“Pay-for-Performance Contracting Using Integrated Treatment Approach”

Federal Remediation Technologies Roundtable
May 25, 2005
Pay-For-Performance

- **Lump Sum contract paid on a milestone basis**
  - Initial milestones linked to completed tasks
  - Remaining milestones paid when specific cleanup goals are achieved
  - Lump sum payments proportional to contaminant reduction between 50% and 90%

- **Contract Modifications:**
  - None for treatment of defined areas and COCs
  - New releases or constituents
Why Pay for Performance?

- Flexible program yet avoids budget overages
- Incentives tied to defined remedial endpoints
- Integration of contracting and technical solutions
- Compatible with cost cap insurance and GFPR contracting
What’s Triad Remediation?

- Dynamic decision making to direct remediation technologies
- Treatment directed at depth-specific subsurface horizons
- Technology substitutions built into remediation approach
Targeted Treatment

- Define treatment horizons using real-time data collection methods (Triad)
- Increase subsurface permeability using ConductivPlanz℠
- Integrated treatment processes
- Fine-Tune, adjust, or change-out processes
ConductivPlanzm

Nutrient Injection

Water Table

Ground

Isolite/Sand filled Fractures

Contaminated Zone
ConductivPlanz℠ Equipment
Close-up of a ConductivPlanz℠ Used to Deliver Reagents into the Subsurface
ConductivPlanzM Monitoring
ConductivPlanz\textsuperscript{SM} Mapping
Integrated, Multi-Phase Treatment

- 100+ in-situ treatment formulations
- Surfactant or co-solvent flushing
- Chemical oxidation reagents
- Aquifer conditioners for biostimulation
- Inoculums for *in-situ* aerobic and anaerobic bioaugmentation
- RECORS recirculating well
- Programmable Release Processors (PRPs)
- Adapt to conditions and use whatever works

Planning for rapid, in-field technology substitutions or amendments to achieve site closure.
Benefits of Triad Remediation?

- Objectives aligned by defining endpoints
- Addresses mass transfer limitations
- Flexibility to change-out or augment existing remedial technologies
- Used for expedited treatment for:
  - Site Closure
  - Redevelopment projects
Summary Points

- PFP used to define endpoints & costs
- Avoiding budget overages
- Flexibility in applying remedial approaches
- Alignment of objectives with involved parties
- Sharing of risk