## HAZARDOUS WASTE in 1 Hour ... or less

(for Solid Waste Administrators & Staff)

#### Minnesota Pollution Control Agency

Industrial Division
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MPCA; Hazardous Waste Publications

http://www.pca.state.mn.us/waste/pubs/business.html

#### 10 Steps to Hazardous Waste Compliance

- Evaluate waste Determine generator size
- Get a Generator Identification Number
- Get a license Pay a fee
- Place waste in containers
  Mark them

- Accumulate and store waste properly
- Transport, dispose of hazardous waste correctly
- Manifest shipments of hazardous waste
- Plan for emergencies

- Train personnel
- 1 Keep records
- pecial topics





MPCA; '10 Steps to Compliance'

http://www.pca.state.mn.us/waste/pubs/business.html

#### Waste – what is it?

A material not needed, used, wanted and/or unusable



NOT a material you or someone else can and WILL reuse



#### A waste may be –

#### **Nonhazardous**

**Exempt** 

#### **Hazardous**

- Listed
- Characteristic

#### Exempt – "RCRA Empty" Containers

All waste that can be removed has been

and



< 3% remains (container < 119 gallons)</p>

or

< 0.3% remains</li>(container > 119 gallons)

or

< 1 inch remains (tar or other extremely viscous material)



#### Exempt – ...with conditions

- Universal wastes
- Used oil
- E-waste
- HHW (until collected)\*







### A waste may be hazardous for **two** reasons:

Listed



Characteristic

#### F-list

Solvents











#### **P-list**

- Pesticides
- Pharmaceuticals











#### **U-list**

- Industrial chemicals
- Pharmaceuticals









Specified industries' wastes





#### **PCBs**

- Shredder residue\*
- Lamp ballasts\*
- Caulk/sealants\*









#### Ignitable

- Solvents
- Oil-based paint\*
- Aerosols









- Fertilizers
- Bleaches





#### Reactive

- Water-reactives
- Airbags









- Acids
- Cleaners







#### **Toxic**

- Lead paint remediation waste\*
- Sandblasting debris







#### Lethal

- Poisons
- Pesticides



#### **Evaluate Waste**

Every waste must either be:

□assumed to be hazardous

OR

evaluated as non-hazardous (documented as non-hazardous)

- knowledge
- testing



#### Hazardous Waste ID#s

- Site-specific
  - contiguous
    - regional locations must
       each obtain a unique
       Hazardous Waste
       Identification Number\*



#### Hazardous Waste Containers

- "Hazardous Waste"
- Clear description
- Accumulation start date

# HAZARDOUS WASTE ACCUMULATION START DATE CONTENTS HANDLE WITH CARE! CONTAINS HAZARDOUS OR TOXIC WASTES







MPCA #w-hw1-04-05; Hazardous Waste Containers

http://www.pca.state.mn.us/publications/w-hw1-04-05.pdf21

#### Storing Indoors

Documented weekly inspections

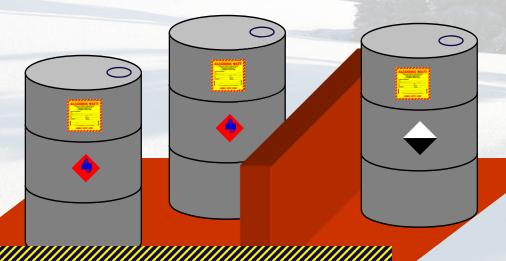
Container Inspection

What done? Signed: Your Name

Who When Where Problems?

- Closed containers
- Impermeable containment surface
- Adequate aisle space
- Separate incompatible wastes

\*Protected from inadvertent damage (if applicable)





MPCA #w-hw1-04-05; Hazardous Waste Storage

#### Storing Outdoors

- All Indoor requirements
  - + Shading
  - + Weather protection
  - + Security



#### Accumulation Volume & Time Limits

Generator Size	Volume Limit	Time Limit	
VSQG	1000 kg	180* days at ≥1000 kg	
SQG	3000 kg	180* days	
LQG	None	90 days	

\*VSQGs/SQGs ≥200 miles from designated TSDF may accumulate additional 90 days



#### Ship Off-site

- Transporters
  - □ Transporter & Vehicle properly licensed
  - Containers are DOT-labeled
  - Vehicle properly placarded
    - ◆ <u>Shipper</u> is responsible



Questions?

Call MNDOT at (651) 405-6060





#### Manifest Shipments

"Cradle to Grave" Tracking Document

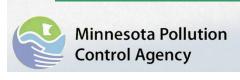


□ Ensure '3-signature' copies are received from disposal facility



#### Plan for Emergencies

- VSQG
  - None required
    - □ [strongly recommended]
- SQG
  - Emergency Coordinator
    - must be familiar with hazardous wastes
- LQG
  - □ Full Contingency Plan





#### Equipment \*

Ensure emergency equipment is accessible



#### Training

#### Who?

- □ All staff having ANY hazardous waste duties
  - ⊠ Generation

  - Manifesting

#### What?

- Proper waste handling
- Emergency procedures
- Relevant to their duties during
  - Normal facility operations AND





#### Recordkeeping



- Available for inspection at generator site
- Paper or Electronic





#### Universal Wastes

Batteries





□ Fluorescent/High-Intensity Discharge Lamps



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What about green tips?

Mercury-containing Equipment



Collected pesticides





#### Universal Wastes: Management

- Store to prevent damage
- Label





- Accumulate <1 year</p>
- Ship only for:
  - recycling
  - consolidation
  - proper disposal





#### Universal Wastes: Management

- If damaged, Universal Wastes must be stored in:
  - □ closed,
  - □ leak-proof,
  - □ labeled containers









#### Used Oil (+rags, filters, absorbents)

Store in closed, leakproof containers

- Store on impermeable surface
- Label containers

Keep shipment records





#### Used Oil - Burning

- Without testing, you may burn used oil from:
  - yourself
  - 'do-it-yourself'-ers
  - □ farmers

Test all other sources



#### E-waste

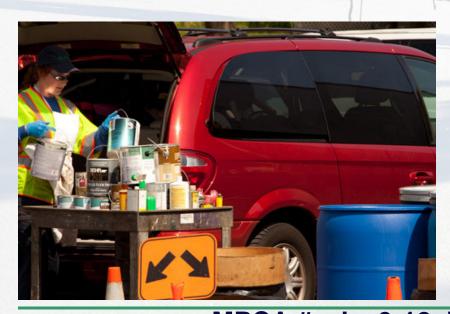
- Recycle
- Protect from release
- If you collect, register with MPCA





## \*HHW Removed by Businesses

- Remains HHW only if taken:
  - □ same-day to
  - notified & agreeable HHW Collection Program





#### \*PCBs – Shredder Residue

Waste, not daily cover



Shredder must show acceptable rolling average



## \*PCBs - Ballasts & Capacitors

- Assume contain PCBs unless:
  - Labeled "No PCBs"
  - Date of manufacture is known to be post-1979
- Manage under TSCA requirements
  - \*Report as hazardous waste disposal







#### \*PCBs - Caulk/Sealants

Demolition waste if disposed w/structure



Hazardous waste if separated during remediation

Must be removed before burning\*\*



#### \*Lead Paint

Demolition waste if disposed w/structure



Hazardous waste if separated during remediation

Does not need to be removed before burning\*\*



### \*\*Burning Structures

- Allowed <u>ONLY</u> for legitimate fire training
  - □ all buildings includes houses, barns, & government
- Pre-burn inspection
  - asbestos
  - hazardous components
  - PCB caulk
  - □ lead paint may remain





#### \*Oil-based Paint



- Collection Program available by July 14
- Run by PaintCare



- Collection at retail outlets
- Disposal funded by sale surcharge
- remains a hazardous waste



## Appliance Recyclers

- Recycling = any processing
- File Permit-By-Rule (PBR) w/MPCA
  - County SWA or Zoning Officer sign-off
  - □ Refrigerant technician certification



## Salvage Yards

- PBR if processing appliances
- Stormwater Permit
- <500 waste tires</p>





# Compliance Resources

- MPCA Small Business Environmental Assistance Program (SBEAP)
  - □ Free
  - Confidential
  - □ 651-282-6143
  - **800-657-3938**



# Compliance Resources

- Minnesota Technical Assistance Program (MnTAP)
  - □ Free
  - Downloadable self-assessments



#### Questions?

# **Any MPCA staff** (651) 296-6300

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Electronic copies of this presentation and all other presentations available free



