 1-45 (Lab next to AC Mech Room)	Misc.	No	NF	All Building	ND		X	
CDT-A-ER22	Ceiling Tile 2'x 4' from Area 1-12 (Sub Waiting)	Misc.	No	NF	All Building	ND		X	
CDT-A-ER23	Black Mastic on HVAC, Area 1-87 (Pasillo Entrada Principal atras)	Misc.	Yes	NF	All Building	3% CHR		X	
CDT-A-ER24	Black Mastic on HVAC, Area 1-88 (Pasillo Salida)	Misc.	Yes	NF	All Building	2% CHR		X	
Inspected by:	Elme Rivera						Date:	10/12/2	2022

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM;

4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage;

7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials); None = No assessment category provided in original inspection.

Hazard Ranking Category:

1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name	Departamento de Salud de Puerto Rico Structure:							CDT Adjuntas		
Project Name:	CDT Adjuntas									
Inspection Date:	10/12/2022			Page:	5	of	5			
Homoger	neous Material Description	Material	Asbestos	Friability	Location	Asbestos	Total Square	AHERA Assessment	Hazard	
I.D. Number	Material Description	Category	Content		of Materials	Contents	Feet of ACM	Category (1-7,X, None)	Ranking (1-7)	
CDT-A-ER25	Black Mastic on HVAC from Area 1- 54 (Hallway next to Sterile Supply Room)	Misc.	Yes	NF	All Building	3% CHR		Х		
CDT-A-ER26	Ceiling Tile 2'x 4' (Transite) from Area 1-54 (Hallway next to Sterile Supply Room)	Misc.	Yes	NF	1-54, 55, 56, 57, 58, 59, 60	15% CHR		X		
CDT-A-ER27	Ceiling Tile 2'x 4' (Transite) from Area 1-55 (Clean Up Facilities)	Misc.	Yes	NF	1-54, 55, 56, 57, 58, 59, 60	10% CHR		Х		
CDT-A-ER28	Ceiling Tile 2'x 4' (Transite) from Area 1-59 (Cirugia Menor)	Misc.	Yes	NF	1-54, 55, 56, 57, 58, 59, 60	10% CHR		X		
CDT-A-ER29	Fiber Glass Ceiling Tile 2'x 4' from Area 1-61 (Nurses Lockers Room)	Misc.	No	NF		ND		X		
There are other 1	naterials not mentioned that need to be ceiling (stucco), boiler. Note: there is	sampled: V an area on t	FT 12"x 12 the Southea	" with masti st side of Ro	c, under sink spra oof covered with n	iy on, counter a new treatment,	tops, window done 2 years	caulking and ago.	spray on	
Inspected by:	Elme Rivera						Date:	10/12/2	2022	

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

 AHERA Assessment Category:
 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM;

 4 = Damaged or significantly damaged friable miscellaneous ACBM;
 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage;

 7 = Any remaining friable ACBM or friable suspected ACBM;
 X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

 None = No assessment category provided in original inspection.
 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

 5 = Potential for significant damage;
 6 = Potential for damage; 7 = All remaining ACBM

 \ast - Unless Specified, the Asbestos Type is Chrysotile; $\,$ ND - None Detected $\,$



Appendix IV





611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788



Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departamento de Salud de Puerto Rico	Date Collected:	10/12/2022
Project Name:	CDT Adjuntas	Date Received:	10/13/2022
Project ID:			

Lab Sample ID Client Sample ID	Sample Description	Asbestos Asbestos Detected Fibers	Other Fibers	Non - Fibrous Material
B22100019.01 B22100019.01.A CDT-A-ER1 Layer % of Total :100%	Semi-Hard, Bituminous with Aggregates Other - Fibers and Paint Black	No	Cellulose 5	Bitumen 65 Sand/Aggregates 10 Binders/Paint 20
Date Analyzed: 10/13/2022				
Sample Location: Roof Bu Comments: Paint Included as Binders	ilt-Up from Center East Side			
B22100019.02 B22100019.02.A CDT-A-ER2 Layer % of Total :100%	Seml-Hard, Glue with Aggregates Other - Fibers and Paint Pink	Νο	Cellulose 2 Synthetic 5	Sand/Aggregates 15 Glue 58 Binders/Paint 20
Date Analyzed: 10/13/2022				
Sample Location: Roof Fla Comments: Paint Included as Binders	shing from Southeast Side			
B22100019.03 B22100019.03.A CDT-A-ER3 Layer % of Total :100%	Semi-Hard, Glue with Aggregates Other - Black Mastic and Paint Pink	No	Cellulose 2 Synthetic 8	Bitumen 15 Sand/Aggregates 25 Glue 30 Binders/Paint 20
Date Analyzed: 10/13/2022				
Sample Location: Roof Bui Comments: Paint Included as Binders	ilt-Up from West Side of Roof			

MICROANALYST:

[Dessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788



Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departamento de Salud de Puerto Rico CDT Adjuntas		Date Collected:	10/12/2022 10/13/2022		
Project Name:			Date Received:			
Project ID:						
		RESULT OF ANAL	YSIS (BY %	6 AREA VISUAL	ESTIMATE)	
Lab S Client Sample ID	ample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B22100019.04 B22100019.04.A CDT-A-ER4 Layer % of Total ::	100%	Semi-Hard, Bituminous with Aggregates, Fibers Other - Paint and Glue Black	No		Cellulose 5 Synthetic 3	Bitumen 72 Sand/Aggregates 10 Glue 5 Binders/Paint 5
Date Analyzed: 10	/13/2022	,				
Sample Location: Comments:	Roof Bui	lt-Up from Lower Level, West	Side			
	Binders	Comi Lloyd, Diturnin and with	61-			DH 40
322100019.05.A 322100019.05.A CDT-A-ER5		Semi-Hard, Bituminous with Aggregates, Fibers Other - Paint and Glue Black	NO		Cellulose 3 Synthetic 2	Bitumen 60 Sand/Aggregates 15 Glue 10 Binders/Daint 10
ayer % of Total ::	100%	DIGCK				Dinders/Faint 10
Date Analyzed: 10	/13/2022					
Sample Location:	Roof Flas	shing from Lower Level, West S	Side			
Comments: Paint Included as	Binders					
322100019.06 322100019.06.A CDT-A-ER6 Layer % of Total :1	100%	Semi-Hard, Bituminous with Aggregates Other - Fibers and Paint Black	No		Cellulose 3 Glass Fibers 10	Bitumen 47 Sand/Aggregates 10 Binders/Paint 30
Date Analyzed: 10	/13/2022					
ample Location: comments: raint Included as	Roof Flas Binders	hing from Metal Roof above Pa	atio Area (1-	26)		

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788



Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

	Departam	ento de Salud de Puerto Rico		Date Collected:	10/12/2022	
Project Name:	CDT Adjuntas			Date Received:	10/13/2022	
Project ID:						
		RESULT OF AN	ALYSIS (BY	& AREA VISUAL	ESTIMATE)	
Lab Sar Client Sample ID	mple ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B22100019.07 B22100019.07.A CDT-A-ER7		Semi-Hard, Paint with Aggregates and Fibers Blue	No		Cellulose 2	Sand/Aggregates 15 Binders/Paint 83
ayer % of Total :10	00%					
Date Analyzed: 10/1	13/2022					
Sample Location:	Sample fro	om Exterior Surface Façade,	Area 1-83			
Comments: Paint Included as I	Binders					
322100019.08		Semi-Hard, Paint with	No		Cellulose 2	Sand/Aggregates 30
322100019.08.A		Aggregates and Fibers Blue				Binders/Paint 68
DT-A-ER8						
ayer % of Total :10	10%					
Date Analyzed: 10/1	13/2022					
Sample Location: Comments: Paint Included as E	Sample fro Binders	om Exterior Surface Façade,	North Wall			
22100019.09 22100019.09.A CDT-A-ER9		Semi-Hard, Paint with Aggregates and Fibers Blue	No		Cellulose 2	Sand/Aggregates 35 Binders/Paint 63
ayer % of Total :10	0%					
Date Analyzed: 10/1	3/2022					
ample Location:	Sample fro	om Exterior Surface Façade,	Northwest Wa	all		

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788



Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departamento de Salud de Puerto Rico			Date Collected:	10/12/2022 10/13/2022	
Project Name:	CDT Adju	CDT Adjuntas		Date Received:		
Project ID:						
		RESULT OF ANAL	YSIS (BY %	6 AREA VISUAL	ESTIMATE)	
Lab Sa Client Sample ID	ample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B22100019.10 322100019.10.A CDT-A-ER10 Layer % of Total :1	100%	Semi-Hard, Paint with Aggregates and Fibers Blue	No		Cellulose 3	Sand/Aggregates 35 Binders/Paint 62
Date Analyzed: 10,	/13/2022					
Sample Location:	Sample f	rom Exterior Surface Façade, So	outhwest Wa	all		
Comments: Paint Included as	Binders					
B22100019.11.A B22100019.11.A CDT-A-ER11 Layer % of Total :1	.00%	Semi-Hard, Paint with Aggregates and Fibers Blue	No		Cellulose 2	Sand/Aggregates 35 Binders/Paint 63
Date Analyzed: 10	/13/2022					
Sample Location: Comments: Paint Included as	Sample fi Binders	rom Exterior Surface Façade, Sc	outheast Wa	11		
322100019.12 322100019.12.A CDT-A-ER12 .ayer % of Total :1	00%	Semi-Hard, Silty to Fibrous to Perlitic with Other - Expanded Glass and Paint Lt. Gray	No		Cellulose 25 Glass Fibers 10 Mineral Wool 5	Perlite 30 Expanded Glass 20 Binders/Paint 10
Date Analyzed: 10/	/13/2022					
Comments: Paint Included as	Ceiling T Binders	ile 2'x 4' Metal Cover from Area	a 1-91		0	

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788



Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departan	Departamento de Salud de Puerto Rico		Date Collected:	10/12/2022	
Project Name:	CDT Adju	CDT Adjuntas		Date Received:	10/13/2022	
Project ID:						
		RESULT OF ANAL	YSIS (BY 9	% AREA VISUAL	ESTIMATE)	
Lab S Client Sample ID	ample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
322100019.13 322100019.13.A CDT-A-ER13 .ayer % of Total ::	100%	Semi-Hard, Silty to Fibrous to Perlite with Other - Expanded Glass and Paint Lt. Gray	No		Cellulose 20 Glass Fibers 10 Mineral Wool 5	Perlite 35 Expanded Glass 20 Binders/Paint 10
Date Analyzed: 10	/13/2022					
Sample Location: Comments: Paint Included as	Ceiling T Binders	ile 2'x 4' Metal Cover from Area	a 1-90			
322100019.14.A 322100019.14.A CDT-A-ER14 Layer % of Total :1	100%	Semi-Hard, Silty to Fibrous to Perlitic with Other - Expanded Glass and Paint Lt. Gray	No		Cellulose 25 Glass Fibers 10 Mineral Wool 5	Perlite 35 Expanded Glass 20 Binders/Paint 5
Date Analyzed: 10	/13/2022					
ample Location: comments: Paint Included as	Ceiling T Binders	ile 2'x 4' Metal Cover from Area	a 1-89			
322100019.15 322100019.15.A 2DT-A-ER15 ayer % of Total :1	.00%	Semi-Hard, Fibrous with Aluminum Other - Paint and Glue Yellow	No		Cellulose 5 Glass Fibers 65	AlumInum 10 Glue 5 Binders/Paint 15
Date Analyzed: 10,	/13/2022					
ample Location: comments: caint Included as	TSI Pipe 2 Binders	2" from Area 1-88				

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



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Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departam	iento de Salud de Puerto Rico		Date Collected:	10/12/2022		
Project Name:	CDT Adjuntas			Date Received:	10/13/2022		
Project ID:							
		RESULT OF AN	ALYSIS (BY	% AREA VISUAL	ESTIMATE)		
Lab S Client Sample ID	ample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material	
B22100019.16 B22100019.16.A CDT-A-ER16 Layer % of Total ::	100%	Semi-Hard, Fibrous with Aluminum Other - Paint and Fibers Yellow	No		Cellulose 2 Glass Fibers 78	Aluminum 5 Glue 5 Binders/Paint 10	
Date Analyzed: 10	/13/2022						
Sample Location: Comments: Paint Included as	TSI Pipe	2" from Area 1-88			9		
B22100019.17 B22100019.17.A CDT-A-ER17 Layer % of Total :1	100%	Semi-Hard, Fibrous with Aluminum Other - Paint and Glue Yellow	No		Cellulose 3 Glass Fibers 77	Aluminum 5 Glue 5 Binders/Paint 10	
Date Analyzed: 10,	/13/2022						
Sample Location: Comments: Paint Included as	TSI Pipe	4" from Area 1-88					
322100019.18 322100019.18.A CDT-A-ER18 Layer % of Total :1	.00%	Semi-Hard, Fibrous with Aluminum Other - Paint and Glue Yellow	No		Cellulose 2 Glass Fibers 70	Aluminum 10 Glue 8 Binders/Paint 10	
Date Analyzed: 10/	/13/2022						
Sample Location: Comments: Paint Included as	TSI Pipe 4 Binders	4" from Area 1-87					

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



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Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departam	iento de Salud de Puerto Rico		Date Collected:	10/12/2022		
Project Name:	CDT Adjuntas			Date Received:	10/13/2022		
Project ID:							
		RESULT OF ANAL	YSIS (BY %	% AREA VISUAL	ESTIMATE)		
Lab S Client Sample ID	ample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material	
322100019.19 322100019.19.A CDT-A-ER19 ayer % of Total ::	100%	Semi-Hard, Fibrous with Aluminum Other - Paint and Glue Yellow	No		Cellulose 5 Glass Fibers 80	Aluminum 5 Glue 5 Binders/Paint 5	
Date Analyzed: 10	/13/2022						
Sample Location: Comments: Paint Included as	Elbow Pip Binders	pe 4" from Area 1-87					
322100019.20.A 322100019.20.A CDT-A-ER20 .ayer % of Total :1	100%	Semi-Hard, Silty to Fibrous to Perlític with Other - Expanded Glass and Paint Lt. Gray	No		Cellulose 20 Glass Fibers 10 Mineral Wool 5	Perlite 35 Expanded Glass 20 Binders/Paint 10	
Date Analyzed: 10	/13/2022						
ample Location: Comments: Paint Included as	Ceiling Ti Binders	ile 2'x 4' from Area 1-69					
2 22100019.21 22100019.21.A 2DT-A-ER21 ayer % of Total :1	.00%	Semi-Hard, Silty to Fibrous to Perlitic with Other - Expanded Glass and Paint Lt. Gray	No		Cellulose 30 Glass Fibers 13 Mineral Wool 2	Perlite 35 Expanded Glass 15 Binders/Paint 5	
Date Analyzed: 10,	/13/2022						
ample Location: omments: aint Included as	Ceiling Ti Binders	le 2'x 4' from Area 1-45					

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



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Job ID: B22100019

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departan	nento de Salud de Puerto Rico		Date Collected: Date Received:	10/12/2022 10/13/2022		
Project Name:	CDT Adju	intas					
Project ID:							
		RESULT OF ANAL	YSIS (BY 🤋	% AREA VISUAL	ESTIMATE)		
Lab S Client Sample ID	Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material	
B22100019.22 B22100019.22.A CDT-A-ER22 Layer % of Total :	100%	Semi-Hard, Silty to Fibrous to Perlitic with Other - Expanded Glass and Paint Lt. Gray	No		Cellulose 20 Glass Fibers 10 Mineral Wool 5	Perlite 35 Expanded Glass 15 Binders/Paint 15	
Date Analyzed: 10)/13/2022						
Sample Location:	Ceiling T	'ile 2'x 4' from Area 1-12					
Comments: Paint Included a:	s Binders						
B22100019.23		Semi-Hard, Bituminous with	Yes	Chrysotile 3	Cellulose 15	Aluminum 15	
322100019.23.A		Aluminum Other - and Fibers			Glass Fibers 20	Bitumen 47	
CDT-A-ER23		Black					
ayer % of Total :	100%						
Date Analyzed: 10)/13/2022						
Sample Location:	Black Ma	stic on HVAC, Area 1-87					
Comments: Asbestos Found	in Bitumen			27			
322100019.24		Semi-Hard, Bituminous with	Yes	Chrysotile 2	Cellulose 25	Aluminum 25	
22100019.24.A					Glass Fibers 10	Bitumen 38	
DT-A-ER24		Black					
ayer % of Total :	100%	2					
Date Analyzed: 10	/13/2022						
Sample Location:	Black Ma	stic on HVAC, Area 1-88					

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



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REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departamento de Salud de Puerto Rico			Date Collected:	10/12/2022	
Project Name:	CDT Adjur	ntas		Date Received:	10/13/2022	
Project ID:						
		RESULT OF ANALY	SIS (BY 🤋	% AREA VISUAL	ESTIMATE)	
Lab S Client Sample ID	ample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
22100019.25 22100019.25.A DT-A-ER25 ayer % of Total ::	100%	Semi-Hard, Fibrous with Aluminum Other - and Black Mastic Pink	Yes	Chrysotile 3	Cellulose 20 Glass Fibers 30	Aluminum 15 Bitumen 32
ate Analyzed: 10)/13/2022					
ample Location: Comments: Asbestos Found :	Black Mas in Bitumen	stic on HVAC from Area 1-54				
22100019.26 22100019.26.A DT-A-ER26 ayer % of Total ::	100%	Hard, Compact with Aggregates, Fibers Other - and Paint Lt. Gray	Yes	Chrysotile 15		Sand/Aggregates 25 Binders/Paint 60
ate Analyzed: 10	/13/2022					8
ample Location: omments: aint Included as	Ceiling Ti Binders	le 2'x 4' (Transite) from Area 1-:	54	£		
22100019.27 22100019.27.A DT-A-ER27 ayer % of Total :1	100%	Hard, Compact with Aggregates, Fibers Other - and Paint Lt. Gray	Yes	Chrysotile 10		Sand/Aggregates 25 Binders/Paint 65
Date Analyzed: 10	/13/2022					
ample Location: omments: aint Included as	Ceiling Ti Binders	le 2'x 4' (Transite) from Area 1-5	55			

MICROANALYST:

Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]



611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B22100019

NVLAP LAB CODE 200051 0 TESTING

REPORT NUMBER

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Departamento de Salud de Puerto Rico	Date Collected:	10/12/2022	
Project Name:	CDT Adjuntas	Date Received:	10/13/2022	
Project ID:				
	RESULT OF ANALYSI	S (BY % AREA VISUAL	ESTIMATE)	

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B22100019.28 B22100019.28.A CDT-A-ER28 Layer % of Total :100%	Hard, Compact with Aggregates, Fibers Other - and Paint Lt. Gray	Yes	Chrysotile 10		Sand/Aggregates 25 Binders/Paint 65
Date Analyzed: 10/13/2022					
Sample Location: Ceiling T	ile 2'x 4' (Transite) from Area 1-:	59			
Comments: Paint Included as Binders					
B22100019.29 B22100019.29.A CDT-A-ER29 Layer % of Total :100%	Soft, Fibrous With Paint Yellow	No		Glass Fibers 95	Binders/Paint 5
Date Analyzed: 10/13/2022					
Sample Location: Fiber Gla	ss Ceiling Tile 2'x 4' from Area 1	-61			
Comments: Paint Included as Binders					
Comments:					

For all heterogeneous and layered samples easily separated into sublayers, each component is analyzed and reported separately.

Samples are analyzed by PLM using dispersion staining techniques in accordance with US EPA methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.

MICROANALYST:

[Jessica Garcia]

QUALITY CONTROL:

[Elme Rivera]

611 Monserrate, 2nd. Floor, Santurce, P.R. 00907

NVLAP LAB CODE 200051-0

Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Bulk Sample Analysis

Client Name:	Departamento de Salud de Puerto Rico
Address:	
Contact:	
Phone/Fax:	

Project Name:	CDT Adjuntas
Site Location:	Adjuntas, Puerto Rico
Samplers Name	Elme Rivera
Company:	AESI

Chain of Custody Record

Samula L D	Sample Description	Collected		Analysis Required		Comments	Laboratory I.D.		
Sample I. D.	(i.e. Location, Name, etc.)	Date	Time	PLM	Other	Comments	Laboratory I.D.		
AT-A-GAI	Scotlered Albertymeit	(alists)		\checkmark			192100019		
, 2				/			·UZ		
3				\checkmark			.03		
У				\checkmark			.01		
5							· Vř		
6							.04		
7				\checkmark			ى.		
8				/			<i>F</i> U·		
9							.09		
10							.ID		
11									
12		1			/		.12		
COTA-ORB	See Hard Aleryant	10/2/12					.13		
	Turnaround Time: Normal: Rush:								
Relinquished	Relinquished By: the the		Delivered Directly to Lab: Shipped:						
Date/ Time: I Old Int / 1/1/10/10/10/10/10/10/10/10/10/10/10/10/		Method o	f Shipm	ent:					
Date/Time: // 10/13/22 7:30 Relinquished By: Date/Time:		Lab. Reci	pient:		*、	Job ID:B2	2100019		
Received By: Date/ Time:		Date:			Dep	artamento de Sal	ud de Puerto Rico		

COC-BULK-011/REV 3/18

611 Monserrate, 2nd. Floor, Santurce, P.R. 00907

NVLAP LAB CODE 200051-0

Ph: (787) 722-0220 Fax: (787) 724-5788

Transmittal Sheet for Bulk Sample Analysis

Client Name:	Departamento de Salud de Puerto Rico
Address:	
Contact:	
Phone/Fax:	

Project Name:	CDT Adjuntas					
Site Location:	Adjuntas, Puerto Rico					
Samplers Name:	Elme Rivera					
Company:	AESI					

Chain of Custody Record

Sample I. D.	Sample Description	Collected		Analysis Required		Comments	Laboratory I D	
Sample 1. D.	(i.e. Location, Name, etc.)	Date	Time	PLM	Other	Comments	Laboratory 1.D.	
C157-A. BAUY	See Hazel Adugent	Ichistos	t.	/			D22100019	
15				~			.15	
14				~			•16	
10				\checkmark	-		.17	
18				\sim	-		· N	
19				~			.19	
20				V			.20	
H				\sim			•21	
33				~	-		.12	
23				N	-		.23	
24				\sim			•21	
1 25				\sim			.25	
COT.A.EROV	See Hard Asym	colistor	-				.24	
	Turnaround Time:	Normal:	-X-]	Rush:			
Relinquished	Relinquished By:		Directly	to Lab:		Shipped:]	
Received By:		Method o	fShinm	ent:				
Date/ Time: 1/13/22 7/30			*. Joh ID: R22100010					
Relinquished By:]Lab. Reci						
Date/ Time:		_						
Received By:		Date: Departamento de Salud de Puerto Rico					de Puerto Rico	
Date/ Time:								

COC-BULK-011/REV 3/18

611 Monserrate, 2nd. Floor, Santurce, P.R. 00907

NVLAP LAB CODE 200051-0 TESTING

Ph: (787) 722-0220 Fax: (787) 724-5788

Received By:

Date/ Time:

Transmittal Sheet for Bulk Sample Analysis

Client Name:	Departamento de Salud de Puerto Rico
Address:	
Contact: Phone/Fax:	

Project Name:	CDT Adjuntas
Site Location:	Adjuntas, Puerto Rico
Samplers Name:	Elme Rivera
Company:	AESI

Chain of Custody Record

Samela L D	Sample Description	Collected		Analysis Required		Gamma		
Sample I. D.	(i.e. Location, Name, etc.)	Date	Time	PLM	Other	Comments	Laboratory I.D.	
(DTA 42)	See Hard Albert	idalo		V			B22100019 ·27	
CUTHA-DE28	1	1		~			•23	
COT-AD129	See Hard Assist	Iolifor					.29	
					-			
	*							
	Turnaround Time:	Normal:	X		Rush:	~	L	
Relinquished B	Delivered	Directly	to Lab:		Shipped:			
Received By:		Method of	f Shipme	ent:	_			
Date/Time: 10/13/22 7:30			• •		*Job ID:B22100019			
Reinquished By: Date/ Time:		Lab. Recipient:			All 100 0 100 and 100 and 100 and 100 and 100			

Date:

COC-BULK-011/REV 3/18

Departamento de Salud de Puerto Rico



Appendix V



Selective Photos



General View of CDT Adjuntas Dr. Defendini Street, #4 Adjunts, Puerto Rico

General View of CDT Adjuntas Dr. Defendini Street, #4 Adjunts, Puerto Rico

Typical Asbestos Containing Black Mastic on HVAC

Selective Photos



Typical Asbestos Containing Black Mastic on HVAC

Typical Asbestos Containing Ceiling Tiles 2''x 4' (Transite)

Typical Asbestos Containing Ceiling Tiles 2''x 4' (Transite)