

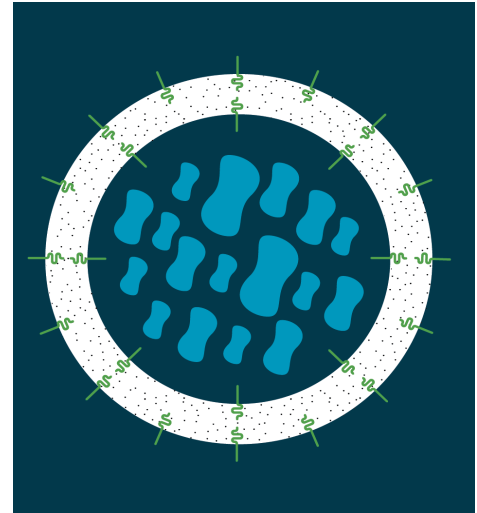


TEA Inc. | Environmental Solutions



SourceKill™ is TEA's enhanced version of NASA's DNAPL destroying Emulsified Zero-Valent Iron (EZVI) blend. As a "water in oil" emulsion containing a proprietary blend of nano and micro sized ZVI, SourceKill<sup>sm</sup> reductively dehalogenates halogenated hydrocarbons (e.g. PCE, TCE, CFC, VC) within the patented micellar structure. Unlike a plain ZVI slurry, the SourceKill™ emulsion is drawn directly to the DNAPL. After contact is made, DNAPL is sequestered within the micelle and destroyed. Targeted, easy to implement, cost-effective, in-situ DNAPL destruction.

TEA is the largest custom manufacturer/supplier of SourceKill™, providing reactive, stable emulsions since 2005. TEA's products have been utilized at multiple locations across the United States as well, as internationally.



## BENEFITS

- Blended for easy injection
- Results seen with 90 days
- Treats source areas to 75 ft. bgs
- Low cost *in-situ* solution to source DNAPL

## ADVANTAGES

- Developed/patented by NASA
- Field-tested by the U.S. EPA under the SITE Program
- Primarily used for in-situ DNAPL source area destruction
- Typical source concentration decrease ~90+% within 3 months
- Surfactant-stabilized water-in-oil emulsion with zero-valent iron particles
- Hydrophobic, dense emulsion absorbs DNAPL, delivering contaminant to iron
- In-situ chemical reduction of chlorinated solvent to ethene and water
- Injection or soil mixing using conventional technologies
- Does not promote mobilization of DNAPL
- Effective within a wide range of geologic formations



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