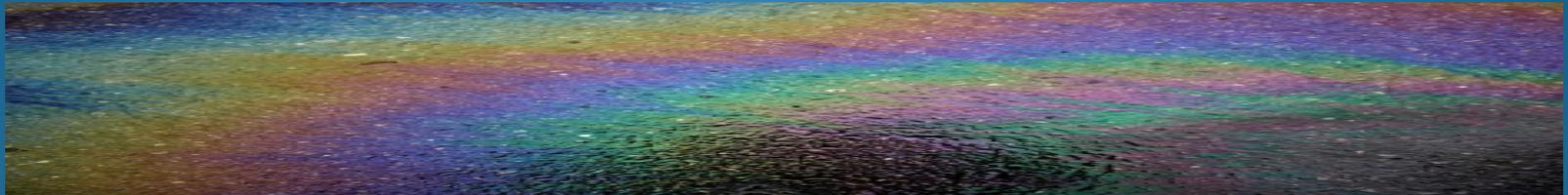


Oil Spoils Our Water & Soil!

2013 Campaign

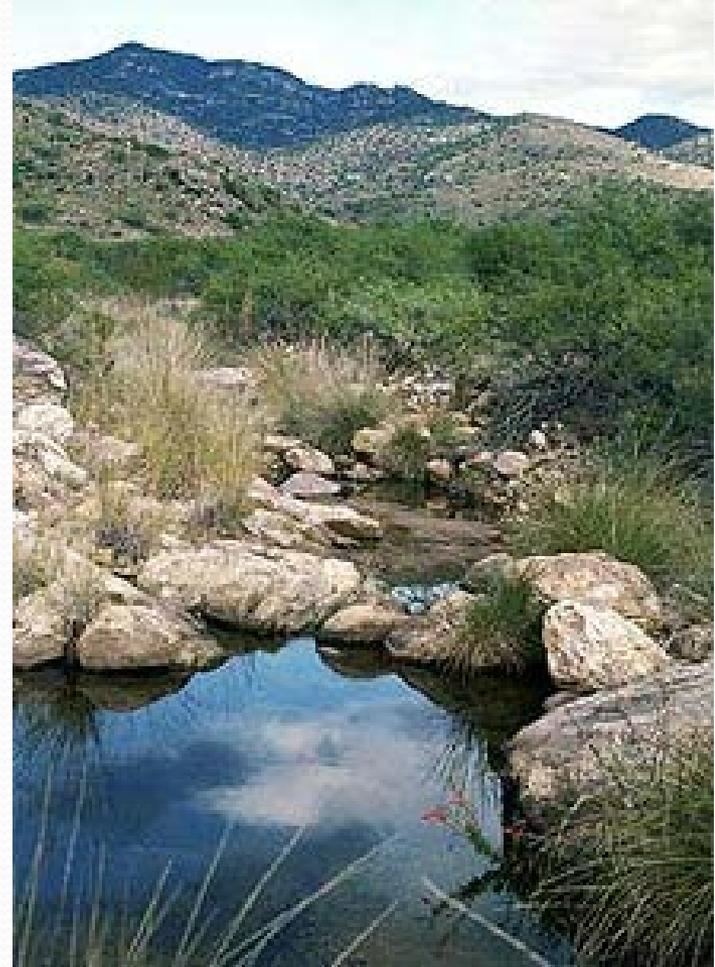


Skye Siegel, Community Outreach Coordinator
Pima County Department of Environmental Quality

Overview

Oil Spoils Our Water & Soil

- PDEQ
- AZPDES Permits
- Transportation Theme
- What we can do!
- Results of Phone Survey





PDEQ Mission

**Identify & respond to environmental issues
by providing public service including ...**

- Air, water & soil monitoring
- Permitting
- Compliance inspections
- Enforcement
- Education & outreach

Stormwater

Rain that reaches the ground and flows



Sheet runoff



Surface flows in streams

Stormwater management: Maintain the integrity of surface water in our washes

- Flood control
- Pollution prevention



We need clean water

1. Essentials

- life support (hydration) ½ gal/day (2 liters/day)
- hygiene 8 gal/day (35 l/d)
- food 1,700 gal/day (7,742 l/d)
 - Vegetables, fruit,
 - Fish, Poultry, Meat

2. Important for aesthetics & recreation

Protecting the Nation's Waters

Constitution of United States

Clean Water Act (Pollution Prevention)

National
Pollutant Discharge Elimination System

Arizona
Pollutant Discharge Elimination System





Stormwater Pollution

Occurs when runoff carries pollutants into our desert washes:

- Oil & Grease
 - Pet waste
 - Gasoline
 - Trash
- Paints & Other liquids

Case Study: Cuyahoga River

1969 fire



2011 after remediation



Case Study

July 2003 Kinder Morgan Gasoline Pipeline Spill

- 64,000+ gallons gasoline
 - 5 homes destroyed
 - Soil contamination
 - Groundwater contaminated
- Cleanup included
 - Soil Vapor Extraction
 - Pumping groundwater to remove fuel

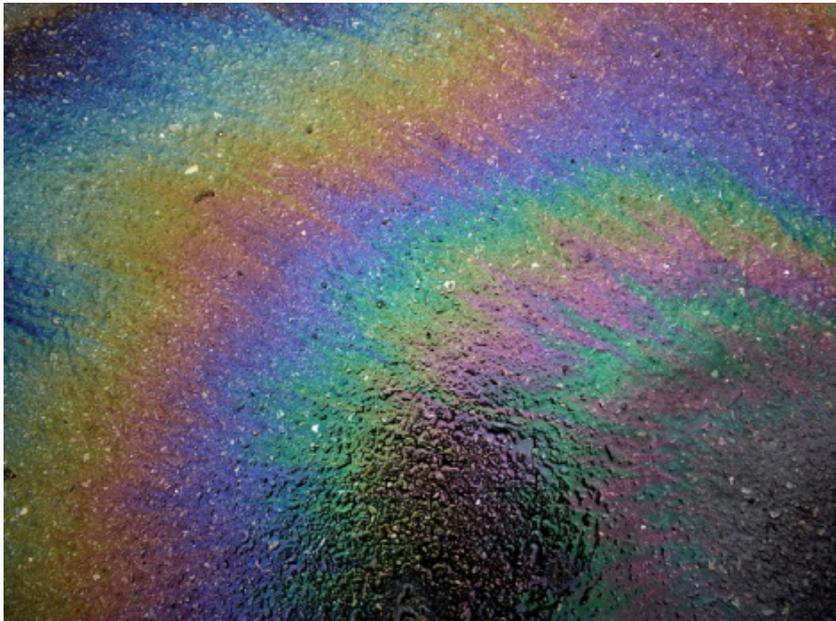




What does all this have to do with each one of us?

- We know why stormwater is important
- We know laws protect our water.
- What can we do?

Oil evidence



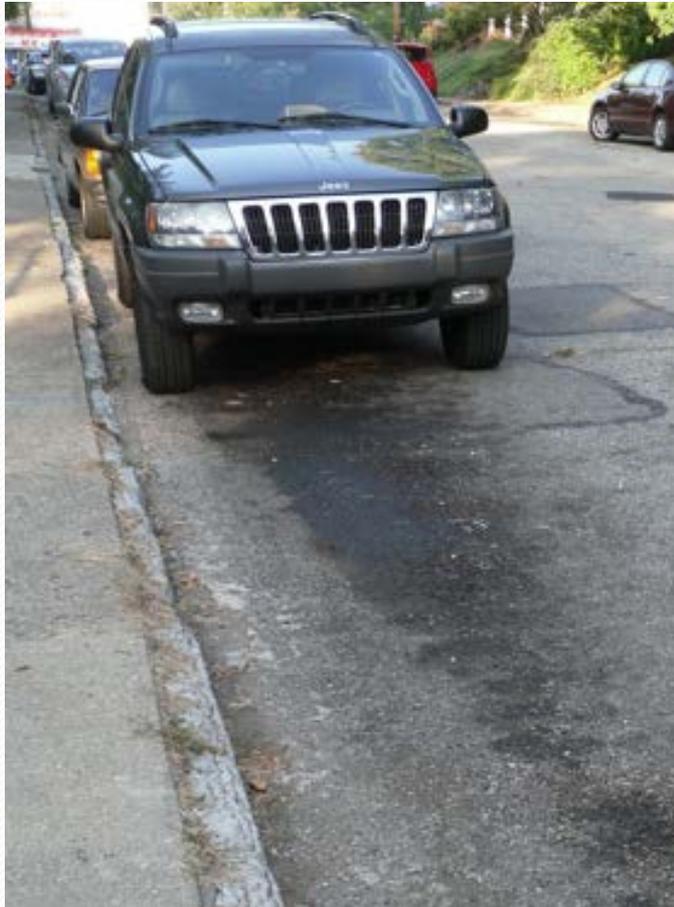
- Look for the “rainbow” to identify water that contains petroleum products.

Prevent Oil Spills



- Avoid dumping oil in a drain as this is illegal because it flows into drainageways which become polluted.
- Properly dispose of used oil.
- Drive safely to prevent spills from accidents!

Roadways & parking lots collect pollutants



- Fixing car leaks protects our water quality.
- Potential pollutants transported during rainstorms:
 - Oil
 - Grease
 - Petroleum hydrocarbons
 - Anti-freeze



Flood events

- Runoff flows into our desert washes which makes our water quality vulnerable to toxins from vehicles, such as oil, grease and hydrocarbons.

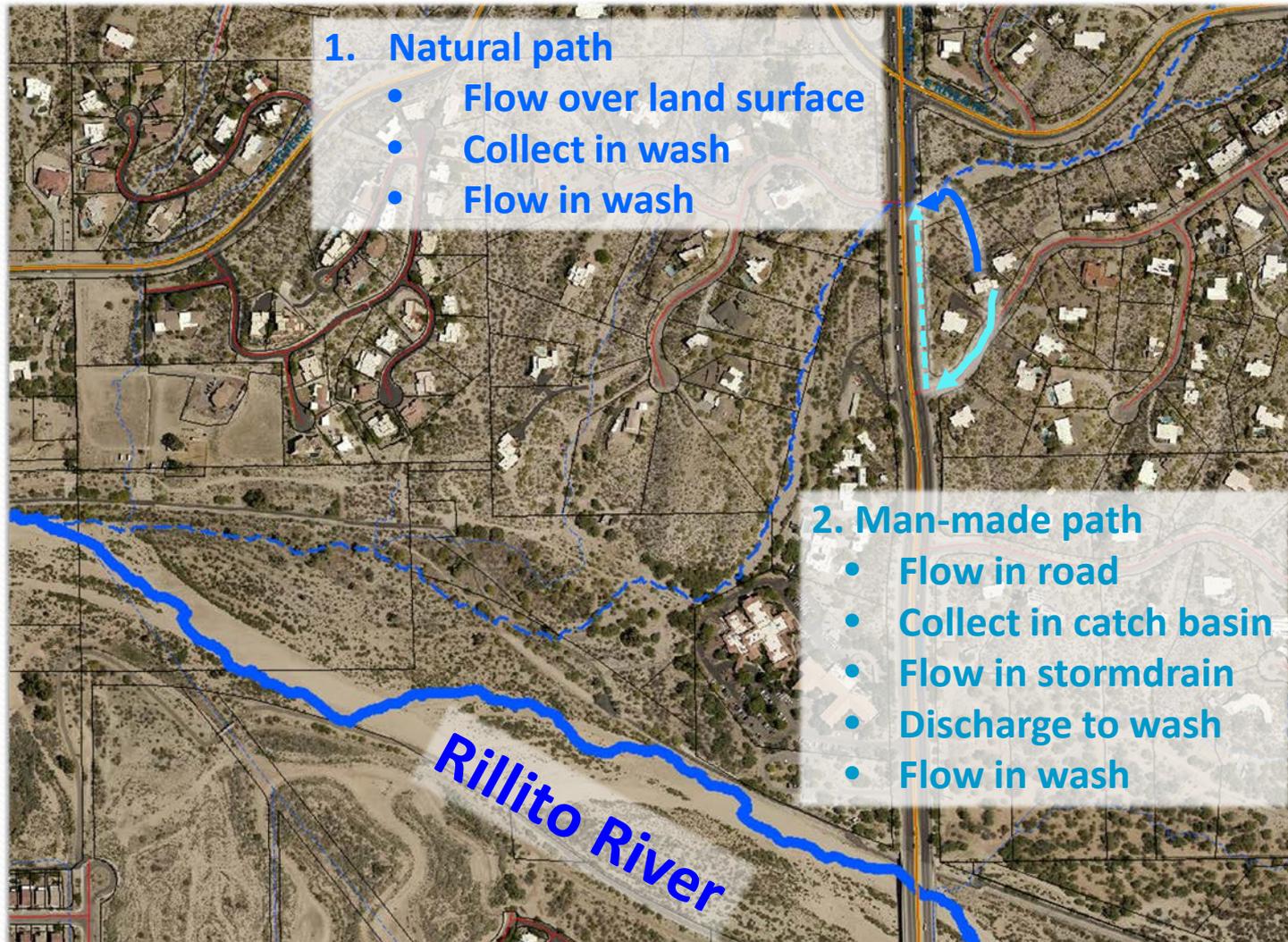




Actions You Can Take!

Effective ways to prevent stormwater pollution

Know where your stormwater goes



Good Housekeeping



Dispose of oil appropriately

- Recycle oil with your mechanic or automotive shops
- Recycle at ABOP (Anti-freeze, Batteries, Oil, & Paint) Sites
 - Sahuarita Landfill: 16605 S. La Cañada Dr
 - Tangerine Road Landfill: 10220 W. Tangerine Rd
 - Catalina Transfer Station: 14425 N. Oracle Rd
 - Ryan Field Transfer Station: 6455 S. Continental Rd
- Recycle at Household Hazardous Waste
 - Los Reales Landfill 5300 E. Los Reales
 - HHW headquarters 2440 W. Sweetwater Drive Rd

www.tucsonaz.gov/hhw



Maintain Your Vehicle



Make car maintenance a family project



Use the car wash



Do it yourself clean-up

- If a spill occurs, use a material to contain & absorb the oil like kitty litter or sand.
- Toss in garbage can

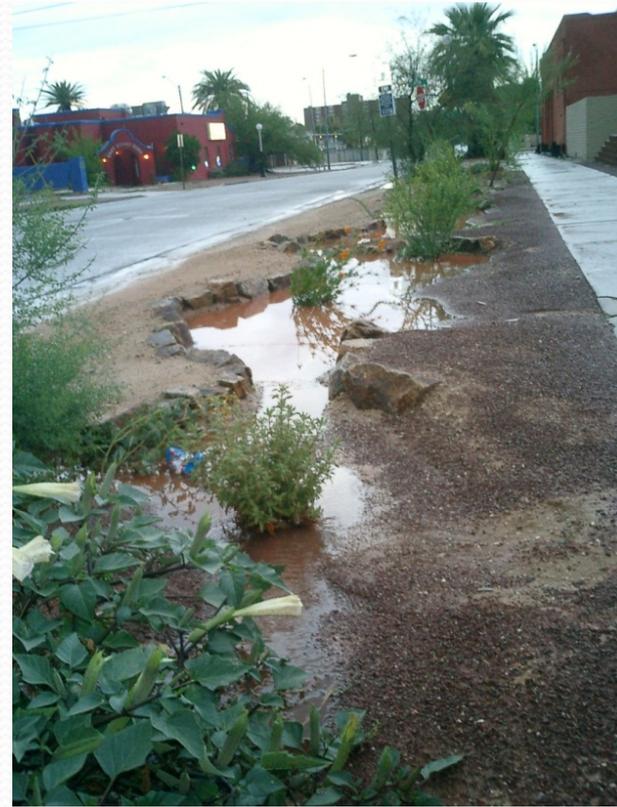


Properly contain oil & grease

- Residential area cleanup in Mayflower, Arkansas
- Call the Complaint Line
520-724-7400
if you witness a spill.



Neighborhood-scale detention basins



Kids in action!



42-19243617 [RF] © www.visualphotos.com



Protect our Stormwater Quality

Key ways

- Fix your leaky car
 - Scoop the poop
- Slow it down, soak it in
 - Harvest rainwater
 - Reduce, reuse, recycle
- Dispose of hazy waste properly
- Apply pesticides, herbicides, & fertilizers after rainfall
 - Don't be a litterbug!

Protecting Our Water



Wildcat Dumping Hotline 622-5800
Complaint Line 724-7400

