LABORATORY

Farmer Environmental Services, LLC (FES) can develop creative, cost-effective solutions to any environmental dilemma. We believe that any problem can be solved quickly and economically when you have FES working with you. We offer comprehensive testing services for:

- **Asbestos**
- **Arsenic**
- **IAQ/Mold**
- **Mercury**
- **Lead**
- **Radon**
- **Silica**

As well as:

- **Asbestos Training**
- **Phase I & II Site Assessment**

Our **in-house laboratory** is a successful participant in the Proficiency Analytical Testing Program (PAT) which is administered by American Industrial Hygiene Association (AIHA) using NIOSH methodology. FES is currently in the application process and plans to be a future participant in the National Voluntary Laboratory Accreditation Program (NVLAP) which is administered by the National Institute of Standards and Technology (NIST).

We perform analysis on both air and bulk asbestos samples.

Air sample analysis is done using National Institute for Occupational Safety and Health (NIOSH) approved methods: phase contrast microscopy (PCM) with some samples sent for confirmation by transmission electron microscopy (TEM). PCM sample analysis can be provided in two hours or read on site.

Bulk sample analysis is done using United States Environmental Protection Agency (EPA) approved methods; polarized light microscopy with dispersion staining (PLM/DS) and point counting. Some samples are sent for TEM for confirmation and thus provide greater resolution and an elemental analysis of fibers for positive identification of asbestos.

TRAINING

FES provides 2-hour OSHA-required courses for building engineering and maintenance personnel as well as construction workers, all of whom may disturb asbestos-containing materials and lead-based paint in the course of their work.

FES's training staff possesses over 40 years of hands-on experience with abatement design and project management and 20 years of health and safety experience.

Attendees learn proper procedures for working with and around asbestos and lead-based paint from experts who have real-world knowledge and expertise.

Farmer Environmental Services, L.L.C
P.O. Box 382
108 Emerald Hills Drive
Edwardsville, IL 62025
Phone 618.656.6988
866.656.6988
Fax 618.656.8353
www.farmerenv.com
email: brian@farmerenv.com

For over a decade, the experts at Farmer Environmental Services, L.L.C. have helped thousands of customers deal with environmental issues in a fast, safe, and economical manner. Every project receives our full attention to detail. There is no limit to what we will do to insure our customers are completely satisfied.

FARMER ENVIRONMENTAL SERVICES

ASBESTOS

FES is one of the most experienced asbestos consulting firms in the Southern Illinois and Eastern Missouri region, recognized for its quality investigations and cost-effective solution in asbestos management and removal.

FES combines this expertise in asbestos with a solid foundation in construction management, providing FES clients with superior problem solving capabilities. FES has surveyed over 1,000 buildings and successfully designed and managed more than $10 million in asbestos abatement contracts. FES provides:

- IDPH &MDNR Licensed Staff
- Building Inspection & Sampling
- Management Planner (AHERA)
- Full Service Laboratory
- Project Design
- Project Mgmt.
- Air Monitoring
- Training

FES develops creative, cost effective solutions to asbestos problems – including public relations support – and oversees all aspects of the asbestos abatement project, from initial planning through final documentation.
FES has designed and managed over 1,000 abatement projects for homes, schools, colleges, high-rise office buildings, commercial, and industrial properties.

Every aspect of the project is closely managed, including collection and analysis of air samples, containment inspections, pressure differential monitoring, and clearance visual inspections.

Throughout the project, FES monitors budget and constructions schedules to track contractor productivity and ensure that budgets and deadlines are met.

www.farmerenv.com

LEAD

Lead is a highly toxic metal that was used for many years in products found in and around our homes. Exposure to lead can poison children and adults alike although children are the most susceptible. Lead may cause a range of health effects, from behavioral problems and learning disabilities, to seizures and death. Research suggests that the primary sources of lead exposure for most children are: deteriorating lead-based paint, lead contaminated dust, and lead contaminated residential soil.

In order to protect individuals from exposure to lead hazards and our clients from potential liabilities, FES provides comprehensive risk assessments for multifamily housing, schools, day care centers, facility owners and managers, developers, and potential buyers.

FES's IDPH-Certified Lead Inspectors and Risk Assessors perform surveys to meet various OSHA, HUD, and EPA regulatory requirements using both destructive and nondestructive XRF Spectrum Analyzer sampling.

FES uses XRF Spectrum Analyzer sampling to determine the amount of lead in a painted surface. The XRF analyzer provides reading in 30 seconds without disturbing or damaging the surface, significantly reducing survey fees.

Before demolition of a building can take place, FES will perform a toxicity characteristic leaching procedure (TCLP) to determine if the waste must be disposed of as a hazardous material or as regular construction debris.

Abatement project monitors provide oversight during lead abatement activities, perform air sampling, and post abatement visual and wipe sampling for final clearance of work areas.
We also test for lead in soil, dust, and water.

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IAQ / MOLD

Most people are aware that outdoor air pollution can damage their health but many do not know that indoor air pollution can also have significant health effects.

Environmental Protection Agency studies of human exposure to air pollutants indicate that indoor levels of pollutants may be 2-5 times, and occasionally more than 100 times, higher than outdoor levels. These levels of indoor air pollutants may be of particular concern because most people spend about 90% of their time indoors. The EPA estimates that 60 percent of the buildings in the U.S.A. have poor indoor air quality.

It takes several disciplines to properly evaluate indoor air quality, including mechanical engineering, building construction expertise, and industrial hygiene.

FES's staff combines the services to accurately evaluate the indoor air quality of any building :

- Evaluations of existing HVAC system's design and operation
- Building occupant studies evaluating symptoms and complaints
- Air sampling for specific compounds, when indicated

- Implementation of operation and maintenance programs to prevent IAQ problems

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