PRE-DEMOLITION ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

4461 St. Johns Avenue
Jacksonville, Florida 32210

GLE Project No.: 23112-00251

Prepared for:

Mr. Paul Thomas
JEA
225 N. Pearl Street
Jacksonville, Florida 32202

November 2023

Prepared by:

8651 Baypine Road, Suite 115
Jacksonville, Florida 32256
904-296-1880 • Fax 904-296-1860

November 3, 2023

Mr. Paul Thomas
JEA
225 N. Pearl Street
Jacksonville, Florida 32202

RE: Pre-Demolition Asbestos and Lead-Containing Paint Survey Report
4461 St. Johns Avenue
Jacksonville, Florida 32218

GLE Project No: 23112-00251

Dear Mr. Thomas:

GLE Associates, Inc. (GLE) performed a pre-demolition survey for asbestos-containing materials (ACM) and lead-containing paint (LCP) on October 19, 2023 at 4461 St. Johns Avenue located in Jacksonville, Florida. The survey was performed by Mr. Damien Bailey and Mr. Joshua Hope with GLE. This report outlines the sampling and testing procedures, and presents the results along with our conclusions and recommendations.

GLE appreciates the opportunity to serve as your consultant on this project. If you should have any questions, or if we can be of further service, please do not hesitate to call.

Sincerely,
GLE Associates, Inc.

Damien Bailey
Junior Project Manager

Robert B. Greene, PE, PG, CIH, LEED AP
President
Florida LAC# EA 0000009

DDB/PSZ/RBG/jl

M:\Work\Asb\2023\23112-JEA\00251. 4461 St. Johns Avenue. Pre-Demolition Asbestos and Lead Paint Survey\Report\Asbestos & Lead Survey\ACMPbSurveyReport.docx

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1.0 INTRODUCTION

1.1 INTRODUCTION

The purpose of this pre-demolition survey was to identify accessible asbestos-containing materials (ACMs) and their general locations within, 4461 St. Johns Avenue located in Jacksonville, Florida. The survey was conducted pursuant to National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR 61) requirements, associated with the scheduled Pre-demolition plans. The survey was performed on October 19, 2023, by Mr. Damien Bailey and Joshua Hope a Environmental Protection Agency/Asbestos Hazard Emergency Response Act (EPA/AHERA) accredited inspectors. The scope of this survey did not include demolition of any building components, evaluation of architectural plans, or the quantification of materials for abatement purposes, or removal cost estimating.

1.2 FACILITY DESCRIPTION

A summary of the facility investigated is outlined in the table below. A representative view of the facility is shown in Appendix D.

Facility Type:	Commercial
Construction Date:	1945
Number of Floors:	1
Exterior	
Floor Support:	Concrete Slab on Grade
Wall Support:	Concrete Block (CMU)
Exterior Finish:	Paint, Brick
Roof System Type:	Rolled Roofing
Interior	
Wall Substrate:	Brick
Wall Finishes:	Paint
Floor Finishes:	Concrete
Ceiling System:	None Observed
Ceiling Finishes:	None Observed

2.0 ASBESTOS

2.1 ASBESTOS SURVEY PROCEDURES

The survey was performed by visually observing accessible areas within the scope of work. An EPA/AHERA accredited inspector performed the visual observations (refer to Appendix B for personnel qualifications).

After the overall visual survey was completed, representative sampling areas were determined. The surveyor delineated homogeneous areas of suspect materials and samples of each material were obtained, in general accordance with regulations as established by the Occupational Safety

and Health Administration (OSHA) and NESHAP. The field surveyor determined sample locations based on previous experience. Both friable and non-friable materials were sampled. A friable material is one that can be crushed when dry by normal hand pressure. This survey did not include the demolition of building components to access suspect material.

After completion of the fieldwork, the samples were delivered to Arrowhead Technologies, LLC, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for analysis. The samples were analyzed by Polarized Light Microscopy (PLM) coupled with dispersion staining, in general accordance with EPA-600/R-93/116. Utilizing this procedure, the various asbestos minerals (chrysotile, amosite, crocidolite, actinolite, tremolite, and anthophyllite) can be determined. The percentages of asbestos minerals in the samples were visually determined by the microscopist. Please note that the EPA designates all materials containing greater than one percent asbestos as an "asbestos-containing material" (ACM).

Regulated Asbestos-Containing Material (RACM) is defined as (a) Friable asbestos materials, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

Category I and Category II non-friable ACM, as defined by the EPA:

- Category I non-friable ACM means asbestos-containing packings, gaskets, resilient floor covering, asphalt roofing products, and pliable sealants and mastics that are in good condition and not friable, containing more than one percent asbestos, as determined using the method specified in Appendix E, Subpart E, 40 CFR Part 763, Section 1, PLM.

- Category II non-friable ACM means any material, excluding Category I non-friable ACM, containing more than one percent asbestos as determined using the methods specified in Appendix E, Subpart E, 40 CFR Part 763 Section 1, PLM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

2.2 IDENTIFIED SUSPECT ASBESTOS-CONTAINING MATERIALS

A total of 18 samples of suspect building materials were collected from the facility during the survey, representing 6 different identified homogeneous areas. The results of the laboratory analyses are included in Appendix A, and approximate sample locations are indicated on the Asbestos Sample Location Plan in Appendix C. Photographs of the various materials sampled are included in Appendix D.

A summary of the homogenous sampling areas of suspect ACM determined to be present is outlined in the following table.

TABLE 2.2-1: SUMMARY OF HOMOGENEOUS SAMPLING AREAS 4461 ST. JOHNS AVENUE – JACKSONVILLE, FLORIDA							
HA #	**HOMOGENEOUS MATERIAL DESCRIPTION**	**HOMOGENEOUS MATERIAL LOCATION**	**FRIABILITY (F/NF)**	**% ASBESTOS***	**# OF SAMPLES COLLECTED**	**APPROXIMATE QUANTITY**	**ACM CATEGORY**
M-01	Gray Tile Grout	Interior Floors	NF	ND	3	NIS	NA
M-02	Concrete Slab	Throughout	NF	ND	3	NIS	NA
M-03	Brick & Mortar	Throughout	NF	ND	3	NIS	NA
M-04	**White Door & Window Sealant**	**All Doors & Windows**	**NF**	**2% - C**	**3**	**84 LF**	**CAT I**
M-05	**Gray Vent Sealant**	**Interior North Wall**	**NF**	**2% - C**	**3**	**16 SF**	**CAT I**
RR-01	Black Rolled Roofing	Roof	NF	ND	3	NIS	NA

ASBESTOS CONTENT Expressed as percent	* = The facility owner has the option of point-counting by Polarized Light Microscopy (PLM) those RACM whose asbestos content is less than 10% in order to more accurately determine the asbestos content therein.				
FRIABILITY	F = Friable Material	NF = Non-Friable Material			
ACM CATEGORY	RACM = Regulated ACM	CAT I = Category I non-friable ACM	CAT II = Category II non-friable ACM		
ABBREVIATIONS:	PC = Results based on Point-Count analysis	TEM NOB = Transmission Electron Microscopy of Non-Friable Organically Bound Material			
	NA = Not Applicable	ND = None Detected	NIS = Not in Scope	C = Chrysotile	A = Amosite
	HA = Homogeneous Area	SF = Square Feet	LF = Linear Feet	CF = Cubic Feet	

3.0 LEAD-CONTAINING PAINTJ

3.1 LEAD-CONTAINING PAINT SURVEY PROCEDURES

The lead-containing paint survey was performed by visually observing accessible painted component surfaces associated with the scope of work. The protocol used in this lead paint survey is a modified version of the survey methodology established by HUD. The protocol was modified to conform to the specific parameters of this project.

During the walk through of the facility, each area was observed and an inventory of painted surfaces was developed. The surveyor then subdivided the areas into homogeneous areas of apparent similar paint history.

Testing of the painted surfaces was performed by collecting representative paint chips. All samples were submitted to EMSL Analytical, Inc., an accredited laboratory recognized under EPA's National Lead Laboratory Accreditation Program (NLLAP). These samples were analyzed by EPA Method 3050B/7000B and the results are reported in percentage of lead by weight of the paint sample (% Wt). Please note that any detectable concentration of lead in the paint is designated by OSHA as "lead-containing."

3.2 IDENTIFIED SUSPECT LEAD-CONTAINING PAINT

The identified suspect lead-containing coatings are described in the following table.

TABLE 3.2-1: SUMMARY OF SUSPECT LEAD-CONTAINING PAINT ANALYTICAL RESULTS
4461 ST. JOHNS AVENUE – JACKSONVILLE, FLORIDA

SAMPLE NUMBER	LOCATION	COLOR	SUBSTRATE	ANALYTICAL RESULT (% WT)
L-1	Interior Walls	Red	Brick	8.4
L-2	Interior Walls	White	Brick	0.23

[1] **BOLD** result indicates lead-containing paint.

[2] The requirements of the OSHA Lead in Construction Standard 29CFR 1926.62 are invoked if any amount of lead is present in the sample; there is no minimum concentration.

% Wt = Percent by Weight

The results of the laboratory analyses are included in Appendix A.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 ASBESTOS

Asbestos-containing materials (ACMs) were identified in the scope of this survey. General and specific conclusions and recommendations are provided as follows:

The EPA, OSHA and the State of Florida have promulgated regulations dealing with asbestos. For commercial building owners, the EPA NESHAP (40 CFR 61) regulations require removal of

RACM, prior to conducting activities which might disturb the material. They also deal with notification, handling and disposal of asbestos.

The EPA recommends that an Operations and Maintenance (O&M) Program be developed for any facilities with ACM, and this Program should address all ACM (known and/or assumed) present. The O&M Program establishes notification and training requirements along with special procedures for working around the ACM. The O&M Program would remain in effect until all asbestos is removed.

Category I and Category II non-friable materials, as defined by the EPA, may remain within a facility during demolition with no potential cessation of work, provided they remain non-friable and the appropriate engineering controls (i.e., wet methods) are utilized, with the resulting waste disposed of as asbestos-containing waste. However, there is no guarantee that these materials will remain non-friable. If the materials become friable, then they are classified as RACM. Additionally, local jurisdictions may have more stringent interpretations regarding classification of these materials.

RACM, as defined by the EPA, must be removed prior to renovation or demolition activities that may disturb the materials.

The OSHA regulations deal with employee exposure to airborne asbestos fibers. The regulations restrict employee exposure, and require special monitoring, training and handling procedures when dealing with asbestos. Additionally, OSHA has regulations that may supersede the EPA regulations. In order to protect the worker, OSHA has established a permissible exposure limit (PEL), which limits employee exposure to airborne fiber concentrations. OSHA requires objective evidence that the PEL will not be exceeded, as justification that personal air monitoring and engineering controls will not be required. OSHA has also established rules requiring the containerization and labeling of asbestos waste.

The State regulations require that anyone involved in asbestos consulting activities be a licensed asbestos consultant and that anyone involved in asbestos abatement, with the exception of roofing materials, be a licensed asbestos abatement contractor.

4.2 SPECIFIC

M-04: White Door & Window Sealant
M-05: Gray Vent Sealant

These materials are defined by the EPA as Category I non-friable materials. These materials may remain within a facility during demolition with no potential stoppage of work provided they remain non-friable. However, there is no guarantee that it will remain non-friable. If a material becomes friable, then it is classified as RACM. RACM, as defined by the EPA, must be removed prior to renovation or demolition activities that may disturb the materials. Also, OSHA has additional requirements that may supersede the EPA rules. These materials do not appear to present a significant issue, as observed, at the time of the survey. We recommend that the identified Category

I material be maintained as part of an O&M Program and periodically monitored for any changes in condition prior to demolition. As discussed above, in order to protect the worker, OSHA has established a PEL which limits airborne fiber concentrations. Objective evidence that the PEL will not be exceeded is required by OSHA as justification that personal air monitoring and engineering controls will not be required. OSHA has also established rules requiring the containerization and labeling of asbestos waste.

Should prior abatement be desired, the work must be performed in accordance with Federal, State, and local regulations. In lieu of abatement, demolition utilizing the wet method is acceptable by a demolition contractor properly trained and certified to conduct Class II asbestos work, along with proper disposal and transport of the demolished materials to an approved landfill as asbestos-containing waste.

4.3 LEAD-CONTAINING PAINT

Lead-containing paint (LCP) was identified in two of the two samples.

Under the present OSHA lead construction standard, all identified lead-containing paint affected by construction activities falls under the requirements of 29 CFR 1926. There are no current government guidelines defining a lead paint concentration that creates a hazardous atmosphere when disturbed. Based on current OSHA guidelines, for those employees who will be disturbing lead-containing paint, their employer must make an initial determination by monitoring employee exposure if any employee is exposed to lead at or above the established Permissible Exposure Limit (PEL) of 30 µg/m3 (8-hour TWA).

The employer must implement OSHA prescribed protective measures until they can demonstrate that the employee exposure is not in excess of the PEL. Due to the planned demolition or renovations for these facilities, GLE's recommendations are as follows:

For all identified lead painted materials where abrasive blasting, welding, cutting and/or torch burning are planned, removal of lead paint is to be completed by a properly trained lead removal contractor.

For all identified lead painted materials where manual demolition (e.g. drywall), manual scraping, manual sanding and heat gun applications are planned: provide workers with interim protection as outlined in the OSHA Lead in Construction Standard until the employee exposure monitoring indicates that that all tasks being performed are not exposing employees above the PEL.

The interim employee protection measures include but are not limited to the following: appropriate respiratory protection; appropriate personal protective clothing and equipment; change areas; hand washing facilities; biological monitoring; and training.

All waste generated during the lead paint removal and during subsequent manual demolition or renovation activities should be characterized by Toxicity Characteristic Leaching Procedure testing for lead for waste disposal purposes.

5.0 LIMITATIONS AND CONDITIONS

As a result of previous renovations, there may be hidden materials, such as floor tile, sheet vinyl flooring, insulation, etc. These materials may be found in various areas hidden under existing flooring materials or in wall cavities. Any materials or coatings found during construction activities, either not addressed in this survey report, or similar to the ACM or LCP identified in this survey report should be assumed to be ACM or LCP until sampling and analysis documents otherwise.

Because of the hidden nature of many building components (i.e. within mechanical chases), it may be impossible to determine if all of the suspect building materials have been located and subsequently tested. Destructive testing in some instances is not a viable option. We cannot, therefore, guarantee that all potential ACM or LCP has been located. For the same reasons, estimates of quantities and/or conditions are subject to readily apparent situations, and our findings reflect this condition. We do warrant, however, that the investigations and methodology reflect our best efforts based upon the prevailing standard of care in the environmental industry.

The information contained in this report was prepared based upon specific parameters and regulations in force at the time of this report. The information herein is only for the specific use of the Client and GLE. GLE accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, unless prior written authorization has been obtained from GLE.

APPENDIX A
Analytical Results and Chains of Custody

EMSL Analytical, Inc.
706 Gralin Street, Kernersville, NC 27284
Phone/Fax: (336) 992-1025 / (336) 992-4175
http://www.EMSL.com kernersvillelab@emsl.com

EMSL Order:	022307296
CustomerID:	GLEA51L
CustomerPO:	
ProjectID:	

Attn: **Damien Bailey**
GLE Associates
8651 Baypine Road, Suite 115
Jacksonville, FL 32256

Phone:	(904) 296-1880
Fax:	(904) 296-1860
Received:	10/20/2023 09:40 AM
Collected:	10/19/2023

Project: **23112-00251, SEA 4461 St. Johns**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	*Collected*	*Analyzed*	*Weight*	*RDL*	*Lead Concentration*
L-01 *022307296-0001*	10/19/2023	10/20/2023	0.2669 g	0.80 % wt	8.4 % wt
L-02 *022307296-0002*	10/19/2023	10/20/2023	0.2707 g	0.0080 % wt	0.23 % wt

James Cole

James Cole, Laboratory Manager
or other approved signatory

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.
Samples analyzed by EMSL Analytical, Inc. Kernersville, NC AIHA LAP, LLC-ELLAP Accredited #102564

Initial report from 10/23/2023 08:11:57

OrderID: 022307296 EMSL

Lead Chain of Custody

EMSL Order Number / Lab Use Only: 022307296

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

706 Gralin Street
Kernersville, NC 27284
PHONE: (336) 992-1025
EMAIL: greensborolab@emsl.cor

Customer Information		Billing Information	
Customer ID		Billing ID:	
Company Name	GLE Associates	Company Name:	GLE Associates, Inc.
Contact Name	Damien Bailey	Billing Contact:	Jim Elliott
Street Address	8651 Baypine Road, Suite 115	Street Address:	5405 Cypress Center Drive, Suite 110
City, State, Zip:	Jacksonville FL 32256	City, State, Zip:	Tampa FL 33609
Country:	US	Country:	US
Phone	904-296-1880	Phone:	813-241-8350
Email(s) for Report:	dbailey@gleassociates.com	Email(s) for Invoice	

Project Information

Project Name/No.: 23112-00251, JEA 4461 St. Johns
Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: FL
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name: Damien Bailey
Sampled By Signature: Damien Bailey
No. of Samples in Shipment: 2

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☑ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11 30am.

MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION
CHIPS ☑ % by wt. ☐ ppm (mg/kg) ☐ mg/cm²	SW 846-7000B	Flame Atomic Absorption	0 008% (80ppm)	☑
*Reporting Limit based on a minimum 0 25g sample weight	SW 846-6010D*	ICP-OES	0 0004% (4ppm)	☐
AIR	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-OES	0 5µg/filter	☐
	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☐
WIPE ☐ ASTM ☐ NON-ASTM	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐
*If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐
TCLP	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
SPLP	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0 4 mg/L (ppm)	☐
	SW 846-1312 / SW 846-6010D*	ICP-OES	0 1 mg/L (ppm)	☐
TTLC	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	22 CCR App II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
STLC	22 CCR App II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	22 CCR App II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐
Soil	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐
	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐
Wastewater	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐
Drinking Water	EPA 200.5	ICP-OES	0 003 mg/L (ppm)	☐
Unpreserved ☐ / Preserved with HNO3 ☐ PH<2	EPA 200.8	ICP-MS	0 001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	☐
Other:				☐

Sample Number	Sample Location	Volume / Area	Date / Time Sampled
L-01	Red Paint		10/19/23
L-02	White Paint		10/19/23

Method of Shipment: FedEx Priority Overnight
Sample Condition Upon Receipt:

Relinquished by:	Date/Time:	Received by:	Date/Time:
Damien Bailey		JS	10.20.23 9:40
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-25 Lead R16 4/19/2021

*6010C Available Upon Request

☐ **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 is by Customer.

3 2960 2543 5709

ARROWHEAD TECHNOLOGIES, LLC
3151 San Bernadino St.
Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	GLE Associates	Lab Set No. :	012301
Project :	JEA 4461 St Johns	AT Job No. :	23-12301
Client Project No.:	23112-00251	Report Date :	10/24/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	10/19/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116		

On 10/20/2023, eighteen (18) bulk material samples were submitted by Damien Bailey for asbestos analysis by PLM/DS.
Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
012301-001	Concrete Cover M-01-A	None Detected-Gray Concrete
012301-002	Concrete Cover M-01-B	None Detected-Gray Concrete
012301-003	Concrete Cover M-01-C	None Detected-Gray Concrete
012301-004	Concrete Slab M-02-A	None Detected-Gray Concrete
012301-005	Concrete Slab M-02-B	None Detected-Gray Concrete
012301-006	Concrete Slab M-02-C	None Detected-Gray Concrete
012301-007	Brick/Mortar M-03-A	None Detected-Red Brick None Detected-Gray Mortar
012301-008	Brick/Mortar M-03-B	None Detected-Red Brick None Detected-Gray Mortar
012301-009	Brick/Mortar M-03-C	None Detected-Red Brick None Detected-Gray Mortar
012301-010	White Door/Window Sealant M-04-A	2% Chrysotile-Off White Sealant
012301-011	White Door/Window Sealant M-04-B	Not Analyzed

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested.

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3151 San Bernadino St.
Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	GLE Associates	Lab Set No. :	012301
Project :	JEA 4461 St Johns	AT Job No. :	23-12301
Client Project No.:	23112-00251	Report Date :	10/24/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	10/19/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116		

On 10/20/2023, eighteen (18) bulk material samples were submitted by Damien Bailey for asbestos analysis by PLM/DS.
Copies of Bulk Sample Analysis sheets are attached; additional information may be found therein. The results are summarized below:

Lab Sample No.	Sample Description / Location	Asbestos Content
012301-012	White Door/Window Sealant M-04-C	Not Analyzed
012301-013	Gray Vent Sealant M-05-A	2% Chrysotile-Gray Sealant
012301-014	Gray Vent Sealant M-05-B	Not Analyzed
012301-015	Gray Vent Sealant M-05-C	Not Analyzed
012301-016	Black Rolled Roofing RR-01-A	None Detected-Black Rolled Roof
012301-017	Black Rolled Roofing RR-01-B	None Detected-Black Rolled Roof
012301-018	Black Rolled Roofing RR-01-C	None Detected-Black Rolled Roof

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than one percent asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials (RACM) -- materials which are friable or may become friable -- be further analyzed by point counting when the results indicate less than ten percent asbestos by CVAE. Arrowhead utilizes CVAE on a routine basis and does not include point counting unless specifically requested.

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Clearwater, Florida 33759
813-679-0720 / mhall005@tampabay.rr.com

PLM REPORT SUMMARY

NVLAP Lab Code 200703-0

Client :	GLE Associates	Lab Set No. :	012301
Project :	JEA 4461 St Johns	AT Job No. :	23-12301
Client Project No.:	23112-00251	Report Date :	10/24/2023
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	10/19/2023
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS) App E to Sub E of 40 CFR Part 763 and EPA Method 600/R-93/116		

SCOPE OF THIS REPORT

These samples were obtained as a part of a building survey; this report is only intended to be used as a part of the survey report issued by the surveyor. This report explains the laboratory analysis and results. The surveyor's report explains the sampling protocol used, when the samples were obtained, the location(s) of the samples, where the materials were observed in the building, quantities of materials observed, condition of the materials and the extent of his/her survey. Sample locations and material descriptions are given by the surveyor on the chain of custody but included here (possibly abbreviated) only as a convenience for the reader.

STATEMENT OF LABORATORY ACCREDITATION

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, and the Interim Method for the Determination of Asbestos in Bulk Insulation Samples, EPA 600/M4-82-020. The results of each bulk sample relate only to the material tested as received and the results shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Floor tile and other resinously bound materials, when analyzed by the EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Arrowhead recommends utilizing alternative methods of identification, including Transmission Electron Microscopy.

Specific questions concerning bulk sample results shall be directed to the Laboratory Director.

Analyst : Ryan Schwegman

Laboratory Director : Monte Hall, P.G.
Florida Registration No. 1658

Approved Signatory :

12301

CHAIN OF CUSTODY/SAMPLE TRANSMITTAL FORM

GLE Associates, Inc.
8651 Baypine Road, Suite 115
Jacksonville, FL 32256
PHONE: (904) 296-1880 FAX: (904) 296-1860

CLIENT:	JEA	LAB -
PROJECT #:	23002-00251	
PROJECT:	JEA 4461 ST. Johns ACM	
LABORATORY SENT TO:	Arrowhead	
DATE:	10/19/23	

SAMPLE INFORMATION

SAMPLE #	DESCRIPTION	SAMPLE #	DESCRIPTION
M-01 A-C	Concrete Cover		
M-02 A-C	Concrete Slab		
M-03 A-C	Brick & Mortar		
M-04 A-C	White Door & Window Sealant		
M-05 A-C	Gray Vent Sealant		
RR-01 A-C	Black Rolled Roofing		

IMPORTANT: TOTAL NUMBER OF SAMPLES SUBMITTED	18
IMPORTANT: POSITIVE STOP ANALYSIS	No
IMPORTANT: E-MAIL RESULTS TO	Dbailey

NOTE:

Turnaround time starts at receipt by lab and does not include weekend or holidays.

Select Turnaround Time

☐ 3 hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 3 Day ☑ 4 Day

REPORT RESULTS TO THE ADDRESS ABOVE

CHAIN OF CUSTODY: GLE ASSOCIATES, INC.	CHAIN OF CUSTODY: LABORATORY
PACKAGED BY: Damien Bailey	SAMPLES RECEIVED BY: Ryan Schyem
DATE PACKAGED: 10/19/23	DATE: 10/20/2023
METHOD OF TRANSMITTAL: Priority Overnight	TIME:
TRANSMITTED BY: Fed-Ex	CONDITION OF PACKAGED SAMPLES:

CHAIN OF CUSTODY: RETURNED TO GLE ASSOCIATES, INC.	
RECEIVED BY:	DATE:
INVENTORIED BY:	DATE:
REPACKAGED AND SEALED BY:	DATE:

APPENDIX B
Personnel and Laboratory Certifications

Ron DeSantis, Governor

Julie I. Brown, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

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

GLE ASSOCIATES INC

ROBERT BLAIR GREENE
5405 CYPRESS CENTER DRIVE
SUITE 110
TAMPA FL 33609

LICENSE NUMBER: ZA0000034

EXPIRATION DATE: NOVEMBER 30, 2023

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.

Ron DeSantis, Governor

Melanie S. Griffin, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

ASBESTOS LICENSING UNIT

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

GREENE, ROBERT BLAIR

GLE ASSOCIATES INC
5405 CYPRESS CENTER DR
SUITE 110
TAMPA FL 33609

LICENSE NUMBER: EA0000009

EXPIRATION DATE: NOVEMBER 30, 2024

Always verify licenses online at MyFloridaLicense.com

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M·E·T·A

Mayhew Environmental Training Associates

INCORPORATED

Certificate # 0ANID74HUCJOL

Damien Bailey

has on 4/13/2023, in Lawrence, KS via Zoom
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 USC 2646

Asbestos Inspector Refresher

as approved by FL
and the US EPA under 40 CFR 763 (AHERA)
from 4/13/2023 to 4/13/2023 and passed the associated exam on 4/13/2023
with a score of at least 70%

KANSAS MAYHEW INC. 1987 EST. 1985 ENVIRONMENTAL TRAINING ASSOCIATES SAFETY IN GOD ALONE

Training Provider #: FL49-0001221
Course #: 0004718
FL License #:
SSN: XXX-XX-7103
Expiration: 4/13/2024

Thomas Brennan
Instructor

Thomas Mayhew
President

P.O. Box 786 - Lawrence, KS. 66044 - 800.444.6382
www.metaenvironmental.net

M·E·T·A

Mayhew Environmental Training Associates

INCORPORATED

Certificate # 0BZY105SAB5FP

Joshua Hope

has on 4/13/2023, in Lawrence, KS via Zoom
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 USC 2646

Asbestos Inspector Refresher

as approved by FL
and the US EPA under 40 CFR 763 (AHERA)
from 4/13/2023 to 4/13/2023 and passed the associated exam on 4/13/2023
with a score of at least 70%

KANSAS MAYHEW INC. 1987 EST. 1985 ENVIRONMENTAL TRAINING ASSOCIATES SAFETY IN GOD ALONE

Training Provider #: FL49-0001221
Course #: 0004718
FL License #:
SSN: XXX-XX-4782
Expiration: 4/13/2024

Thomas Brennan
Instructor

Thomas Mayhew
President

P.O. Box 786 - Lawrence, KS. 66044 - 800.444.6382
www.metaenvironmental.net

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200703-0

Arrowhead Technologies, L.L.C.

Clearwater, FL

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).

2023-01-01 through 2023-12-31

Effective Dates

For the National Voluntary Laboratory Accreditation Program

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

706 Gralin Street Kernersville, NC 27284

Laboratory ID: LAP-102564

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

☐	**INDUSTRIAL HYGIENE**	Accreditation Expires:
☑	**ENVIRONMENTAL LEAD**	Accreditation Expires: June 01, 2024
☑	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: June 01, 2024
☐	**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 O. Morton

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

Revision19.1: 07/28/2021

Date Issued: 06/01/2022

AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
706 Gralin Street Kernersville, NC 27284

Laboratory ID: LAP-102564
Issue Date: 06/01/2022

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 06/01/2004

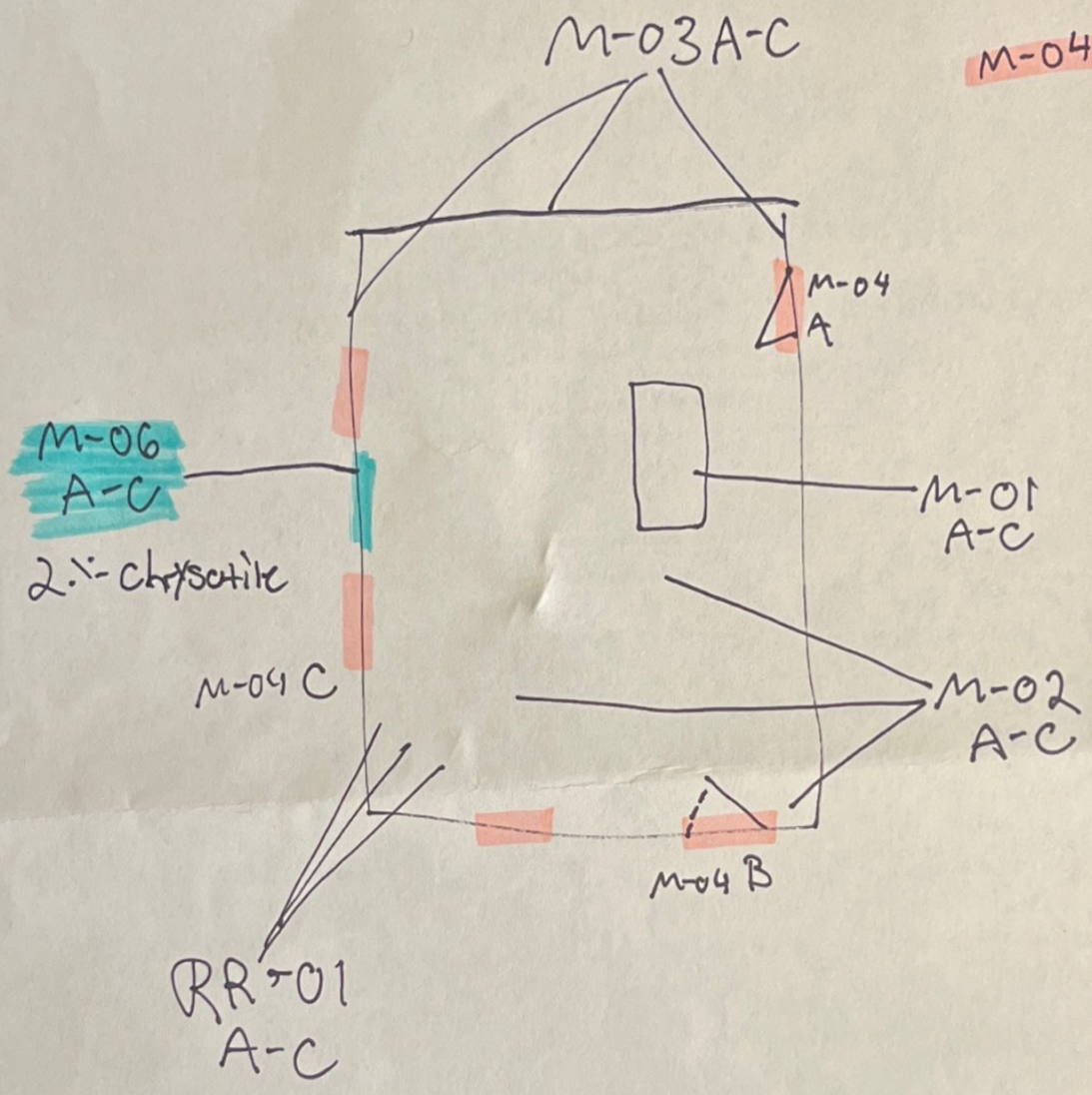
Component, parameter or characteristic tested	Technology sub-type/Detector	Method	Method Description *(for internal methods only)*
Airborne Dust	AA	NIOSH 7082	N/A
Paint	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Settled Dust by Wipe	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A
Soil	AA	EPA SW-846 3050B	N/A
		EPA SW-846 7000B	N/A

A complete listing of currently accredited ELLAP laboratories is available on the AIHA LAP, LLC website at: *http://www.aihaaccreditedlabs.org*

APPENDIX C
Sample Location Plan

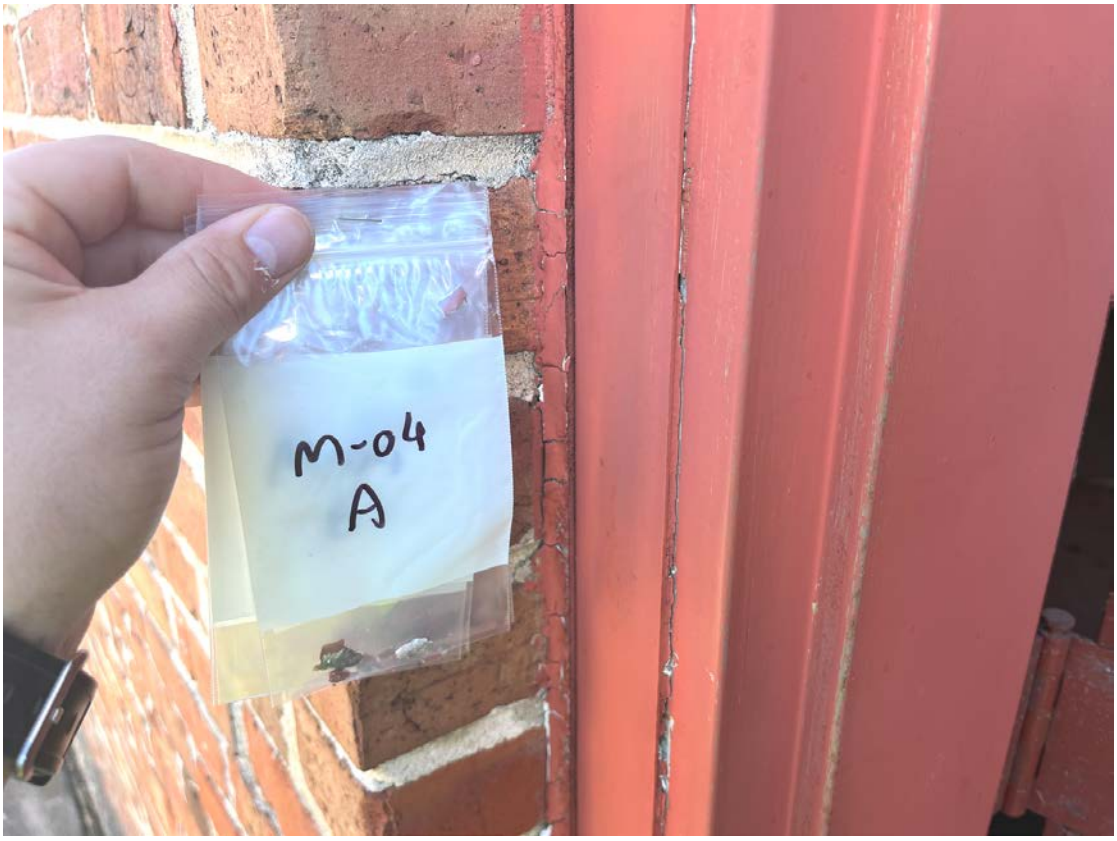
23112-00251

M-04 - 2.5% chrysotile

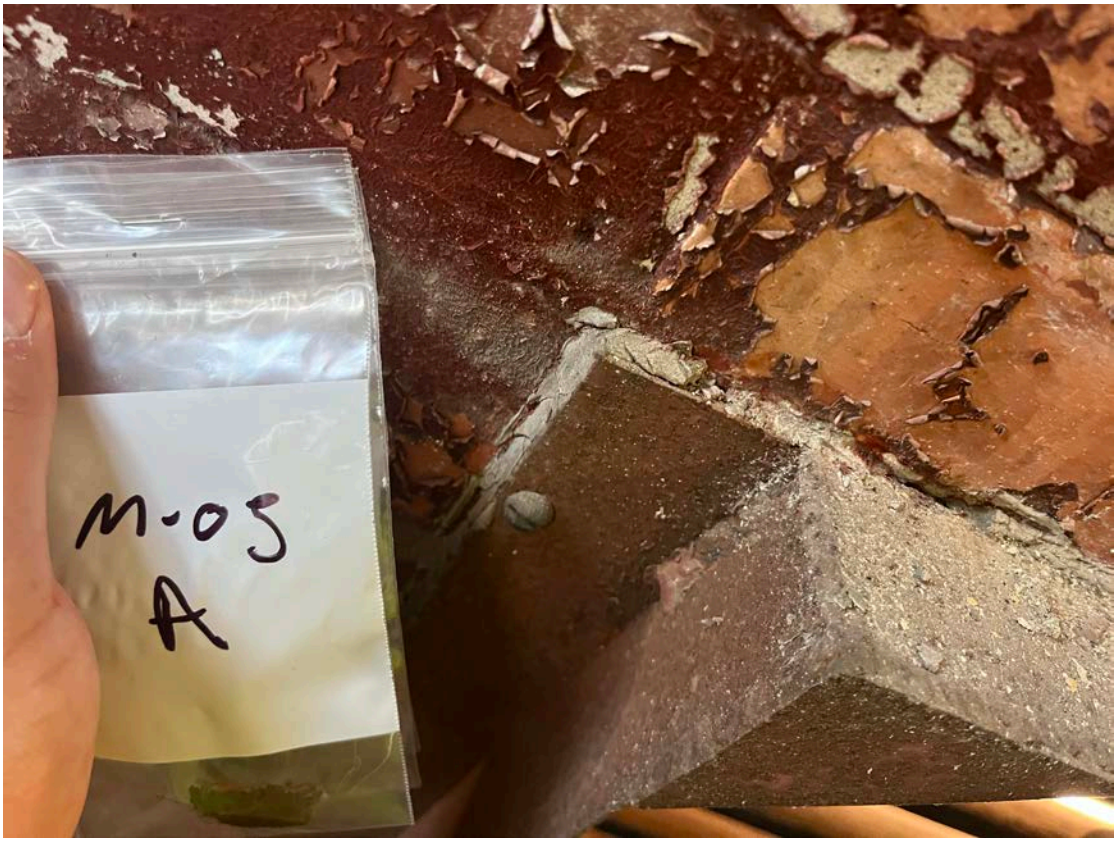


APPENDIX D
Photographs

Upper Photo: M-01 Concrete Cover Lower Photo: M-02 Concrete Slab	Photograph Date: October 19, 2023 Prepared By: GLE Associates, Inc.	GLE	JEA 4461 St. Johns Demo Job No. 23112-00251 Figure 1



Upper Photo: M-03 Brick & Mortar Lower Photo: M-04 White Door & Window Sealant	Photograph Date: October 19, 2023 Prepared By: GLE Associates, Inc.	GLE	JEA 4461 St. Johns Demo Job No. 23112-00251 Figure 2



Upper Photo: M-05 Gray Vent Sealant Lower Photo: General	Photograph Date: October 19, 2023 Prepared By: GLE Associates, Inc.	GLE	JEA 4461 St. Johns Demo Job No. 23112-00251 Figure 3