# Groundwater Remediation Design Build Projects: Iron Reactive Barriers

### Gardena, CA

System: Subsurface Iron PRB, 775' long, 18' to 100' deep

Contaminants: PCE, TCE and cis-1, 2-DCE

Contract: Design, Construction & Performance Monitoring

Construction: Vertical Hydrofracturing

Status: 100' long pilot to be constructed in fall 2002.

# Montross, VA

System: Subsurface Iron PRB, 1175' long, 5' to 44' deep

Contaminants: PCE, TCE, cis-1, 2-DCE, 1,1,1 TCA

and 1,1 DCE

Contract: Design, Construction & Performance Monitoring

**Construction:** Vertical Hydrofracturing **Status:** Construction completed June 2002, performance monitoring ongoing.

# Oakley, CA

System: Subsurface Iron PRB, 500' long, 45' to 110' deep

to replace existing Pump & Treat System Contaminants: CT, TCM, Freon II and Freon 113

Contract: Design, Construction.

(Performance Monitoring by client)

Construction: Vertical Hydrofracturing

Status: 110' long pilot completed January 2001, performance monitoring satisfactory and ongoing, extended PRB construction planned for 2003. Existing Pump & Treat System was shutdown 3 months after pilot PRB installed,

and dismantled 9 months after pilot PRB installed.

# Centerville, IA

System: Subsurface Iron PRB, 240' long, 25' to 75' deep

Contaminants: TCE and cis-1, 2-DCE

Contract: Design, Construction & Performance Monitoring

Construction: Vertical Hydrofracturing

Status: Construction completed October 1999, performance

monitoring satisfactory and ongoing.

### Fairfield, NJ

System: Subsurface Iron PRB, 120' long, 20' to 65' deep

Contaminants: PCE, TCE, cis-1, 2-DCE, 1,1 DCE, VC, TCM,

1,1,1 TCA and 1,1 DCA

Contract: Design, Construction & Performance Monitoring

Construction: Vertical Hydrofracturing in Soils and Permeation

Injection in Bedrock

Status: Construction completed June 1999, performance

monitoring satisfactory and ongoing.

# Jacksonville, FL

System: Subsurface Iron PRB, 150' long, 23' to 40' deep

Contaminants: TCE, cis-1, 2-DCE and VC

Contract: Design

Construction: Vertical Hydrofracturing or Biopolymer Slurry Wall

Status: Construction planned for 2003.

### Cape Cod, MA

System: Subsurface Iron PRB, 50' long, 80' to 125' deep

Contaminants: PCE, TCE and cis-1, 2-DCE
Contract: Demonstration for deep PRB placement.

Construction: Vertical Hydrofracturing

Status: Study by USGS and AFCEE Confirmed the PRB wall was placed in accordance

with design.

# Fairfield, NJ

System: Subsurface Iron PRB, 240' long, 20' to 65' deep

Contaminants: PCE, TCE, cis-1, 2-DCE, 1,1 DCE, VC, TCM,

1,1,1 TCA and 1,1 DCA

Contract: Design, Construction and Performance Monitoring

Construction: Vertical Hydrofracturing

**Status:** Construction completed March 1998, additional enzyme added June 1998.

performance monitoring satisfactory and ongoing.

### Atlanta, GA

System: Subsurface Horizontal Iron Fractures in Pump

and Treat Collection Well System.

Contaminants: PCE

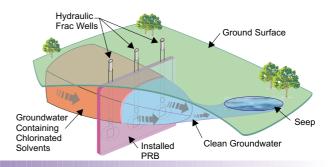
Contract: Design and Construction.

(Performance Monitoring by others)

Construction: Horizontal Hydrofracturing

Status: Construction completed November 1996, performance

monitoring satisfactory and ongoing.





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