Changes in the Environmental Industry

New ASTM E-1527-13 Standards

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American Society of Testing Materials (ASTM) E1527-13 Environmental Standard

- 2014 is the 20th anniversary of the first ASTM environmental standard (1527-94).
- The new standard was released by ASTM in November of 2013 (approved by EPA 12/30/13).
- New standard is a clarification of the prior standards which were revised in 97, 2000, 2005, 2013.
- Federal EPA recognizes both ASTM E1527-05 and E1527-13



3 Key Sections in New Standard

- Controlled Recognized Environmental Condition (CREC)
 - When engineering controls are in place at a site to address or monitor past environmental impact.
 Easier to finance a property with a known issue
- Freedom of Information Act (FOIA) clarification
 - Consultants should review regulatory documents when available for subject site and adjoining properties
- Vapor Encroachment (VE) must be discussed



What is Vapor Encroachment

- When contamination in soil/groundwater breaks down and volatizes into a gaseous state.
- Vapors can then move freely depending on soil composition, cracks into buildings
- Enough vapors in occupied building spaces can lead to indoor air quality (IAQ) issues.





How Do You Determine If a Site May Have a Vapor Issue?

- Current or historic dry-cleaners and gas stations at the subject site are the main causes of vapor releases
- Adjacent properties (Dry Cleaner/Gas Station)
 - Distance from subject site
 - Up-gradient/down-gradient
 - What underground conduits (subways, gas lines, etc.) are present as they help re-direct vapors away from structures

These conduits are good in urban and metropolitan settings to help dismiss a VE concern



Site Has a Potential Vapor Encroachment Condition (PVEC) Now What...

<u>Test</u>

- Soil/Groundwater
 - No impact (contamination) = No source for vapors to be present
- Air in building by using Summa test kits similar to radon
- Some situations may require all three of these medias to be tested to have a conclusive answer.



How to Cure A Site with Elevated Vapors

Sub-Slab Depressurization System (SSDS)

Similar to radon mitigation system

- Collect vapors in PVC piping at low point of structure
- Re-direct vapors to manifold
- Vent out of building
- Should be done at all new construction sites
 - Will make building more marketable/financeable
 - Insurance to protect building occupants
 - May be part of building code in the future



MECC has been incorporating the new ASTM changes since the first quarter of 2013

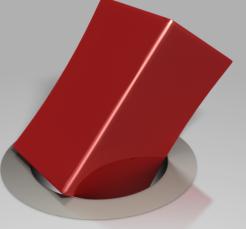
So how did the ASTM group get involved in the first place?

Where is the industry heading now?



The ASTM standards are designed for a purchaser of Commercial Real Estate but most lenders (if not all) use it as well. (Square peg-round hole)

- Risk is different for lenders then buyers as lenders have secured creditor exemption
- Owners have strict liability in NY. You own the contamination





So Why are Lenders Doing an Environmental Analysis?

- CERCLIS protection?-original concept of the due diligence (not bank responsibility)
- Innocent land owner defense protection? (only in foreclosure)
- Bank Policy requires it--????
- Value (\$\$\$) of property if contamination exists (BINGO)



Is this the time to visit bank policy for environmental risk management?

What are the current bank requirements?

Who manages that process?

- Are all approved firms preparing the same report?
- Are all approved firms carrying the required insurances



Environmental Products Available

- Database computer check record search only identifies things reported Used by lenders on small loans
- Transaction screen computer check with site inspection originally designed for lender to decide if phase one was required after visiting property—Has morphed into a stand alone report
- Full Phase One ESA "Kick the Tires" approach gives consultant all the tools available.
 - Database
 - Historical maps
 - Local regulatory inquiries
 - Conduct a site reconnaissance at the property and adjoining sites
 - Interview the key site personnel
- Phase II Sampling at site (soil, groundwater and now air)



• NOTE:

- If your consultant provides a scope of work for phase II and borrower wants to use their own firm---make sure they follow the scope. It was written to protect you as the lender.
- A \$7,000 proposal is not the same scope of work as a \$2,300 report the borrower paid to "his guys"
- This puts your consultant in a tough spot and more time and money will be required to do it correctly



- Database and transaction screens are cheaper but tell you less. This can potentially lead to dead ends.
- If last due diligence report was less than a full ESA, do not assume all is well.
 - Former gas station now an apartment building How did it go from A – Z? Any documentation?

Old database report that did not indicate any spills on file is not sufficient due diligence





All Bank Clients Have the Same Question, "What is Our Competition Doing?"?

- National database company in November hosted a seminar on Long Island with over 100 consultants in the room. Message was "educate your clients on new changes".
- A broad vague standard is now being streamlined so all consultants prepare same type of report.
 - E1527-13 is a clarification of the prior E1527-05 standard





- Largest National banks can afford to have in house environmental risk officers who are paid to assist in analyzing the risk.
- Smaller banks use their approved outside vendors for that guidance.





 Environmental reports are a tool used by lenders like an appraisal or title insurance to provide information for client to make a better business decision.

• The GOOD NEWS

75-80% of sites end up ok after proper due diligence is conducted

The Not so GOOD NEWS

Make require more time and cost to get there.



- To comply with the new ASTM changes, there is more cost associated. MECC working to keep that at a minimum. The industry has forecast fees to rise \$300-\$500 per report. We raised our prices to lenders \$100 at the beginning of 2014
- "Every phase one report is good until somebody obtains samples of the soil or groundwater and now air".
- The site is excavated for a new development.





MECC Has 20 Years experience advising clients

- Been in environmental consulting industry since first ASTM standard
- All inspectors will have tablets for their field reports to be uploaded to office in minutes
- All inspectors have 10 years plus doing environmental inspections
- New website enhancements----order reports on-line
- Portal for electronic delivery of reports
- 75% of MECC client base are lenders
- MECC can handle remediation projects
 - We now carry more comprehensive insurance
 - Work with best construction firms in industry
 - Approved consultant with NYC OER



Key Personnel at MECC

Lauri Hofer

Director of Operations 12 years with Chuck Merritt

Maryann Wegh

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QUESTIONS??