

US EPA ARCHIVE DOCUMENT

# Greener Approaches in Land Revitalization

*Opportunities to conserve resources, reduce impacts to the community, and reduce impacts on human health and the environment in order to maximize the benefits associated with a land revitalization project*



**Deconstruction,  
Demolition, and  
Removal**

**Cleanup,  
Remediation, and  
Waste Management**

**Design and  
Construction for  
Reuse**

**Sustainable Use  
and Long Term  
Stewardship**

- Reuse/recycle deconstruction and demolition materials
- Reuse materials on site whenever possible
- Consider future site use and reuse existing infrastructure
- Use clean diesel and low sulfur fuels in equipment and noise controls for power generation
- Retain native vegetation and soils, wherever possible
- Protect water resources from runoff and contamination

- Use renewable energy sources, such as solar, wind, and methane Power machinery and equipment using clean fuels
- to power remediation activities
- Improve energy efficiency of chosen remediation strategies
- Select remediation approaches, such as phytoremediation, that reduce resource use and impact on air, water, adjacent lands, and public health
- Incorporate remediation activities that sequester carbon, where applicable, such as planting native grasses and using soil amendments

- Use Energy Star, LEED, and GreenScapes principles in both new and existing buildings
- Reduce environmental impact by reusing existing structures and recycling industrial materials
- Use natural systems to manage stormwater, like green roofs, landscaped swales, and wetlands
- Incorporate Smart Growth principles that promote more balanced land uses, walkable neighborhoods, and open space
- Create ecological enhancements to promote biodiversity and provide wildlife habitat

- Reduce use of toxic materials in manufacturing, maintenance, and use of buildings and land
- Minimize waste generation, manage waste properly, and recycle materials used/generated
- Maintain engineering and institutional controls on site
- Reduce water use by incorporating water efficient systems and use native vegetation to limit irrigation
- Maximize energy efficiency and increase use of renewable energy
- Take appropriate steps to prevent (re)contamination