

Greener Cleanups

U.S. EPA Region 5 Superfund Greener Cleanup Implementation Strategy

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Brief Background on Greener Cleanups

- OSWER Guiding Principles
- National Superfund GC Strategy
- Region 5 Interim GC Policy
- Terminology- GC, Sustainability, GR, and GSR

Superfund GC Implementation Strategy

- **Overarching Superfund Greener Cleanup Activities and Practices**
- GC training will be provided for managers, Remedial Project Managers (RPMs), On-Scene Coordinators (OSCs), Brownfields Project Managers/Officers, and the Region 5 states.
- This training will be completed by December 31, 2012.

GC Strategy (continued)

- Region 5 will require Superfund contractors performing cleanups for U.S. EPA to collect and report, as part of their required periodic reporting, energy usage data, water usage data, and quantity of materials generated, used, reused, recycled, and disposed.

GC Strategy (continued)

- Region 5 will insert GC language, including no idling restrictions, into Superfund contracts as they are rebid.
- The Superfund Division will establish an Environmental Footprint Analyst position.
- Region 5 will develop an on-line GC training which will be available to all interested parties, including regional staff, states, PRPs, grantees, and the public.

GC Strategy (continued)

- Starting in 2013, the Superfund Division will annually review and modify, as appropriate, the Strategy.
- **BROWNFIELDS**
- Starting with the 2013 grant cycle, all cleanup and revolving loan fund grantees performing cleanup actions will be requested to report, as part of their

GC strategy (continued)

required final report, energy usage, water usage, and quantity of materials generated, used, reused, recycled, and disposed.

- Starting with the 2013 grant cycle, grantees will be requested to include a GC evaluation factor in the ABCA

GC Strategy (continued)

- Starting with the 2012 grant cycle, language shall be inserted in every “Congratulations” letter sent to new grantees.
- Region 5 will work with the states to include GC language, including no idling restrictions, and the use of BMPs in the state voluntary cleanup programs.

GC Strategy (continued)

- REMOVAL PROGRAM
- The following actions are mandatory at all fund-lead removal actions:
- Recycling at all removal sites which includes, at a minimum, consumables (paper, plastic aluminum, glass, etc.), scrap, and re-use options (i.e. drum reconditioning);

GC Strategy (continued)

- Idling prohibitions for vehicles and heavy equipment;
- Double-sided printing on 100% post consumer recycled paper; and
- Documentation of all green activities including energy usage data, fuel type usage, water usage data , and quantities of materials generated, used, reused, recycled, and disposed.

GC Strategy (continued)

- **REMEDIAL PROGRAM**
- RPMs should consider alternatives in the RI/FS that include opportunities for reducing the environmental footprint of Remedial Design and Remedial Actions (RD/RA) and long-term site management.
- RPMs should consider opportunities to integrate green remediation strategies into a remedy. BMPs introduced during

GC Strategy (continued)

construction should continue during remedy operation.

- RPMs should, to the extent possible, optimize and green remedies during FYRs.
- Project managers should require PRP and fund-lead contractors to electronically report, quantitative information on energy

GC Strategy (continued)

usage data, water usage data, and quantity of materials generated, used, reused, recycled, and disposed.

- Project managers should require that all PRP and contractor-developed reports, plans, and technical memos be submitted in an Adobe PDF electronic format.

GC Strategy (Last)

- BMPs and START IV Contract
- List of Standard BMPs appended to Strategy
- START IV Contract Green Language appended to Strategy
- Just the Beginning

Questions?

Other New GC Activities

- ASTM GC Standard Practice
- Footprint Methodology
- Wind and Solar Decision Trees
- Region 5 RCRA White Papers

ASTM

- ASTM Standard Practice for Green Site Assessment and Cleanup
- ASTM Guide for Integrating Sustainability Objectives into Cleanup

Footprint Methodology

- Recently released
- Series of spreadsheets that show quantitative outputs for a list of environmental parameters that is based on the five guiding principles
- Can be used anywhere in cleanup process, but generally not used in remedy selection phase

Wind and Solar Decision Trees

- Recently released- contacts:
- EPA- Lura Matthews: matthews.lura@epa.gov, 202 566-2539
 - Shea Jones: jones.shea@epa.gov, 202 566-0450
 - Katie Brown: brown.katie@epa.gov, 202 566-1231
- NREL-Gail Mosey: gail.mosey@nrel.gov, 303 384-7356
 - Jimmy Salasovich, james.salasovich@nrel.gov, 303 384-7383

RCRA Resource Guide: GC Through Sustainable Materials Management

Three Separate Guides

- 1) Construction and Demolition (C&D)
Materials Recovery
- 2) Opportunities for Materials Reuse in
Site Design
- 3) Use of Reclaimed Materials in Fills and
Pavements

■ May 2011 <http://>

Web Sites

■ OSWER: Clu-In

- www.clu-in.org/greenremediation/
- Greener Cleanups
- Ecological restoration

■ ORCR (OSW)

- <http://www.epa.gov/oswer/greenercleanups/index.html>

■ Region 5 Greener Cleanups

- <http://www.epa.gov/region5/greenercleanups/>

■ EPA's Clean Diesel Web Page

- <http://www.epa.gov/diesel/>

End

