Stormwater Pollution Prevention for Automotive Repair Shops

September 13, 2016

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AGENDA

1. Overview
2. Stormwater Regulations
3. Best Management Practices
   - Stormwater Pollution Prevention Plans

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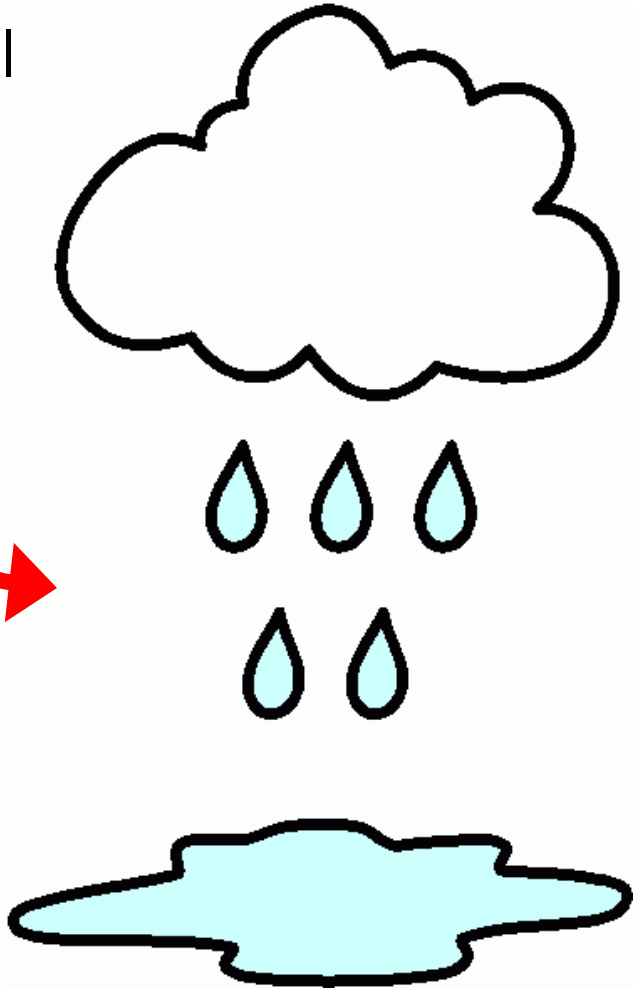
1. Overview

Rainwater vs. Stormwater

Rain, snow, & hail that fall to the ground



Runoff from rain & snowmelt that doesn't soak into the ground

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District Storm Drains

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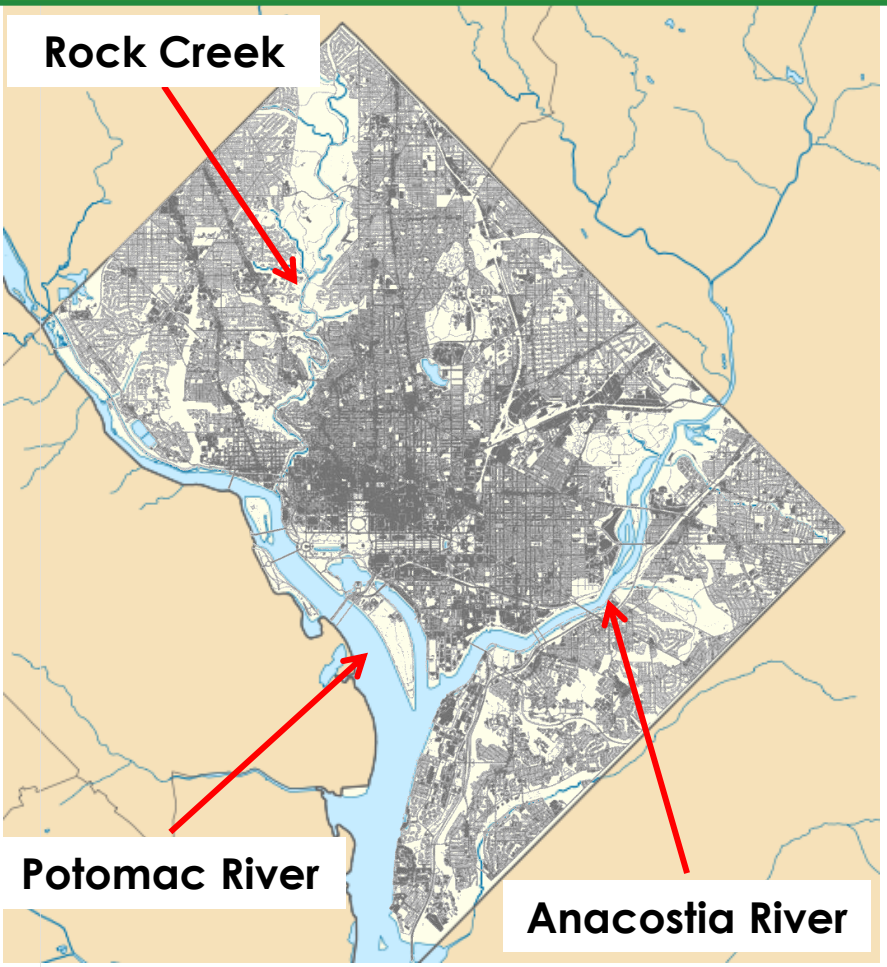
Stormwater in the District



43% of the District's land area is impervious.

Impervious = "Hard"

Water runs off instead of soaking in

2/3 flows directly into local waterways…

… with little to no treatment

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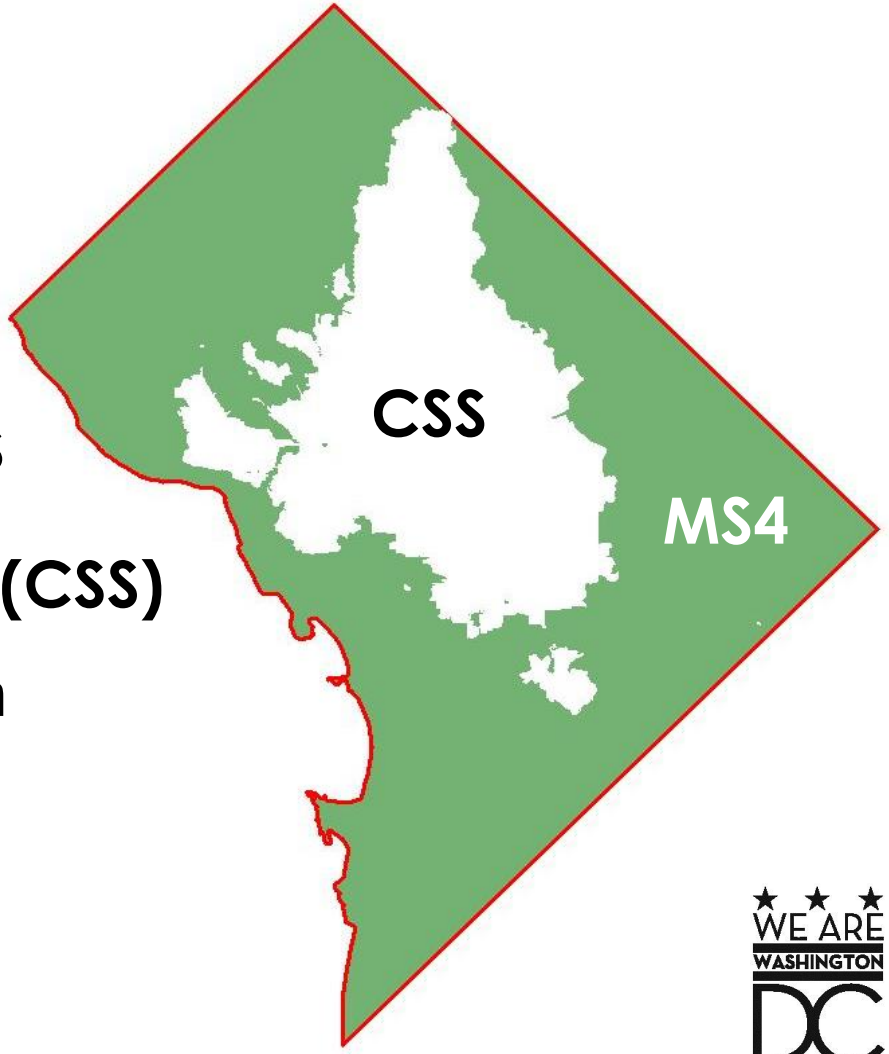
Stormwater in the District

2 Types of Sewer Systems

1. Combined Sewer System (CSS)
2. Municipal Separate Storm Sewer System (MS4)



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Find where your business is located: http://geospatial.dcgis.dc.gov/WatershedFinder

Common Pollutants

What is stormwater pollution?

Anything other than stormwater that runs off your facility.

- Petroleum & oil
- Vehicle & equipment fluids
- Trash
- Paints & solvents
- Wash water
- Dirt
- Rust
- Salt & brine
- Pesticides & fertilizers
- Pet waste

Litter and motor oil clog this stormwater device, which is overdue for maintenance.

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Stormwater & Auto Repair Shops

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

Automotive fluids & parts contain materials that could harm our health & our waterways

Stormwater picks up pollutants

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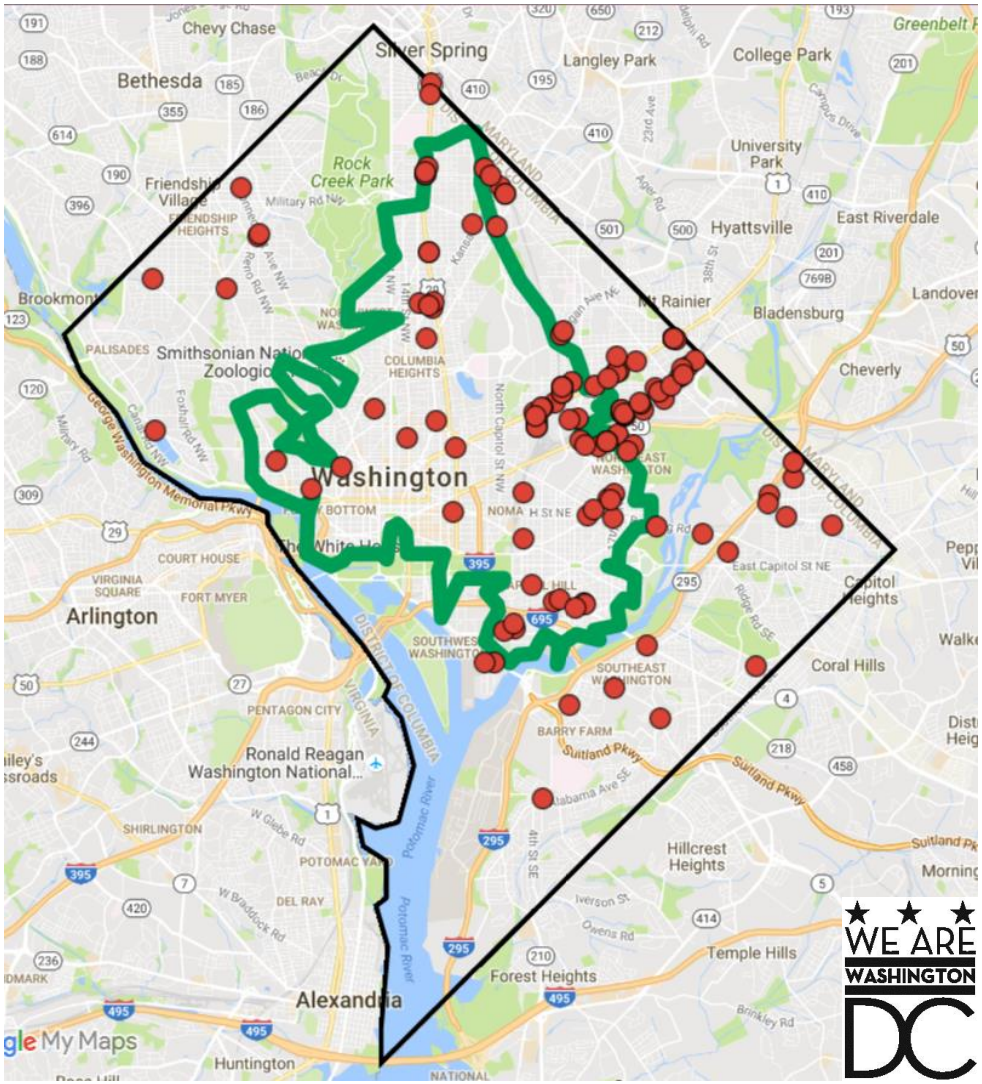

A Drop a Day Adds Up

2014

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

2015

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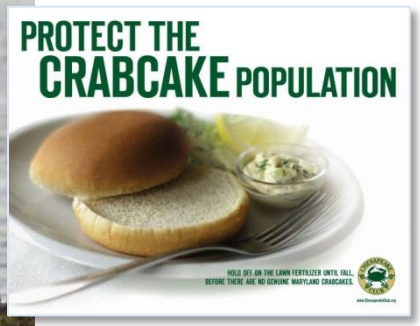
Impacts

Rebecca Harlan



Chesapeake Club

SKIP BROWN/National Geographic Creative

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Mayor's Task Force Report on the Prevention of Flooding in Bloomingdale and LeDroit Park

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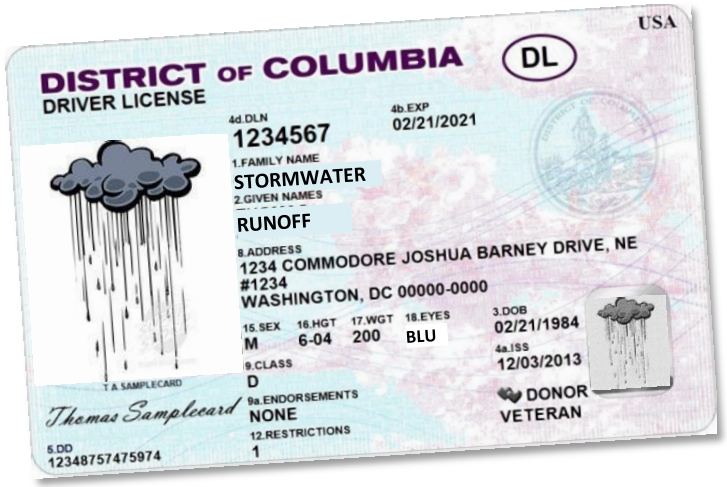
Stormwater Regulations

Clean Water Act - 1972

Permits for:

- **Municipalities** MS4 Permit
- **Facility Operators**
  - Industrial: Multi-Sector General Permit (MSGP)

Drivers License for Stormwater



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Standard Industrial Codes

Division I – Services ***No Permit Needed***

Industry Group 753 – Automotive Repair Shops

Division E – Transportation Services ***Permit Needed***

Industry Group 417 – Service Facilities for Motor Vehicles

Service buses, fleet vehicles, & other forms of passenger transportation

- ***MS4:*** *EPA – Multi-Sector General Permit*
- ***CSS:*** *DC Water – Industrial User Wastewater Discharge Permit*

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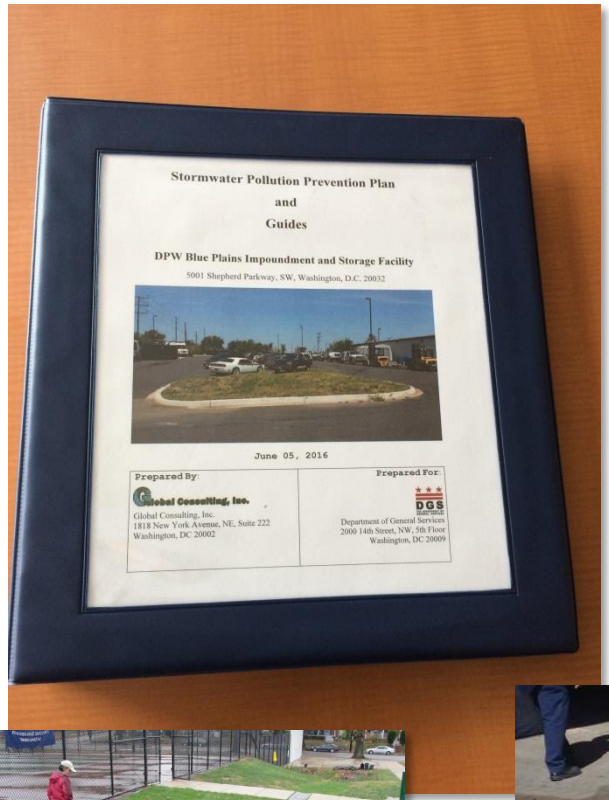
MSGP: https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#msgp

DC Water Permit: https://www.dcwater.com/business/permits/discharges.cfm

3. Best Management Practices



Stormwater Pollution Prevention Plans (SWPPPs)

Everyone should have one.

What are SWPPPs? Your facility's game plan for clean water – how it is taking action to prevent pollution.

3 Primary Objectives:

1. Assure compliance
2. Identify potential sources of pollution
3. Describe & have commitments for how the facility will prevent stormwater pollution

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Identify Potential Sources of Pollution

Conduct a site assessment.

Common sources include:

1. Loading & unloading areas
2. Outdoor storage – materials & waste
3. Outdoor maintenance areas
4. Non-stormwater discharges
5. Vehicle storage areas
6. Areas of exposed dirt

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Structural BMPs

REGULARLY INSPECT & MAINTAIN

USDA

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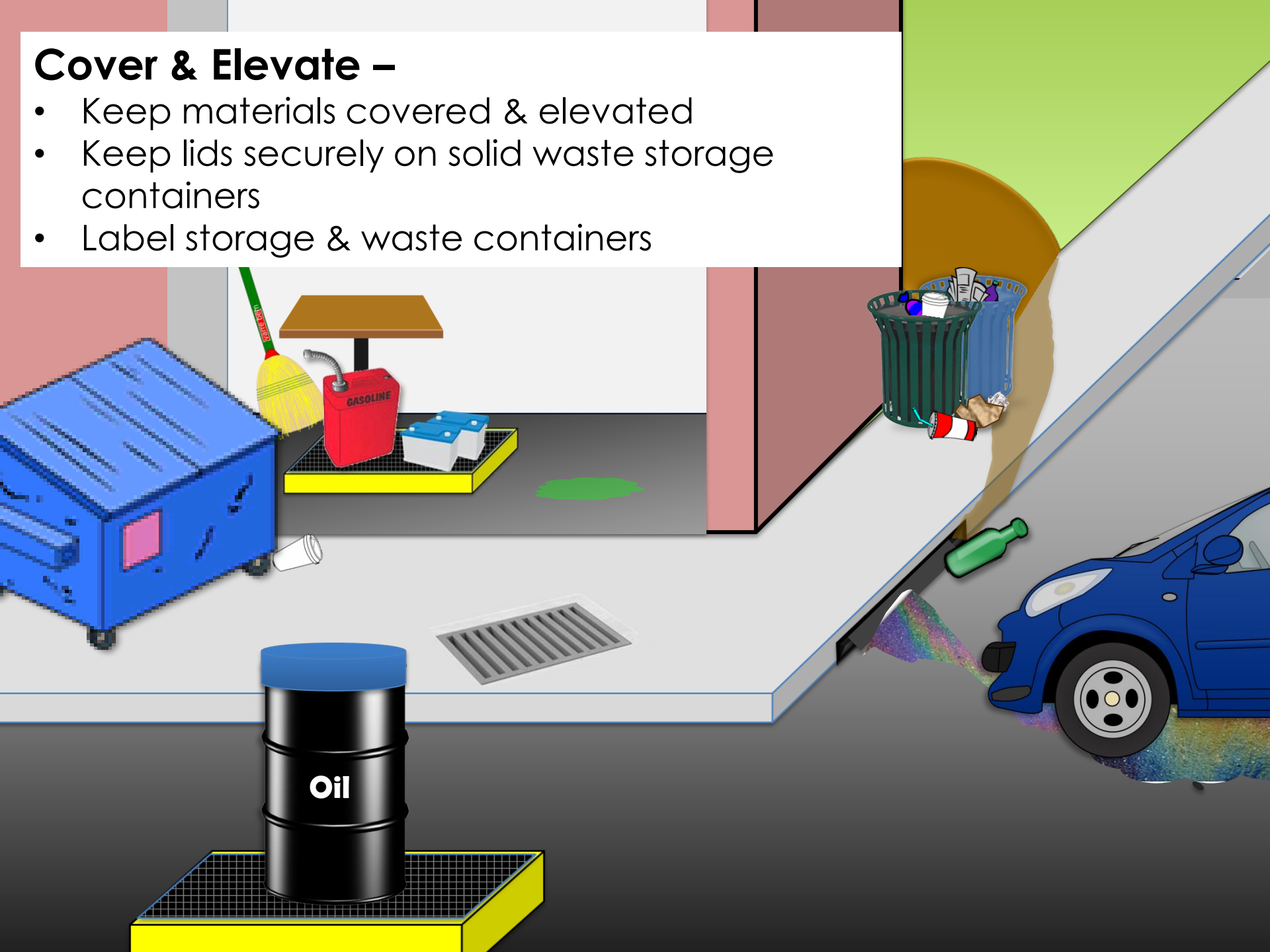
Bad Housekeeping Practices

Nothing but water –

- Don't dump pollutants down the drain
- Never hose down your work area
- Wash cars at a car wash

Cover & Elevate –

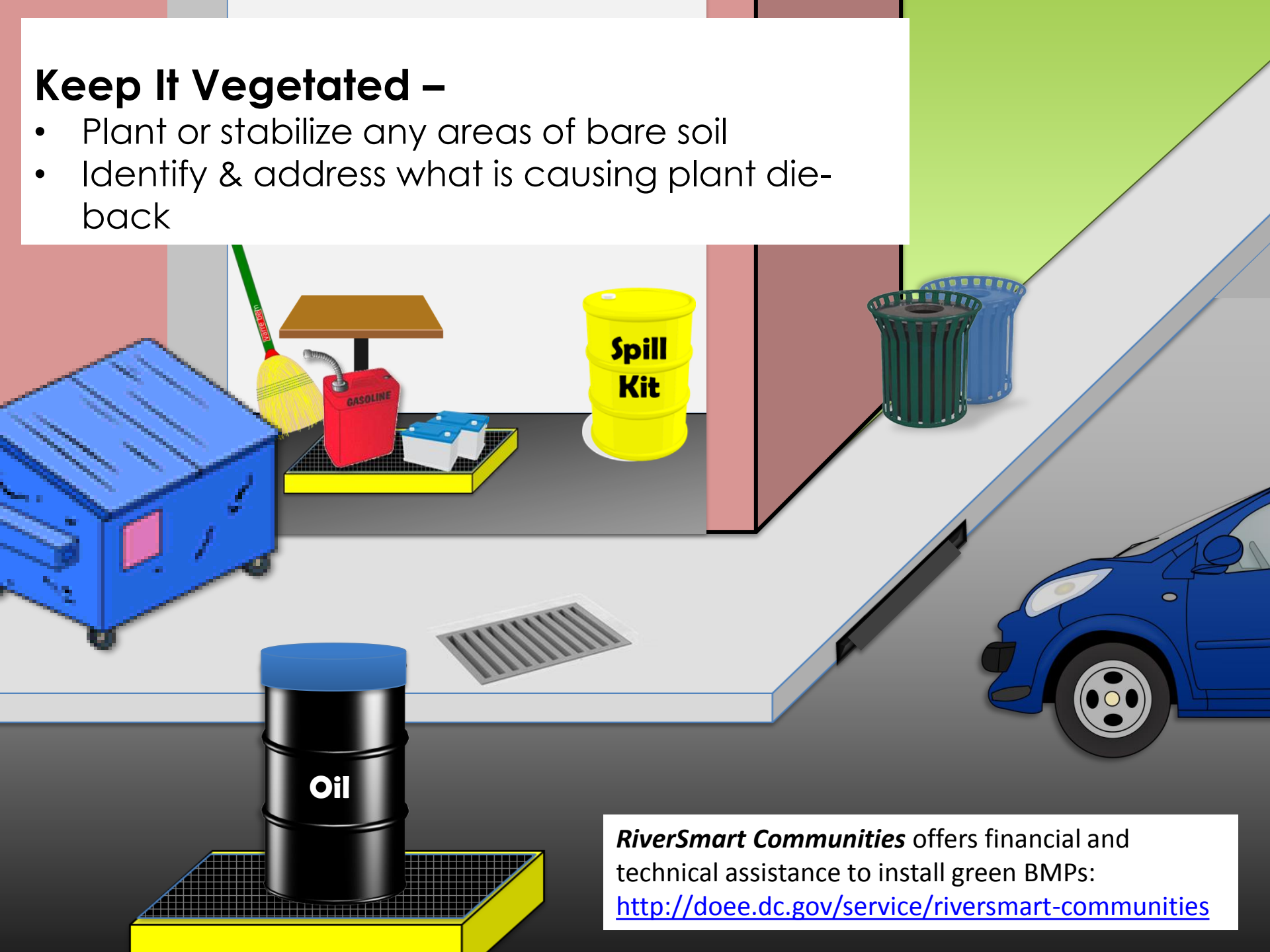
- Keep materials covered & elevated
- Keep lids securely on solid waste storage containers
- Label storage & waste containers



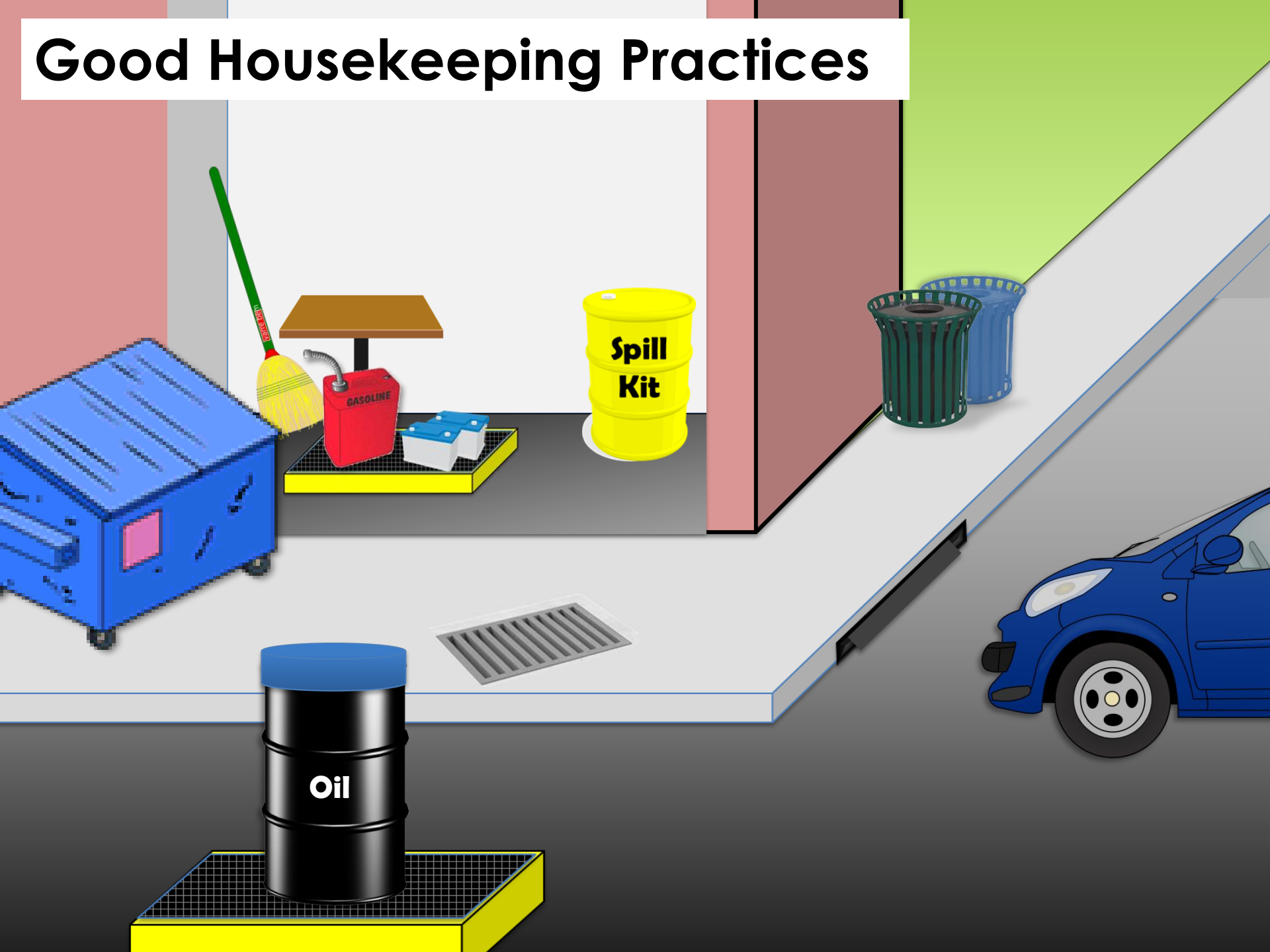
Keep It Clean –

- Clean up spills, leaks, & drips immediately
- Place drip pans under leaky vehicles
- Pick up litter
- Report overflowing litter cans to 311

Use the Dry Cleanup Method


Keep It Vegetated –
• Plant or stabilize any areas of bare soil
• Identify & address what is causing plant die-back
Spill Kit
GASOLINE
Oil
RiverSmart Communities offers financial and technical assistance to install green BMPs:
http://doee.dc.gov/service/riversmart-communities

Good Housekeeping Practices



Dry Cleanup Method

Clean up spills, leaks, and drips by:

1) Prevent it from getting to the drain
   - *Berms to contain*
   - *Plastic sheeting to cover drains*
2) Cover with absorbents & scrub
   - Absorbent pads and/or loose absorbents
3) Pick/sweep up absorbents & dispose of properly

NEVER USE WATER

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Spill Contacts

- **Call 911** – *discharge other than stormwater gets into a storm drain or spill cannot be controlled*
- **Leaking sewer lines or water mains**
  - DC Water – (202) 612-3400
- **Illegal dumping of solid waste**
  - *Citywide Call Center – 311 or* ***311.dc.gov***

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Other BMPs

- **Stormwater team** – *implements SWPPP*
- **Regular facility inspections**
- **Annual staff training**

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Use stormwater-safe ice removal practices: http://doee.dc.gov/service/ice-removal-best-practices

Review

Automotive Repair Shops can create stormwater pollution. Stormwater Plans (SWPPPs) help you

1. Assure Compliance
2. Identify Potential Sources of Pollution
3. Describe & Commit to Prevent Pollution by
   a) Maintain your structural BMPs
   b) Nothing but Water
   c) Cover & Elevate
   d) Keep it Clean
   e) Keep it Vegetated

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RiverCents Pollution Prevention Program

Guidance on land, air, & water pollution prevention

Program Elements:

- On-site technical visits by a 3rd party
  - English, Spanish, & Amharic
- Certification program
- Quarterly newsletters with case studies
- Additional workshops

EPA Pollution Prevention Grant

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Pilot in 2017 & Launch in 2018

Looking for volunteers

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Questions?

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