

CEMP-RT

Pamphlet
No. 200-1-10

10 December 1999

**Environmental Quality
GREEN BUILDING TECHNOLOGY IN HAZARDOUS WASTE CLEANUP
APPLICATIONS**

TABLE OF CONTENTS

Subject	Paragraph	Page
Chapter 1		
Introduction		
Purpose.....	1-1	1-1
Applicability.....	1-2	1-1
References.....	1-3	1-1
Abbreviations and Acronyms.....	1-4	1-1
Chapter 2		
Background		
Necessity of Using Green Building Technologies.....	2-1	2-1
Other Directives Mandating the Use of Green Building Technologies..	2-2	2-3
Federal Acquisition Regulation (FAR).....	2-3	2-4
Overview of Green Building Concepts.....	2-4	2-4
Pollution Prevention Hierarchy.....	2-5	2-5
Life Cycle Analysis.....	2-6	2-6
Chapter 3		
Green Building Approach		
Sustainable Design for Military Facilities.....	3-1	3-1
Green Building Planning Process.....	3-2	3-2
Regulatory Framework and Issues.....	3-3	3-8
Green Building Opportunity – Site Technology Matrix.....	3-4	3-9

Chapter 4

Green Building Technologies, Opportunities and Issues at HTRW Sites

Contractual Issues.....	4-1	4-1
Paper Reduction.....	4-2	4-1
Partnering.....	4-3	4-2
Waste Segregation.....	4-4	4-2
Mobilization.....	4-5	4-2
Management of Investigation-derived Waste.....	4-6	4-2
Direct Push Soil Sampling.....	4-7	4-4
Sampling Equipment Management.....	4-8	4-5
Wastewater Management.....	4-9	4-5
Plastics Management.....	4-10	4-6
Occupational Health and Safety Program: PPE Management.....	4-11	4-6
Efficient and Properly Sized Electrical Motors and Blowers.....	4-12	4-7
Activated Carbon Management.....	4-13	4-7
Process Optimization.....	4-14	4-8
Piping/Process Equipment Recycling/Reuse.....	4-15	4-9
Use of Packaged or Skid-mounted Treatment Vessels.....	4-16	4-9
Plant Tissue Residue Management.....	4-17	4-10
Resource Recovery from Treatment Sludge.....	4-18	4-10
Reuse of Treated Soils and Soil Residues.....	4-19	4-10
Stormwater Management.....	4-20	4-11
Use of Waste Organic Materials, Agricultural Wastes.....	4-21	4-11
Use of Excavations for Aquatic Habitat.....	4-22	4-11
Use of Incinerators for Waste to Energy Processors.....	4-23	4-11
Use of Dredged Material/Lake Rehabilitation.....	4-24	4-12
Building and Building Material Management.....	4-25	4-12

Chapter 5

Success Stories

Mead Army Ammunition Plant: Concrete Rubble for Construction.....	5-1	5-1
Holloman Air Force Base: Waste to Fuel.....	5-2	5-1
Ashland 2 FUSRAP Site: Recycling of Uranium Tailings.....	5-3	5-2
Use of Cotton Coveralls Instead of Tyvek.....	5-4	5-3
Grand Forks Air Force Base: Multimedia Inspection.....	5-5	5-3
IAAP: Innovative Use of Excavations and Dredged Material.....	5-6	5-3

**Appendix A
References**

**Appendix B
Annotated Bibliography of Information Sources and Internet Sites**

**Appendix C
Abbreviations and Acronyms**

**Appendix D
Executive Order 13101**

**Appendix E
USEPA's Preferred Products and USDA's Biobased Products Lists**

**Appendix F
PARC Instruction Letter 99-2**