

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.

