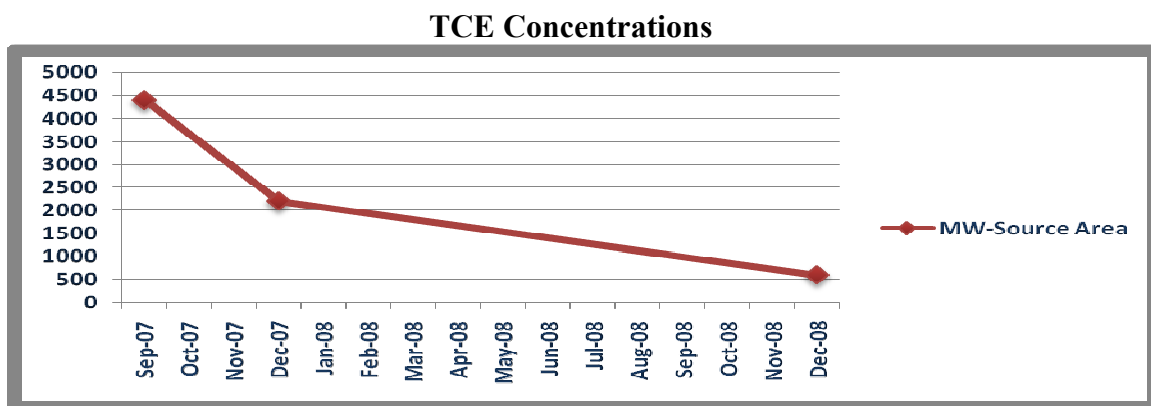


Chlorinated Compound Case History

Accelerated Remediation Technologies, Inc. (ART) in-situ treatment system was selected by a major industrial firm to treat soils and groundwater impacted with chlorinated compounds, mainly TCE, at a site in Anniston, Alabama. The ART technology was installed in nine, six inch wells within the source area. An extensive monitoring program was implemented to evaluate the performance of the ART Technology.

Site Description: A metal working business has operated at the site since the 1970s. Subsurface investigations confirmed the presence of two distinct groundwater bearing units. The upper unit is present within the overlying unconsolidated “fractured” clayey silt materials, which range in thickness from approximately 20 to 47 feet. The lower unit is present within the underlying dolomitic limestone bedrock. Groundwater was generally encountered at approximately 10 feet below grade.

VOCs Concentrations in Groundwater: Analytical testing indicated the presence of elevated VOCs concentrations in groundwater at the site. TCE levels exceeded 4,500 ug/L at wells within the source area. Consultants evaluated numerous remedial alternatives and identified the ART Technology as the most effective and cost efficient option. ART worked closely with consultants to design and install the remedy in nine wells at the site. The ART system began operation in late fall of 2007. By September 2008, TCE concentrations were reduced by up to 95% in some wells. Analytical results indicate a level of ND of all contaminants in most of the 16 operating monitoring wells. All of the TCE daughter products in the source area have been reduced to below their target levels.



VOC Mass Removal: Based on vapor emission analytical results, total VOCs removal rate averaged to approximately 2.7 lbs per day. The total mass of VOCs extracted since the startup of the ART system is calculated to exceed 483 pounds. For additional information, please contact:

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