

SOIL STABILIZATION/ SOLIDIFICATION/MIXING



Clients Benefit Because SWSES Provides:

- ◆ **Customized Project Execution And Delivery**
- ◆ **Operations Personnel Having A Wide Range Of Experience**
- ◆ **A Pragmatic Approach And Understanding For Resolving Industrial And Environmental Issues**
- ◆ **Practical And Technically Sound Solutions**
- ◆ **Client Focused, Safety Oriented And Quality Driven Strategies**

SOIL STABILIZATION/SOLIDIFICATION/MIXING ▼

Stabilization/Solidification is a process that involves mixing heavily contaminated soil with specific ratios of water, binder materials, and other additives to enhance and stabilize the physical and chemical properties of the contaminated soil. A successful stabilization/solidification process will meet physical requirements and will bind the target heavy contamination within the soil matrix to ensure that the concentration of these contaminants and any resulting leachate is well below the regulated limit. Fixation, a related technology, achieves destruction of contaminants or reorders the molecular structure of chemical bonds to create new, non-hazardous compounds.

Stabilization techniques limit the solubility or mobility of contaminants, even though the physical characteristics of the waste may not be changed or improved. To accomplish this, we add reagents or other specialized materials and blend them with the sludge or soil. Stabilization ensures that the hazardous components are maintained in their least mobile or toxic form.

In-situ soil mixing with excavator-mounted special equipment involves using a mixhead attachment to treat soil and/or sludge. The mixing attachment is mounted on a conventional hydraulic excavator for in-situ mixing to treat soil and/or sludge up to 10-foot depths. Liquid reagents, treatment media, or chemicals can be injected through the hollow forks and mixed in-situ with soil or sludge through the rake motion of the excavator. This technology is well-suited for shallow treatment of soft sediment, sludge, or soils.

Benefits of using this technology include the following:

- ◆ Soil or sludge excavation for treatment is not required, eliminating double handling of materials
- ◆ In-situ treatment eliminates the need for sheeting, shoring, or dewatering since excavation is not required
- ◆ Reagent blending provides an economical alternative for shallow in-situ treatment with rapid construction progress

Our goal is to consistently provide our clients with the highest level of technical competence, strong project management, integrated health and safety, and quality control with an emphasis on financial accountability for all projects.



Contact Us ▼

Dedication. People. Response.

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