

# Cuyahoga County HHW Program

A different  
model



Recycle More, Recycle Better.

# Household Hazardous Waste Disposal

Proper disposal of hazardous chemicals from your home has never been easier in Cuyahoga County. As a resident, you can turn in unwanted products at a free collection held in your community.



## Accepted

- Oil or solvent-based paint, sealers, primers or coatings
- Varnishes, polyurethanes, shellacs
- Paint thinner, mineral spirits, turpentine
- Pesticides, herbicides, fungicides
- Caustic household cleaners
- Pool chemicals
- Automotive fluids, motor oil, car batteries
- Adhesives, roof tar, driveway sealer
- Kerosene, gasoline, lighter fluid
- Mercury, fluorescent bulbs

## Not Accepted\*

- Latex paint
- Explosives, gun powder, ammunition, flares
- Medical waste, pharmaceuticals, medicine, sharps
- Smoke detectors

\*Visit **[CuyahogaRecycles.org](http://CuyahogaRecycles.org)** for disposal information.



# Original Collection Style 1995 - 2010



















INTERNATIONAL

43

CITY OF WESTLAKE



DEPARTMENT OF  
PUBLIC SERVICE

7400  
DT530



**S**TOP

**T**HINK

**O**BSERVE

**P**ROCEED



# Special Waste Convenience Center Concept



# Cuyahoga County Special Waste Convenience Center





# Current Collection Style 2011 - TODAY







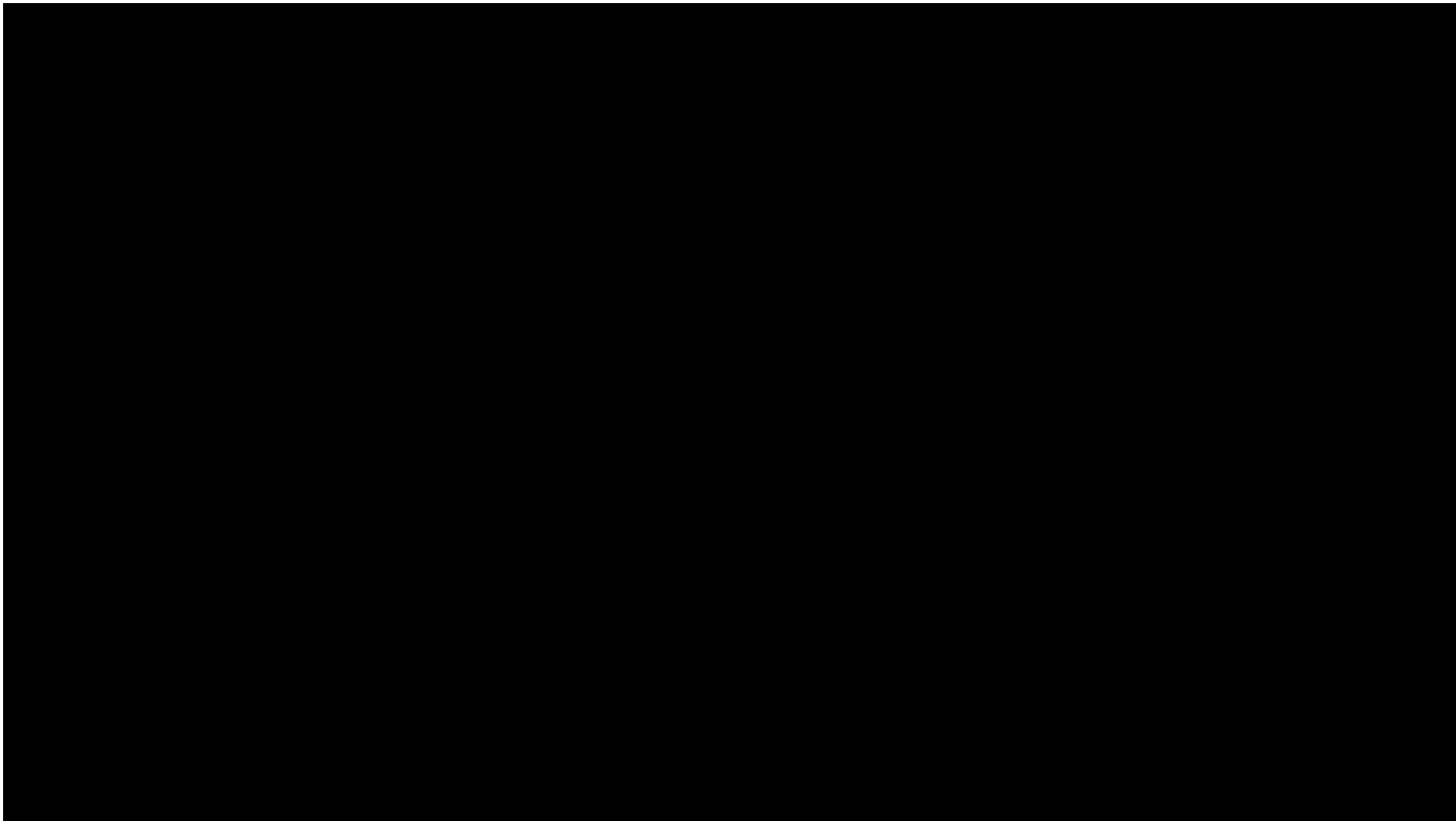












# PROGRAM INFO

- 52 participating communities – **convenient, local drop-off**
- Ongoing or semi annual events – **available when needed**
- 350,000 – 550,000 5,000 lbs. collected annually
- \$300,000 average annual cost – **about \$0.74/lb**
- Program needs - **1 staff member**
- Contractor – **Chemtron Corp. Avon, OH**

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## PROS

**Efficient, safe, economical and convenient**

**Happy residents**

**Happy communities**

**No more cold 12 hour days at the fairgrounds**







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Avon, Ohio

## *A Full Service Environmental Company*



*"Working To Protect Our Environment"*



CuyahogaRecycles.org



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# **Household Hazardous Waste Training**

**Safety/Segregation and  
Packing/HHW Setup**





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# 49 CFR Section 171.1 Haz Carrier Exemption

(d) Functions not subject to the requirements of the HMR (Hazardous Materials Regulations). The following are examples of activities to which the HMR do not apply.

(5) Transportation of a hazardous material in a motor vehicle, aircraft, or vessel operated by a Federal, state, or local government employee solely for noncommercial Federal, state or local government purposes.



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# Employee Safety & Proper PPE

Even though this is household waste, it is still hazardous!

- Steel-toe boots
- Safety glasses
- Nitrile gloves or leather gloves
- Tyvek suits
- Volunteers should be greeters or traffic control only.





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# HHW Do's & Securing the Load

- Package all materials appropriately with provided supplies; keep boxes dry.
- Flexbins should be lined and taped shut.
- Drum lids should be on and tightly closed.
- Waste needs to be secure on the back of trucks (Load locks, straps) for careful transportation over the road.
- Make sure all staff are informed and educated.



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# Spill Procedures

Motor oil, flammable material, paint, antifreeze onsite can be resolved with absorbent (speedi-dry).












Mercury spill onsite – Call local authorities 1<sup>st</sup> and determine if Chemtron ER needs contacted.

Spill in transit – Call local authorities 1<sup>st</sup> and determine if Chemtron ER needs contacted.



# Cuyahoga County Household Hazardous Waste Disposal Program

## HHW Segregation Chart

Item	Container	Examples
 <b>Flammable Liquids (paint)</b>	Lined flexbin or 55 gallon drum	Oil-based paint, stain, Thompson Water Seal, varnishes
 <b>Aerosols</b>	55 gallon drum or lined flexbin	Any aerosol container
 <b>Flammable Liquids (fuels)</b>	5, 16, 30 or 55 gallon drum	Gasoline, kerosene, mineral spirits, acetone, xylene, lighter fluid
 <b>Pesticides</b>	55 gallon drum	Ortho, Scott's, Round-Up, Black Flag
 <b>Corrosive Liquids (acidic)</b>	5, 16 or 30 gallon plastic drum	Naval Jelly, Muriatic/Hydrochloric/Sulfuric Acid, toilet cleaners
 <b>Corrosive Liquids (basic)</b>	5, 16 or 30 gallon plastic drum	Sodium hydroxide, ammonia, Drano, caustic soda, 409 cleaner
 <b>Motor Oil/Antifreeze</b>	5, 16, 30 or 55 gallon drum	Hydraulic fluid, gear oil, fryer oil, antifreeze
 <b>Mercury</b>	5 gallon pail	Thermometers, switches
<b>Batteries</b> Nickel Cadmium (NiCd) Lithium/Lithium-ion (Li-ion) Alkaline Sealed Lead Acid (gel cells) Lead Acid Battery	<div style="background-color: #e91e63; color: white; text-align: center; padding: 20px;"> <h2 style="margin: 0;">Do Not Bring Batteries for HHW</h2> </div>	
		
 <b>Propane Tanks</b>	Pallet	"Lecture" size to gas grill
 <b>Fluorescent Tube Bulbs</b>	<div style="background-color: #e91e63; color: white; text-align: center; padding: 20px;"> <h2 style="margin: 0;">Do Not Bring Bulbs for HHW</h2> </div>	

**DO NOT TAKE Ammunition, DEA material, Bio-medical waste, Smoke detectors, Fireworks, Flares**



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# What not to do







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# Please Don't Mix All Waste





# HHW done well – good city set up







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# HHW done well – good city set up





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# HHW Training & Supplies

Training provided for city employees at the District

On-site training also available

Supplies available to cities multiple days per month

Supplies belong to Chemtron. HHW should be delivered to the District in proper containers.



# THANKS!

Diane Bickett - CCSWD  
Bill Krasienko – Chemtron  
Jody Hurd - Chemtron

