

# Status Report - Technology Cost and Performance Activities



*Federal  
Remediation  
Technologies  
Roundtable*

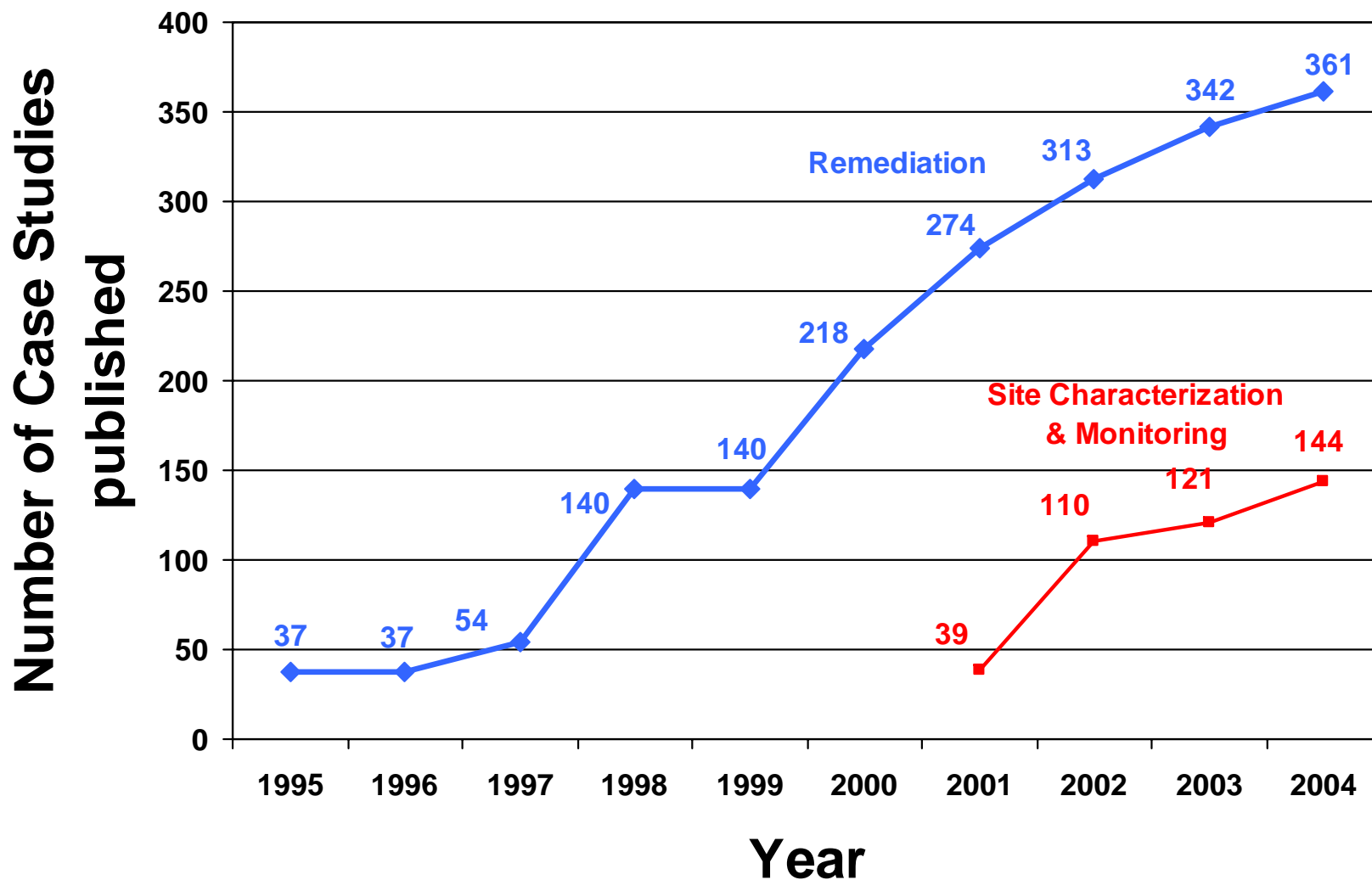
- ◆ Remediation Case Studies
- ◆ Site Characterization and Monitoring Case Studies
- ◆ Long-Term Monitoring/Optimization
- ◆ Remediation Technology Assessment Reports

# Activities Since June 2004 Meeting

- ◆ Completed the Spring addition of case studies/reports to the database
- ◆ Compiled a CD-ROM and Abstract Report
- ◆ Distributed Fact Sheet, CD-ROM, and Abstract Report

# REMEDIATION CASE STUDIES

# Number of Remediation and Site Characterization Case Studies Published Between 1995 and 2004



Note: No new remediation case studies were added in 1996 and 1999

# Possible Sources for New Case Studies

- ◆ Closeout reports
- ◆ Internal memos
- ◆ Closer networking arrangements, e.g. Corps ITAs
- ◆ Extracted case studies from broader reports
- ◆ Reports/work on emerging contaminants

# Potential New Case Studies Identified for Spring 2005

Agency	New Case Studies	Technology
Army	1	Thermal treatment (in situ)
ESTCP	1	Soil flushing
EPA	9	Bioremediation (in situ); Chemical reduction (in situ); Pump and treat; Solidification/stabilization; Thermal desorption; Thermal treatment (in situ)
States (SCRD)	4	Bioremediation (in situ); Chemical oxidation (in situ); Pump and treat; SVE
<b>Total</b>	<b>15</b>	

Note: Initial projections based on web site checks as of November 2004 and ongoing case study preparation efforts

# **SITE CHARACTERIZATION AND MONITORING CASE STUDIES**

# Potential New Case Studies Identified for Spring 2005

Agency	New Case Studies	Technology
ITRC	2	Organic chemical characterization; Miscellaneous/leak detection
ESTCP	1	Unexploded ordnance characterization
EPA (some with other Federal agencies)	13	Triad-related strategies/techniques; Sensor technologies
<b>Total</b>	<b>16</b>	

Note: Initial projections based on web site checks as of November 2004 and ongoing case study preparation efforts



# **LONG-TERM MONITORING/OPTIMIZATION**

# Long-Term Management/Optimization (Types of 73 Case Studies Currently Included)

- ◆ Optimization of pump and treat systems
- ◆ Evaluation/optimization of groundwater monitoring networks
- ◆ Capture zone analysis
- ◆ Procedures such as RAO, RPO, or RSE
- ◆ Application of models for performance optimization (groundwater flow, contaminant transport )

**REMEDICATION TECHNOLOGY  
ASSESSMENTS  
(Based on applications at  
multiple sites)**

# New Studies Identified for Spring 2005

- ◆ Principles and Practices of Enhanced Anaerobic Bioremediation of Chlorinated Solvents, Interagency (Army, Navy, Air Force), August 2004
- ◆ Technical and Regulatory Guidance Document for Constructed Treatment Wetlands, ITRC, December 2003

# Next Steps

- ◆ Compile new case studies
  - EPA will continue to check web sites for all categories of reports
  - Agencies to identify available reports/documentation
  
- ◆ Final case studies required by April 1 for inclusion in Spring 2005 update
  
- ◆ Consider options for CD-ROM
  
- ◆ Use/distribute Fact Sheet & CD-ROM

# Federal Agency Cost and Performance Points of Contact

Organization	Point of Contact
Army AEC	Layne Young
USACE	Greg Mellema
Navy	Charles Reeter/Joey Trotsky/Cliff Casey
Air Force	Erica Becvar
ESTCP	Andrea Leeson
DOE	Skip Chamberlain
EPA	John Kingscott/Marti Otto
NASA	Mark Schoppet

Note: Multiple points of contact for each agency are encouraged.