

# Project Services for the Engineering & Consulting Industry

## Fact Sheet

### True Turnkey Service

Clean Harbors can manage your remediation project from start to finish. We can provide budgetary pricing during the feasibility study and remedial investigation stages, manage your Investigation-Derived Waste (IDW), complete any on-site remediation during the construction phase, manage transportation and disposal of the waste, build and install an on-site remediation system if needed, and perform the operation and maintenance of that system.

All of this and you only have to manage one contractor when working with Clean Harbors' remediation team. This not only frees up time for the engineer/project manager, it eliminates on-site conflict between multiple contractors. While on-site, Clean Harbors' remediation group will work with our disposal network to package any material deemed for off-site disposal to ensure material is able to be processed at the time it enters the gate—eliminating any overweight or repackaging surcharges. Clean Harbors also has the ability to utilize multiple modes of transportation, which can equate to reduced project costs.

### Site Remediation Services

Whether you are upgrading equipment or renovating production areas requiring the removal of existing process equipment, downsizing or expanding a facility, or in need of efficient methodologies to reduce site emissions during remediation activities, our experts can produce a comprehensive plan to safely manage your project. Clean Harbors has personnel and resources to handle any size remediation project and ensure it is compliant with local, state, and federal regulations. Our capabilities include braced excavation/sheeting/shoring; landfill operations/capping/closure; on-site stabilization; hydraulic dredging; trenching; buried drum removal; construction dewatering; and mobile treatment.

### In-Situ & Ex-Situ Treatment

Clean Harbors has extensive experience in the stabilization of lead and other hazardous metal bearing waste to render material non-hazardous. Our soil solidification and stabilization applications, which reduce the mobility of hazardous substances and contaminants in the environment through physical and chemical means, may be used alone or combined with other treatment and disposal methods to yield a product or material suitable for land disposal or applied for beneficial use.



## The Power of One

Work with one source from start to finish for a complete solution to your remediation portfolio. We'll manage all aspects of the implementation of your remedial design—from source area removal, transportation and disposal, to restoration and remedial system sourcing, installation and O&M. Clean Harbors gives you this with

**The Power of One.**



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We also provide chemical oxidization applications using peroxide (Fenton's Reagent) and permanganate products, which cause the rapid and complete chemical destruction of many toxic chemicals. Our experience includes direct in-situ injection and ex-situ or off-site applications for successful remediation of soil and groundwater. Clean Harbors continually strives to develop and implement in-situ remedial techniques, which are less intrusive to the environment and, at the same time, provide sound and cost-effective solutions to complex environmental conditions.

### Liquid Treatment Systems

We offer a range of treatment options from change-out services to construction of complete remediation systems including the building and installation of storm water filtration systems. Our personnel are educated in an array of Environmental and Science disciplines. With our experience, personnel, and access to virtually limitless resources, Clean Harbors provides you with peace of mind that your project will be completed on schedule and in the most cost-effective and safest manner possible.

Clean Harbors owns and operates a variety of mobile treatment systems used for routine/scheduled service applications or dispatched on an emergency basis. Available in a number of sizes and configurations, our processing capacities range from 10 to approximately 700 gallons-per-minute. All systems are pre-assembled and self-contained, requiring minimal setup time upon mobilization, and are available as trailer-mount, skid-mount, or containerized units.

### Transportation Services

Clean Harbors' highly coordinated company-owned and operated transportation fleet of ~9,000 vehicles provides bulk and drum, liquids, solids, and sludge transportation. Our Transportation Services to customers across North America utilize a wide variety of box trucks, dump trailers, roll-off frames, vacuum units, and rail equipment to meet customer needs.

Clean Harbors' portable truck-to-rail transloading option provides the most economical and safest method of overland bulk waste transportation. Our truck-to-rail transloading ramps offer you a significant advantage when managing the shipment of material from your project site to one of Clean Harbors' rail served incinerators, landfills, recycling, or water treatment facilities. Even if your project location doesn't have rail on-site, you can benefit from the economies of rail shipment by using our truck-to-rail transloading solution.



### Disposal Services

Clean Harbors' facility projects group provides turnkey off-site transportation and disposal solutions for soil and other contaminated media generated from remediation activities commonly identified as hog-and-haul. Our services include -

- RCRA / TSCA Incineration
- RCRA / TSCA / Non-Hazardous Landfill Disposal
- Metals Stabilization
- Macro / Microencapsulation
- On- / Off-site Wastewater Treatment

We own and operate permitted landfills and incinerators in the United States and Canada. Our Deer Trail, Colorado, landfill is licensed to dispose of Naturally Occurring Radioactive Material (NORM) and Technologically Enhanced Naturally Occurring Radioactive Material (TENORM). Our hazardous waste facilities are fully RCRA Subtitle C permitted, and our facilities are approved to accept waste and contaminants from CERCLA and RCRA projects.

Additionally, many of our facilities can handle TSCA waste, including those regulated under Mega-Rule. Our full-scale RCRA permitted hazardous waste treatment facilities are capable of handling a wide range of contaminants such as -

- Halogenated VOCs and Nonhalogenated VOCs
- Halogenated SVOCs and Nonhalogenated SVOCs
- Inorganics, reactives, explosives, petroleum waste, and many more

