



ARROWHEAD

Technologies LLC
Statement of Qualifications

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Company Profile

Arrowhead Technologies LLC (AT), founded in 2004 by Monte L. Hall is a professional laboratory specializing in the optical analysis of bulk building materials for the presence of asbestos by polarized light microscopy (PLM).

Our personnel have more than 30 years a combined experience in the asbestos laboratory.

Mr. Hall has over seventeen year's successful experience as Lab Director for a top-rank engineering and consulting firm's Tampa asbestos laboratory. During this time he achieved a reputation for excellence of his analytical work, for his strict Quality Control/Assurance procedures and recordkeeping, and a responsive relationship with his professional clients. Though his employer maintained several asbestos laboratories, critical or difficult samples were frequently referred to Mr. Hall.

AT is accredited by NVLAP for Analysis of Bulk Asbestos Fibers by PLM (NVLAP LAB CODE: 200703-0).

AT has designed its service for the efficient support of professional asbestos consultants. Once the samples are signed into our laboratory, all the record keeping and reporting is electronic.

We have secured professional liability insurance for the protection of our clients from a highly rated underwriter.

9232 Rhea Drive Odessa, Florida 33556
{813} 679.0720 fax {813} 926.3480

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Our Laboratory

The Lab is fully equipped with laboratory grade microscopes, sample preparation equipment such as safety hoods, stereomicroscopes, muffle oven, a full set of Calibrated Refractive Index Liquids and NIST Reference Materials as well as technical reference literature. This fully meets the NVLAP requirements per "The Method" (Method for the Determination of Asbestos in Bulk Building Materials EPA 600/R-93-116).

The laboratory also has photographic and microscopy equipment to support specialty analyses of paints, coatings and material failures including photomicrographs of polished sections and stereographic images.



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Our People

The Lab Manager and Analyst(s) are the backbone of the production. The Lab Manager directs the analytical operations and participates in the analysis, and he is responsible for direction of Quality Control/Assurance. He is required to submit periodic reports to the Lab Deputy who exercises an independent review. The Analyst(s) carry out the analysis of the samples; AT integrates the preparation of the reports with this function.

The performance of the Asbestos PLM method is strongly analyst dependent and relies on the skill, level of experience and care with which the analysis is performed. AT has designed its laboratory operations and personnel policies recognizing that the PLM method strongly depends on skill.

For this reason, the analyst must have adequate training in sample preparation, material types, and experience in the location and identification of asbestos in samples. This is accomplished through years of experience and substantial on-the-job training as well as formal education in mineralogy and microscopy. AT offers over thirty years of sample experience and visual memory to apply to your sample analysis.

We require training from recognized providers and continuing demonstrations of competence through the NIST proficiency rounds and intra-lab and inter-lab quality control rounds. In addition analyst performance is tracked through our Quality Control program, and re-training is provided when indicated.

The Bookkeeper is essential to support the efficient operation of our commercial laboratory; she is responsible for preparing invoices, recording payments and disbursing payments to vendors.



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Our Product – Reports

Our summary report is designed to quickly “get to the point”, it identifies the Consultant (your company), the Project (and your project number), the person submitting the samples, the date collected, the date received at the Lab, the Analyst and is signed by the Lab Director. The analysis method used and details of quantitation (CVAE or Point Counting) is specified.

Our laboratory system (The Laboratory Management System by Munch Technologies) also maintains details of the analysis identifying constituents as well as asbestos present in each layer. This report is produced on request to meet the NVLAP requirements for analysis by layers, which requires identification of each layer, fibrous components and other particles and binders.

AT’s system maintains this data in an on-line database, which allows prompt retrieval and reporting.

Following (Appendix A) is an example of the Summary Report.



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Office Information and Contacts

Laboratory (please ship samples to this address)

9232 Rhea Drive
Odessa, Florida 33556
Voice Phone: 813-679-0720
Fax: 813-926-3480

Contacts:

Laboratory

Monte L. Hall, P.G., President/Lab Manager Cell: 813-679-0720
Charles E. Merrill, Technical Assistant/Analyst Cell: 813-407-0808
e-mail: mhall005@tampabay.rr.com

Billing

Jennifer Fee, Bookkeeping Cell: 813.298.4711
e-mail: Billing@ArrowheadPLM.com

Website:

www.arrowheadplm.com

✂ to fit your Rolodex©



Arrowhead Asbestos Laboratory
NVLAP LAB CODE: 200703-0

Arrowhead Technologies, LLC
Monte L. Hall, President
9232 Rhea Drive
Odessa, Florida 33556
813-679-0720 office (cell)
813-926-3480 fax mhall005@tampabay.rr.com

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Representative Clients or Projects

Diversified Management & Construction, Inc.

A2L Technologies, Inc.

K S Ware Associates

District School Board Pasco County

School Board Pinellas County

J. J. Sosa & Associates, Inc.

Ardaman & Associates, Inc.

Air Quality Environmental

Greenfield Environmental

Long & Associates

American Management Resources Corp.

Environmental Engineering Consultants

Progress Energy Florida, Inc. division of Progress Energy Inc.

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AT Personnel Resumes

Monte L. Hall, P.G.

EDUCATION

University of Tulsa, BS Geology

SUMMARY OF CAPABILITIES

Lab Management and Microscopy of Building Materials

REGISTRATIONS

Professional Geologist, Florida, #1658

PROFESSIONAL SUMMARY

Mr. Hall is the president of AT and his duties include management of the firm, technical oversight, as well as analysis. He has more than 20 years experience.

Scott H. Emery, PhD.

EDUCATION

SUNY at Stony Brook, Ph.D. Ecology

SUMMARY OF CAPABILITIES

Site assessments of ecology and water quality matters; Lab Management of water quality analytical testing laboratory

TECHNICAL SOCIETIES

American Water Works Association

Ecological Society of America

Society of Wetland Scientists

PROFESSIONAL SUMMARY

Dr. Emery serves as the Lab Deputy of AT; his duties include review and oversight of Quality Control/Assurance. He has extensive experience managing the water quality testing laboratory of a large public water system.

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AT Personnel Resumes

Charles E. Merrill

EDUCATION

BS Business University of South Florida

SUMMARY OF CAPABILITIES

Microscopy of Building Materials; Technical Writer

PROFESSIONAL SUMMARY

Mr. Merrill has worked for more than 14 years as a Microscopist and also has extensive field experience as surveyor and project monitor.

He is the Technical Assistant to the President of AT and has participated in writing the Lab Manual, development of the paperless analysis system and AT's website, and business strategy.

Jennifer Fee

SUMMARY OF CAPABILITIES and DUTIES

Mrs. Fee is experienced with the accounting systems used to prepare bills, record payments and disbursements. She also assists the lab work by data entry.

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APPENDIX A

Example of Summary Report

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PLM REPORT SUMMARY

9232 Rhea Drive
Odessa, Florida 33556
813-926-2997

NVLAP Lab No. 200703-0

Client :	Professional Consulting Client	Lab Set No. :	000742
Project :	Renovation Condominiums, Units 15 & 30	AT Job No. :	06-742
Client Project No.:	8306	Report Date :	10/3/06
Identification :	Asbestos, Bulk Sample Analysis	Sample Date :	7/28/2006
Test Method :	Polarized Light Microscopy / Dispersion Staining (PLM/DS)		
	EPA Method 600/R-93/116		

On 06-07-28, thirteen (13) bulk material samples were submitted by Joe Doe Surveyor 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
000742-001	Yellow Sheet Vinyl FT-01-A	None Detected-Vinyl Surface 35% Chrysotile-Backing None Detected-Cream Mastic
000742-002	Yellow Sheet Vinyl FT-01-B	Not Analyzed
000742-003	Yellow Sheet Vinyl FT-01-C	Not Analyzed
000742-004	Painted Wallpaper & Drywall DW-01-A	None Detected-Paint None Detected-Wrap None Detected-Drywall Material
000742-005	Painted Wallpaper & Drywall DW-01-B	None Detected-Paint None Detected-Wrap None Detected-Drywall Material
000742-006	Painted Wallpaper & Drywall DW-01-C	None Detected-Joint Compound w/ paint None Detected-Wrap None Detected-Drywall Material
SAMPLE ONLY		

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. The results may not be reproduced except in full.



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Lab Sample No.	Sample Description / Location	Asbestos Content
000742-007	Painted Wallpaper & Drywall DW-01-D	None Detected-Joint Compoud w/ paint None Detected-Wrap None Detected-Drywall Material
000742-008	Painted Wallpaper & Drywall DW-01-E	None Detected-Paint None Detected-Wrap None Detected-Drywall Material
000742-009	Popcorn Ceiling Texture PCT-01-A	1% Chrysotile-Popcorn Ceiling
000742-010	Popcorn Ceiling Texture PCT-01-B	2% Chrysotile-Popcorn Ceiling
000742-011	Popcorn Ceiling Texture PCT-01-C	3% Chrysotile-Popcorn Ceiling
000742-012	Popcorn Ceiling Texture PCT-01-D	2% Chrysotile-Popcorn Ceiling
000742-013	Popcorn Ceiling Texture PCT-01-E	3% Chrysotile-Popcorn Ceiling

SAMPLE ONLY

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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.

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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 or the U.S. Environmental Protection Agency method, under AHERA, for the analysis of asbestos in building materials by polarized light microscopy. The results of each bulk sample relate only to the material tested 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 : Monte Hall, P.G.

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

SAMPLE ONLY

Approved Signatory :



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APPENDIX B

Chain of Custody

*(This form can be downloaded directly from our website
www.ArrowheadPLM.com
lower right-hand corner of the screen)*

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