

**ASTM Standard Guide for Greener Cleanups
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ASTM E2893 – Standard Guide for Greener Cleanups provides a consistent process for designing and implementing greener cleanups. The Guide sets forth a dynamic decision-making process to assist in selecting BMPs for each phase of a site cleanup, beginning with site assessment, carrying through remedy selection, design, and implementation, and also including remedy optimization and modification. The standard is flexible and allows the user to enter the process at any cleanup phase. By following this process, the user develops a list of cost effective, beneficial BMPs to integrate into cleanups.

The underlying basis of the standard is a comprehensive list of over 160 BMPs designed to reduce the environmental footprint of cleanup projects. This list, available in a spreadsheet format from ASTM, can be searched by technology, EPA metric, or BMP category; this function enhances the user's ability to select BMPs to apply to cleanups.

In addition, the standard incorporates options for quantitative evaluations, in the form of environmental footprint analysis or life cycle assessment, into the selection, design, and reporting of BMPs. These are advanced tools that are intertwined throughout the standard in a flexible manner enabling life cycle assessment professionals to apply their skills when utilizing the standard.

There are numerous drivers and incentives providing regulatory, public relation, and economic reasons for utilizing green remediation principles. Examples of regulatory drivers exist in the Environmental Protection Agency's programs and cleanups conducted in Massachusetts and New York State, which both have green remediation policies with distinct requirements. In addition, the ASTM standard can be referenced in contracts, scopes of work, and, possibly, regulatory enforcement tools in the future.

A pilot project inventorying BMPs at 18 sites to demonstrate the optimum best management practices for environmental footprint reduction. In general, the most frequently implemented BMPs for reducing the environmental footprint of cleanups relate to material use and energy.