

Environmental Remediation and Financial Services, LLC



Pay-for-Performance Remediation Services

 *BioAug LLC*

“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

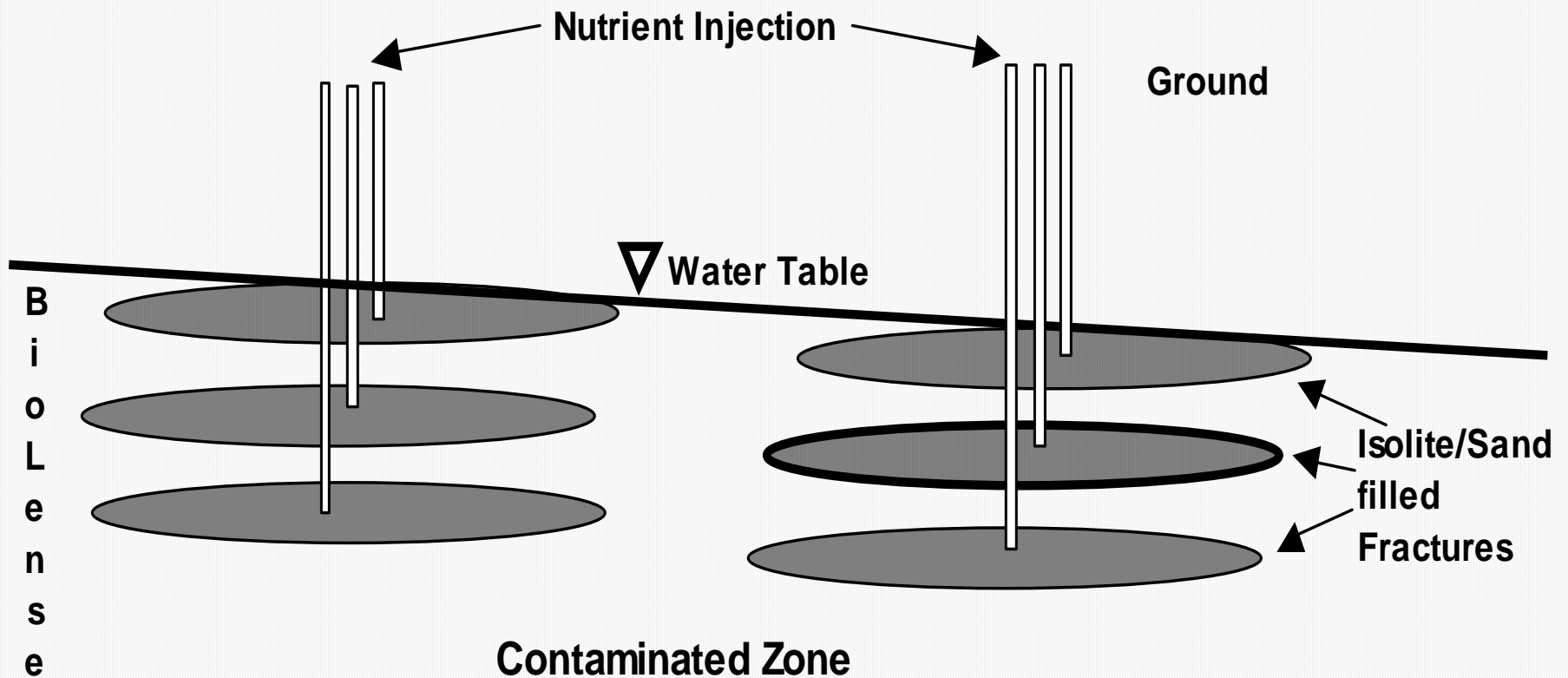
What's Triad Remediation?

- ◆ 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 ConductivPlanzSM
- ◆ Integrated treatment processes
- ◆ Fine-Tune, adjust, or change-out processes

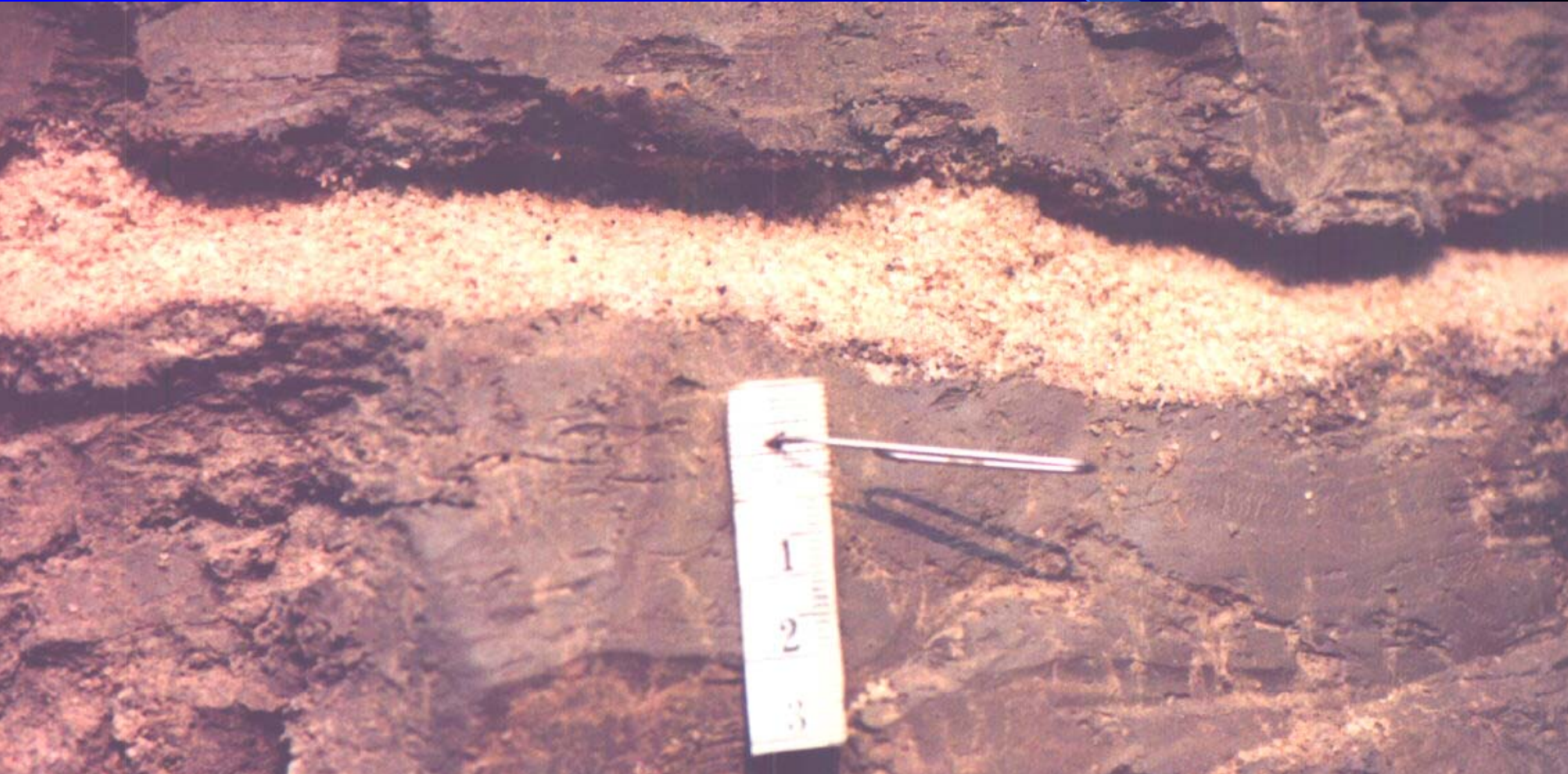
ConductivPlanzSM



ConductivPlanzSM Equipment



Close-up of a ConductivPlanzSM Used to Deliver Reagents into the Subsurface



ConductivPlanzSM Monitoring



ConductivPlanzSM 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