

## Organic Recovery Unit Producing Clean, Contaminant-free media

Think Green.® Think Waste Management.

**F**or businesses such as refineries, paint manufacturers and soil remediation companies, utilizing a convenient and cost-effective method for cleansing contaminated soil/media is critical. Not only do they need to take steps toward supporting the environment by reducing their overall carbon footprint, but they also must do so in way that facilitates cost control and supports the growth of their business while minimizing waste-related liabilities.

To help meet this challenge, Waste Management now offers a safe, convenient and cost-effective way to transform contaminated media into clean soil, rendering the remaining residue suitable for either re-use, recycling or disposal at a secure landfill.

### THE ORGANIC RECOVERY UNIT

Waste Management's Organic Recovery Unit (ORU) uses intense levels of heat to drive organic material, water and solids from soil or other media without allowing the heat source to come in direct contact with the waste. The organic vapors and water that is liberated from the soil or other media are condensed in a multi-stage condenser system, and the resulting liquids can be recycled as fuel or sent off-site for further treatment. No contaminants are released into the atmosphere by the ORU process and many former chemical constituents of concern are recycled into their primary components that can be later recovered for their fuel value.



The ORU provides Waste Management customers with a range of environmental and business benefits, including:

- **Lower Remediation Expenditures** – By offering an environmentally-friendly solution that is typically more cost-effective and uses less energy than incineration, and produces cleaner output.
- **Smaller Carbon Footprint** – Located in Arlington, OR, the ORU is the only unit of its kind west of the Rocky Mountains, and offers efficient, direct railway access to minimize transportation costs.
- **Reduced Liability** – A preferred alternative to landfill and incineration disposal, WM's ORU can accept a wide range of contaminated material, including process sludges and soils, and treat them in an environmentally-friendly manner.
- **Regulatory Compliance** – Thermal remediation is faster and more effective than other approaches, such as bioremediation, enabling companies to pursue projects that require high remediation performance levels.
- **Environmental Stewardship** – The ORU supports emerging "green" objectives, and can play an important role in many organizations' drive toward sustainability.



# Organic Recovery Unit

## WASTE TYPES

**Acceptable** types of waste include, but are not limited to:

- Volatile Organic Compounds (Xylene, Toluene, Benzene)
- Pesticides and Herbicides (Pentachlorophenol, Lindane, Methoxychlor)
- Chlorinated Solvents (Tetrachloroethylene, Trichloroethylene)
- Process Waste (F032, F034, F035)
- Refinery Waste (F037, K050, K051, K052, K169, K170)
- Semi-Volatile Organics (PAHs - Polycyclicaromatic Hydrocarbons)
- Chlorine and Dioxins (with limits)
- Organic Dyes and Dye Intermediates (Aniline, Dichlorobenzidine)
- Mercury contaminated soil, sludge and debris (From industrial sites, such as Chlor Alkali facilities)
- Hazardous Waste Solvents in Solid Media (F001, F002, F003, F004, F005)



**Unacceptable** types of waste include, but are not limited to:

- Ignitable or reactive material (D001, D003)
- Polychlorinated Biphenyls (PCBs)
- Limited restrictions for Chlorine and Dioxins
- Explosives

## WASTE MANAGEMENT'S ORGANIC RECOVERY UNIT

For more information about Waste Management's Organic Recovery Unit, please contact your Waste Management Representative at 800-WMDisposal (800-693-4776) or log onto [www.WMDisposal.com](http://www.WMDisposal.com).



*From everyday collection to environmental protection, Think Green.® Think Waste Management.*



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