



ASBESTOS CONTAINING BUILDING MATERIALS
INSPECTION REPORT

FOR

PUERTO RICO DEPARTMENT OF HEALTH

SAMPLING CONDUCTED AT
RAMÓN RUIZ ARNAU UNIVERSITY HOSPITAL
2ND LEVEL WARD B & DELIVERY ROOMS
BAYAMÓN, PR

ZEM-21291

JUNE, 2022

PREPARED BY:
ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
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SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

An Asbestos Containing Building Materials (ACBM) Inspection was conducted on December 16, 2021 and December 21, 2021 at 2nd level Ward B & 2nd level Delivery Rooms of the Hospital Universitario Ramón Ruiz Arnau (HURRA) located in Bayamón, Puerto Rico. The asbestos containing building materials sampling was performed to identify materials that contains asbestos fibers above allowable levels and to assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted of the total evaluation of the aforementioned areas. The evaluation found that asbestos fibers were present at selective materials. For specific locations and additional details on the location of ACBM reference Sections 2 and 3. If suspected components and surfaces that were not previously evaluated are identified in the facilities they shall be considered as containing asbestos until the appropriate analysis is performed.

1.3 PROPERTY LOCATIONS OF BUILDING COMPONENTS WITH ASBESTOS

Table 1-1 summarizes the projects components containing asbestos fibers. Details that identify positive asbestos findings within specific areas and on surfaces were provided in the Asbestos Sampling inspection report, Section 2. The quantification of positives materials presented in Table 1-1 is only an estimate. If an abatement of the materials will be conducted the Contractors shall estimate the amount of materials to be abated. If homogeneous materials that were not accounted for are identified in areas that are not described they shall be managed as asbestos containing material.

Table 1-1: Summary of Building Components Containing Asbestos		
Location (Area)	Component	Amount (Approx.)
Ward B	A/C Duct Mastics	1,000 ln ft
	Under sink Mastics	21 Units
	Floor Covering	8,000 ft ²
	Vinyl Floor Tiles & Associated Mastics	
	Mastic on TSI Elbow & Joints	75 ln ft
	Window Caulking	Undetermined
Delivery Rooms	A/C Duct Mastics	600 ln ft
	Under sink Mastics	17 units
	Gray Floor Covering	1,150 ft ²
	Cream Vinyl Floor Tiles & Associated Mastics	290 ft ²

1. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted, the Contractors shall estimate the amount of materials to be abated.

SECTION 2: ASBESTOS CONTAINING BUILDING MATERIALS INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This ACBM inspection is an evaluation to identify the location of material containing asbestos that exist within. Our scope of work services for this project consisted of the following tasks.

- A walk-through and observation of the site was performed.
- Bulk sampling of Suspected ACBM within the structure.
- Polarized Light Microscopy (PLM) Analysis of bulk samples.
- Final Inspection Report.

Throughout the inspection the following suspected ACBM were observed and sampled:

- A/C Duct Mastics
- Baseboard Adhesive
- Ceiling Plaster
- Ceiling Tile
- Floor Coverings
- Mastic on TSI Elbow, Joint & Pipeline
- Under sink Mastic
- Vinyl Floor Tiles & Mastic
- Window Caulking

The sampling was conducted by the Department of Natural and Environmental Resources (DRNA) of Puerto Rico and United States Environmental Protection Agency (USEPA) accredited Inspectors qualified by experience, education and training in the recognition of potential ACBM and approved bulk sampling techniques. Some areas may not have been directly accessible due to the physical hazards encountered within. In these areas, if any, assumptions based on findings in other areas were made whenever possible. These assumptions, if any, are duly noted as such in this report.

The inspection was performed in accordance with Environmental Protection Agency recommended procedures found in EPA-450/2-78-014 (Parts I and II), EPA 560/5-85-024, and 40 CFR 763. These procedures call for the visual inspection of the building for suspect friable material and collection and analysis of representative samples of suspect material.

2.2 SAMPLING PROCEDURE AND RESULTS PRESENTATION

The bulk sampling procedures utilized for the collection of the ACBM, required the establishment of homogeneous sampling areas. A homogeneous sampling area is defined as an area of friable or non-friable material of similar type that appears to be applied or constructed during the same time period.

Samples collected from these predetermined homogeneous sampling areas were labeled and transported for analysis. Sample locations were identified by their current use or functional space name. Each type of asbestos displays a unique property when subject to PLM. Properties are unique to crystalline asbestos form and; therefore, can be used to identify the type of asbestos mineral as chrysotile, amosite, crocidolite, anthophyllite, tremolite and actinolite.

Percentage of each asbestos mineral type is determined by visual estimation, by mixing the sample thoroughly to provide a more accurate percentage. Any material containing over one percentage (>1%) by weight of any type of asbestos mineral forms is considered by the USEPA to be asbestos containing material; and if disturbed, it must be handled according to specific State and Federal Regulations.

Ninety-six (96) samples of suspected materials were collected. It is our opinion that an acceptable minimum number of critical areas were sampled in keeping with the homogeneous nature of much of the material that was observed. Non-destructive sampling techniques were used. If they exist, walls, ceilings, columns and other inaccessible areas were not broken into. It should be noted that these inaccessible areas may contain ACBM which was not observed during the inspection. Any future construction or renovation should anticipate the presence of these materials.

The samples were received and analyzed by Analytical Environmental Services, Inc. in Atlanta GA (Certified Proficient by the National Institute of Science and Technology NVLAP program for bulk sample asbestos analysis; Laboratory Id 102082-0). The method of analysis was polarized light microscopy with dispersion staining, as recommended by the US EPA. This survey focused on the building materials, which are present throughout the interior and exterior of the building structure.

2.3 FINDINGS AND RECOMMENDATIONS

2.3.1 INTRODUCTION

This section describes the asbestos containing building materials (ACBM), which were observed in the inspection. Please note that the recommendations given are always the minimum action, which in our professional judgment should be taken.

There were five types of Asbestos Containing Building Materials found within the evaluated project:

- A/C Duct Mastics
- Floor Covering
- Mastic on TSI Elbow & Joints
- Under Sink Mastics
- Vinyl Floor Tile & Mastics
- Window Caulking

If these materials are to be removed, they should be managed and disposed by a licensed asbestos contractor and disposed of as contaminated waste in an approved asbestos landfill site.

2.3.2 SPECIFIC FINDINGS

The following ACBM were found to contain more than one percent (1%) of asbestos by weight and are listed according to their homogeneous area:

- 1. A/C Duct Mastic Samples:** 21291-184, 21291-185, 21291-187, 21291-200, 21291-221, 21291-222, 21291-226, 21291-229, 21291-252 and 21291-254.

These materials are in a non-friable condition and the analytical result was 5% Chrysotile asbestos.

- 2. Vinyl Floor Tiles & Mastic Samples:** 21291-169, 21291-170, 21291-171, 21291-172, 21291-173, 21291-174, 21291-176, 21291-181, 21291-183, 21291-192, 21291-193, 21291-198, 21291-199, 21291-258 and 21291-259.

These materials are in a non-friable condition and the analytical result ranged between 2% and 5% Chrysotile asbestos.

- 3. Under Sink Mastic Samples:** 21291-189, 21291-190, 21291-191, 21291-213, 21291-214 and 21291-215.

These materials are in a non-friable condition and the analytical result was 3% Chrysotile asbestos.

- 4. Floor Covering Samples:** 21291-164, 21291-165, 21291-166, 21291-167, 21291-168, 21291-194, 21291-197 and 21291-243.

These materials are in a non-friable condition and the analytical result range between 2% to 3% Chrysotile asbestos.

- 5. Window Caulking Samples:** 21291-210, 21291-211 and 21291-212.

These materials are in a non-friable condition and the analytical result was 2% Chrysotile asbestos.

- 6. Mastic on TSI Elbow:** 21291-201, 21291-204, 21291-206, 21291-208

These materials are in a non-friable condition and the analytical result was 5% Chrysotile asbestos.

- 7. Mastic on TSI Joint:** 21291-202

These materials are in a non-friable condition and the analytical result was 5% Chrysotile asbestos.

2.3.3 HOMOGENEOUS AREAS WITH SPECIAL CONSIDERATIONS

NONE

2.3.4 SUSPECT MATERIALS PRESUMED TO BE ASBESTOS-CONTAINING MATERIALS WITHOUT LABORATORY ANALYSIS

NONE

2.3.5 INACCESSIBLE AREAS

Areas 2-17, 2-31, 2-32, 2-39, 2-40, 2-120, 2-119 & 2-122.

2.4 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this project on the dates of the evaluation. If suspected materials are identified they shall be managed as containing asbestos until the appropriated laboratory analysis is performed.

The quantification of positives materials presented in the table 1-1 is only an estimate. If an abatement of the materials will be conducted the Contractors shall estimate the amount of the materials to be abated. The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner and occupants. The results and opinions in this report, based solely on the conditions found at the project on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential asbestos hazards at this project beyond the date of the project evaluation.

2.5 ABATEMENT CONDITIONS

The US Environmental Protection Agency rules concerning the application, removal, and disposal of Asbestos Containing Building Materials (ACBM) were issued under the asbestos NESHAP (U.S. EPA National Emission Standards of Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos **N.E.S.H.A.P.** regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACBM removed before a building is demolished, and may require its removal before a renovation. The Department of Natural and Environmental Resources (DRNA) of Puerto Rico requires inspecting the presence of Asbestos Containing Materials prior to buildings demolitions.

If the identified materials are to be removed, they should be managed following the work practices and procedures for the removal and disposal of asbestos containing materials by a licensed asbestos contractor and disposed of as contaminated waste in as approved asbestos landfill site. The Contractor shall comply with all the Department of Natural and Environmental Resources (DRNA) of Puerto Rico requirements. The Contractor has to submit to the DRNA the abatement work plan for its approval. The asbestos abatement is classified Class II for the miscellaneous materials by OSHA, which includes the abatement, packing and storage of asbestos. The abatement has to be performed without damaging any structure or adjacent area and protecting the safety and health of the employees and the general public.

2.6 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The ACBM inspection was performed on December 16, 2021 and December 21, 2021 by Harry Peña, ASB-0222-0046-SI and Ramon Rosado, ASB-1121-0598-SI, qualified by experience, education and training in the recognition of asbestos containing materials and approved sampling techniques.



Harry Peña Ruiz, MSEM
Environmental Consultant

SECTION 3: APPENDICES

Appendix A: Certifications, Licenses and Accreditations

Appendix B: Project Photographs

Appendix C: Laboratory Results & Chain of Custody

Appendix D: Location of Positive Materials

APPENDIX A: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS



TARJETA DE REGISTRO
LA REMOCION PARA DE ASBESTO

Esta tarjeta autoriza a:

Harry Peña Ruiz

Inspector

A trabajar en la remoción de asbesto en Puerto Rico. Esta persona **NO** es un empleado del DRNA.

Signature

Firma Autorizada - Departamento Recursos Naturales y Ambientales

ASB-0222-0046-SI
Número de Registro

7-Feb-2023
Fecha de vencimiento



TARJETA DE REGISTRO
LA REMOCION PARA DE ASBESTO

Esta tarjeta autoriza a:

Ramón Rosado Izquierdo

Inspector

A trabajar en la remoción de asbesto en Puerto Rico. Esta persona **NO** es un empleado del DRNA.

Signature

Firma Autorizada - Departamento Recursos Naturales y Ambientales

ASB-1121-0598-SI
Número de Registro

2-Nov-2022
Fecha de vencimiento

APPENDIX B: PHOTOGRAPHS



Ward B
Asbestos-containing floor covering.



Ward B
Asbestos-containing brown vinyl tiles
(12x12) & associated mastic.



Ward B
Asbestos-containing cream vinyl tiles
(12x12) & associated mastic.

APPENDIX B: PHOTOGRAPHS



Ward B
Asbestos-containing cream vinyl tiles
(12x12) & associated mastic.



Ward B
Asbestos-containing light cream vinyl tiles
(12x12) & associated mastic.



Ward B
Asbestos-containing white vinyl tiles
(12x12) & associated mastic.

APPENDIX B: PHOTOGRAPHS



Ward B
Asbestos-containing under sink mastic.



Ward B
Asbestos-containing cream vinyl tiles
(12x12) & associated mastic.



Ward B
Asbestos-containing green vinyl tiles
(12x12) & associated mastic.

APPENDIX B: PHOTOGRAPHS



Ward B
Asbestos-containing floor covering.



Ward B
Asbestos-containing light cream vinyl tiles
(12x12) & associated mastic.



Ward B
Asbestos-containing A/C duct mastic.

APPENDIX B: PHOTOGRAPHS



Ward B
Asbestos-containing A/C duct mastic.



Ward B
Asbestos-containing A/C duct mastic.



Ward B
Asbestos-containing under sink mastic.

APPENDIX B: PHOTOGRAPHS



Delivery Room Areas
Asbestos-containing gray floor covering.



Delivery Room Areas
Asbestos-containing cream vinyl tiles
(12x12) & associated mastic.



Ward B
Asbestos-containing mastic on TSI elbow.

APPENDIX B: PHOTOGRAPHS



Ward B
Asbestos-containing mastic on TSI elbow.



Ward B
Asbestos-containing mastic on TSI joint.



Delivery Room Areas
Asbestos-containing under sink mastic.

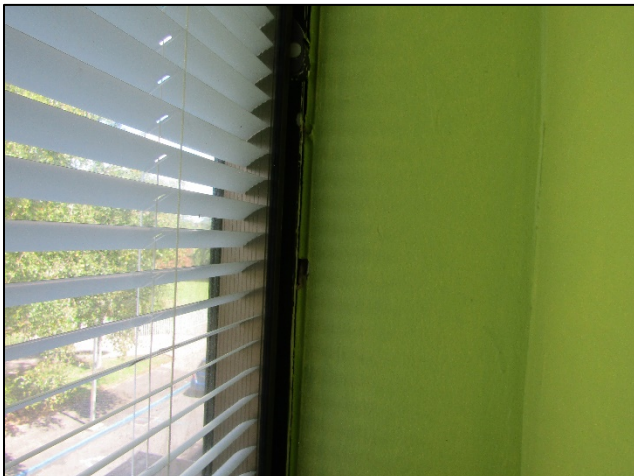
APPENDIX B: PHOTOGRAPHS



Delivery Room Areas
Asbestos-containing under sink mastic.



Delivery Room Areas
Asbestos-containing A/C duct mastic.



Ward B
Asbestos-containing window caulking.

APPENDIX B: PHOTOGRAPHS



Ward B
Asbestos-containing window caulking.



Ward B
Asbestos-containing window caulking.

APPENDIX C: LABORATORY RESULTS AND CHAIN OF CUSTODY

2112Q24

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Phone (770) 457-8177 Fax (770) 457-8188

**CHAIN OF CUSTODY
BULK ASBESTOS SAMPLE**

Project Name: HURRA

Contact: Harry Peña

Project Location: Bayamón, Puerto Rico

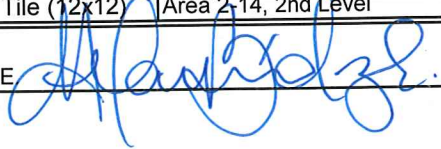
Samplers Name: Harry Peña

Project Number: ZEM-21291

Sampling Date: 12/16/2021

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	21291-164	Floor Covering	Area 2-3, 2nd Level	PLM	Regular		
2	21291-165	Floor Covering	Area 2-3, 2nd Level	PLM	Regular		
3	21291-166	Floor Covering	Area 2-10, 2nd Level	PLM	Regular		
4	21291-167	Floor Covering	Area 2-2, 2nd Level	PLM	Regular		
5	21291-168	Floor Covering	Area 2-1, 2nd Level	PLM	Regular		
6	21291-169	Cream Vinyl Tile (12x12)	Room 237, 2nd Level	PLM	Regular		
7	21291-170	Cream Vinyl Tile (12x12)	Room 233, 2nd Level	PLM	Regular		
8	21291-171	Cream Vinyl Tile (12x12)	Room 228, 2nd Level	PLM	Regular		
9	21291-172	Cream Vinyl Tile (12x12)	Room 222, 2nd Level	PLM	Regular		
10	21291-173	Brown Vinyl Tile (12x12)	Area 2-24, 2nd Level	PLM	Regular		
11	21291-174	Brown Vinyl Tile (12x12)	Area 2-24, 2nd Level	PLM	Regular		
12	21291-175	White Vinyl Tile (12x12)	Room 225, 2nd Level	PLM	Regular		
13	21291-176	White Vinyl Tile (12x12)	Room 226, 2nd Level	PLM	Regular		
14	21291-177	Baseboard Adhesive	Area 2-15, 2nd Level	PLM	Regular		
15	21291-178	Pink Vinyl Tile (9x9)	Area 2-15, 2nd Level	PLM	Regular		
16	21291-179	Pink Vinyl Tile (9x9)	Area 2-16, 2nd Level	PLM	Regular		
17	21291-180	Baseboard Adhesive	Room 237, 2nd Level	PLM	Regular		
18	21291-181	Light Cream Vinyl Tile (12x12)	Area 2-13, 2nd Level	PLM	Regular		
19	21291-182	Baseboard Adhesive	Area 2-14, 2nd Level	PLM	Regular		
20	21291-183	Light Cream Vinyl Tile (12x12)	Area 2-14, 2nd Level	PLM	Regular		

Relinquished by: Melanie Bermúdez E



Date/Time: 12/20/2021 15:00

FOR LAB USE ONLY

Lab Recipient:

Date/Time:

Method of Shipment:



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Atlanta, GA 30340
Tel : (770) 457-8177
Fax: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112Q24
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-164 Layer: 1	2112Q24-001A	FLOOR COVERING	2	ND	ND	ND	ND	ND	Vinyl
21291-164 Layer: 2	2112Q24-001A	FLOOR COVERING	ND	ND	ND	ND	ND	ND	Glue
21291-165 Layer: 1	2112Q24-002A	FLOOR COVERING	2	ND	ND	ND	ND	ND	Vinyl
21291-165 Layer: 2	2112Q24-002A	FLOOR COVERING	ND	ND	ND	ND	ND	ND	Glue
21291-166 Layer: 1	2112Q24-003A	FLOOR COVERING	2	ND	ND	ND	ND	ND	Vinyl
21291-166 Layer: 2	2112Q24-003A	FLOOR COVERING	ND	ND	ND	ND	ND	ND	Glue

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
For comments on the samples, see the individual analysis sheets.
ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.
These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume. PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.
This report must not be reproduced except in full without written approval of Analytical Environmental Services, Inc.

Microanalyst:

Elena Ivanova

QC Analyst:

Svetlana Arkhipov



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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112Q24
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-167 Layer: 1	2112Q24-004A	FLOOR COVERING	2	ND	ND	ND	ND	ND	Vinyl
21291-167 Layer: 2	2112Q24-004A	FLOOR COVERING	ND	ND	ND	ND	ND	ND	Glue
21291-168 Layer: 1	2112Q24-005A	FLOOR COVERING	2	ND	ND	ND	ND	ND	Vinyl
21291-168 Layer: 2	2112Q24-005A	FLOOR COVERING	ND	ND	ND	ND	ND	ND	Glue
21291-169 Layer: 1	2112Q24-006A	CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile
21291-169 Layer: 2	2112Q24-006A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
For comments on the samples, see the individual analysis sheets.
ND = None Detected

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These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume. PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.
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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112Q24
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-170 Layer: 1	2112Q24-007A	CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile
21291-170 Layer: 2	2112Q24-007A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic
21291-171 Layer: 1	2112Q24-008A	CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile
21291-171 Layer: 2	2112Q24-008A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic
21291-172 Layer: 1	2112Q24-009A	CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile
21291-172 Layer: 2	2112Q24-009A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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QC Analyst:

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112Q24
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-173 Layer: 1	2112Q24-010A	BROWN VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Floor tile
21291-173 Layer: 2	2112Q24-010A	BROWN VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic
21291-174 Layer: 1	2112Q24-011A	BROWN VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Floor tile
21291-174 Layer: 2	2112Q24-011A	BROWN VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic
21291-175 Layer: 1	2112Q24-012A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Floor tile
21291-175 Layer: 2	2112Q24-012A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Glue

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
For comments on the samples, see the individual analysis sheets.
ND = None Detected

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Microanalyst:

Elena Ivanova

QC Analyst:

Svetlana Arkhipov



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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112Q24
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-176 Layer: 1	2112Q24-013A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Floor tile
21291-176 Layer: 2	2112Q24-013A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Glue
21291-176 Layer: 3	2112Q24-013A	WHITE VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic
21291-177 Layer: 1	2112Q24-014A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	
21291-178 Layer: 1	2112Q24-015A	PINK VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-178 Layer: 2	2112Q24-015A	PINK VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112Q24
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-179 Layer: 1	2112Q24-016A	PINK VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-179 Layer: 2	2112Q24-016A	PINK VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-180 Layer: 1	2112Q24-017A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	
21291-181 Layer: 1	2112Q24-018A	LIGHT CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile
21291-181 Layer: 2	2112Q24-018A	LIGHT CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic
21291-182 Layer: 1	2112Q24-019A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112Q24
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-182 Layer: 2	2112Q24-019A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	
21291-183 Layer: 1	2112Q24-020A	LIGHT CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile
21291-183 Layer: 2	2112Q24-020A	LIGHT CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
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Microanalyst:

Elena Ivanova

QC Analyst:

Svetlana Arkhipov

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212K43

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**CHAIN OF CUSTODY
 BULK ASBESTOS SAMPLE**

Project Name: HURRA
 Project Location: Bayamón, Puerto Rico
 Project Number: ZEM-21291

Contact: Harry Peña
 Samplers Name: Harry Peña
 Sampling Date: 12/16/2021

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	21291-184	A/C Duct Mastic	Area 2-1, 2nd Level	PLM	Regular		
2	21291-185	A/C Duct Mastic	Area 2-10, 2nd Level	PLM	Regular		
3	21291-186	Ceiling Tile (2x4)	Area 2-3, 2nd Level	PLM	Regular		
4	21291-187	A/C Duct Mastic	Area 2-3, 2nd Level	PLM	Regular		
5	21291-188	Ceiling Tile	Area 2-10, 2nd Level	PLM	Regular		
6	21291-189	Undersink Mastic	Room 239, 2nd Level	PLM	Regular		
7	21291-190	Undersink Mastic	Area 2-5, 2nd Level	PLM	Regular		
8	21291-191	Undersink Mastic	Room 226, 2nd Level	PLM	Regular		
9	21291-192	Green Vinyl Tile (12x12)	Area 2-29, 2nd Level	PLM	Regular		
10	21291-193	Green Vinyl Tile (12x12)	Area 2-29, 2nd Level	PLM	Regular		
11	21291-194	Floor Covering	Area 2-25, 2nd Level	PLM	Regular		
12	21291-195	Ceiling Tile (2x4)	Area 2-25, 2nd Level	PLM	Regular		
13	21291-196	Ceiling Tile (2x4)	Area 2-27, 2nd Level	PLM	Regular		
14	21291-197	Floor Covering	Area 2-41, 2nd Level	PLM	Regular		
15	21291-198	Light Cream Vinyl Tile (12x12)	Area 2-43, 2nd Level	PLM	Regular		
16	21291-199	Light Cream Vinyl Tile (12x12)	Area 2-43, 2nd Level	PLM	Regular		
17	21291-200	A/C Duct Mastic	Area 2-41, 2nd Level	PLM	Regular		
18							
19							
20							

Relinquished by: Melanie Bermúdez E.

Date/Time: 12/20/2021 15:00

FOR LAB USE ONLY		
Lab Recipient: <u>Daniela</u>	Date/Time: <u>12/21/21 10:53</u>	Method of Shipment: <u>at FedEx</u>



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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112K43
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-184 Layer: 1	2112K43-001A	A/C DUCT MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-184 Layer: 2	2112K43-001A	A/C DUCT MASTIC	ND	ND	ND	ND	ND	ND	
21291-184 Layer: 3	2112K43-001A	A/C DUCT MASTIC	ND	ND	ND	ND	ND	ND	
21291-185 Layer: 1	2112K43-002A	A/C DUCT MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-185 Layer: 2	2112K43-002A	A/C DUCT MASTIC	ND	ND	ND	ND	ND	ND	
21291-186 Layer: 1	2112K43-003A	CEILING TILE (2X4)	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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Microanalyst:

Penka Topuzova

QC Analyst:

Svetlana Arkhipov



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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112K43
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-187 Layer: 1	2112K43-004A	A/C DUCT MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-187 Layer: 2	2112K43-004A	A/C DUCT MASTIC	ND	ND	ND	ND	ND	ND	
21291-187 Layer: 3	2112K43-004A	A/C DUCT MASTIC	ND	ND	ND	ND	ND	ND	
21291-188 Layer: 1	2112K43-005A	CEILING TILE	ND	ND	ND	ND	ND	ND	Paint included as binder
21291-189 Layer: 1	2112K43-006A	UNDERSINK MASTIC	3	ND	ND	ND	ND	ND	
21291-190 Layer: 1	2112K43-007A	UNDERSINK MASTIC	3	ND	ND	ND	ND	ND	

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112K43
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-191 Layer: 1	2112K43-008A	UNDERSINK MASTIC	3	ND	ND	ND	ND	ND	
21291-192 Layer: 1	2112K43-009A	GREEN VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Floor tile
21291-192 Layer: 2	2112K43-009A	GREEN VINYL TILE (12X12)	5	ND	ND	ND	ND	ND	Black mastic
21291-193 Layer: 1	2112K43-010A	GREEN VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Floor tile
21291-194 Layer: 1	2112K43-011A	FLOOR COVERING	3	ND	ND	ND	ND	ND	Flooring
21291-195 Layer: 1	2112K43-012A	CEILING TILE (2X4)	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

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ND = None Detected

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112K43
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-196 Layer: 1	2112K43-013A	CEILING TILE (2X4)	ND	ND	ND	ND	ND	ND	
21291-197 Layer: 1	2112K43-014A	FLOOR COVERING	3	ND	ND	ND	ND	ND	Flooring
21291-197 Layer: 2	2112K43-014A	FLOOR COVERING	ND	ND	ND	ND	ND	ND	Glue
21291-198 Layer: 1	2112K43-015A	LIGHT CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile
21291-198 Layer: 2	2112K43-015A	LIGHT CREAM VINYL TILE (12X12)	5	ND	ND	ND	ND	ND	Black mastic
21291-199 Layer: 1	2112K43-016A	LIGHT CREAM VINYL TILE (12X12)	2	ND	ND	ND	ND	ND	Floor tile

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 28-Dec-21

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112K43
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-199 Layer: 2	2112K43-016A	LIGHT CREAM VINYL TILE (12X12)	5	ND	ND	ND	ND	ND	Black mastic
21291-200 Layer: 1	2112K43-017A	A/C DUCT MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-200 Layer: 2	2112K43-017A	A/C DUCT MASTIC	ND	ND	ND	ND	ND	ND	
21291-200 Layer: 3	2112K43-017A	A/C DUCT MASTIC	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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QC Analyst:

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2112W01

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**CHAIN OF CUSTODY
BULK ASBESTOS SAMPLE**

Project Name: HURRA

Contact: Harry Peña

Project Location: Bayamón, Puerto Rico

Samplers Name: Ramón Rosado

Project Number: ZEM-21291

Sampling Date: 12/21/2021

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	21291-201	Mastic on TSI Elbow	Area 2-1, 2nd Floor	PLM	Regular		
2	21291-202	Mastic on TSI Joint	Area 2-1, 2nd Floor	PLM	Regular		
3	21291-203	Mastic on TSI Pipeline	Area 2-1, 2nd Floor	PLM	Regular		
4	21291-204	Mastic on TSI Elbow	Area 2-1, 2nd Floor	PLM	Regular		
5	21291-205	Mastic on TSI Pipeline	Area 2-1, 2nd Floor	PLM	Regular		
6	21291-206	Mastic on TSI Elbow	Area 2-3, 2nd Floor	PLM	Regular		
7	21291-207	Mastic on TSI Pipeline	Area 2-3, 2nd Floor	PLM	Regular		
8	21291-208	Mastic on TSI Elbow	Area 2-3, 2nd Floor	PLM	Regular		
9	21291-209	Mastic on TSI Pipeline	Area 2-3, 2nd Floor	PLM	Regular		
10	21291-210	Window Caulking	Room 227, 2nd Floor	PLM	Regular		
11	21291-211	Window Caulking	Room 237, 2nd Floor	PLM	Regular		
12	21291-212	Window Caulking	Room 222, 2nd Floor	PLM	Regular		
13	21291-213	Under Sink Black Mastic	Area 2-103, 2nd Floor	PLM	Regular		
14	21291-214	Under Sink Black Mastic	Area 2-115, 2nd Floor	PLM	Regular		
15	21291-215	Under Sink Black Mastic	Area 2-62, 2nd Floor	PLM	Regular		
16	21291-216	Mastic on TSI Pipeline	Area AC-35, 2nd Floor	PLM	Regular	Mech. Room	
17	21291-217	Mastic on TSI Pipeline	Area AC-35, 2nd Floor	PLM	Regular	Mech. Room	
18	21291-218	Mastic on TSI Pipeline	Area AC-35, 2nd Floor	PLM	Regular	Mech. Room	
19	21291-219	Mastic on TSI Elbow	Area AC-35, 2nd Floor	PLM	Regular	Mech. Room	
20	21291-220	Ceiling Plaster	Area 2-78, 2nd Floor	PLM	Regular		

Relinquished by: Milagros Caraballo *Milagros Caraballo*

Date/Time: 12/27/2021 15:00

FOR LAB USE ONLY		
Lab Recipient: <i>Danni Campbell</i>	Date/Time: <i>12/28/21 9:24</i>	Method of Shipment: <i>FedEx</i>



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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W01
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-201 Layer: 1	2112W01-001A	MASTIC ON TSI ELBOW	5	ND	ND	ND	ND	ND	Black mastic
21291-201 Layer: 2	2112W01-001A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-201 Layer: 3	2112W01-001A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-202 Layer: 1	2112W01-002A	MASTIC ON TSI JOINT	5	ND	ND	ND	ND	ND	Black mastic
21291-202 Layer: 2	2112W01-002A	MASTIC ON TSI JOINT	ND	ND	ND	ND	ND	ND	
21291-202 Layer: 3	2112W01-002A	MASTIC ON TSI JOINT	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
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Microanalyst:

Penka Topuzova

QC Analyst:

Yelena Khanina



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Tel : (770) 457-8177
Fax: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W01
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-203 Layer: 1	2112W01-003A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-203 Layer: 2	2112W01-003A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-204 Layer: 1	2112W01-004A	MASTIC ON TSI ELBOW	5	ND	ND	ND	ND	ND	Black mastic
21291-204 Layer: 2	2112W01-004A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-204 Layer: 3	2112W01-004A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	Black mastic
21291-204 Layer: 4	2112W01-004A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Bulk Sample Summary Report



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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-205 Layer: 1	2112W01-005A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-205 Layer: 2	2112W01-005A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-205 Layer: 3	2112W01-005A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-206 Layer: 1	2112W01-006A	MASTIC ON TSI ELBOW	5	ND	ND	ND	ND	ND	Black mastic
21291-206 Layer: 2	2112W01-006A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-206 Layer: 3	2112W01-006A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	Black mastic

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
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ND = None Detected

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Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W01
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-206 Layer: 4	2112W01-006A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-207 Layer: 1	2112W01-007A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-207 Layer: 2	2112W01-007A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	Black mastic
21291-207 Layer: 3	2112W01-007A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-208 Layer: 1	2112W01-008A	MASTIC ON TSI ELBOW	5	ND	ND	ND	ND	ND	Black mastic
21291-208 Layer: 2	2112W01-008A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

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Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W01
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-208 Layer: 3	2112W01-008A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	Black mastic
21291-208 Layer: 4	2112W01-008A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-209 Layer: 1	2112W01-009A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-209 Layer: 2	2112W01-009A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	Black mastic
21291-209 Layer: 3	2112W01-009A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-210 Layer: 1	2112W01-010A	WINDOW CAULKING	2	ND	ND	ND	ND	ND	Glazing. Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

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Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W01
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-211 Layer: 1	2112W01-011A	WINDOW CAULKING	ND	ND	ND	ND	ND	ND	Caulking. Paint included as binder
21291-211 Layer: 2	2112W01-011A	WINDOW CAULKING	2	ND	ND	ND	ND	ND	Glazing. Paint included as binder
21291-212 Layer: 1	2112W01-012A	WINDOW CAULKING	2	ND	ND	ND	ND	ND	Glazing. Paint included as binder
21291-213 Layer: 1	2112W01-013A	UNDER SINK BLACK MASTIC	3	ND	ND	ND	ND	ND	Black mastic
21291-214 Layer: 1	2112W01-014A	UNDER SINK BLACK MASTIC	3	ND	ND	ND	ND	ND	Black mastic
21291-215 Layer: 1	2112W01-015A	UNDER SINK BLACK MASTIC	3	ND	ND	ND	ND	ND	Black mastic

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Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W01
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-215 Layer: 2	2112W01-015A	UNDER SINK BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-216 Layer: 1	2112W01-016A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	Black mastic
21291-216 Layer: 2	2112W01-016A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-217 Layer: 1	2112W01-017A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	Paint included as binder
21291-217 Layer: 2	2112W01-017A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-217 Layer: 3	2112W01-017A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	Black mastic

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Report Date: 4-Jan-22

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-217 Layer: 4	2112W01-017A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-218 Layer: 1	2112W01-018A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	Paint included as binder
21291-218 Layer: 2	2112W01-018A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-218 Layer: 3	2112W01-018A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	Black mastic
21291-218 Layer: 4	2112W01-018A	MASTIC ON TSI PIPELINE	ND	ND	ND	ND	ND	ND	
21291-219 Layer: 1	2112W01-019A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	Paint included as binder

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Report Date: 4-Jan-22

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-219 Layer: 2	2112W01-019A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-219 Layer: 3	2112W01-019A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	Black mastic
21291-219 Layer: 4	2112W01-019A	MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-220 Layer: 1	2112W01-020A	CEILING PLASTER	ND	ND	ND	ND	ND	ND	

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2112V84

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**CHAIN OF CUSTODY
 BULK ASBESTOS SAMPLE**

Project Name: HURRA
 Project Location: Bayamón, Puerto Rico
 Project Number: ZEM-21291

Contact: Harry Peña
 Samplers Name: Ramón Rosado
 Sampling Date: 12/21/2021

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	21291-221	A/C Duct Black Mastic	Area 2-78, 2nd Floor	PLM	Regular		
2	21291-222	A/C Duct Black Mastic	Area 2-96, 2nd Floor	PLM	Regular		
3	21291-223	Ceiling Plaster	Area 2-96, 2nd Floor	PLM	Regular		
4	21291-224	White Mastic on TSI Elbow	Area 2-96, 2nd Floor	PLM	Regular		
5	21291-225	Ceiling Plaster	Area 2-97, 2nd Floor	PLM	Regular		
6	21291-226	A/C Duct Black Mastic	Area 2-126, 2nd Floor	PLM	Regular		
7	21291-227	Ceiling Plaster	Area 2-126, 2nd Floor	PLM	Regular		
8	21291-228	Ceiling Plaster	Area 2-117, 2nd Floor	PLM	Regular		
9	21291-229	A/C Duct Black Mastic	Area 2-117, 2nd Floor	PLM	Regular		
10	21291-230	Ceiling Plaster	Area 2-127, 2nd Floor	PLM	Regular		
11	21291-231	White Mastic on TSI Elbow	Area 2-127, 2nd Floor	PLM	Regular		
12	21291-232	Ceiling Plaster	Area 2-101, 2nd Floor	PLM	Regular		
13	21291-233	White Vinyl Tile (12x12)	Area 2-78, 2nd Floor	PLM	Regular		
14	21291-234	Dark Cream Vinyl Tile (9x9)	Area 2-79, 2nd Floor	PLM	Regular		
15	21291-235	Cream Vinyl Tile (9x9)	Area 2-127A, 2nd Floor	PLM	Regular		
16	21291-236	Dark Cream Vinyl Tile (9x9)	Area 2-80, 2nd Floor	PLM	Regular		
17	21291-237	White Vinyl Tile (12x12)	Area 2-96, 2nd Floor	PLM	Regular		
18	21291-238	Cream Vinyl Tile (9x9)	Area 2-97, 2nd Floor	PLM	Regular		
19	21291-239	White Vinyl Tile (12x12)	Area 2-91, 2nd Floor	PLM	Regular		
20	21291-240	Cream Vinyl Tile (9x9)	Area 2-95, 2nd Floor	PLM	Regular		

Relinquished by: Milagros Caraballo 

Date/Time: 12/27/2021 15:00

FOR LAB USE ONLY

Lab Recipient: Dawn Campbell Date/Time: 12/28/21 9:24 Method of Shipment: FedEx



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Fax: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112V84
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-221 Layer: 1	2112V84-001A	A/C DUCT BLACK MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-221 Layer: 2	2112V84-001A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-221 Layer: 3	2112V84-001A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-222 Layer: 1	2112V84-002A	A/C DUCT BLACK MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-222 Layer: 2	2112V84-002A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-222 Layer: 3	2112V84-002A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Bulk Sample Summary Report



Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112V84
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-223 Layer: 1	2112V84-003A	CEILING PLASTER	ND	ND	ND	ND	ND	ND	
21291-224 Layer: 1	2112V84-004A	WHITE MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-225 Layer: 1	2112V84-005A	CEILING PLASTER	ND	ND	ND	ND	ND	ND	
21291-226 Layer: 1	2112V84-006A	A/C DUCT BLACK MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-226 Layer: 2	2112V84-006A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-226 Layer: 3	2112V84-006A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	

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Bulk Sample Summary Report



Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112V84
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-227 Layer: 1	2112V84-007A	CEILING PLASTER	ND	ND	ND	ND	ND	ND	
21291-228 Layer: 1	2112V84-008A	CEILING PLASTER	ND	ND	ND	ND	ND	ND	
21291-229 Layer: 1	2112V84-009A	A/C DUCT BLACK MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-229 Layer: 2	2112V84-009A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-229 Layer: 3	2112V84-009A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-230 Layer: 1	2112V84-010A	CEILING PLASTER	ND	ND	ND	ND	ND	ND	

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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Microanalyst:

Penka Topuzova

QC Analyst:

Yelena Khanina



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Fax: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112V84
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-231 Layer: 1	2112V84-011A	WHITE MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-231 Layer: 2	2112V84-011A	WHITE MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-232 Layer: 1	2112V84-012A	CEILING PLASTER	ND	ND	ND	ND	ND	ND	
21291-233 Layer: 1	2112V84-013A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Floor tile
21291-233 Layer: 2	2112V84-013A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Glue
21291-234 Layer: 1	2112V84-014A	DARK CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl

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ND = None Detected

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Report Date: 4-Jan-22

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-234 Layer: 2	2112V84-014A	DARK CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-235 Layer: 1	2112V84-015A	CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-235 Layer: 2	2112V84-015A	CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-236 Layer: 1	2112V84-016A	DARK CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-236 Layer: 2	2112V84-016A	DARK CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-237 Layer: 1	2112V84-017A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Floor tile

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

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ND = None Detected

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-237 Layer: 2	2112V84-017A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Glue
21291-238 Layer: 1	2112V84-018A	CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-238 Layer: 2	2112V84-018A	CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-239 Layer: 1	2112V84-019A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Floor tile
21291-239 Layer: 2	2112V84-019A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Glue
21291-240 Layer: 1	2112V84-020A	CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl

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Penka Topuzova

QC Analyst:

Yelena Khanina

2112W03

ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
PO BOX 3545 BAYAMÓN, PR 00958
(787)376-9010 Phone (787)995-0005 Fax
email: hpena@zimmetry.com Web: www.zimmetry.com

Analytical Environmental Services, Inc.
Accounts Receivable
3080 Presidential Drive, Atlanta GA 30340-3704
Phone (770) 457-8177 Fax (770) 457-8188

**CHAIN OF CUSTODY
BULK ASBESTOS SAMPLE**

Project Name: HURRA
Project Location: Bayamón, Puerto Rico
Project Number: ZEM-21291

Contact: Harry Peña
Samplers Name: Ramón Rosado
Sampling Date: 12/21/2021

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	21291-241	White Floor Covering	Area 2-117, 2nd Floor	PLM	Regular		
2	21291-242	White Floor Covering	Area 2-114, 2nd Floor	PLM	Regular		
3	21291-243	Gray Floor Covering	Area 2-96, 2nd Floor	PLM	Regular		
4	21291-244	Dark Cream Vinyl Tile (9x9)	Area 2-77, 2nd Floor	PLM	Regular		
5	21291-245	White Vinyl Tile (12x12)	Area 2-62, 2nd Floor	PLM	Regular		
6	21291-246	White Vinyl Tile (12x12)	Area 2-54, 2nd Floor	PLM	Regular		
7	21291-247	Cream w/lines Vinyl Tile (9x9)	Area 2-74, 2nd Floor	PLM	Regular		
8	21291-248	Cream w/lines Vinyl Tile (9x9)	Area 2-51, 2nd Floor	PLM	Regular		
9	21291-249	Baseboard Adhesive	Area 2-54, 2nd Floor	PLM	Regular		
10	21291-250	Baseboard Adhesive	Area 2-72, 2nd Floor	PLM	Regular		
11	21291-251	White Mastic on TSI Elbow	Area 2-75, 2nd Floor	PLM	Regular		
12	21291-252	A/C Duct Black Mastic	Area 2-75, 2nd Floor	PLM	Regular		
13	21291-253	White Mastic on TSI Elbow	Area 2-66, 2nd Floor	PLM	Regular		
14	21291-254	A/C Duct Black Mastic	Area 2-66, 2nd Floor	PLM	Regular		
15	21291-255	Baseboard Adhesive	Area 2-96, 2nd Floor	PLM	Regular		
16	21291-256	Baseboard Adhesive	Area 2-86, 2nd Floor	PLM	Regular		
17	21291-257	Baseboard Adhesive	Area 2-91, 2nd Floor	PLM	Regular		
18	21291-258	Cream Vinyl Tile (12x12)	Area 2-105, 2nd Floor	PLM	Regular		
19	21291-259	Cream Vinyl Tile (12x12)	Area 2-104A, 2nd Floor	PLM	Regular		
20							

Relinquished by: Milagros Caraballo

Date/Time: 12/27/2021 15:00

FOR LAB USE ONLY

Lab Recipient:

Daniel Capwell

Date/Time:

12/28/21 9:24am

Method of Shipment:

FedEx



3080 Presidential Drive
Atlanta, GA 30340
Tel : (770) 457-8177
Fax: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W03
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-241 Layer: 1	2112W03-001A	WHITE FLOOR COVERING	ND	ND	ND	ND	ND	ND	
21291-241 Layer: 2	2112W03-001A	WHITE FLOOR COVERING	ND	ND	ND	ND	ND	ND	
21291-242 Layer: 1	2112W03-002A	WHITE FLOOR COVERING	ND	ND	ND	ND	ND	ND	
21291-242 Layer: 2	2112W03-002A	WHITE FLOOR COVERING	ND	ND	ND	ND	ND	ND	
21291-243 Layer: 1	2112W03-003A	GRAY FLOOR COVERING	3	ND	ND	ND	ND	ND	Flooring
21291-243 Layer: 2	2112W03-003A	GRAY FLOOR COVERING	ND	ND	ND	ND	ND	ND	Glue

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite
For comments on the samples, see the individual analysis sheets.
ND = None Detected

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Report Date: 4-Jan-22

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-244 Layer: 1	2112W03-004A	DARK CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-244 Layer: 2	2112W03-004A	DARK CREAM VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-245 Layer: 1	2112W03-005A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Floor tile
21291-245 Layer: 2	2112W03-005A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Glue
21291-246 Layer: 1	2112W03-006A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Floor tile
21291-246 Layer: 2	2112W03-006A	WHITE VINYL TILE (12X12)	ND	ND	ND	ND	ND	ND	Glue

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Report Date: 4-Jan-22

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-247 Layer: 1	2112W03-007A	CREAM W/LINES VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-247 Layer: 2	2112W03-007A	CREAM W/LINES VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-248 Layer: 1	2112W03-008A	CREAM W/LINES VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Vinyl
21291-248 Layer: 2	2112W03-008A	CREAM W/LINES VINYL TILE (9X9)	ND	ND	ND	ND	ND	ND	Glue
21291-249 Layer: 1	2112W03-009A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	
21291-249 Layer: 2	2112W03-009A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-250 Layer: 1	2112W03-010A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	
21291-251 Layer: 1	2112W03-011A	WHITE MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	
21291-252 Layer: 1	2112W03-012A	A/C DUCT BLACK MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-252 Layer: 2	2112W03-012A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-252 Layer: 3	2112W03-012A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-253 Layer: 1	2112W03-013A	WHITE MASTIC ON TSI ELBOW	ND	ND	ND	ND	ND	ND	

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Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-254 Layer: 1	2112W03-014A	A/C DUCT BLACK MASTIC	5	ND	ND	ND	ND	ND	Black mastic
21291-254 Layer: 2	2112W03-014A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-254 Layer: 3	2112W03-014A	A/C DUCT BLACK MASTIC	ND	ND	ND	ND	ND	ND	
21291-255 Layer: 1	2112W03-015A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	Paint included as binder
21291-256 Layer: 1	2112W03-016A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	Paint included as binder
21291-257 Layer: 1	2112W03-017A	BASEBOARD ADHESIVE	ND	ND	ND	ND	ND	ND	Paint included as binder

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Report Date: 4-Jan-22

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	2112W03
Project Name:	HURRA	Project Number:	ZEM-21291

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
21291-258 Layer: 1	2112W03-018A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Floor tile
21291-258 Layer: 2	2112W03-018A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic
21291-259 Layer: 1	2112W03-019A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Floor tile
21291-259 Layer: 2	2112W03-019A	CREAM VINYL TILE (12X12)	3	ND	ND	ND	ND	ND	Black mastic

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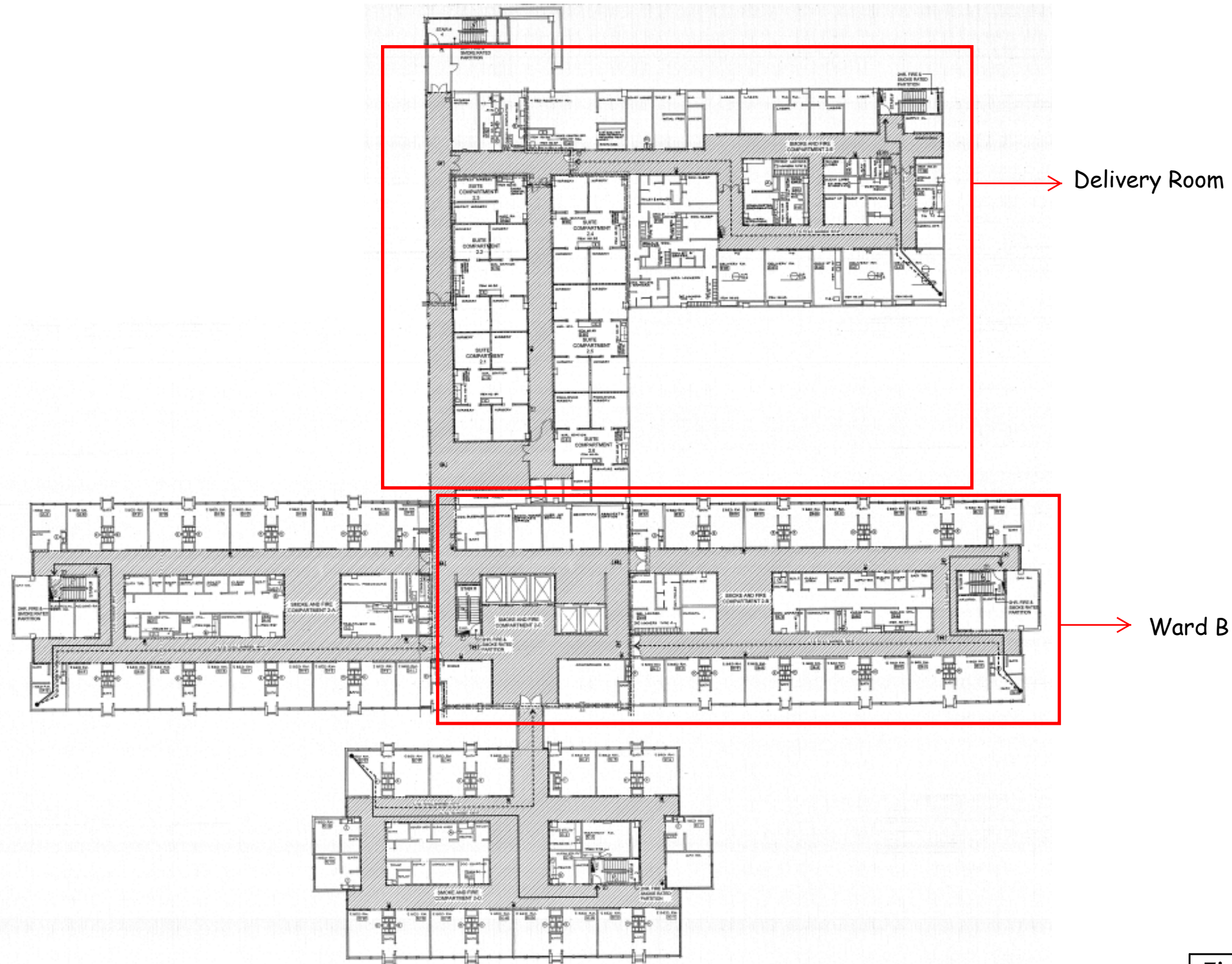
Microanalyst:

Penka Topuzova

QC Analyst:

Yelena Khanina

APPENDIX D: LOCATION OF POSITIVE MATERIALS



Second Floor

Note:
 The layout of materials shown in this figure is for illustrative purposes only. For actual location and quantity of materials refer to the survey report dated June 2022

Zimmetry Environmental Environmental Building Inspectors Indoor Environmental Quality / Mold Assessments, Asbestos, Lead Based Paint Consulting – Phone – Fax (787) 995-0005	
Project: Hospital Universitario Ramón Ruiz Arnau in Bayamón, PR	
Date: June 2022	Project No: ZEM-21291