



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

The Brownfield Cleanup Process

- Phase 1 Environmental Site Assessment (is contamination or the potential for contamination present?)
- Phase 2 Environmental Site Assessment = Sampling
- Contamination conclusions
 - Nature (what?)
 - Extent (how much?)
 - Location (where is it?)
 - Migration (where is it going?)
- Remediation plan (clean up &/or risk away)

Remediation Options

- Traditional (dig & haul, pump & treat)
- New Technologies (in-place treatment, bioremediation)
- Engineering Controls (barriers, ventilation systems)
- Institutional Controls (zoning, deed restrictions)
- Risk based closure

Basic Elements of Pennsylvania's Land Recycling Program

- Act 2 = Uniform cleanup standards & standardized review procedures
- Acts 2 & 3 = Relief from environmental liability
- Acts 4 & 6 = Financial assistance

Statutory Liability Protection

- Act 2 Relief of Liability protects from
 - DEP requiring any further cleanup
 - Citizen's suits for additional cleanup
 - Contribution suits by responsibly parties
- Act 3 – Economic Development Agency, Fiduciary & Lender Liability
 - Encourages economic development agencies to pursue ownership and redevelopment
 - Property titles acquired by economic development agencies
 - Property financing provided by lenders and fiduciaries
 - Protection negates reluctance to engage in brownfields activities

Act 2 is:

- Protective of human health & the environment
- Provides relief from environmental liability
- Clears the way for redevelopment

What an Act 2 Relief of Liability Does Not Cover

- Potential cleanup costs associated with unknown contamination
- Cleanup costs associated with future releases on the site
- Third party liability

State Funding Programs (www.newpa.com)

Site Development

- Industrial Sites Reuse Program
- Infrastructure Development Program
- Infrastructure & Facilities Improvement Program
- Building PA
- Tax Increment Financing Guarantee
- PENNVEST

Company Specific

- Governor's Action Team
- Department of Community and Economic Development

Federal Funding Programs (www.epa.gov/brownfields)

- Assessment Grants
- Revolving Loan Fund Grants
- Cleanup Grants
- Job Training Grants
- Targeted Brownfields Assessments
- American Recovery & Reinvestment Act

Information on Pennsylvania's Land Recycling Program can be found at www.dep.state.pa.us, keyword "Land Recycling"