

District of Columbia Water and Sewer Authority



Community Education Program:

Floatable Pollution Reduction and Proper Disposal of Household Materials

Winter 2005



Agenda

- **Background**

- ✓ **WASA**

- ✓ **Combined Sewer Overflow Control Program**

- **Trash Control (Solids and Floatables)**

- **Proper Disposal of Household Hazardous Substances**

- ✓ **About DPW**

- ✓ **How to dispose of household hazardous wastes**

- ✓ **Recycling**

What is WASA?

- Independent Authority formed in 1996
- Formerly Water and Sewer Utility Administration (WASUA) under Dept. of Public Utilities
- Services Provided
 - ✓ Water Distribution
 - ✓ Wastewater Collection and Treatment
 - ✓ Storm Water Collection and Conveyance
- Serves
 - ✓ District
 - ✓ Parts of Maryland & Virginia



Blue Plains Wastewater Treatment Plant

What Services are Provided By WASA?

Services Provided by WASA in District	Services <u>not</u> Provided By WASA
Water Distribution	Street cleaning
Wastewater collection and treatment	Trash collection, recycling
Catch basin Cleaning (D.C. & Fed Gov also cleans some basins)	Leaf pickup
Maintenance and operation of storm water pumping stations	Collection of hazardous substances (oil, paint, etc.)

What Types of Sewer Systems are in D.C.?

■ Combined Sewer System

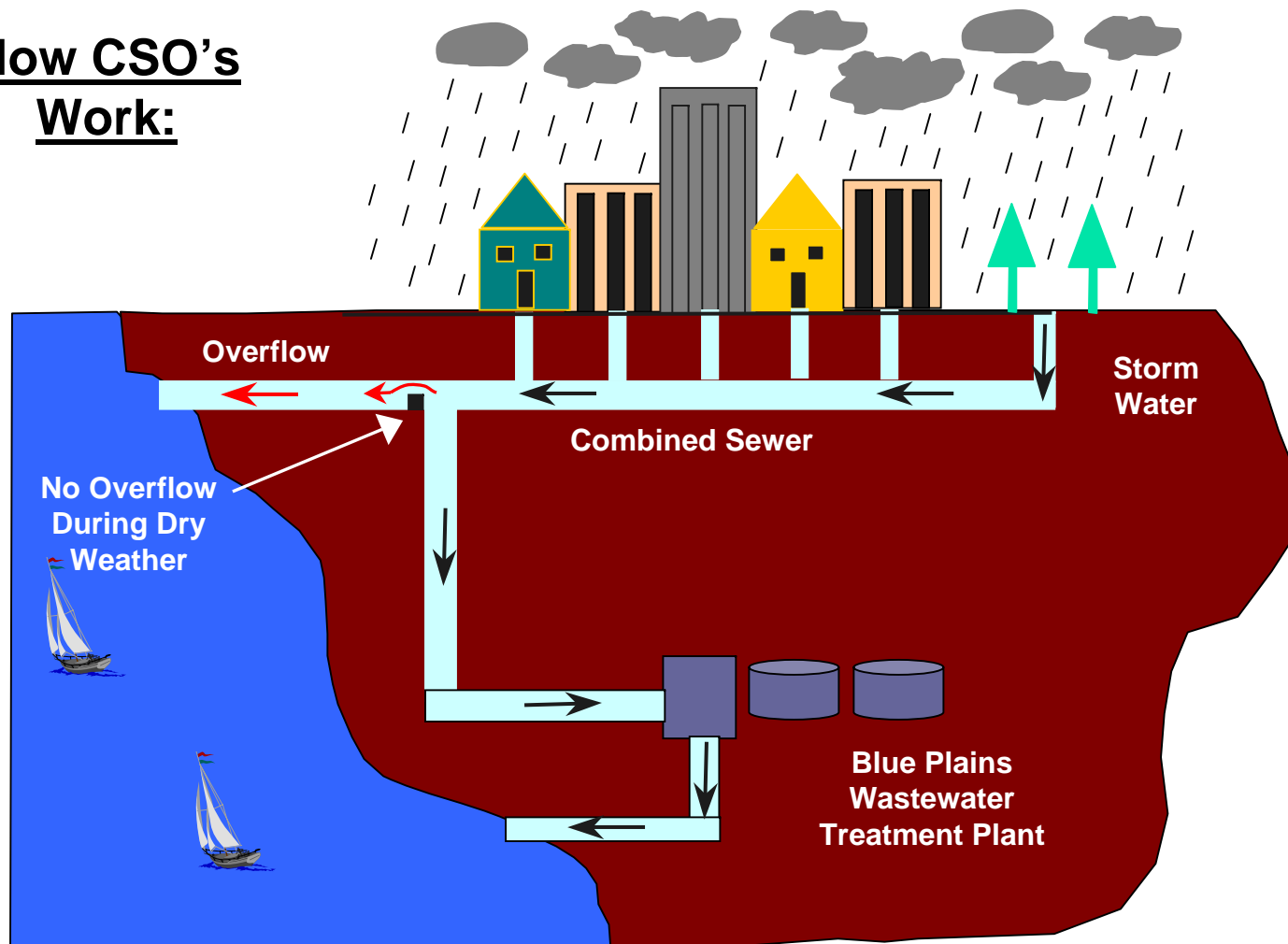
- ✓ 1 pipe in the street
- ✓ Handles both runoff from storms and wastewater
- ✓ Mostly in older sections
- ✓ Stopped building combined sewer early 1900's
- ✓ Typical of older cities (Boston, NY, Chicago, etc.)

■ Separate Sewer System

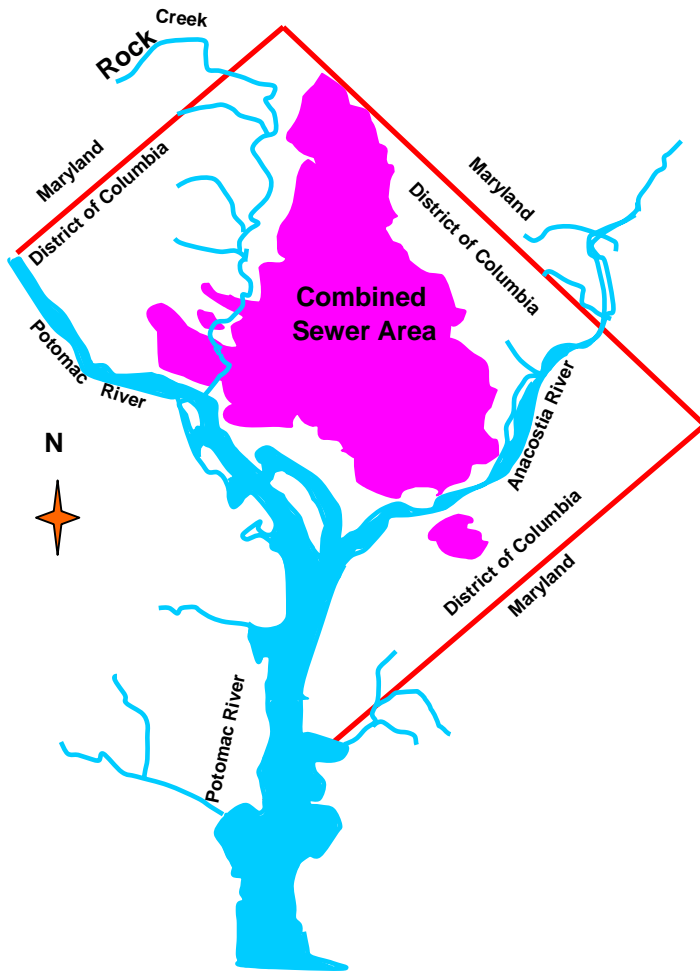
- ✓ 2 pipes in street
- ✓ 1 pipe handles runoff from storms, other handles wastewater
- ✓ In newer sections
- ✓ Modern practice
- ✓ Typical of newer cities (Phoenix, Las Vegas, etc.)

What is a CSO?

How CSO's Work:



Where are Combined Sewers in the District?



- 1/3 area is combined (12,478 ac)
- 2/3 area has separate storm and sanitary sewers
- 53 CSO outfalls

Why are CSOs a Concern?

- Can adversely affect quality of receiving waters
- Primary concerns:
 - ✓ Bacteria levels
 - ✓ Contribute to low dissolved oxygen in water
 - Potential for fish stress or fish kills
 - Affects other aquatic life
 - ✓ Aesthetics - contributes to trash on waterways



CSO 017 to Anacostia River
during Hurricane Floyd

What is WASA to doing to Control CSOs?

- **Near Term**

- ✓ 40% reduction in overflow volume by 2008

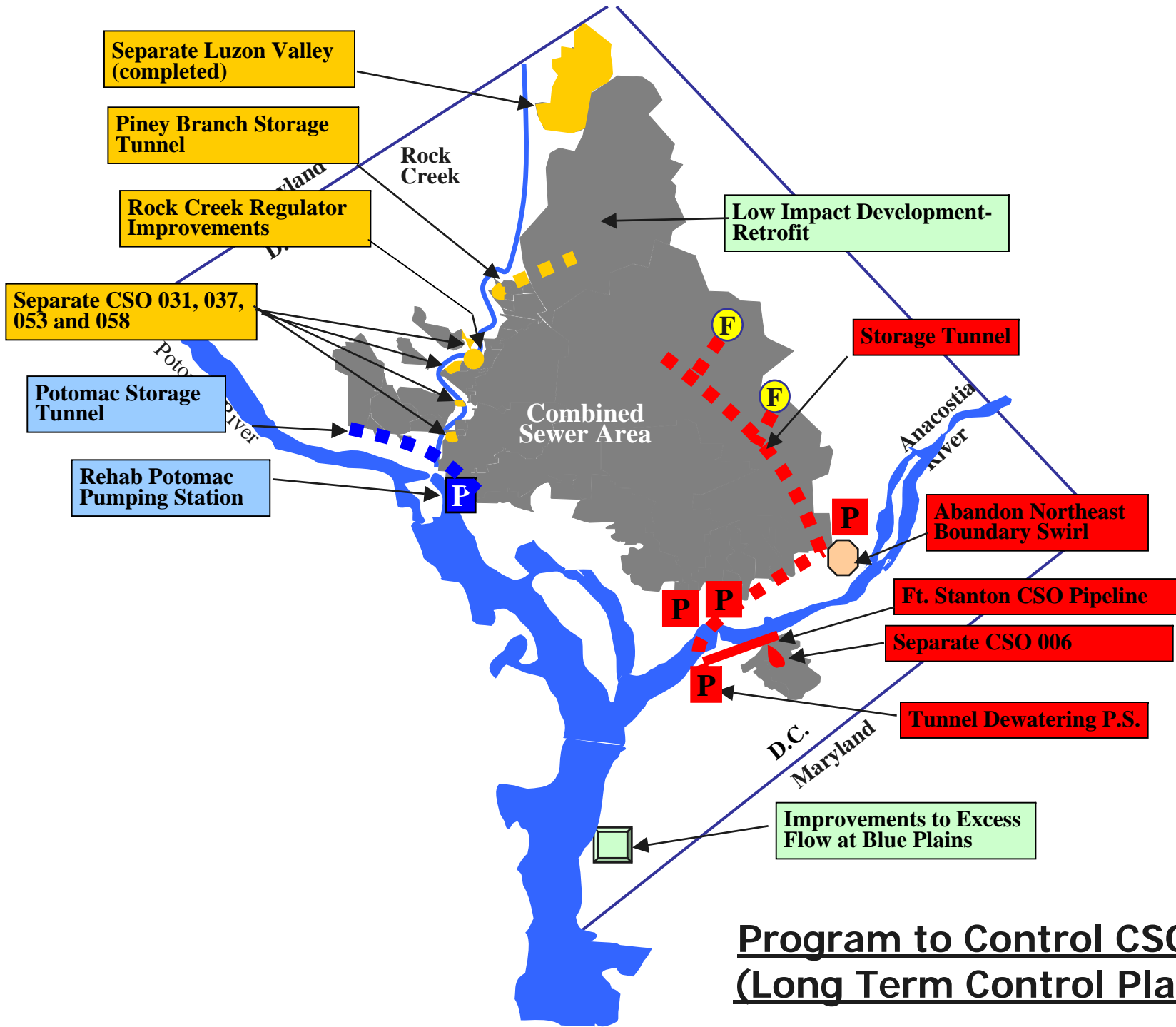
- **Longer Term (Long Term Control Plan)**

- ✓ 20 year plan (2005-2025) to construction CSO controls

- ✓ 96% overall reduction in CSO overflow volume (98% reduction to Anacostia River)

- ✓ Anacostia projects will be first

- ✓ Starting facility planning for Anacostia Projects in 2005



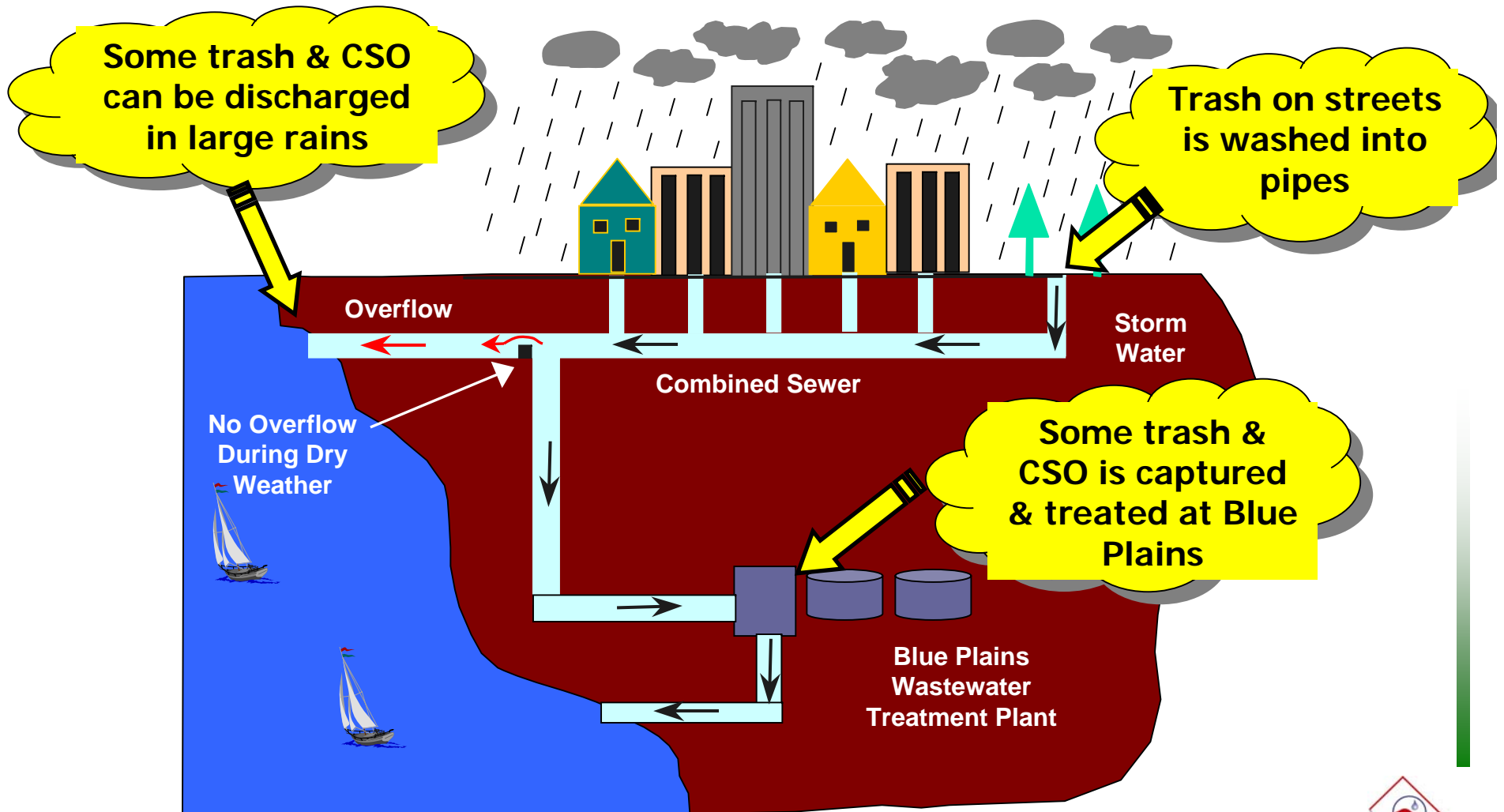
**Program to Control CSOs
(Long Term Control Plan)**

What are Solids and Floatables (Trash)?

- Trash or debris that can be washed into receiving waters during storms
 - ✓ *Litter* (cans, candy wrappers, napkins, etc)
 - ✓ Items in wastewater (sanitary products, etc other)



How does Trash Reach Rivers in Combined Sewer System?



How does Trash Reach Rivers in Separate Sewer System?



Trash on Streets



Is washed into sewers



Discharges to River

- Typically, no treatment is provided for storm water
- If catch basins don't catch trash, it reaches waterways

What is WASA Doing to Reduce Trash in Rivers?

- Regular catch basin cleaning
- Anacostia Floatable Debris Removable Program
- Demonstration Projects
 - ✓ Netting system on Anacostia River
 - ✓ Bar Racks at 2 Rock Creek CSOs
- Long Term Plan for Reducing CSOs (Long Term Control Plan)
- Districts MS4 Permit Program for Separate Storm Sewer System

Catch Basin Cleaning



9th and D Street, NW

12/7/2000 10:54am



Anacostia River Floatable Debris Removal Program

- Continuing Program
- Removes average of 70 tons/month
- Works cooperatively with U.S. Army Corps of Engineers



WASA Skimmer Boat

Solids and Floatables Demonstration Projects

- Demonstration project on Anacostia River to remove solids and floatables
- Operational since April 2000
- Typically removes 400-1000 lbs per rain event



Netting System at CSO 018
to Anacostia River

The Environment and You

- The environment is where you.....

- ✓ Work

- ✓ Play

- ✓ Live



- Three really good reasons to do your part to improve your surroundings.
- DC WASA is working to improve water quality in the region's rivers: Rock Creek, the Anacostia and the Potomac.

What can you do to Reduce Trash on our Rivers?

DO NOT

- Litter
- Use catch basins as trash cans
- Dispose of motor oil or hazardous materials in storm drains or trash
- Dispose of cooking oil or grease to sewer

DO

- Dispose of trash in approved receptacles
- Keep streets and neighborhoods clean
- Dispose of motor oil and household hazardous wastes in approved manners
- Dispose of cooking oil /grease with trash

About DPW

- The Department of Public Works (DPW) provides trash and recycling collection and container service to residents living in buildings with three or fewer units.

- DPW Contact information:

Public Works Main Office

Franklin D. Reeves Center

2000 14th Street, NW, 6th Floor

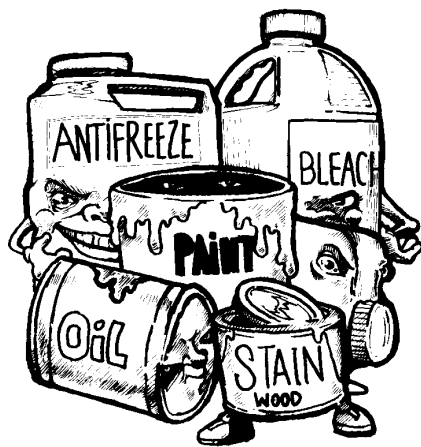
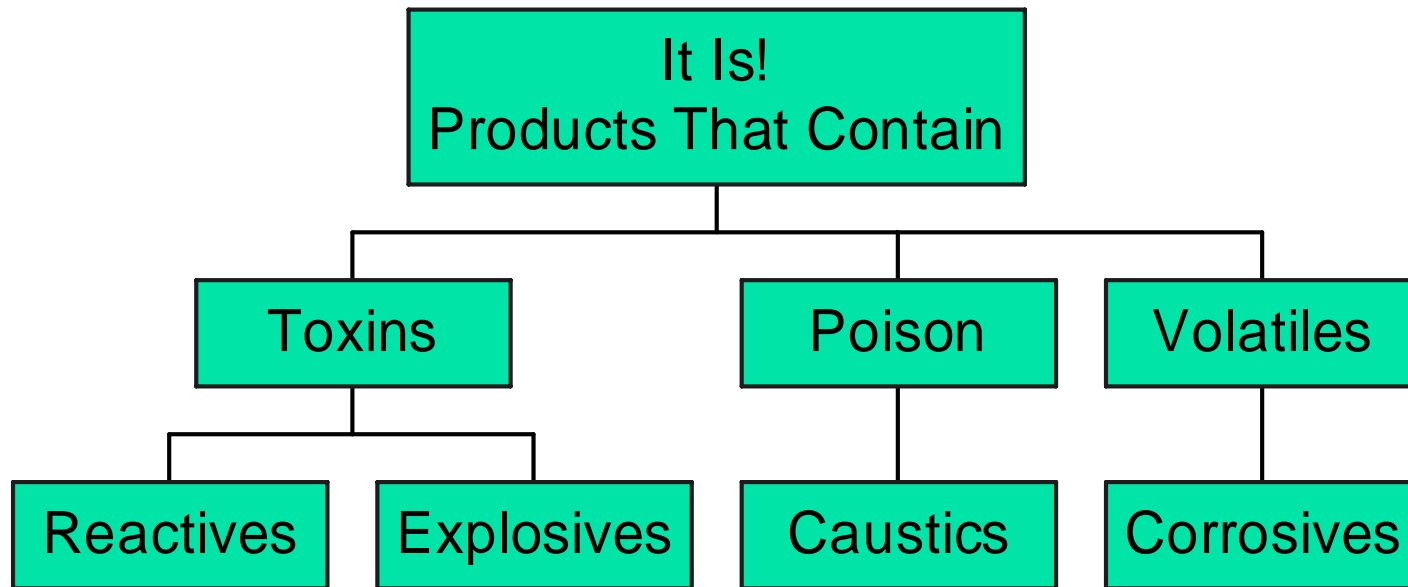
Washington, DC 20009

(202) 727-1000

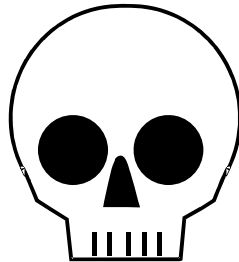
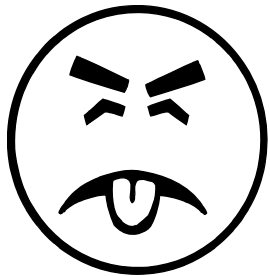
Note: Apartment dwellers, those who live in buildings with businesses, and office buildings need to contract for their own collection of trash and recycled materials.



What is it?



What is it?



- There are almost 27,000 different hazardous materials in consumer products sold in the United States.
- These products are chemical products found in resident's homes that can be used for a variety of tasks.

Electronic Materials

- Concern with lead, mercury, chromium, cadmium, arsenic; (Known as PBTs).
- In 315 million computers: 1.2 billion pounds of lead; 400,000 pounds of mercury and 1.2 million pounds of chromium.



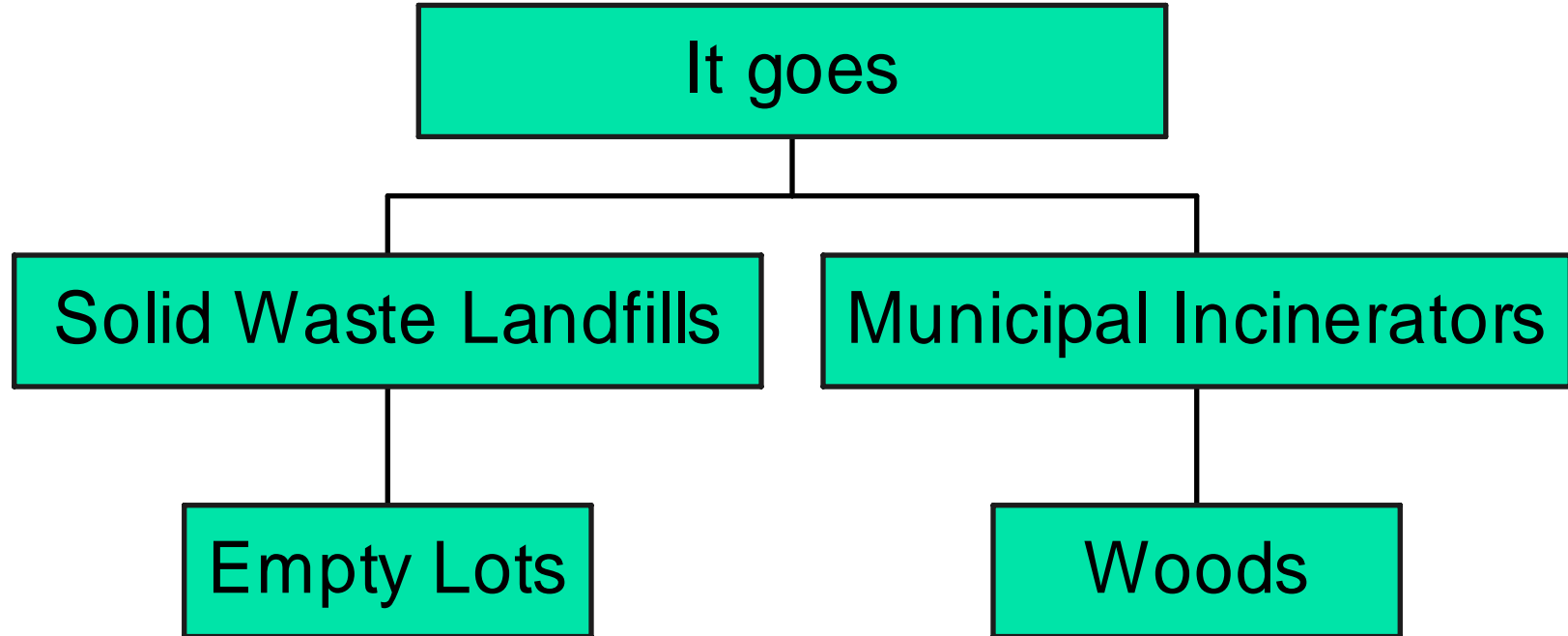
Where can I find Hazardous Household Materials in my home?

- You may find household hazardous materials in just about any room of your home. Places where these materials are commonly found include:

- ✓ Bathroom
- ✓ Garden
- ✓ Car
- ✓ Garage
- ✓ Bedroom
- ✓ Basement
- ✓ Kitchen
- ✓ Workshop
- ✓ Study



Where HHP Go without a program?



How should Household Hazardous Materials be Handled?

- **Dispose of Household Hazardous Materials properly!**
 - ✓ Some of these chemicals are hazardous and should NEVER be poured down sinks or in catch basins.

- **The District has scheduled Household Hazardous Waste Collections, twice per year. Some typical household hazardous wastes are:**
 - ✓ Nail polish remover, bug spray, bleach, old medicine
 - ✓ Batteries, lighter fluid, shoe polish, house cleansers, moth balls
 - ✓ Varnish, glue, turpentine, paint, pesticides, pool chemicals
 - ✓ Motor oil, gasoline, antifreeze, car wax, windshield wiper fluid

- **Call the Citywide Call Center for more information (202) 727-1000.**





Recycling

- D.C. promotes recycling
- Free recycling bins may be obtained from the District by calling the Citywide Call Center at (202) 727-1000.
- D.C. collects newspaper, corrugated cardboard, computer and office paper, metal food and beverage cans, plastic bottles and jugs, glass jars and bottles.
- DC recycling website:
<http://www.recycle.dpw.dc.gov/recycle/site/default.asp>

What about Yard Waste?

- Do not rake leaves into the gutter
 - ✓ Yard waste can obstruct the flow and clog catch basins, causing flooding
- The District has a schedule for yard waste collection. Call the Citywide Call Center (202) 727-1000 to find out or visit <http://www.dpw.dc.gov/dpw/site/default.asp>

What can Businesses do to Help?

- **Restaurants**

- ✓ Install and maintain grease traps or interceptors

- **Automobile shops**

- ✓ Dispose of fluids responsibly

- **All businesses**

- ✓ Dispose of trash in receptacles that prevent littering from people, birds and animals and wind

What other Public Services are Offered?

- Alleys receive scheduled cleaning. Help the effort by picking up loose trash, controlling weeds and keep trees from overhanging alley.
- Collection of Bulk Goods: The District will help you with disposal of large household items. DO NOT place these items in the street gutter
- Call the Citywide Call Center for more information and scheduling (202) 727-2000.

Where can I get more Information?

- **WASA – water and sewer questions**
 - ✓ General WASA Info: 202-787-2000
 - ✓ Customer Service: 202-612-3400
 - ✓ Questions about CSOs: Mohsin Siddique, 202-787-2634 or mohsin_siddique@dcwasa.com
 - ✓ Web site: www.dcwasa.com

- **D.C. Government – trash and household hazardous waste questions**
 - ✓ Citywide Call Center at (202) 727-1000.
 - ✓ Web site: http://dc.gov/mayor/customer_service/core_services.shtm



Questions and Answers

