

US EPA ARCHIVE DOCUMENT

# Green Remediation Best Management Practices: Fact Sheets on Specific Remedies and Other Key Issues

Office of Superfund Remediation and Technology Innovation

December 2013 Update

The U.S. Environmental Protection Agency (EPA) is identifying opportunities to advance green remediation strategies across cleanup programs according to the Agency's **Principles for Greener Cleanups**. As part of this effort, the Agency is benchmarking and documenting best management practices to be included in decision-making toolkits available to an expanding network of practitioners.

EPA's Office of Superfund Remediation and Technology Innovation is working with other Agency offices involved in site cleanup to develop a series of

### quick-reference fact sheets describing best management practices (BMPs)

for frequently used cleanup remedies, various field stages, and other aspects posing significant opportunities to reduce the environmental "footprint" of site cleanup. The practices can be used for investigative and response actions at sites under Superfund, corrective action, brownfield, underground storage tank, and federal facility remediation programs.

Each fact sheet addresses the core elements of a greener cleanup: (1) reducing total energy use and increasing the percentage of energy from renewable resources, (2) reducing air pollutants and greenhouse gas emissions, (3) reducing water use and negative impacts on water resources, (4) improving materials management and waste reduction efforts, and (5) protecting ecosystem services.

### More Information and Future Announcements

Visit **Green Remediation Focus** online to:

- Access these BMP fact sheets
- View site-specific profiles of green remediation strategies
- Apply tools for assessing the environmental footprint of cleanup, including EPA's methodology
- Find related information about upcoming events or new documents issued by other government organizations
- Explore green remediation provisions in cleanup service contracts and administrative documents, and
- Request technical assistance in implementing the practices.

<http://clu.in.org/greenremediation>

Subscribe to EPA's **Green Remediation Focus news feed (RSS)** to hear about future fact sheets as they become available and to learn about other new decision-making tools or events such as green remediation seminars on the Agency's CLU-IN Web host.

To obtain more information about EPA's green remediation initiative, contact Carlos Pachon ([pachon.carlos@epa.gov](mailto:pachon.carlos@epa.gov)).

### Available Fact Sheets

- **Excavation and Surface Restoration**  
(EPA 542-F-08-012, December 2008)
- **Site Investigation**  
(EPA 542-F-09-004, December 2009)
- **Pump and Treat Technologies**  
(EPA 542-F-09-005, December 2009)
- **Bioremediation**  
(EPA 542-F-10-006, March 2010)
- **Soil Vapor Extraction & Air Sparging**  
(EPA 542-F-10-007, March 2010)
- **Clean Fuel & Emission Technologies for Site Cleanup**  
(EPA 542-F-10-008, August 2010)
- **Integrating Renewable Energy into Site Cleanup**  
(EPA 542-F-11-006, April 2011)
- **Sites with Leaking Underground Storage Tank Systems**  
(EPA 542-F-11-008, June 2011)
- **Landfill Cover Systems & Energy Production**  
(EPA 542-F-11-024, December 2011)
- **Overview of EPA's Methodology to Address the Environmental Footprint of Site Cleanup**  
(EPA 542-F-12-023, March 2012)
- **Mining Sites**  
(EPA 542-F-12-028, September 2012)
- **Implementing In Situ Thermal Technologies**  
(EPA 542-F-12-029, October 2012)
- **Materials and Waste Management**  
(EPA 542-F-13-003, December 2013)

### Upcoming Releases

March 2014:

- **Contracting Mechanisms**  
.. and updates on previously issued fact sheets as new information becomes available