

## ENVIRONMENTAL SERVICES

### Excavation & Removal

Clean Harbors' Excavation and Removal Services routinely serve as the primary instrument for soil remediation applications, new construction, and expansion and real estate transactions. Excavation and Removal is a fundamental, frontline remediation method involving the removal of contaminated soil and media, which are typically shipped off-site for treatment and/or disposal. This method is also used for the removal as well as the abandonment of underground structures that are out of compliance or have been identified as a potential or actual point source of contamination.

#### Soil/Media Removal

Excavation and removal of contaminated soil/media is utilized for localized contamination and point source removal. The scale of removal can range from 30 cubic yards of residential, oil-contaminated soil to 20,000 cubic yards of energetic, DNT-contaminated soil at a munitions manufacturing facility.

#### Excavation Protection Systems

Clean Harbors' construction professionals are trained and competent in the deployment of excavation protection systems such as trench boxes, slide rail systems, and hydraulic bracing. We employ independent professionals for the design of all systems and engage a select group of subcontractors for the installation of systems involving steel sheeting.

#### On-Site Remediation (Asphalt Batching, Stabilization)

Removal and on-site remediation normally involve a select range of contaminants that are amenable to conventional, reliable remediation techniques such as asphalt batching and chemical stabilization. On-site removal and treatment can often yield significant savings compared to off-site transportation and disposal. In addition, the treated soil may have beneficial secondary use as construction fill and road base material.

#### Consolidation, Containment and Capping

Excavation and removal is increasingly associated with on-site waste consolidation whereby the waste is ultimately contained within an engineered cap system. Excluding "conventional" landfill closure caps, this method performs as a long-term but interim measure for select applications.



### Focus on Safety

Clean Harbors' number one priority is the health, safety and compliance of our operations on your sites and ours. Employees at all levels of the company share this philosophy and are committed to ensuring our safety goals are met.

#### Groundwater Collection Systems (aka Interceptor Trenches)

Excavation and removal often facilitates construction of groundwater collection systems and other related, in-situ remediation applications.

#### UST Remediation

Excavation and removal facilitates UST compliance programs involving removal of leaking or out of compliance systems, point source removal, and in-situ remediation applications.

