

Fike/Artel Superfund Site Nitro, WV US EPA Region III

de maximis Project Coordinator – Mike Miller
de maximis Project Manager – Warren Smull
O & M, Inc. Project Manager – David Fuerst

OU-4 Groundwater RD/RA

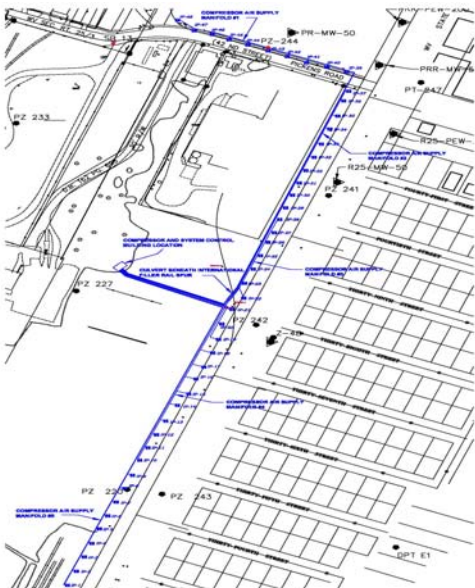
O & M, Inc. was responsible for implementing an In Situ Aerobic-Based Remedial Technology Pilot Study where three technologies were evaluated: In Situ biosparging (air injection); In Situ Peroxidation; and In Situ Aerobic Co-metabolism.

The Pilot Study test results provided “proof of concept” that these technologies could be useful for appreciably reducing the concentration of a wide range of organic COCs in impacted groundwater.

O & M, Inc. was responsible completing a Remedial Design Evaluation Study to verify that subsurface oxic zone of influence conditions could be produced along the leading edge of the groundwater plume similar to those observed in the Pilot Test.

EPA issued an Amendment to the Record of Decision for OU-4 – Groundwater Component in November 2006. This amendment changed the selected remedy from groundwater extraction, treatment and disposal (pww \$38.7M) to In Situ Biosparging (pww \$7.5M).

O & M, Inc. was responsible completing a 100% Design/Build Remedial Design Report for the Phase I Groundwater Treatment System. It was submitted to the EPA in November 2006 and approved in December 2006.



O & M, Inc. was responsible completing the installation of a 46 well In Situ Biosparging system. The system is scheduled for start up in April 2007.



Project Highlights

O & M, Inc. completed the project turn-key from pilot testing, thru design evaluation studies, system design, installation, start-up and operation.

System Specifications

The In Situ biosparging system consists of two 50 HP rotary screw air compressors. This system will supply a continuous flow of 10 cfm at 30 psi to each of the 46 injection points.

