



Asbestos • Lead Based Paint • Indoor Air Quality/Mold/Bacteria/Allergens • Radon • Fire Assessments • Heavy Metals • VOC's

**CONSTRUCTION MANAGEMENT REPORT
PRE-DEMOLITION ASBESTOS SURVEY**

(PERFORMED ON JULY 27, 2022)

FOR

**MS. LAURA D. CHANG
ASSISTANT PROJECT MANAGER
BUREAU OF DESIGN AND CONSTRUCTION
DIVISION OF RECREATION AND PARKS
3800 COMMONWEALTH BOULEVARD, MS520
TALLAHASSEE, FLORIDA 32399**

LOCATION

**THE BARNACLE HISTORIC STATE PARK
PAVILION REPLACEMENT
3485 MAIN HIGHWAY
MIAMI, MIAMI-DADE COUNTY, FLORIDA 33133**

BY

**AGC CONSULTANTS, LLC
1440 CORAL RIDGE DRIVE
SUITE 431
CORAL SPRINGS, FLORIDA 33071
PROJECT NO. AGC-22-0249**



Asbestos • Lead Based Paint • Indoor Air Quality/Mold/Bacteria/Allergens • Radon • Fire Assessments • Heavy Metals • VOC's

August 10, 2022

Ms. Laura D. Chang
Assistant Project Manager
Bureau of Design and Construction
Division of Recreation and Parks
3800 Commonwealth Boulevard, MS520
Tallahassee, Florida 32399

SUBJECT: Pre-Demolition Asbestos Survey for the
The Barnacle Historic State Park
Pavilion Replacement
3485 Main Highway
Miami, Miami-Dade County, Florida 33133
Project No. AGC-22-0249

To Whom It May Concern:

AGC Consultants, LLC is pleased to submit the following report for a pre-demolition survey for asbestos-containing building materials (ACBM) conducted on July 27, 2022, at the above referenced pavilion. Samples of the visible suspect Asbestos Containing Building Materials (ACBM) were collected and analyzed via Polarized Light Microscopy (PLM). The purpose of this survey was to identify any asbestos-containing building materials containing asbestos prior to performing the demolition of the structure.

SAMPLING STRATEGY:

Bulk material sampling was conducted according to the following sampling plan:

Friable Surfacing Materials: Friable surfacing materials, where encountered, are sampled based on the recommendations found in the EPA "Pink Book" entitled "Asbestos in Buildings: Simplified Scheme for Friable Surfacing Materials" (EPA document 560/5-85-030a). The number of samples collected is based on the total square footage of the homogenous area of the material. If less than 100 square feet of suspect friable material is present, then 2 samples are collected. If the area is between 100 and 1,000 ft², three samples are collected. If the area is between 1,000 and 5,000 ft², five samples are collected. If the area is between 5,000 and 10,000 ft², seven samples are collected. Nine samples are collected if the area is greater than 10,000 ft².

Thermal System Insulation (TSI): If present, at least three (3) samples are collected in a randomly distributed manner from each homogeneous area of TSI not assumed to be ACM. At least two (2) samples are collected from each homogeneous area of patched TSI. Where cement or plaster is used on fittings such as tees, elbows, or valves, samples will be collected in such a manner sufficient to determine whether the material is ACM or not ACM.

Miscellaneous Materials: This includes materials such as acoustical ceiling tiles, floor tiles and linoleum, wallboard, wire insulation, caulking sealants, draperies, etc. (basically, anything that does not fall into the first two categories). Suspect miscellaneous materials will be sampled in such a manner as to determine whether or not they contain asbestos. The number of samples collected of a given miscellaneous material will be left to the discretion of the inspector.

Mr. Ricardo Gerena, an EPA certified asbestos inspector of AGC Consultants, LLC conducted the survey. AGC Consultants, LLC is an asbestos-consulting firm licensed by the State of Florida Department of Business and Professional Regulation.

All areas of the pavilion were inspected for the presence of ACBM. The scope of this project was to sample and identify suspect ACBM on interior building components prior to the demolition of the structure. Bulk sample specimens of materials suspect of containing asbestos were collected and submitted for analysis using Polarized Light Microscopy in conjunction with dispersion staining as outlined in 40 CFR, Part 63, Subpart F dated January 1987. Analysis was conducted by EMSL Analytical Inc., who is accredited for asbestos fiber analysis through successful participation in the National Voluntary Laboratory Accreditation Program (NVLAP) and meets the requirements of section 206(d) of Title II of the USC Chapter 15, TSCA as stated in 40 CFR 763 dated April 30, 1987.

FACILITY DESCRIPTION:

The subject facility consists of a pavilion on the grounds of The Barnacle Historic State Park located at 3485 Main Highway in Miami. The pavilion is scheduled to be demolished. It is a pole barn type structure lacking walls. Structural components include a poured concrete beam-like structure under a wooden floor system. It has vertical wood beams supporting a wooden truss system under a pitched corrugated metal roof. There were no finish materials observed in the pavilion at the time of the survey.

Those suspect asbestos-containing materials that were present and expected to be removed and or disturbed are listed below:

1. Flooring Materials: The flooring system is constructed of plywood over wooden 2 X 4s attached to a concrete support beam-like system. No additional floor finish materials were observed in the pavilion at the time of the survey. There was also a concrete sidewalk that led up to the pavilion. Representative samples were collected of the concrete support beam and sidewalk, and all were reported by the laboratory to contain no detectable quantities of asbestos.

2. Wall Materials: The pavilion is a pole barn type structure. No wall materials were observed in the facility.

3. Ceiling Materials: The ceiling system consists of wood framing under a sheet metal deck. There were no suspect asbestos containing ceiling materials were observed in the facility.

4. Heating, Ventilation and Air-Conditioning (HVAC) System: No suspect HVAC system materials were observed at the time of the survey.

5. Friable Surfacing Materials: No friable surfacing materials were observed at the time of the survey.

6. Thermal System Insulation (TSI) Materials: No suspect TSI materials were observed at the time of the survey.

7. Electrical System: No suspect materials were observed at the time of the survey.

8. Additional Miscellaneous Material: No additional suspect asbestos-containing miscellaneous materials were observed at the time of the survey.

Summary of Sample Results:

Sample #	Sample Description	Location	Result
A1	Concrete	Under Wood Sub Floor	None Detected
A2	Concrete	Under Wood Sub Floor	None Detected
A3	Concrete	Under Wood Sub Floor	None Detected
A4	Concrete	Sidewalk	None Detected
A5	Concrete	Sidewalk	None Detected

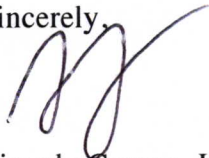
CLOSING REMARKS

The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user. Opinions and recommendations presented herein apply to site conditions existing at the time of our investigation. They cannot necessarily apply to site changes of which this office is unaware and has not yet had the opportunity to evaluate.

Prior to initiating any renovation or demolition project, Federal Law requires that the local EPA representative's office be notified in writing at least 10 working days prior to the onset of the project. The State Asbestos Coordinator's Office also requires a copy of the notification (address to State Asbestos Coordinator, State of Florida Environmental Regulation, 2600 Blare Stone Road, Tallahassee, Florida 32399-2400).

AGC Consultants, LLC is pleased to be of service. Please contact this office should you have any questions or comments concerning this report or any related matter.

Sincerely,



Ricardo Gerena, Jr.
AGC Consultants, LLC
Certified Asbestos Inspector
Cert # 121526317

Respectfully Submitted,



Bruce Marchette, CIH
Florida Licensed Asbestos Consultant
License # 1A0000041, Expires 12-30, 2022
AIHS, Inc.

LIMITATIONS OF THE REPORT

This survey report is the result of a diligent search of the facility for asbestos-containing building materials. The purpose of this inspection was to identify asbestos-containing materials throughout the building. However comprehensive this inspection appears, it does not claim to have identified all of the asbestos-containing materials present in the facility.

AGC's evaluation was performed with limitations inherent to visual inspections. AGC has conducted this assessment with reasonable care and has performed this study within general industry standards. As with any study of this nature, limitations are inherent. There can be no assurances, and AGC makes no assurances, that the said information, research, and technology may not change in the future, thus affecting the services provided.

AGC understands that you will be the sole recipient of our report and will not distribute the report to any other party without prior written approval.

LOCATION

**The Barnacle Historic State Park
Pavilion Replacement
3485 Main Highway
Miami, Florida**

LABORATORY ANALYSIS

**AGC Consultants, LLC
1440 Coral Ridge Drive
Suite 431
Coral Springs, Florida 33071**

Project No. AGC-22-0249



EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Asbestos Chain of Custody (Air, Bulk, Soil)

EMSL Order Number / Lab Use Only

932203852

EMSL Analytical, Inc.
5700 Memorial Hwy, Suite 122
Tampa, FL 33615

PHONE: (813) 280-8752

EMAIL: tampalab@emsl.com

Customer Information Customer ID: _____ Company Name: <u>AGC</u> Contact Name: <u>Matt P.</u> Street Address: _____ City, State, Zip: _____ Country: _____ Phone: _____ Email(s) for Report: _____		If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization. Billing Information Billing ID: _____ Company Name: _____ Billing Contact: _____ Street Address: _____ City, State, Zip: _____ Country: _____ Phone: _____ Email(s) for Invoice: _____	
Project Information			
Project Name/No: <u>3485 main Hwy Miami, FL</u> EMSL LIMS Project ID: <u>Barnacle State Park</u> (If applicable, EMSL will provide)		US State where samples collected: _____ State of Connecticut (CT) must select project location. ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)	
Sampled By Name: <u>Rick G.</u>		Sampled By Signature: <u>[Signature]</u>	
Turn-Around-Time (TAT) ☐ 3 Hour ☐ 4-4.5 Hour AHERA ONLY ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week TEM Air 3-6 Hour, please call ahead to schedule. 32 Hour TAT available for select tests only; samples must be submitted by 11:30 am.			
Test Selection			
PCM Air ☐ NIOSH 7400 ☐ NIOSH 7400 w/ 8hr. TWA PLM - Bulk (reporting limit) ☒ PLM EPA 600/R-93/116 (<1%) ☐ PLM EPA NOB (<1%) ☐ POINT COUNT ☐ 400 (<0.25%) ☐ 1,000 (<0.1%) POINT COUNT w/ GRAVIMETRIC ☐ 400 (<0.25%) ☐ 1,000 (<0.1%) ☐ NIOSH 9002 (<1%) ☐ NYS 198.1 (Friable - NY) ☐ NYS 198.6 NOB (Non-Friable - NY) ☐ NYS 198.8 (Vermiculite SM-V)		TEM - Air ☐ AHERA 40 CFR, Part 763 ☐ NIOSH 7402 ☐ EPA Level II ☐ ISO 10312* TEM - Bulk ☐ TEM EPA NOB ☐ NYS NOB 198.4 (Non-Friable-NY) ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%) Other Test (please specify)	
TEM - Settled Dust ☐ Microvac - ASTM D5755 ☐ Wipe - ASTM D6480 ☐ Qualitative via Filtration Prep ☐ Qualitative via Drop Mount Prep		Soil - Rock - Vermiculite (reporting limit)* ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%) ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%) ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%) ☐ TEM Qualitative via Filtration Prep ☐ TEM Qualitative via Drop Mount Prep	
*Please call with your project-specific requirements.			
☐ Positive Stop - Clearly Identified Homogeneous Areas (HA)		Filter Pore Size (Air Samples) ☐ 0.8um ☐ 0.45um	
Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
A1	Outside under wood flooring	Bulk	7/27/22
A2	-		
A3	-		
A4	- Concrete sidewalk		
A5	-		
Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)			
Method of Shipment: <u>work on</u>		Sample Condition Upon Receipt: <u>fine</u>	
Relinquished by: <u>[Signature]</u>	Date/Time: _____	Received by: <u>Don DeSano</u>	Date/Time: <u>7/28/22 8:33 AM</u>
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____

Controlled Document - COC-05 Asbestos R16 10/25/2021

☒ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.



EMSL Analytical, Inc.

5700 Memorial Highway, Suite 122 Tampa, FL 33615

Tel/Fax: (813) 280-8752 / (813) 280-8753

<http://www.EMSL.com> / tampalab@emsl.com

EMSL Order: 932203852

Customer ID: ADVI50

Customer PO:

Project ID:

Attention: Matt Puglisi

AGC Consultants, LLC

1440 Coral Ridge Drive

Suite 431

Coral Springs, FL 33071

Project: 3485 Main Hwy Miami, FL Barnacle State Park

Phone: (407) 421-7274

Fax: (407) 354-3292

Received Date: 07/28/2022 8:33 AM

Analysis Date: 08/02/2022

Collected Date: 07/27/2022

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
A1 932203852-0001	Outside Pavilion - Under Wood Flooring Concrete Slab	Gray/Tan Non-Fibrous Homogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
A2 932203852-0002	Outside Pavilion - Under Wood Flooring Concrete Slab	Gray/White/Beige Non-Fibrous Homogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
A3 932203852-0003	Outside Pavilion - Under Wood Flooring Concrete Slab	Gray Non-Fibrous Homogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
A4 932203852-0004	Outside Pavilion - Concrete Sidewalk	Gray/White/Beige Non-Fibrous Homogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected
A5 932203852-0005	Outside Pavilion - Concrete Sidewalk	Gray Non-Fibrous Homogeneous		25% Quartz 15% Ca Carbonate 60% Non-fibrous (Other)	None Detected

Analyst(s)

Khandaker Anam (3)

Sherma Williams (2)

Gerald Iannuzzi, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Tampa, FL NVLAP Lab Code 600215-0

Initial report from: 08/02/2022 11:48:40

LOCATION

**The Barnacle Historic State Park
Pavilion Replacement
3485 Main Highway
Miami, Florida**

PHOTOGRAPHS

**AGC Consultants, LLC
1440 Coral Ridge Drive
Suite 431
Coral Springs, Florida 33071**

Project No. AGC-22-0249



PHOTOGRAPH 1: Overview of pavilion



PHOTOGRAPH 2: Rafters to pavilion



PHOTOGRAPH 3: Sheet metal deck above wood rafters



PHOTOGRAPH 4: Second view of roof deck



PHOTOGRAPH 5: Wood subfloor



PHOTOGRAPH 6 Deterioration of wood sub floor



PHOTOGRAPH 7: Concrete beam under wood subfloor



PHOTOGRAPH 8: Concrete walkway

LOCATION

**The Barnacle Historic State Park
Pavilion Replacement
3485 Main Highway
Miami, Florida**

CERTIFICATIONS

**AGC Consultants, LLC
1440 Coral Ridge Drive
Suite 431
Coral Springs, Florida 33071**

Project No. AGC-22-0249



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

THE ASBESTOS CONSULTANT HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

MARCHETTE, BRUCE ERVIN

3611 NW 97TH AVE
COOPER CITY FL 33024

LICENSE NUMBER: IA0000041

EXPIRATION DATE: NOVEMBER 30, 2022

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.





Certificate # 121526317

Ricardo Gerena

has on 06/02/2022,
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 USC 2646

Online Asbestos Building Inspector Refresher (4 hour)

as approved by FL
and the US EPA under 40 CFR 763 (AHERA)
and passed the associated exam on 06/02/2022 with a score of at least 70%



Training Provider #: FL49-0001221

Course #: 0006410

SSN: XXX-XX-7095

Expiration: 06/02/2023

P.O. Box 786 - Lawrence, KS. 66044 - 800.444.6382

www.metaenvironmental.net

META ONLINE

Thomas Mayhew

Thomas Mayhew
President