

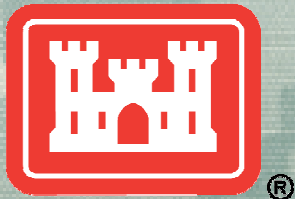
# EO 13514 Section 2 Workshop, C&D Materials Re-use and Recycling *Tools and Resources*

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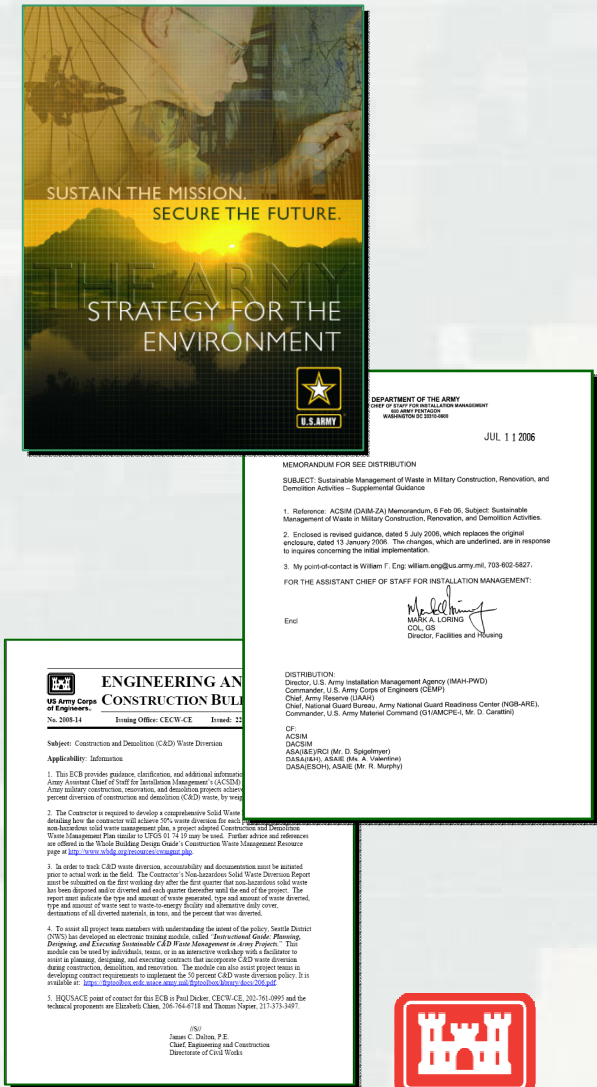
***Washington DC***

***26 August 2010***



# POLICY

- **Some Army policy documents**
  - *Army Strategy for the Environment*
  - *Office of the Assistant Chief of Staff for Installations Management (OACSIM) “Sustainable Management of Waste in Military Construction, Renovation, and Demolition Activities”*
  - *Corps of Engineers Engineering & Construction Bulletin “Construction & Demolition Waste Diversion”*



# TOOLS

- **Whole Building Design Guide / Construction Criteria Base**

— <http://www.wbdg.org/ccb/ccb.php>

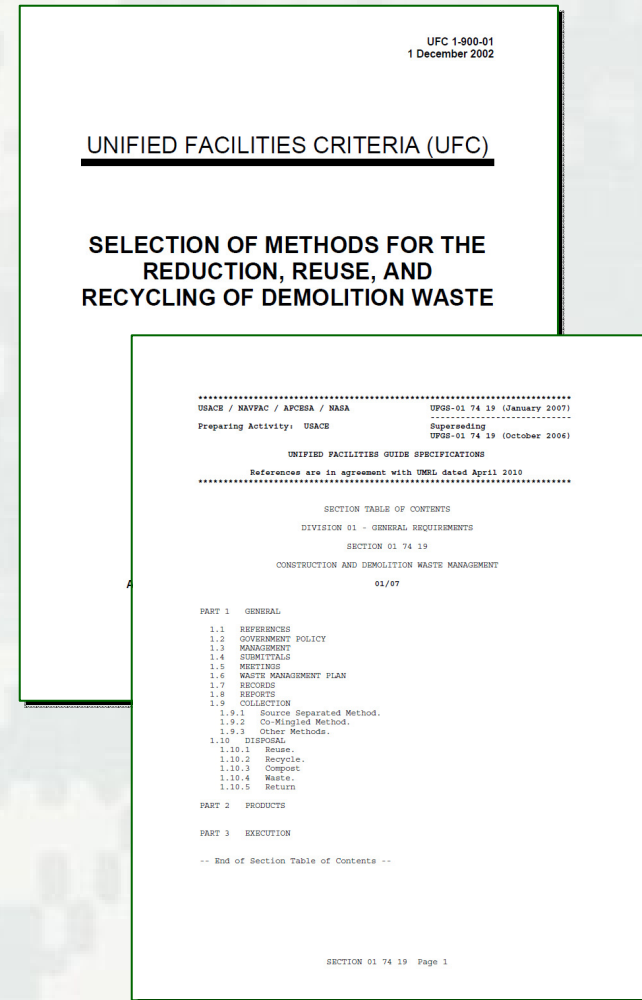
The screenshot shows the WBDG website's Construction Criteria Base (CCB) page. The header includes the WBDG logo and navigation links: HOME, ABOUT, CONTACT, SITE MAP, RSS, LOG IN, and a search bar. A secondary navigation bar lists categories: DESIGN GUIDANCE, PROJECT MANAGEMENT, OPERATIONS & MAINTENANCE, DOCUMENTS & REFERENCES, TOOLS, CONTINUING EDUCATION, BIM, and APPLIED RESEARCH. The left sidebar contains a menu with links to FEDERAL HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS, FEDERAL MANDATES, CONSTRUCTION CRITERIA BASE (with sub-links for Specifications, Regulations, Standards, Documents, CAD, and Tools Libraries), PERIODICALS, CASE STUDIES, PARTICIPATING AGENCIES, and INDUSTRY ORGANIZATIONS. The main content area is titled 'Construction Criteria Base (CCB)' and describes it as an extensive electronic library of construction guide specifications, manuals, standards, and other essential criteria documents. It mentions that CCB contains over 10,000 documents from participating federal agencies and provides contact information for document inquiries. A 'CONSTRUCTION CRITERIA BASE INDEX' section lists links to the Specifications Library and Regulations Library. The Specifications Library list includes: Unified Facilities Guide Specifications (UFGS), NAVFAC Specifications, NAVFAC Standard Specifications, NAVFAC Guide Performance Work Statements, VA Master Specifications, Federal Green Construction Guide for Specifiers, DOE General Design Criteria, and NIBS Specifications. The right sidebar features a 'SEARCH CCB' section with a 'Quick Search' box, a 'GO' button, and options to 'Search titles only' or use 'Advanced Search'. There are also links to 'COMMENT ON THIS PAGE' and 'BOOKMARK AND SHARE'.





# TOOLS

- **Federal UFC / UFGS**
  - [http://www.wbdg.org/ccb/browse\\_cat.php?o=31&c=215](http://www.wbdg.org/ccb/browse_cat.php?o=31&c=215)
  - *UFC 1-900-01 Selection of Methods for the Reduction, Reuse and Recycling of Demolition Waste*
  - *UFGS 01 62 35 Recycled/Recovered Materials*
  - *UFGS 01 74 19 Construction and Demolition Waste Management (SEE GREEN VERSION)*
  - *UFGS 02 41 00 Demolition and Deconstruction (SEE GREEN VERSION)*



**BUILDING STRONG®**

# TOOLS

- **Selected Army PWTBs**

- <http://www.wbdg.org/ccb/browse.org.php?o=70>
- 200-1-23, *Guidance for the Reduction of Demolition Waste Through Reuse and Recycling*
- 200-1-24, *Quantifying Waste Generated From Building Remodeling*
- 200-1-7, *Recycling Interior Finish Materials - Carpet and Ceiling Tiles*
- 200-1-44 *Recycling Exterior Materials*

PUBLIC WORKS TECHNICAL BULLETIN 200-1-23  
10 MARCH 2003

GUIDANCE FOR THE REDUCTION OF  
DEMOLITION WASTE THROUGH REUSE AND  
RECYCLING

PUBLIC WORKS TECHNICAL BULLETIN 200-1-27  
14 SEPTEMBER 2004

REUSE OF CONCRETE MATERIALS FROM  
BUILDING DEMOLITION



# TOOLS

- **USACE FRP Best Practices Toolbox**

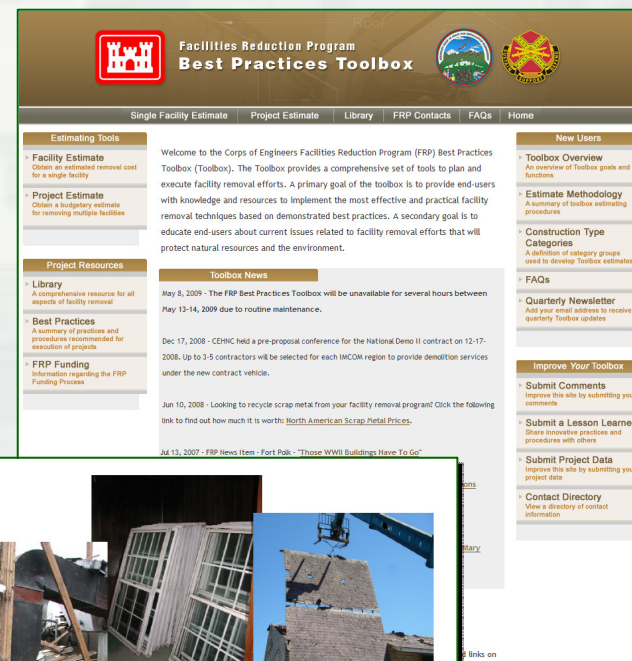
- <https://frptoolbox.erdc.usace.army.mil/frptoolbox/>.

- *Best Practices*

- *Demolition cost estimating*

- *Library*

- *Diversion, recycling & salvage*
- *Interactive Instructional Guide (Under “CERL Library”)*



Instructional Guide:  
Planning, Designing, and Executing  
Sustainable C&D Waste Management in  
Army Projects

[Introduction](#)



# TOOLS

- **WasteCap Resource Solutions**
  - *TRACE C&D tracking & documentation system*

### WasteCapTRACE

State:

Zip Code:

Search Radius (miles):

Company Name:

Materials:

Hold Ctrl & Click to Select Multiple Items

Company Type:

Hold Ctrl & Click to Select Multiple Items

Search

Clear

WasteCap Email Bulletin

Sign up for WasteCap's free monthly email bulletin. Simply

WasteCap Resource Solutions' new system, [WasteCapTRACE](#), is a simple, powerful and effective online documentation program that tracks ongoing construction and demolition debris recycling and documents the results.



# TOOLS

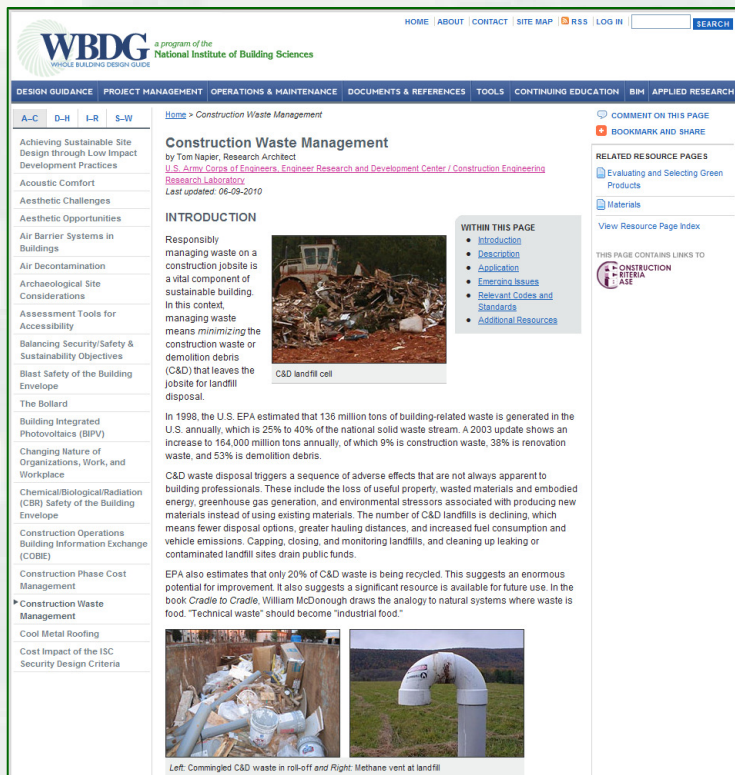
- **Associated General Contractors of America**
  - *Recycling Toolkit* [www.agc.org/cs/recycling\\_toolkit](http://www.agc.org/cs/recycling_toolkit)



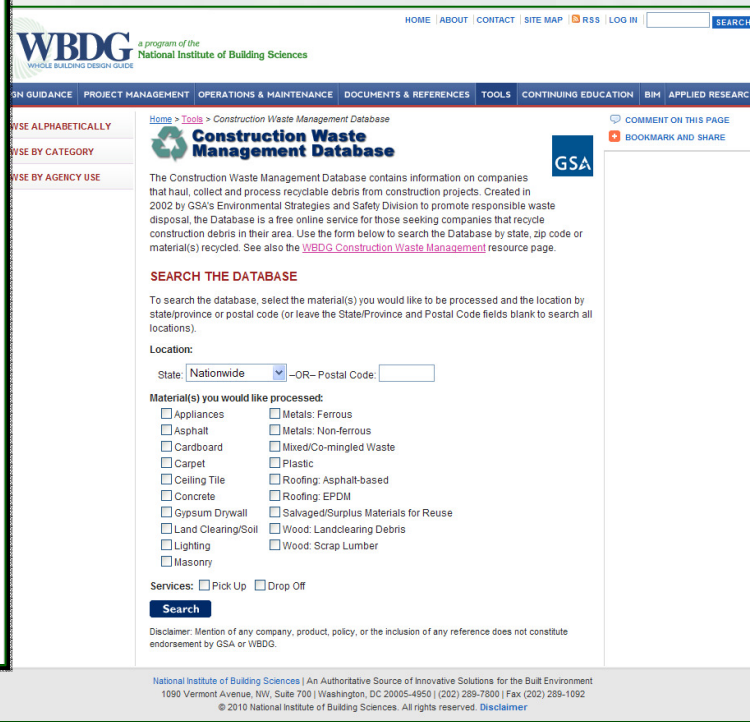


# RESOURCES

- **Whole Building Design Guide**
  - *Construction Waste Management Resource Page*
  - *Construction Waste Management Database*



The screenshot shows the WBDG (Whole Building Design Guide) website. The main heading is "Construction Waste Management" by Tom Naper, Research Architect. It includes an introduction about responsible waste management, a list of "WITHIN THIS PAGE" links (Introduction, Description, Application, Emergent Issues, Relevant Codes and Standards, Additional Resources), and two photographs: "C&D landfill cell" and "Methane vent at landfill". The left sidebar contains a navigation menu with categories like "Achieving Sustainable Site", "Acoustic Comfort", "Aesthetic Challenges", etc.



The screenshot shows the WBDG Construction Waste Management Database. It features a search form with fields for "State" (dropdown menu) and "Postcode" (text input). Below the search form is a list of "Material(s) you would like processed:" with checkboxes for various materials like Appliances, Metals, Ferrous, Non-ferrous, etc. The page also includes a "SEARCH" button and a disclaimer at the bottom.



# RESOURCES

## – See WBDG Resource Page ...

- *Building Materials Reuse Association*
- *Construction Materials Recycling Association*
- *USEPA C&D websites*
- *California Integrated Waste Management Board*
- *King County WA*
- *North Carolina Department of Natural Resources*
- *Lake County IL*
- *Hawaii Department of Business & Economic Development*
- *Massachusetts Department of Environmental Protection*
- *Air Force Center for Environmental Excellence C&D Waste Management Guides*
- *WasteCap Resource Solutions*
- *Institution Recycling Network*



# RESOURCES

## — Find C&D materials recyclers & reuse stores

- [www.wbdg.org/tools/cwm.php](http://www.wbdg.org/tools/cwm.php)
- [www.cdrecycling.org/find.html](http://www.cdrecycling.org/find.html)
- [www.bmra.org/directory](http://www.bmra.org/directory)
- [www.habitatforhumanity.org](http://www.habitatforhumanity.org)
- Contact your state: [www.cicacenter.org](http://www.cicacenter.org)
- Carpet: [www.carpetrecovery.org](http://www.carpetrecovery.org)
- Online marketplaces: [www.planetreuse.com](http://www.planetreuse.com)
- [www.americanbuildersurplus.com](http://www.americanbuildersurplus.com)



# RESOURCES

A circular graphic for the DECON '11 conference. The outer ring contains the text "MINIMIZE WASTE" at the top and "MAXIMIZE JOBS" at the bottom, separated by arrows. The center features a black and white photograph of a construction worker in a hard hat and safety vest, using a tool on a wall. To the right of the circle, the text "May 15-19, 2011" and "Yale University New Haven, Connecticut" is displayed. Further right, the title "DECON '11" is prominently shown. Below the title, a paragraph invites attendees to join the next Building Materials Reuse Association Conference, focusing on deconstruction, reuse, and recycling. A list of topics of interest follows, including Resource Conservation, Green Building, Building Removal, Materials Salvage, Recycling, Workforce Development, Community Development, Distressed Neighborhood Transformation, and Historic Buildings. At the bottom, social media icons for Facebook, Twitter, and LinkedIn are provided, along with the website "www.bmra.org" and the BMRA logo.

**DECON '11**

Join us for the next  
**Building Materials Reuse  
Association Conference**  
on deconstruction, building  
materials reuse, and  
construction/demolition  
debris recycling.

**Topics of Interest:**  
Resource Conservation  
Green Building  
Building Removal  
Materials Salvage  
Recycling  
Workforce Development  
Community Development  
Distressed Neighborhood  
Transformation  
Historic Buildings

May 15-19,  
2011  
Yale University  
New Haven,  
Connecticut

MINIMIZE WASTE

MAXIMIZE JOBS

SAVE THE DATE

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For more information,  
visit us at [www.bmra.org](http://www.bmra.org)

 **BMRA**  
Building Materials Reuse Association



[www.bmra.org](http://www.bmra.org)





# QUESTIONS?



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