



Do it right. Do it once.

The U.S. EPA and Nobis Engineering contracted XDD Environmental to address a recalcitrant PCE hotspot that exceeds the groundwater closure criterion in bedrock.

With the goal of being able to avoid restarting a previously installed pump and treat system at the site, XDD evaluated and implemented enhanced bioremediation to meet site objectives.



Scope of Services

- Oversight of microcosm bench study
- Assisted client with remedial approach development and technology selection
- Design and implementation of field pilot-scale bioremediation applications
- Conducted system monitoring

Federal Site: Enhanced Bioremediation Eastern Surplus Superfund Site, ME



XDD Environmental's enclosed injection skid system for applications in sub-freezing temperatures.

XDD Results & Achievements

- Significant reduction in PCE levels was observed in all target and area wells.
- At all wells the dechlorination process was shown to proceed to harmless end products.
- Performance monitoring mass balance estimates indicate that in addition to groundwater mass reductions, soil mass was also reduced.

XDD's enhanced bioremediation application decreased contaminant concentrations, so that Maine DEP was able to keep from re-activating an existing pump and treat system.

"XDD played a lead role in the design and implementation of all aspects of the enhanced bioremediation program. Their expertise and communication with Nobis and our customer (EPA) and the regulatory agency (Maine DEP) was excellent throughout this project. These partnering efforts allowed for full approval and "buy-in" from all parties. These factors were also very evident during the successful implementation and execution of the on-site remedial activities."

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