

Waste Disposal Services

Incineration Services Fact Sheet



Incineration Services

Of all the various disposal technologies a customer can choose for their waste disposal, incineration offers the most complete destruction. Clean Harbors' Incineration Services thermally destroy organic matter through the use of high temperatures.

Clean Harbors owns and operates eight hazardous waste incinerators in North America. Three incinerators are located at our Deer Park, Texas facility. Five incinerators are housed in Aragonite, Utah; Kimball, Nebraska; El Dorado, Arkansas; Lambton, Ontario; and Mercier, Quebec. Clean Harbors offers:

- Direct incineration of incompatible/reactive materials
- State-of-the-art fluidized bed technology
- Rotary kiln technology
- Liquid injection technology
- Rail access to minimize transportation costs
- Ash management
- Compressed gas cylinder management program

Direct Incineration of Incompatible/Reactive Materials –

Clean Harbors specializes in the management of incompatible/reactive liquids, solids, sludge and gases via direct incineration.

State of the Art Fluidized Bed Technology – Our Kimball, Nebraska incinerator uses a *fluidized bed incineration technology*. The vertical thermal oxidation unit operates in the 1400-1600°F range and the bed is made up of small, granular inorganic materials that mix throughout the unit.



The fluidized bed technology helps to promote a more complete organic combustion than other incineration technologies.

Rotary Kiln Technology – Our Deer Park, Texas; El Dorado, Arkansas; and Aragonite, Utah incinerators use a *rotary kiln technology*. High temperature kilns provide greater flexibility in destruction of hazardous wastes. A high temperature kiln and afterburner can process material in bulk and drum (liquids, solids and sludge), can process lab packs, and can manage compressed gases cylinders, bulk sludge processing, etc.

Liquid Injection Technology – Our Lambton, Ontario and Mercier, Quebec incinerators use a *liquid injection technology*. This technology is a high temperature system consisting of a fixed unit incinerator, a semi-dry spray dryer absorber, and a four-compartment baghouse. This system provides a cost-effective and environmental sound option for the management of liquid and pumpable materials.

Rail Access to Minimize Transportation Costs – Clean Harbors incineration facilities can receive waste via rail. Rail shipments reduce customer transportation costs as well as over-the-road liability. Our Kimball facility can provide value added service, *rail car cleaning*, when requested. Our Deer Park facility can receive and process incompatible/reactive liquids in rail via direct injection into the incinerator chambers.

Ash Management – All ash generated from a Clean Harbors incinerator is managed internally to a company owned and operated landfill. Ash generated from our Kimball and Deer Park incinerators is managed to on-site landfills further ensuring customers that their liability ends at the incinerator.

Unique to the industry is Clean Harbors' Kimball facility, which is the only commercial hazardous waste incinerator in the United States that can delist their ash. After stabilization, ash is certified to be non-hazardous and is "delisted" prior to placement on the on-site monofill. As a result, it is no longer regulated as a hazardous waste under RCRA.

Compressed Gas Cylinder Management Program – Clean Harbors' Deer Park and El Dorado facilities specialize in the management of compressed gas cylinders. Deer Park and El Dorado can manage cylinders weighing up to one ton. We have successfully managed over 1,100 different gases at our Deer Park facility. El Dorado can also manage large C-Class cylinders, ISO, and multi tube trailers of compressed gas. Our Aragonite incinerator is permitted to process compressed gases and accepts some gas cylinders.