



Earth Science Engineering, LLC, Clarksville and Nashville, TN



Hidden Hazards in Your Building!?

Thinking of renovations for your building or interested in buying an existing building for your business?

Hazardous building materials are one of the most common problems in renovation and repair construction. If the building was built over 20 years ago, it is likely that it will have at least some hazardous building materials.

Such structures may contain significant amounts of asbestos in the ductwork, wall coverings, flooring, roof material or even the caulking. Asbestos is costly to abate. Heating systems in these buildings are assumed to contain asbestos taping and materials unless testing proves otherwise.

Lead may be present in bricks and water pipes as well as lead-based paint if

the building was painted prior to 1978. The elimination of lead is of primary importance if the building is to be occupied by pre-school age children.

Other materials that are environmental hazards include mercury and polychlorinated biphenyls (PBCs) in contact switches, light ballasts, and electrical relays as well as the chlorofluorocarbons (CFCs) in air conditioners and refrigeration units.

However, there are ways to make certain building improvements that are not disrupted due to the environmental concerns of these materials. These start with conducting a site investigation prior to renovation or repair to reveal the likelihood of environmental hazards. If such materials are found after the repair or renovation has been initiated, the additional costs for abatement may

result in temporary or permanent project delays.

The purpose and scope of an environmental site assessment will determine if any hazardous building materials are present within a building. Site investigations are typically divided into two phases: Phase I is a visual investigation and historical review of the building's history to ascertain the likelihood of containing hazardous materials; Phase II conducts actual material testing to verify the presence of hazardous material and to quantify the hazardous materials in the building.

The earlier in the project planning the environmental site assessment is conducted the more successful the project outcome. The early assessment will allow time for input from all parties concerned with the project.



All Appropriate Inquiries Update

The federal regulation, 40 CFR Part 312 – *Standards and Practices for All Appropriate Inquiries* was released on November 1, 2005. The regulation's provisions must be met by any purchasers seeking to

qualify for CERCLA liability protection as an innocent landowner, bona fide prospective purchaser, or contiguous property owner. It will certainly affect any party receiving a brownfields grant. The

regulation will become effective on November 1, 2006. The regulation is available for downloading from the US Environmental Protection Agency's website: www.epa.gov.

Earth Science Engineering, LLC
 201 West Dunbar Cave Road
 Clarksville, TN 37040

Phone
 (931) 645-8008

Fax
 (931) 645-0180

E-mail
 info@earthscienceeng.com

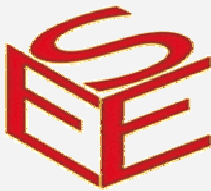


Earth Science Engineering, LLC
 5543 Edmondson Pike, # 103
 Nashville, TN 37211

Phone
 (615) 319-0113

Fax
 (615) 299-9402

E-mail
 bjo@earthscienceeng.com



We're on the Web!
 See us at:
www.earthscienceeng.com

Have a Merry
 Christmas and
 a Happy New Year!

Aboveground Storage Tanks

Aboveground storage tank (ASTs) facilities are required to maintain and implement a Spill Prevention Control and Countermeasure Plan (SPCCP) if the facility has the capacity to store more than 1,320 gallons of fuel or regulated substances. An SPCCP details maintenance and safety instructions. The compliance deadline is

February 17, 2006 to create or amend an existing SPCCP. The SPCCP must be implemented by August 18, 2006.

Fuel containing ASTs are either manufactured per American Petroleum Institute (API) requirements or manufactured per Underwriter's Laboratory (UL)

142 standard. ASTs may be single or double wall. Double wall ASTs incorporate secondary containment and are not required by most fire codes to have secondary containment, as long as they are smaller than 12,000 gallons. If manufactured according to UL 2080 requirements, the AST is fire resistant.

The New Energy Policy Act

Provisions of the Energy Policy Act of 2005 are entering the implementation phase. Some components of the bill include provision to encourage the production of ethanol; extension of existing tax credits for the

production of electricity from renewable resources, such as wind; loans and grants to promote construction of new clean coal plants; and instructions to develop an inventory of oil and gas

resources on the Outer Continental Shelf. Most environmental organization view the bill as favoring the oil and gas industry and it will not make any difference in foreign oil imports.

About Our Company

Earth Science Engineering, LLC (ESE) is a Tennessee based company with offices in Clarksville and Nashville, providing professional geotechnical engineering, environmental consulting, and construction materials testing services.

ESE's in-house drilling capabilities and laboratory will benefit your project schedule by limiting delays and providing you with a single source for completing project tasks. With ESE, you have an efficient means of achieving your deadline in

a cost-effective manner. Whether you need an engineering consultant for a subsurface evaluation, an environmental assessment, or construction quality control, Earth Science Engineering, LLC brings all of these capabilities to your team.

Last Issue Truth or Scare? - The killer cactus is the factual story – go figure!

Name that Christmas Carol...

1. 5 p.m. to 6 a.m. without noise
2. Miniscule hamlet in the far east
3. Bleached Yule
4. Castaneous-colored Seed Vesicated in a conflagration
5. Singular Yearning for the Twin Anterior Incisors
6. Righteous Darkness
7. Arrival Time:2400 hrs - Weather:Cloudless
8. Loyal Followers Advance
9. Far Off in a Feeder
10. Array the Corridor
11. Bantam Male Percussionist
12. Monarchical Triad
13. Nocturnal Noiselessness
14. Jehovah Deactivate Blithe Chevaliers
15. Red Man En Route to Borough



Answers in next newsletter.