



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



EMLab P&K

A TestAmerica Company

STATEMENT OF QUALIFICATIONS

May 2017

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SECTION 1

COMPANY OVERVIEW

1.1 EMLab P&K

EMLab P&K, a TestAmerica company, is the leading commercial Indoor Air Quality (IAQ) laboratory in North America, specializing in the analysis of air, water and surface samples for mold (fungi), asbestos, bacteria, lead radon, and allergens. With over 30 years experience in fungi and bioaerosol analysis, EMLab P&K has helped pioneer the IAQ industry. We maintain AIHA-LAP, LLC and NVLAP accreditations as well as various state certifications with a goal of providing the highest quality analysis and service in the industry.

EMLab P&K supports a diversified client base including IAQ consultants, industrial hygienists, environmental specialists, mold remediation and HVAC contractors, hospitals and medical professionals, building owners and commercial property managers, home inspectors, engineering and construction firms, insurance, real estate, and legal professionals. Clients also include federal, state, and local government health departments throughout the United States, as well as university researchers.

EMLab P&K employees have contributed numerous publications and abstracts to the IAQ community and provide training across the country. All of our analysts have received extensive training and participate in ongoing, industry leading quality assurance and training programs. Many of our analysts have advanced degrees. Our reference library contains hundreds of volumes covering every aspect of mycology, bacteriology, aerobiology, immunology, and indoor air quality as it relates to bioaerosols. We are committed to providing our customers with outstanding service, quality, and support.

EMLab P&K also offers a full line of IAQ equipment, supplies, online services for tracking projects and ordering supplies, and an unparalleled project management program to ensure excellent customer service.

EMLab P&K is the one-stop location for information, resources, training, analyses, sampling equipment and supplies for the global environmental industry. Environmental professionals worldwide use the EMLab P&K team to meet their microbial, and traditional environmental analytical needs. EMLab P&K consistently provides the support necessary to allow clients to do the best job possible. The EMLab P&K team's mission is to deliver quality, timely, and legally defensible data, immediate responsive service and short turnaround times to clients worldwide.

With vision, excellence, service and quality, the EMLab P&K team delivers the finest results.

That's the EMLab P&K difference!

1.2 FACILITIES

EMLab P&K has multiple locations nationwide to help produce quick, accurate, and dependable results. Our facilities are equipped with cutting-edge technology, which allows EMLab P&K to offer you advanced analyses and expedient turn-around times.

Staffed with highly trained and degreed professionals, including mycologists, registered microbiologists, certified Indoor Air Quality professionals, and those at the Masters and Ph.D. level, our IAQ laboratories are located in state of the art facilities capable of administering your laboratory needs.

1.3 ANALYTICAL SERVICES AND CAPABILITIES

EMLab P&K specializes in the analysis of IAQ and environmental samples. We analyze volumetric air samples (spore trap), surface samples (tape, swabs), dust and bulk via direct microscopic examination for fungi and other particles. Our culture services include fungal and bacterial enumeration as well as identification to the genus and species level for air and other sample types.

EMLab P&K additionally offers a variety of non-biological environmental laboratory services. These include Polarized Light Microscopy (PLM) and Phase Contrast Microscopy (PCM) services for asbestos; and Radon services via the E-PERM® method. Through our parent company TestAmerica Laboratories, Inc. we are also able to offer a wide range of services including Industrial Hygiene services, aquatic toxicity, specialty organics, dioxins, radiochemistry, and mixed waste testing.

We also offer comprehensive services to detect and characterize *Legionella* contaminations via culture methods and Polymerase Chain Reaction (PCR). We support environmental monitoring for pharmaceutical compounding (USP<797> and USP<800>) and we offer a variety of other tests to serve our clients. Those tests include screen for sewage related bacteria, evaluation of dust for allergens (ELISA and MARIA®), bacterial endotoxins, PCR tests for avian pathogens and Environmental Moldiness Index (ERMI).

EMLab P&K has the capacity, with its analytical and sampling capabilities, to undertake all aspects of environmental projects which allows for easier project oversight. The analytical staff at EMLab P&K brings numerous years of experience in an array of industries including water and wastewater, biochemistry, mycology and microbiology. All analyses are conducted by qualified analysts under the direct supervision of a Registered Microbiologist, Ph.D. level chemists, microbiologists or mycologists, those holding a master's degree, or with a corresponding acceptable amount of prior industry experience. In order to ensure the highest quality, legally defensible data, all laboratory analysts meet stringent education, experience, training and certification requirements.

All routine analyses are conducted using methods either accredited to the ISO 17025:2005 standards mandated by accreditation requirements, recognized published methods or methods developed and extensively validated by the laboratory, including, but not limited to the following:

- ◆ ISO/IEC 17025:2005*: General Requirements for the Competency of Test and Calibration Laboratories.
- ◆ 40 CFR, Part 136, Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Appendix A to Part 136, Revised July 1, 1995.
- ◆ Bioaerosols Assessments and Control, ACGIH, 1999.
- ◆ Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Center for Environmental Research Information Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH, January, 1999.
- ◆ DBP/ICR Analytical Methods Guidance Manual, EPA 814/P94-001, January 1994.
- ◆ FDA Bacteriological Analytical Manual, 8th edition, 1995.
- ◆ Guidelines for the Assessment of Bioaerosols in the Indoor Environment, American Conference of Governmental Hygienists, Cincinnati, Ohio, 1989.
- ◆ Manual for the Certification of Laboratories Analyzing Drinking Water, Office of Ground Water and Drinking Water, Cincinnati, OH 45268, EPA 815-B-97-001, March 1997.
- ◆ Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93-100 August 1993.
- ◆ Methods for the Determination of Metals in Environmental Samples, EPA/600/R-94-111 May 1994.
- ◆ Manual of Clinical Microbiology, American Society for Microbiology, 7th edition, 1999.
- ◆ Manual of Environmental Microbiology, 2nd edition, ASM, 2001.
- ◆ National Primary Drinking Water Regulations, 40 CFR Part 141, July 1, 1998.
- ◆ NIOSH Manual of Analytical Methods, Cassinelli, M.E. & [O'Connor, P.F.](#), Eds., 4th ed., DHHS (NIOSH) Publication 94-113, August, 1994.
- ◆ OSHA, U.S. Department of Labor, Occupational Safety & Health Administration, 200 Constitution Avenue, Washington, D.C. 20210.
- ◆ Official Methods of Analysis, AOAC International, 16th edition, 1995.
- ◆ Standard Methods for the Examination of Water and Wastewater, 21st edition, 1995.
- ◆ Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA publication SW-846, Third Edition, September 1986; Final Update I, July 1992; Final Update IIA, August 1993; Final Update II, September 1994; Final Update IIB, January 1995; Final Update III, December 1996.
- ◆ United States Pharmacopoeia, USP 24, 2000.

1.4 INDOOR AIR QUALITY CAPABILITIES

EMLab P&K Indoor Air Quality (IAQ) facilities are individually accredited by the American Industrial Hygiene Association Laboratory Accreditation Program, LLC (AIHA-LAP, LLC)* to perform analyses using the most advanced analytical testing procedures available for the analysis of:

- ◆ Mold/Fungi
- ◆ Bacteria
- ◆ *Legionella*
- ◆ Asbestos PCM

Other services include:

- ◆ USP<797> and USP<800>
- ◆ Asbestos PLM bulk
- ◆ Endotoxins
- ◆ Avian pathogens
- ◆ Radon
- ◆ Lead
- ◆ Allergens
- ◆ Wood decay
- ◆ Particulate Characterization

In addition, EMLab P&K provides analytical services and sampling equipment to a wide variety of clients. EMLab P&K IAQ is equipped to analyze samples from a diverse group of matrices including, but not limited to:

- ◆ DustChek™ Cassettes
- ◆ EndoFree™ Cassettes
- ◆ Liquid Samples
- ◆ MCE Filters (Allergens/Metals/Dust)
- ◆ PCM/TEM Air Filter Cassettes
- ◆ Spore Traps
- ◆ Swab Samples
- ◆ Tape Samples
- ◆ Aerotech 6®
- ◆ Bulk Samples
- ◆ Culture Media Samples
- ◆ Micro-Vac Carpet/Dust Cassettes
- ◆ PCR Air Filter Cassettes
- ◆ Endotoxin Air Filter cassettes

*Facility specific scope of accreditation available upon request and also online at www.emlab.com.

SECTION 2

SERVICE

2.1 PROJECT MANAGEMENT

EMLab P&K believes its success ultimately depends on each client's satisfaction with its products and services. EMLab P&K's client services department is staffed with individuals dedicated to providing clients with exceptional service 100% of the time. A dedicated Project Manager is assigned to each client to make their EMLab P&K experience as convenient and easy as possible. This project manager is responsible for assessing client needs, assuming custody of all samples upon receipt, coordinating all analytical processing, and reporting final results. Project Managers are the client's advocate and "voice" at EMLab P&K, functioning as the liaison between clients and all departments of the laboratory. They ensure that the capacity to conduct analyses is available, and that analyses are completed within the allotted turnaround time.

In addition to handling your account and project needs, EMLab P&K Project Managers also keep EMLab P&K and its clients informed of all the latest technical developments. EMLab P&K believes that by continuously educating clients as well as staff, it is possible to sustain the lead in an ever-changing industry. Project Managers are typically degreed professionals and have diverse backgrounds in chemistry, biology, and physics and are dedicated to educating both EMLab P&K staff and clients.

2.2 PRODUCTS

The EMLab P&K Products Division has more than two decades of IAQ product sales experience and helped shape product sales in the IAQ industry. We offer IAQ sampling supplies and testing equipment to support a wide range of clients worldwide. We are an authorized distributor for over 25 different manufacturers of high quality IAQ sampling products and supplies.

EMLab P&K Products is dedicated to the development, production and distribution of IAQ sampling equipment and supplies. Our mission is to provide clients with a full range of reliable equipment and supplies at competitive prices with knowledgeable, friendly customer service. EMLab P&K Products carries a full line of IAQ products.

Our product line includes:

- ◆ Asbestos Sampling
- ◆ Rental Equipment
- ◆ Moisture Meters
- ◆ Particle Counters
- ◆ IAQ Meters and Dataloggers

- ◆ Lead Sampling Supplies
- ◆ Sampling Media
- ◆ Sampling Pumps
- ◆ Thermal Imaging Cameras
- ◆ Personal Protection Equipment
- ◆ Borescopes
- ◆ Infrared Thermometers
- ◆ Water Sampling Supplies
- ◆ Allergen Sampling Supplies
- ◆ Gas Detection
- ◆ Radon Sampling Supplies
- ◆ Training and Educational Videos and Books

Fast Track Ordering and Shipping

EMLab P&K Products adds a personal touch to its customer service. Orders are taken quickly and efficiently and in most cases products and supplies are shipped on the same day the order is taken. Orders can be placed via phone, fax, email, or on-line at www.emlab.com/store.

EMLab P&K Products
1501 West Knudsen Drive
Phoenix, AZ 85027
Toll-Free: 888.836.5227
Fax: 623.445.6255
Email: products@emlabpk.com

2.3 EMLab P&K CENTER FOR ENVIRONMENTAL TRAINING

The Center for Environmental Training (CET) brings Indoor Air Quality (IAQ) theory and design to the classroom. This was developed for professionals with a beginning to moderate level of experience in the IAQ field. CET utilizes the laboratory's scientific depth to develop and teach cutting edge IAQ training. CET partners with other industry leaders and training providers to build and improve training programs for the growing IAQ industry.

These IAQ webinars provide a unique and valuable opportunity to meet, learn and discuss your questions with an industry leading laboratory with decades of experience in fungal analysis and IAQ investigations.

Our IAQ webinars were developed for professionals with a moderate level of experience in the IAQ field. You will learn about and discuss industry trends and IAQ methodologies with informed IAQ professionals. These webinars are presented by industry leaders including David Gallup, Dr. Harriet Burge and Dr. Michael Berg.

Topics include:

- ◆ Mold and Health Effects
- ◆ Strategies for Mold Investigations and Sampling
- ◆ Fungal Data Interpretation
- ◆ Infection Control and Environmental Sampling
- ◆ Introduction to Bacteriology
- ◆ *Legionella* Contamination
- ◆ Sewage Contamination: Microbiology, Health Risks and Remediation
- ◆ <USP> 797 and Environmental Sampling

Continuing Education Units (CEU's) offered:

- ◆ ABIH
- ◆ ACAC
- ◆ BCSP
- ◆ BCRSP
- ◆ CRBOH
- ◆ InterNACHI

2.4 DATA MANAGEMENT

EMLab P&K has the scientific expertise to perform a broad range of non-routine analyses. The laboratory also routinely performs special projects for clients, including the development of experimental procedures, analyses, and custom reporting.

In addition, EMLab P&K also offers the following services to its clients:

Online Account and Data Access with LabServe™

Here is a brief overview of our LabServe™ system which will allow you to access your account:

LabServe™ is online customer service 24 hours a day anywhere you have Internet access. LabServe™ saves you valuable time in data management and report writing, while creating a secure archive of your projects and reports.

Here's what you can do with LabServe™:

- ◆ Manage your data any time - day or night
- ◆ Control your account preferences
- ◆ Create electronic Chains of Custody
- ◆ Create custom-formatted reports
- ◆ View projects as analyses are completed
- ◆ Download official archived reports
- ◆ Research common fungal genera
- ◆ Order sampling supplies and equipment
- ◆ View invoices and account statements

Custom Report Formats

EMLab P&K customers have the freedom to design custom report formats for the reporting of your analytical results. EMLab P&K will create these custom reports that are pre-designed for your specific format and not require your staff to transfer the results from one format to another. As with all of EMLab P&K's reports, these will be available for download at any time, in any file format.

Sample Storage and Disposal

Most samples are stored for 30 days following the initial delivery of the analytical report. Exceptions are (1) extracts for allergens and Polymerase Chain Reaction – 60 days; and (2) mycology and bacteriology plates – 14 days. EMLab P&K disposes of all samples after the storage time and complies with all U.S. Environmental Protection Agency regulations and federal, state and local laws when disposing of samples.

Customized Chains of Custody

EMLab P&K provides its clients with complimentary chains of custody that have the client's contact information pre-printed upon request.

Free Overnight Inbound Shipping

You can send your samples to any of EMLab P&K's locations free of charge by using the special, pre-printed FedEx® shipping labels. To obtain FedEx labels please contact your Project Manager or Regional Account Manager

SECTION 3

DEDICATION

3.1 KEY PERSONNEL

One of EMLab P&K's key attributes is its unique mix of qualified, experienced, and talented personnel. EMLab P&K's analytical staff includes college degree and highly trained analysts, the majority with advanced degrees. The company has an industry-leading management and scientific team.

Dave Gallup - Co-founder of EMLab P&K

For more than two decades, Dave Gallup has positioned EMLab P&K as the leader in the IAQ industry by ensuring the company consistently provides the highest quality and service to clients. Through his leadership and expertise, EMLab P&K has developed innovative tools that help environmental professionals including: MoldRANGE™, MoldSCORE™ and Local Climate reports, automated QA/QC processes, the patented BioCassette™ air sampling device, and the industry leading LabServe® smart phone app, among many other innovations. Dave holds eight patents and received his B.S. in Engineering and Applied Science from the California Institute of Technology, as well as an M.S. in Mechanical Engineering from Stanford University.

Harriet Burge, Ph.D. - Director of Aerobiology

Dr. Harriet Burge is the company's Director of Aerobiology and Chair of EMLab P&K's Scientific Advisory Board. Widely considered the leading expert in Indoor Air Quality, Dr. Burge helped pioneer the field more than 30 years ago. Dr. Burge has served as a member of seven National Academy of Sciences committees for indoor air quality, including as vice-chair of the Committee on the Health Effects of Indoor Allergens. She is currently a member of the ASHRAE Standard 62 (Ventilation for Indoor Air Quality) Committee, serves on the Board of Directors of the New England Chapter of the Asthma and Allergy Foundation of America, and is a Fellow of the American Academy of Allergy and Immunology and the American College of Allergy and Immunology. She has more than 50 peer reviewed publications, and has authored several books. Dr. Burge was instrumental in the development of the "Bible" of our industry: "*Bioaerosols – Assessment and Control*", by serving as assistant editor and author of several chapters.

Michael Berg, Ph.D. – Regional Laboratory Technical Director

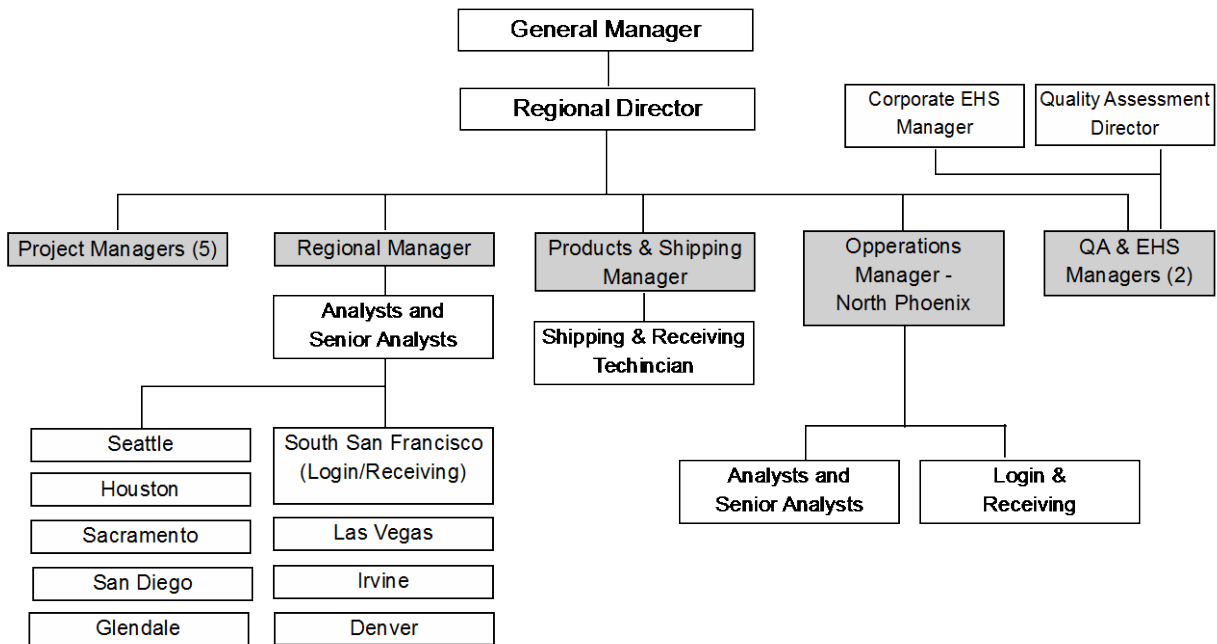
Dr. Berg joined EMLab P&K in 2005 and worked as Department Manager and Regional Director before taking the position of Technical Director. He is a native German and holds a Ph.D. in Biology from the Technical University of Darmstadt, Germany. Dr. Berg relocated to the United States in 1999 and carried out research in the field of plant pathology and plant genetics as postdoctoral fellow at Oklahoma State University in Stillwater, OK. He also worked in the area of fungicide research for BASF in Ludwigshafen, Germany. During his tenure at EMLab P&K, Dr. Berg authored a number of technical newsletters and has been invited to speak at workshops and meetings for the Indoor Air Quality Association (IAQA) on the use of DNA based detection systems and opportunistic pathogens. Dr. Berg is responsible for the overall operations and quality of service provided by the EMLab P&K Georgia (Atlanta), Florida (Ft. Lauderdale), New Jersey, Illinois (Chicago) and Virginia (Fairfax), laboratories.

Kamash Ramanathan, Ph.D. - Regional Director West Coast

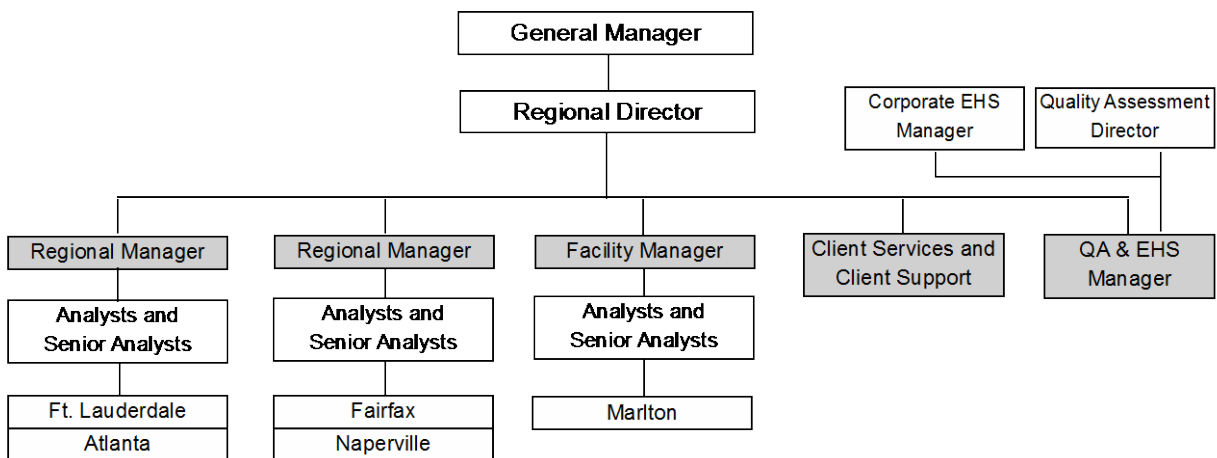
Dr. Kamash Ramanathan received his Ph.D. in Microbiology, Molecular Biology and Biochemistry from the University of Idaho. He joined EMLab P&K in 2001 after years of conducting scientific research and teaching in the field of microbiology. Dr. Ramanathan possesses vast experience in laboratory management and is a member of various academic and scientific organizations and serves as a technical expert in the field of microbiology and molecular biology. Dr. Ramanathan is responsible for the overall operations and quality of service provided by the EMLab P&K California (South San Francisco, San Diego, Sacramento, Irvine, Glendale), Arizona (Phoenix), Nevada (Las Vegas), Washington (Seattle), Colorado (Denver) and Texas (Houston) laboratories.

EMLab P&K Laboratory Organizational Charts

Western and Central Region Organization



Eastern Region Organization



Note:
 QA & EHS Manager has a direct reporting relationship to both operations leadership and corporate functional leadership

3.2 HEALTH AND SAFETY

EMLab P&K's Management team is committed to providing a work environment that is free of recognized environment safety and health hazards. It is our policy, and is fundamental to our management principles, that all work will be conducted in a manner that is safe to the employee, the community and the environment. By empowering each employee with the right, the responsibility, and the resources to make safe decisions, we ensure the success of our health and safety programs.

We recognize that health and safety is a team effort. Safety originates at the highest level of management. However, every employee, regardless of position is expected to assume responsibility for their actions and the actions of others around them. Adherence to Environment Health and Safety procedures is mandatory for every employee and is considered an integral part of each employee's performance.

The Corporate Safety Manual is the primary component of the Hazard Communication/Waste Management Plan. For regulatory purposes this document serves as the Chemical Hygiene Plan for laboratory activities and the Hazard Communication Program for non-laboratory activities. This document incorporates responsibilities, procedures, protective equipment as well as facility requirements for our operations.

3.3 CLIENT CONFIDENTIALITY & PROPRIETARY RIGHTS

Data and sample materials provided by the client or at the client's request, and the results obtained by TestAmerica and/or EMLab P&K, are held in confidence subject to any disclosure required by law or legal process. Our reports and the data and information provided therein, are for the exclusive use and benefit of the client, and are not released to a third party without written consent from the client.

SECTION 4

QUALITY

4.1 QUALITY SYSTEMS

The reliability of test results depends on many factors such as the personnel performing the tests, environmental conditions, selection and validation of test methods, equipment performance, measurement traceability, as well as the sampling, storage and handling of test items, all of which are a reflection of the laboratory's overall quality system. EMLab P&K has modeled its quality system after ISO 17025:2005 Guidelines, one of the most stringent sets of standards in the industry, to ensure that its clients receive the high standard of accuracy, reliability, and impartiality that they have come to expect from a leader in the environmental industry.

The quality assurance staff is well regarded, bringing numerous years of experience in an array of industries. This dedicated group of individuals is responsible for all aspects of the EMLab P&K quality system, including but not limited to:

- ◆ Quality system manual
- ◆ All standard operating procedures (SOP)
- ◆ Documentation of personnel training
- ◆ EMLab P&K's proficiency testing program
- ◆ All laboratory accreditations and licensures
- ◆ Internal and external audits
- ◆ Internal root cause investigation system (Corrective action program)
- ◆ Quality assurance management database
- ◆ Instrument maintenance and repair
- ◆ Statistical quality control
- ◆ Laboratory safety

EMLab P&K's Quality Assurance Manual which details its complete quality assurance program is available upon request.

4.2 ACCREDITATIONS

The benefits of using an accredited laboratory are important to you, the client, because accreditation is a measure of competency. It is the formal recognition from an outside agency that the laboratory is competent to carry out the specific tests it offers and is an indicator of the quality of the test results that the laboratory produces. EMLab P&K adherence to the standards set forth in the ISO 17025:2005 guidelines has been validated and formally recognized through accreditations granted by independent outside agencies including the American Industrial Hygiene Association Laboratory Accreditation Programs (AIHA-LAP, LLC EMLAP & IHLAP programs), National Voluntary Laboratory Accreditation Program (NVLAP), Texas DSHS, NEHA NRPP (Radon in air), CO-ELAP, LELAP, MA-DOS, Rhode Island DOH, Virginia DPOR, West Virginia BPH, CA-ELAP, CT-ELAP, Philadelphia DPH, Connecticut DPH, TCEQ NELAP and NY-ELAP. This commitment to high standards is a reflection of the commitment to you, the client, to provide the best possible testing available in the industry.

4.3 PROFICIENCY TESTING

As an additional measure to demonstrate its competency to perform the analyses it offers to its clients, EMLab P&K also participates in a variety of different proficiency testing programs, including the Environmental Microbiology Proficiency Analytical Testing Program (EMPAT) for mold and bacteria, the Environmental Lead Proficiency Analytical Testing Program (ELPAT) for mold and bacteria, and Industrial Hygiene Proficiency Analytical Testing Program (IHPAT) for asbestos PCM, the three programs driven by the American Industrial Hygiene Association Proficiency Analytical Testing program (AIHA-PAT, LLC). Some other proficiency programs EMLab P&K participates in are the NVLAP for asbestos bulk, WP and WS studies for bacteria in Drinking water, as well as the CDC Elite *Legionella* PT program. These programs serve as a type of external quality control to measure a laboratory's accuracy and to verify that the performance of each test site is in line with other labs performing the same analysis.

4.4 SCIENTIFIC INSTRUMENTATION

Biolog MicroLog™ System

The Biolog Microlog™ is designed to read and interpret various bacterial, fungal, and yeast samples to the species level. There are 752 fungal and yeast species, as well as 1,221 bacterial species within the Biolog's Database. Biolog's innovative, patented technology uses each microbe's ability to use particular carbon sources to produce a unique pattern or "fingerprint" for that microbe.

MIDI System

The microbial identification system MIDI (**M**icrobial **I**dentification **I**nc.) is based on characterizing bacteria and yeasts using fatty acid methyl ester analysis by gas chromatography (GC-FAME). Microbial isolates are cultured at standardized conditions and the genus and/or species is determined through comparison of the FAME profile against a database with over 1,500 microbial species.

ABI Thermal Cycler®

The ABI Thermal Cycler® is a real-time Polymerase Chain Reaction (PCR) system with 384-well capability. The ABI Thermal Cycler® is used to quickly identify and quantify microbial organisms.

LightCycler™

The LightCycler™ performs real-time quantitative PCR with the ability to multiplex probes. The instrument is used to quickly identify and quantify microbial organisms.

In addition, all equipment is operated by authorized, trained personnel and maintained according to the manufacturer's specifications. All descriptions of service, dates, types of repair, and the person performing the actions are recorded in an equipment maintenance logbook unique to each instrument. Out of service equipment is isolated or clearly labeled until it has been repaired and shown by calibration or test to perform correctly. Where applicable, all equipment is calibrated with standards that are traceable to the National Institute of Standards and Technology or other applicable national standards.

SECTION 5

EXPERIENCE

5.1 PROJECT EXPERIENCE

EMLab P&K has provided Indoor Air Quality testing for over 30 years. We specialize in the analysis of air and service samples for mold (fungi), asbestos, bacteria, radon, and allergens. Developing productive, on-going relationships with our clients is the cornerstone of our success. EMLab P&K's client base is widely varied; some of the types of clients and projects we serve are listed below.

Project Experience

| Client | Project Type | Project Highlights |
|---|---------------------------|--|
| Environmental and Engineering Services Firm | Residential Asbestos | Perform PLM analysis of over 62,000 samples from residential homes prior to being demolished as a result of Hurricane Katrina. |
| Environmental and Engineering Services Firm | IAQ | Perform both microscopic and cultured mold analysis for company's various mold inspection/remediation projects. Often requests same-day result turnaround. |
| Environmental and Engineering Services Firm | IAQ | Perform over 1,200 PCR analyses for mold in buildings damaged after 9/11. |
| Environmental Consultant | Residential Investigation | This client had a homeowner who was complaining of various health problems and could not determine the source. The homeowner believed that it might have come from several oddly discolored areas and items around the house. EMLab P&K performed several tests on the samples submitted by the client to determine what caused the discoloration. Among the analyses were microscopic mold screens, mold and bacteria cultures, pesticide analysis, protein swabs, UV light applications, and VOC analysis. |
| Engineering firm | School | EMLab P&K provided IAQ analysis for a firm that conducted an investigation on a large school district to determine if extensive remediation should be done to ensure the safety of its students and staff. This project included more than 300 samples. |
| Engineering Firm | Apartment Building | EMLab P&K provided IAQ analysis for a firm that conducted an investigation on a large apartment building to ensure its tenants were not being exposed to airborne contaminants. This project included more than 300 samples. |
| IAQ Consulting | Restaurant | This company did mold sampling for a high profile restaurant. Large amounts of money would be lost by closing the business while mold remediation was being completed. EMLab P&K was able to provide same day service so remediation could be finished and the business reopened quickly. |

| Client | Project Type | Project Highlights |
|----------------------------------|------------------|---|
| Engineering Firm | Chemical Testing | This company contacted EMLab P&K looking for sampling guidance for a residential job. The homeowner had a faint orange tint on the walls, furniture and ceiling. With the help of an EMLab P&K associate, the client decided to test for sulfate. The results were positive for this compound. |
| Hospital | IAQ | This client does air sampling on an as-needed basis in a hospital. Exam rooms and surgical units are commonly sampled. |
| School District | Schools | EMLab P&K provides IAQ analyses for 125 schools located in this district. Testing is performed on an as needed, as well as rush basis to ensure students are protected from the hazards of mold due to leaks and other maintenance issues. The analyses include air, bulk, surface and dust samples. |
| General Environmental Consultant | Residential | This company currently has 14 offices in Southern California, with a franchise agreement for 51 additional areas. Working closely with realtors, testing is performed for homebuyers prior to purchase. EMLab P&K analyzes air, bulk, surface and dust in the home environment to determine if the building is healthy. |
| General Environmental | IAQ | Provided genus as well as species identification for residential testing using air and bulk samples. Client also uses speciation results in an ongoing epidemiological study. |
| General Environmental | IAQ | This client performs residential testing using air and surface samples. EMLab P&K performs the analysis for their pre- and post-remediation testing, and they frequently utilize the same day turnaround service. |
| Army Health Center | IAQ | This client performs routine fungal and bacterial testing on their Army base. |
| State Treasury Department | IAQ | Perform mold analysis on over 300 samples performed during Indoor Air Quality assessment and remediation. |
| General Environmental Consultant | Residential | Client sampled hundreds of homes on an Indian reservation where air, bulk and swab samples were taken. Clearance testing was to be performed by the community. |
| Environmental Consulting Firm | Schools | EMLab P&K performed laboratory analyses that resulted in temporary high school closure and student relocation due to mold contamination of the campus. |
| State Housing Authority | IAQ | Performed PCR and culturable analysis on cooling tower and potable water samples taken during a <i>Legionella</i> outbreak that resulted in fatalities. Samples were taken to confirm the results obtained by the State Health and Human Services Department. |

| Client | Project Type | Project Highlights |
|--------------------------|--------------|---|
| Environmental Consultant | Hospital | EMLab P&K provided analytical support and expertise to investigate a <i>Legionella</i> outbreak in a large metropolitan hospital. Once the environmental sources of <i>Legionella</i> were established and remediated, a monitoring program was established and maintained. |
| IAQ Consultant | Bank | EMLab P&K provided onsite spore trap analysis for a high security facility over a period of many weekends. |
| Cruise Ship Operator | Cruise Ships | EMLab P&K provided routine sampling and analytical services to detect and quantify pathogens (including <i>Legionella</i>) from showerheads, pools, and other environmental sources. |