

Project Name:	Reactive Wall Placement
Project Location:	Geismar, Louisiana
Project Completion Date:	December 1998
Project Duration:	2 Months
Project Value:	\$204,000
Client Name:	Browning Ferris Industries
Client Contact:	Mr. Todd Broussard
Client Phone Number:	(318) 527-6857
Technology Utilized:	Reactive Wall Installation

Project Description

SEMS, Inc. was contracted to perform the installation of an iron filing trench 700 feet long, 1 foot wide and 25 feet deep. The trench/reactive wall was placed utilizing a B600 Holland Drain Trencher, which performed a continuous operation of removing trench cuttings and backfilling with 100 percent iron filing in one operation.

SEMS performed preliminary site operations which included installation of haul roads, clearing and grubbing of the trench right of way, staging of 1.5 ton supersacks of iron filings along the trench right of way, and trench installation. Upon completion of trenching operations, SEMS capped the 700 feet of trench with a 3 foot compacted clay liner.

The major equipment/materials utilized for the project included the following:

- One B600 Holland Drain Trencher
- One Cat 225 Excavator
- One Cat D6 Bulldozer
- One All Terrain 3 Cubic Yard Loader
- Two Stake Bed Trucks
- One IT28 Uniloaders/Forklift
- Two Pick Up Trucks
- 440 Supersacks of Iron Filings each Weighing 1.5 Tons

The location of the trench was designed to intercept groundwater to allow flow through treatment and reaction with the iron filings. The starting point of the reactive wall was a previously installed slurry wall which channels the groundwater flow to the reactive wall.

Due to the uniqueness and innovative approach of the project, the site received many visitors including various visits from Louisiana Department of Environmental Quality personnel, various visits from Cecos International and Browning Ferris personnel, as well as area corporate environmental managers from the adjacent chemical industry.

The project was completed under budget and ahead of schedule.