

DEEP MIXING TEST PROGRAM

NEW ORLEANS - USA

The U.S. Army Corps of Engineers, New Orleans District, treated a test area with deep mixing methods and loaded this area until failure, to study the characteristics of the treated mass. The test area was split into two sections and each section was loaded separately. The loading was performed by a crane placing steel weights on each section.

As part of the test program, geotechnical instruments were used to monitor movements, earth pressure, and water pressure as each section was loaded.

We used the following instruments:

- 6 Vertical in place inclinometers – each 20 meters deep, with sensors every meter in the top 10 meters and every 2 meters in the bottom 10 meters.
- 4 Piezometers - each with 3 measuring elevations and thermometers. The piezometers must have a range of 0-50 psi, be of vibrating wire type, with a diameter of 19mm.
- 12 Earth Pressure Cells - each with a 0 to 50 psi range, a 9 inch diameter, of vibrating wire type, and buried to a depth of 1 to 2 meters.

SolData installed the instruments and did set-up a real-time data collection, processing and presentation to enhance the value of the test program.



Installation of test area



OWNER :	US ARMY CORPS OF ENGINEERS
CONTRACTOR :	US ARMY CORPS OF ENGINEERS
DATE OF WORKS :	APRIL 2003 – JUNE 2003
WORKS DONE :	
• Supply and install:	
- 6 vertical automatic in place inclinometers	
- 4 piezometers	
- 12 earth pressure cells	
- datalogging system	
- visualization and reporting tools.	