**Auto Services** Workshop at the **U.S.** National Arboretum













#### Auto Services Workshop at the Arboretum

June 8, 2017

#### AGENDA 9:00 am Arrival and Networking 9:15-10:15 Tour of Hickey Run Outfall Scott Aker, USDA, U.S. National Arboretum Jacob Zangrilli, Inspection and Enforcement Division, DOEE 10:15-10:30 Welcome and Introductions Mary Lynn Wilhere, Urban Sustainability Administration, DOEE Director Richard Olsen, USDA, U.S. National Arboretum 10:30-10:45 Break 10:45-11:05 RCRA C: Hazardous Waste and Used Oil Management The regulations may be complicated, but compliance is easy. Learn about common regulated wastes, how to properly manage them, and how to save money. **Victoria North**, Toxics Substances Division, DOEE



#### **AGENDA (Continued)**

11:05-11:25 Stormwater Pollution Prevention for Your Bottom Line Source reduction can give your shop a competitive edge by working to prevent waste, reduce toxicity, increase efficiency, and save you money. Learn about low-cost options for material management, alternative products, and recycling processes that will help prevent stormwater pollution. **Clara Elias**, Watershed Protection Division, DOEE





### Vickie North, Hazardous Materials, DOEE



GOVERNMENT OF THE DISTRICT OF COLUMBIA

#### <u>RCRA C Hazardous Waste</u> Environmental Compliance and Technical Assistance Session for Auto Service Professionals

Victoria North Toxic Substances Division Hazardous Waste Branch <u>victoria.north@dc.gov</u> 202 535 1909



Orientation material, not to be used for training. 6-7-17 5



- This information was prepared specifically for auto and small engine repair professionals and may not be appropriate for other facilities.
- This information is highly condensed and does <u>not</u> include all regulatory requirements. It CANNOT be used as training material.
- This information includes best practices which may exceed the regulatory requirements.
- DOEE cannot attest to the accuracy of information provided at the links in the presentation. Providing these links does not constitute an endorsement by DOEE or any of its employees.



- Failing to get an EPA ID #
  - (also called an EPA Handler ID # or an EPA Generator ID#).
- Failing to identify hazardous wastes (HW).
- Failing to properly manage hazardous wastes (HW), universal waste (UW), or used oil.
- Failing to properly dispose of hazardous wastes (HW), universal waste (UW), or used oil.
- Failing to keep paperwork to show you did everything right.

# Penalties!



- No EPA ID # is a \$2,000 fine.
- Not properly managing regulated wastes has fines ranging from \$500 to \$2,000 per infraction.
- Not submitting the annual renewal fee is a \$500 fine.
- Not submitting the annual self-certification of compliance is a \$500 fine.
- Clean up expenses caused by not properly managing or disposing of regulated wastes cost many thousands of dollars.
- Failure to properly manage regulated wastes puts you, your staff, your family, and the environment at risk.



#### 1 - Get an EPA ID #.

- All generators of hazardous waste, universal waste, or used oil in the District must have an EPA ID #.
  - An EPA ID # looks like this: DCR 000 500 109.
- To get an EPA ID # fill out EPA Form 8700-12 and submit it, with the registration fee, to the DOEE Hazardous Waste Branch.
- 2 Identify all the items in your facility that will be hazardous waste if you can't use them.
- 3 Properly manage and dispose of hazardous waste, universal waste, and used oil.
- 4 Train your staff to follow the rules.
- 5 Keep your paperwork to prove you did everything right!

Commonly found wastes at auto shops which are regulated under the RCRA C hazardous waste (HW) regulations



- Used oil
- Some parts washer solutions (HW) (ignitable)
- Some paints and paint thinners (HW) (ignitable)
- Lead wheel weights (HW) (toxic)
- Some concentrated cleaning products (HW) (corrosive)
- Battery acid (HW) (corrosive)
- Most aerosol products (HW) (ignitable)
- Spoiled gasoline (HW) (ignitable)
- Car or forklift batteries (UW)
- Fluorescent lamps (UW)
- Mercury tilt switches (UW)

# It might be a hazardous waste if...

- If it says 'danger' on it
- If it says 'flammable' on it
- If it says 'toxic' on it
- If it says 'poison' on it
- If it says 'warning' on it
- If it has a picture of a skull and cross bones on it
- If it has a picture of a fire on it
- If it is an acid
- If it is a base
- If it is a solvent

These items should be evaluated to see if they must be managed as hazardous waste.

Note: This list is not exhaustive, it is intended to initiate the evaluation process.





The regulation defines RCRA C regulated hazardous wastes as:



- Listed wastes
- Characteristic wastes
  - Ignitable (flash point below 140°F or 60°C)
  - Corrosive (pH <2 or pH >12.5)
  - Reactive
  - Toxic
- Anything the Administrator or the Director says is hazardous waste
- Anything you say is hazardous waste

Other RCRA C regulated wastes



Universal waste is a subcategory of hazardous waste.

- Spent fluorescent lamps (intact only, broken or crushed lamps are usually hazardous waste)
- Some batteries
- Some pesticides
- Mercury thermostats
- Mercury tilt switches

#### Used oil is also regulated







1 - Decide if it is a waste. Remember, the regulations only apply to waste, not to products you are currently using.
2 - Determine if the waste meets or exceeds one of the criteria in the regulation (see slides 8 & 9).

- Review a current safety data sheet (SDS) for the product, the flash point and pH will be listed. Also, many SDSs now state if the item will be regulated when it becomes a waste.
- Ask the vendor for the flashpoint, pH, and ingredients.
- Submit a sample for testing
- 3 Any waste which meets or exceeds one of the criteria, is a hazardous waste.

How to manage your - hazardous waste items



- Identify it
- Label it
- Date it
- Close it
- Inspect it
- Dispose of it (correctly)
- Train staff

### How to manage your



#### - hazardous waste items (continued)

- Identify it
  - Make a determination on all waste to identify all which require management under the regulation. See slide 10 for instructions.
- Label it
  - With the contents if it is not waste
  - "Hazardous Waste" if it is hazardous waste
  - Universal waste allows several variants (see slides 13 and 14)
- Date it with the accumulation start date
- Close it keep it in a closed container
- Inspect it conduct weekly inspections, and keep a log
- Dispose of it (correctly). Arrange for appropriate disposal using a licensed contractor <u>on a schedule</u>. You will get a manifest. Keep the manifest for your records.
  - Using small bottles helps
- Train staff

• As of October 23, 2015, secondary containment is no longer required for liquid hazardous waste except at TSDFs. Secondary containment is still required for used oil.

#### How to manage your - universal waste lamps



- Contain it put spent lamps in a drum, box, or carton
- Label it "Universal Waste Lamps" or "Waste Lamps" or "Used Lamps."
  - You can't call them tubes or bulbs, only lamps.
- Date it with the accumulation start date
- Close it keep it in a closed container
- Dispose of it (correctly). You may store universal waste at your site for up to 1 year.
  - Arrange for appropriate disposal by a licensed contractor on a schedule
- Train staff
- Incandescent lamps and LED lights are not universal waste
- Remember that broken or crushed lamps are never universal waste; they are usually hazardous waste.



#### How to manage your - universal waste batteries



- Label it "Universal Waste Battery(ies)" or "Waste Battery(ies)" or "Used Battery(ies)."
- Date it with the accumulation start date
- Dispose of it (correctly). You may store universal waste at your site for up to 1 year.
  - Arrange for appropriate disposal by a licensed contractor <u>on a schedule</u>
- Train staff
- Alkaline batteries are not universal waste

# How to manage your used oil



- Label it "Used Oil"
- Close it Keep the container closed
- Contain it Use secondary containment
- Train staff
- You <u>cannot</u> burn used oil in the District
- Cooking oil is not regulated by DOEE. It is regulated by DOH.

## Other regulatory bodies



- DOEE
  - Water Quality Division
  - Lead Program
  - Air Quality Program
- OSHA
- WASA / DC Water
- Fire Marshall
- DOT
- others





- Each site must maintain current information on file with the DOEE Hazardous Waste Branch
  - Remember to send in a revised 8700-12 when the contact person changes, the mailing address changes, the waste streams change, or the generator status changes.
  - It's free to update the information!
- The annual fee is due <u>every</u> March 1<sup>st</sup>.
- The annual self-certification of compliance is due <u>every</u> March 1<sup>st</sup>.





As of October 23, 2015, the annual fee for conditionally exempt small quantity generators (CESQGs) will be \$250 unless the generator has less than 8 employees. For CESQGs with less than 8 employees, the fee is \$100.

This was added to the regulations to assist smaller businesses. In order to qualify for the \$100 CESQG fee, you must have less than 8 employees <u>company wide</u>.



#### **Examples**

Orientation material, not to be used for training. 6-7-17

# What NOT to do









Universal waste lamps must be - in boxes - which are closed - are labeled - and are dated

# What NOT to do

Labels must be meaningful!

Hazardous waste must bear the words "Hazardous Waste" and the date it was determined to be a waste.





#### Secondary containment for - above ground storage tanks





# Secondary containment for - large containers





These are suitable for use outdoors. There are different styles available.



### Secondary containment for large containers (continued)



These are <u>not</u> suitable for use outdoors.

A variety of configurations are available, pick one that works in

your space.





#### Used oil labels examples



Handmade and hand written labels are ok!









Don't forget that used oil must be in secondary containment, this example is not in secondary containment.

#### Universal waste battery labels examples

Handmade and hand written labels are ok!







It may be easier to put small batteries in a container and label and date the container rather than labeling and dating each individual battery.



Remember to write the date on both of the above labels



# labels are ok!

Handmade and hand written

examples

Make sure the date is included







Remember to write the date on both of the above labels



#### Hazardous waste labels

#### - examples



Remember to write the date on the labels



#### Handmade and hand written labels are ok!





#### Containers of used oil must be closed.

A self-closing funnel may be used with above ground storage tanks or 55-gallon





This funnel is not self-closing

#### Where is the info on an SDS?

# This is what the front page of a (material) safety data sheet (MSDS or SDS) looks like:



\* \* DEPARTMENT

ENVIDONMENT

#### Where is the info on an SDS?





Appearance:	Light amber liquid	Flammable Limits:	LEL: 0.6% UEL: 8%
		(Solvent Portion)	
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F
weiting/Freezing Point	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 - 187°C)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	122°F (49°C) Tag Closed Cup (concentrate)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition	Not established

3	HAZARDS IDENTIFICATION		
3.1	Fire and Explosion		
	Flash point:	Tag open cup 44° Celsius (minimum)	
	Flammable/explosion limits:	(Low) 0.6% (High) 8.0%	
	-	(Solvent portion)	
	Extinguishing media:	CO <sup>2</sup> , dry chemical, foam	

#### Where is the info on an SDS?

Check the 'disposal considerations' for useful information.



#### 13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.




Questions can be answered by contacting DOEE Hazardous Waste Branch at: (202) 671-3308

District Regulations and Law may be viewed online at: <u>http://doee.dc.gov/node/14732</u>

EPA Form 8700-12 can be found here:

http://doee.dc.gov/sites/default/files/dc/sites/ddoe/page\_content/attachments/8700-12%2C%20just%20the%20form%2C%202015\_0.pdf

Guide: How to Determine if Solvents That Can No Longer Be Used in the Workplace Are Hazardous Waste <u>https://www.epa.gov/hwgenerators/guide-how-determine-if-solvents-</u> <u>can-no-longer-be-used-workplace-are-hazardous-waste</u>

Department of Energy and Environment website: <u>www.doee.dc.gov</u>

EPA Regulations may be viewed online at: <u>https://www.epa.gov/rcra/resource-</u> conservation-and-recovery-act-rcra-regulations#haz

EPA assistance document for managing hazardous waste for vehicle maintenance providers: <u>https://www.epa.gov/sites/production/files/2015-01/documents/vehicle.pdf</u>



Clara Elias Watershed Protection Division DOEE



# Prevention for Your Bottom Line June 8, 2017





### AGENDA

1. Overview 2. Permitting Requirements **3. Pollution Prevention Expectations** 5. Assistance Program 6. Review





### When rain falls in the District...

... it runs off hard surfaces & becomes stormwater runoff.

# Stormwater picks up pollution as it runs downhill, and ...

...washes it into stormdrains like this one...

### Or this one.

- and

For 2/3 of the District, stormwater empties directly into our streams & rivers with little to no treatment.











# 2 Types of Sewers

- Municipal Separate Storm Sewer System (MS4)
- Combined Sewer System (CSS)





### ... through the Anacostia & Potomac Rivers and...



### ... out into the Chesapeake Bay



# **Common Pollutants**

# Stormwater pollution is anything other than stormwater that gets into our stormwater or stormdrains, including:

- Vehicle & equipment fluids
- Paints & solvents
- Salt & brine
- Pesticides & fertilizers
- Pet waste

- Trash
- Soaps & wash water
- Petroleum & oil
- Rust
- Dirt











## A Drop a Day Adds Up



### 1 drop/second = ~2,000 gallons/year

#### 2014







### Stormwater & Auto Repair Shops

# **2/3** of the District's Automotive Repair Shops are in the MS4





# 2. Stormwater Regulations

### Clean Water Act 1972



- Sets water quality standards for waterways
- Regulates releases of pollution through permits

#### Type of permit depends on:

- 1) Location: CSS or MS4
- 2) Type of activities





# Permit Coverage

	Activity	
Sewer	Division I	Division E
	Automotive Repair Shops	Transportation Service Facilities for Motor Vehicles*
MS4	District MS4 Permit	Multi-Sector General Permit
		from EPA
CSS	DC Water Permit	Industrial Discharge Permit
		from DC Water



\* Service buses, taxis, fleet & other forms of passenger transportation

Find your sewer type at: geospatial.dcgis.dc.gov/watershedfinder

# 3. Expectations

**Stormwater Pollution Prevention Plans (SWPPPs)** Every shop should have one.

What are SWPPPs? Your facility's some plan for clean water – how it is taking action to revenue ollution

• Your operations customers activities

#### **4** Primary Objectives

- 1. Assure compliance
- 2. Identify potential sources and ution
- 3. Outline schedules, procedures, & responsibilities
- 4. Track efforts



Living Document



### Housekeeping



#### Nothing But Water -

• Don't dump/sweep/wash pollutants down the drain

GASOLINE

- Never hose down your work area
- Wash cars at a car wash

#### Cover & Elevate –

- Keep materials covered & elevated
- Keep lids securely on solid waste storage containers
- Label storage & waste containers

Oil

#### Keep It Clean & Tidy –

- Prevent & clean up spills, leaks, & drips
- Put things away & keep containers closed

Spill

Kit

• Refill & transfer materials inside

Oi

• Pick up litter





- Spills to the Storm Drain: Call 911 Spills or dumping of liquids that gets into a storm drain, or if a spill cannot be controlled
- Overflowing Sidewalk Litter Cans: 311\*
- Illegal Dumping: 311\* Dumping of solid waste

\* Call 311 or visit **311.dc.gov** 





### Structural BMPs



### 4. Technical Assistance Program

Clear guidance on land, air, & water pollution prevention from DOEE.

- **Goal:** Reduce pollution & save you money
- Eligibility: Any District Automotive Repair
- Cost: Free!!



**EPA Pollution Prevention Source Reduction Grant** 







# Pollution Prevention (P2)

# Any practice that reduces, eliminates, or prevents pollution at its source.

• Less waste to control, treat, or dispose

DADTME

- Fewer hazards to public health & the environment
- EPA P2 Hierarchy: Environmental Protection Hierarchy



# **Source Reduction**

#### 1. Less Toxic Products

Paint gun cleaner: Lacquer thinner to water-based

• \$700/year to \$30/year = **Saved \$643/year** 

#### 2. Longer Lasting Products

Brake Cleaner: General degreasers to Eco-brake cleaner

• \$2,000/year to \$475/year = **Saved \$1,525/year** 











- 1. Motor Oil
- 2. Antifreeze: Recycled antifreeze is ½ the cost of new product & reduces hazardous waste
- 3. Car Batteries
- 4. Other Waste: bottles, cans, cardboard, paper, et al.







### **Onsite Visits**

- Develop a tailored plan to reduce pollution at your facility
- Hands-on assistance & problem solving
- Service provided in English, Spanish, & Amharic
- Third party to ensure anonymity







### **Additional Assistance**

- Certification program
- Quarterly newsletters with case studies
- Workshops









### 5. Review

Stormwater runs off hard surfaces, picks up pollution, & in 2/3 of the District it runs directly into our streams & rivers



# Permitting

Stormwater is regulated by the EPA because pollution impacts our environment & our communities.

The type of permit regulating your facility depends on its location & activities.



# Expectations

#### **Stormwater Pollution Prevention Plans**

#### 1. Good Housekeeping

- Nothing but Water
- Cover & Elevate
- Keep it Clean & Tidy
- 2. Spill response



3. Inspect & Maintain Structural BMPs





# **Technical Assistance**

- Free Assistance
- Tailored Pollution Prevention Plan
- Save Money

Sign up today









# **Questions?**

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