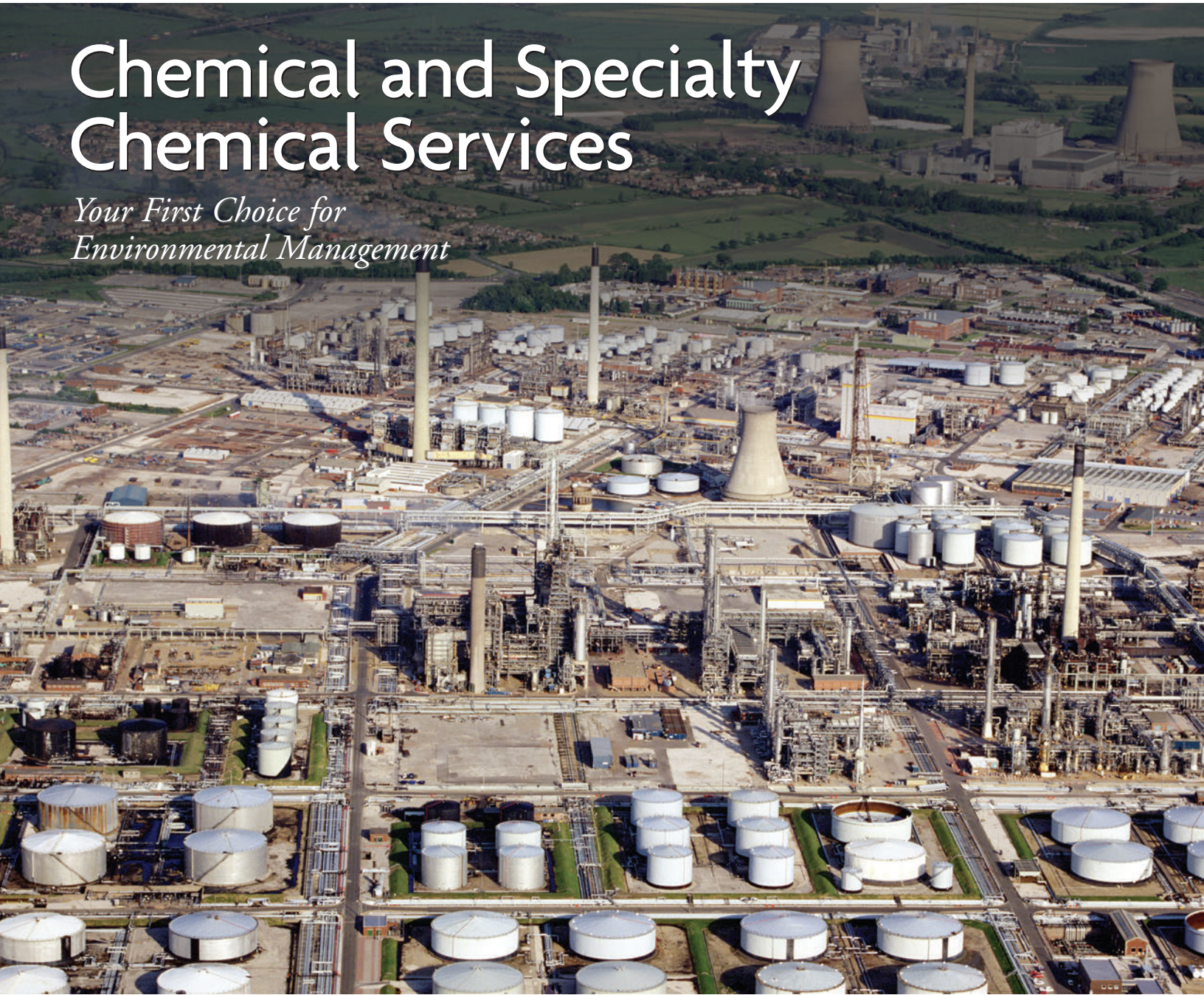


# Chemical and Specialty Chemical Services

*Your First Choice for  
Environmental Management*





# Your Single-Source Leader

At Clean Harbors, we've built a reputation for providing the most comprehensive and reliable services for the chemical and specialty chemical industry.

Our success is based solely on the success of our customers. By delivering a wide range of services as well as complete project management, Clean Harbors empowers chemical producers to concentrate on what makes them profitable and efficient.

Because we understand your challenges and changing demands, we're able to offer customized services tailored for the way you operate and conduct business. From more specific needs like tank cleaning and industrial vacuuming, to implementing a full-blown container management system or handling catalyst, our goal is to eliminate your liability, reduce costs, and help you maintain your competitive edge.

We invite you to learn more about our full portfolio of services for chemical and specialty chemical plants. You'll see that when it comes to proven project management, quick response, and quality results, Clean Harbors is the first—and only—choice.



## First Things First: Your Health & Safety

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At Clean Harbors, we understand that hiring a contractor to work on your site can mean liability exposure, a risk you simply cannot afford to take. That's why our training protocols and health and safety features are unsurpassed in the industry.

Health and safety is Clean Harbors' #1 priority—companywide. All recordable injuries are included in our injury and illness rate calculations, and we always track our TRIR and DART performance. To continuously improve on our health and safety excellence, Clean Harbors implemented an internal *SafetyFirst!* Program—it's our commitment to keep the protection of our fellow workers in the forefront of everything we do.

Our training programs and our overall approach to the health and welfare of our employees—as well as our customers' employees—have been developed to keep your plant in compliance with OSHA or provincial ministries of labour regulations, and minimize your exposure to all risks.

From our own facilities, to our people out in the field, to our customer sites, Clean Harbors adheres to all regulations and plays an active role in keeping up with changing compliance standards, so you don't have to.

- We are always in compliance with the latest government and industry standards.
- Comprehensive training programs put employee and customer safety first.
- Our vigilant, self-auditing process strives for continuous improvement in health and safety.

# Services at

## Waste Management

Company-owned waste treatment and disposal capabilities, and on-site waste processing services

## Lab Chemical Packing

Safe handling, packaging, transportation and disposal of laboratory chemicals

## Tank Cleaning Services

Technical knowledge and experience to successfully clean your most difficult tanks

## On-Site Dewatering

Specialized dredging and dewatering equipment safely removes and reduces waste volumes

## High Pressure Services

Combining optimum pressure flow rates with specialty tooling to handle any type of project

## Chemical Cleaning Services

Removal of obtrusive contaminants to eliminate fouling and to decontaminate process lines and vessels

## Benefit from Our Full Range of Services

We know the chemical business—inside and out—and that's why we offer an integrated portfolio of services with a unique focus on your operation.

**Waste Management** — Rely on Clean Harbors for the most comprehensive hazardous and non-hazardous waste disposal services. With over 40 company-owned and operated waste management facilities in the U.S. and Canada that cover a broad range of disposal technologies, Clean Harbors is your source for the safe, efficient handling of the waste streams associated with chemical and specialty chemical plants. Company-owned disposal capabilities include incineration, landfill, wastewater treatment, fuels blending, recycling, and more.

Additionally, Clean Harbors owns and operates a variety of waste minimization technologies including centrifuges, recessed chamber and belt filter presses, and mobile thermal treatment units. This equipment allows us to select the most appropriate and cost-effective technology based upon the waste to be processed.

Our in-house waste treatment and disposal capabilities, combined with our on-site waste processing and in-plant services, provide the most comprehensive turnkey service available.

**Tank Cleaning Services** — Clean Harbors has the technical knowledge and experience to successfully clean your most difficult tanks. Serving the chemical and specialty chemical industry, we are equipped to handle a broad spectrum of cleaning—up to 240-foot-diameter tanks (approximately 6 million gallons). We employ the latest technology using the highest safety standards.

**On-Site Dewatering** — Surface impoundments and storage tanks that are full of sludge can limit the effectiveness of your operation. Clean Harbors' ability to safely remove the sludge and reduce the volume of waste through the use of specialized dredging and dewatering equipment can provide significant cost savings and improve the efficiency of your chemical plant.

**Vacuum Services** — Clean Harbors' specialized Vacuum Services collect and transport (wet or dry) hazardous and non-hazardous materials. Vacuum equipment, including stainless steel, carbon steel, dry, and liquid units, is selected based on the nature and quantity of the material to be removed. To meet the needs of our chemical customers, our fleet is constantly being enhanced through the addition of new equipment.

**Reuse, Recycling and Reclamation** — We can deliver significant savings to the chemical industry through the reclamation or marketing of by-product streams. Our Reuse, Recycling and Reclamation Services minimize waste and are responsible alternatives to traditional disposal routes. From the identification of candidate waste streams for reuse or reclamation, to providing regulatory compliance guidance and logistic management, Clean Harbors ensures we provide the most beneficial solution for you.

**Container Management** — Clean Harbors' Container Management Services provide full-service container rental, transportation, and waste treatment and disposal options. Our comprehensive and proprietary tracking system enables us to capture all container movements. From roll-offs, bins and frac tanks, to ISO containers and intermodal containers, every aspect is covered—from the initial deployment of containers through the maintenance and review of containers when they get emptied

# at a Glance

## Vacuum Services

Specialized vacuum services collect and transport (wet or dry) hazardous and non-hazardous materials

## Reuse, Recycling and Reclamation

Minimizes waste and is a responsible alternative to incineration, fuels blending and other disposal routes

## Container Management

Pulls together the physical movement of containers and systematic tracking to capture all activities and costs

## Emergency Response Services

When seconds count and safety and environmental damage are your first concerns, rely on Clean Harbors

## Surface Impoundment Management

Dredging and dewatering presses and centrifuges yield high-impact waste minimization alternatives

## Catalyst Technologies

Removal and replacement of spent catalyst from process vessels and reactors

at our facilities. Customers can access our online inspection and tracking system that is completed for containers at various points within their movement cycle.

**Emergency Response Services** — When every second counts and safety is your first concern, rely on Clean Harbors to take control of your emergency situation and make appropriate decisions that will save you time and money. Customers faced with sudden financial impact, system downtimes, and environmental damage know they can depend on Clean Harbors to handle virtually any emergency.

**Catalyst Technologies** — Clean Harbors eliminates unnecessary downtime for chemical plants by providing all phases of catalyst change out. Our technologies include catalyst unloading and loading; screening and material segregation; high temperature salt transfer, storage, and melting; passivation; and dust control.

**Surface Impoundment Management** — Clean Harbors' Surface Impoundment Management Services provide the most cost-effective technologies and disposal methods to cleaning and closing surface impoundments. Our extensive fleet of dredging and mechanical dewatering presses and centrifuges, along with pre-project evaluation in our treatability laboratory, yields high-impact waste minimization solutions. When closing surface impoundments, these services, combined with our Remediation and Environmental Construction Services, which bring excavation equipment and closure expertise, provide management solutions that are tailor-made, not force-fit.

**Chemical Cleaning Services** — Chemical cleaning is an efficient, cost-effective way to remove corrosion, deposits, residual oils/greases, and other obtrusive contaminants from tainted surfaces and equipment. Our process can be used for passivation to eliminate fouling, oxidation, process system corrosion, and decontamination of process lines and vessels.

**High Pressure Services** — Using the sheer force of water at pressures between 10,000 and 20,000 psi, or ultra-high pressure water blasting up to 40,000 psi, Clean Harbors' expert staff combines optimum pressure flow rates with specialty tooling to handle virtually any type of project—from routine service to emergency response. We offer 5-lance TLE, 3-lance TLE, and single-lance tube cleaning technology; automated line cleaning, including Rotofan and Armadillo systems; 3-D waterblast systems, as well as dry ice blasting, cold cutting, and our unique ultrasonic cleaning technology.

**Laboratory Chemical Packing** — CleanPack®, Clean Harbors' laboratory chemical packing services, provides for the safe handling, packaging, transportation and disposal of hazardous chemicals for chemical and specialty chemical companies. Our highly trained chemists are skilled in chemical recognition and compatibility, ensuring that you'll always be in compliance with the latest EPA and DOT regulations. And when leveraging our exclusive waste management software, you can better manage the chemical disposal process to further reduce costs and liability.

# Committed to Your Business

## Turnkey Service

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Clean Harbors leverages its significant transportation and disposal assets across North America to provide turnkey service to our chemical and specialty chemical customers. This allows us to maintain true accountability and business continuity when managing your important environmental and industrial projects—while you have confidence knowing the job is with one easily accessible and reliable source.

Clean Harbors uses a best-practice approach that streamlines your costs and maximizes your staff's productivity. Look to Clean Harbors to handle everything from planning and estimating, to scheduling, cost tracking, and subcontractor management.

- Complete integration of services with your operation
- Single-source provider, eliminating costs associated with managing multiple contractors
- Full planning and scheduling services to ensure quality results—on time, on budget
- Company-owned and operated waste treatment and disposal capabilities eliminate third party handoffs, reduce costs and liability

## Apollo Onsite Services—Customized Program for Chemical and Specialty Chemical Plants

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Clean Harbors' exclusive Apollo Program brings specialized labor, program management, and the execution of our extensive range of environmental and industrial services right to your site. This industry-leading on-site solution allows you to focus on your production (what you do best) as we make your entire environmental program and facility safer, more cost-effective, and self-sufficient (what we do best).

Apollo professionals arrive each day at your facility to start work. A typical day in a chemical and specialty chemical plant for our Apollo experts could encompass managing and moving all bulk and drum waste containers, ensuring daily compliance by conducting satellite and 90-day area inspections, filling waste containers, moving waste into storage, labeling containers, and preparing shipment paperwork.

But it doesn't stop there. Whether you need tank, high pressure, or chemical cleaning—product transfer and pumping and cleaning of a storage vessel—or emergency spill response, our experts are at your service to perform the tasks at hand.

We continuously evaluate and track all program goals and provide regular feedback and evaluation via a proven metrics system to ensure your satisfaction. As your plant needs change, we seamlessly and cost-effectively adapt to meet those changes.



## Clean Harbors

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*Commitment. Leadership. Confidence.*

Clean Harbors is North America's leading provider of environmental, energy and industrial services serving over 50,000 customers, including a majority of Fortune 500 companies, thousands of smaller private entities, and numerous federal, state, provincial, and local governmental agencies.

Within Clean Harbors Environmental Services, the Company offers a broad range of hazardous material management and disposal services, including the collection, packaging, recycling, treatment and disposal of hazardous and non-hazardous waste. We also provide a wide variety of environmental cleanup services on customer sites or other locations on a scheduled or emergency response basis.

Within Clean Harbors Energy and Industrial Services, the Company provides industrial and specialty services, such as high pressure and chemical cleaning, catalyst handling, decoking, material processing, and industrial lodging services to refineries, chemical plants, pulp and paper mills, and other industrial facilities. We also provide seismic, production, directional boring services, and surface rentals to the energy sector serving oil and gas exploration, production, and power generation.

Founded in 1980, Clean Harbors has grown to be the leading and most trusted environmental, energy and industrial services, and waste management company, fully committed to preserving natural resources, serving local communities, and adhering to strict government regulations.

Look to Clean Harbors to handle every aspect of your environmental, energy and industrial services management program.

### Environmental Services

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- Chemical Packing
- Emergency Response
- Field Services
- Household Hazardous Waste
- InSite Services
- Recycling Services
- Transformer Services
- Waste Disposal

### Energy and Industrial Services

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- Directional Boring
- InSite Services
- Lodging Services
- Production Services
- Industrial and Specialty Industrial Services
- Seismic Services
- Surface Rentals



### For Chemical and Specialty Chemical Services

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Call 800.444.4244

### Or visit the Web at

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[www.cleanharbors.com](http://www.cleanharbors.com)

#### Corporate Headquarters

42 Longwater Drive  
P.O. Box 9149  
Norwell, MA 02061-9149  
781.792.5000  
800.282.0058

