



# **KY-AIPG 2013 Short Course – LNAPL Contaminated Sites Risk Based Strategies**

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## Stated Goal – closure

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- Evaluate Site Conditions, Geology, and Groundwater
- Know Exposure Pathways
- Evaluate cost effectiveness of Risk Assessment vs. Remediation
- Evaluate Historical Data



# Process

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- Complete Site Conceptual Model
- Engage all “players”
  - Property Owner (if not client)
  - Client
  - Regulators
  - Risk Assessor\*\*\*
- Outline Plan
  - Additional Sampling
  - Current and future use
- Approval and Execution



# Sampling

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- What, Where, When and How?
  - What are you sampling?
    - Vapor
    - Soil
    - Groundwater
    - Surface Water
  - What detection limits are required?
  - Where are samples to be collected?
  - What type of instrumentation or protocol will be used?



# Exposures

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- What are the uses of the property and how are people potentially exposed?
  - Residential
  - Agriculture, Forestry
  - Commercial & Industrial
  - Utilities



# Remediation vs. Risk Assessment

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- How do you know which path is more appropriate and when do you evaluate?



# Questions

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OPEN DISCUSSION



# Information

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- Underground Storage Tank Branch
  - <http://waste.ky.gov/UST/AssessmentandRemediation/Pages/CorrectiveAction.aspx>
  - <http://www.lrc.ky.gov/kar/401/042/060.htm>
  - [http://waste.ky.gov/UST/Forms/2011%20Forms%20and%20Outlines/Corrective Action Outline.pdf](http://waste.ky.gov/UST/Forms/2011%20Forms%20and%20Outlines/Corrective%20Action%20Outline.pdf)

