### What is Storm Water?

Storm water is water from precipitation that flows across the ground and pavement when it rains or when snow and ice melt. The water seeps into the ground or drains into what we call storm sewers. These are the drains you see at street corners or at low points on the sides of streets. Collectively, the draining water is called storm water runoff.

## Why is Storm Water "Good Rain Gone Wrong?"

Storm water becomes a problem when it picks up debris, chemicals, dirt, and other pollutants as it flows or when it causes flooding and erosion of stream banks. Storm water travels through a system of pipes and roadside ditches that make up storm sewer systems. It eventually flows directly to a lake, river, stream, wetland, or coastal water. All of the pollutants storm water carries along the way empty into our waters, too, because storm water does not get treated!



Pet wastes left on the ground get carried away by storm water, contributing harmful bacteria, parasites and iruses to our water.



Vehicles drip fluids (oil, grease, gasoline, antifreeze, brake fluids, etc.) onto baved areas where storm water runoff carries them through our storm drains and into our water.



Chemicals used to grow and maintain beautiful lawns and gardens, if not used properly, can run off into the storm drains when it rains or when we water our lawns and gardens.

Waste from chemicals and materials used in construction can wash into the storm sewer system when it rains. Soil that erodes from construction sites causes environmental degradation, including harming fish and shellfish populations that are important for recreation and our economy.



## Where To Go To Continue the Information flow

Your community is preventing storm water pollution through a storm water management program. This program addresses storm water pollution from construction, new development, illegal dumping to the storm sewer system, and pollution prevention and good housekeeping practices in municipal operations. It will also continue to educate the community and get everyone involved in making sure the only thing that storm water contributes to our water is ... water! Contact your community's storm water management program coordinator or the Pennsylvania Department of Environmental Protection for more information about storm water management.



#### Pennsylvania Department of Environmental Protection www.dep.state.pa.us

prevent it from being used as a trash can.

to streams, rivers, and lakes without being treated first. It is important to recognize this as a storm drain to may look like. Like the storm drain inlet shown in picture #3, anything that enters this drain will go directly 8. Scorm Drain Inlet - Part of the storm sewer system. This is another example of what a storm drain

wastes) that storm water eventually washes into the storm sewer system. aufaces such as parking lots and sidewalks can accumulate polititants (e.g., oil, grease, dirt, leaves, trash, pet 7. Roads and Other Paved Areas - Not part of the storm sewer system. Roads and other handened

system, as well as directly to lakes, rivers, and streams.

wastes on-size improperly maintained septic systems can leak and contribute pollutants to the storm sewer 6. Septic System - Not part of the storm sewer system. Homeowners use septic tanks to manage sanitary

ursk prake is combined sewer system designed to carry both storm water and sanitary waste. travel through a sewer system constructed to carry sanitary wastes. In some instances, older communities 5. Toilet - Not part of the storm sewer system Wastewater from sinks and toilets in houses and businesses

raining there could be a problem with the system or someone has used a storm drain for illegally disposing the storm sewer system into a receiving lake, stream, or river if there is a flow from an outfall when it isn't 4. SCORTA Sewer Quetail - Part of the storm sewer system An outtail is where storm water drains from

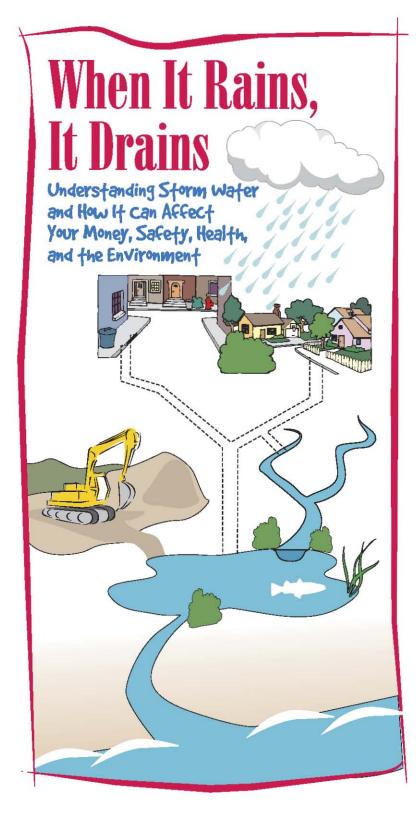
is an opening leading to the storm sewer system Anything going into this injet (e.g., trash, leaves, improperly disposed of hazardous materials) travel directly to a receiving lake, river, or stream without being treated first. Many communities stencil storm drains with "Do Not Dump" messages to let people know. 3. Curb with Storm Drain Inlet - Part of the storm sewer system. Many people do not realize that this

water, but is allowed by law to enter the storm sewer system.

A. Fire Hydrant - Not part of the storm sewer system Water sprayed from fire hydrants is not storm

pipes, it can also include disches used to convey storm water from the land to a receiving lake, river, or I. Ditch - Part of the storm sewer system. Most people think that the system is just a series of underground

Answers to lest Your Storm Sewer System Savvy:



# what Happens when If Rains?



Rain is an important part of neture's water cycle, but there are times it can do more durage then good. Problems related to storm water runoff can include:



Flooding council by two much storm yerror flooting over hardened surfaces such as result and partiting lots, testinal of seating lots the graces.

Increase in spending on materialising classes dealer and the stores seem system that became alogged with memorial presents of the and delete.





Decreases in specifical populations increases store sealer carrier rediment and pollutares that degrado important fish behitet.

More expensive transvertocknologies to remove heredal policianes corried by storce water into our detailing water supplies.





Cleard bouches due to high jornic of increrie carried by starce numer that make princetag energie.

We can help rain restors its good reputation while protecting our health and environment while saving money for ourselves and our community. Keep reading to find out how...

# Test Your Storm Sewer System Savvy

What does the storm sewer system look like in your community? See if you can identify which pictures are part of the storm sewer system.

(Answers are on the back.)











# Restoring Rain's Reputation: what Everyone can Do To Help

Rain by nature is important for replenishing drinking water supplies, recreation, and healthy wildlife habitats. It only becomes a problem when pollutants from our activities like car maintenance, lawn care, and dog walking are left on the ground for rain to wash away. Here are some of the most important wasse to prevent storm water pollution:

- Properly dispose of insurdous substances such as used oil, cleaning supplies and paint—never pour them down any part of the storm sewer system and report anyone who does.
- Use particides, fartilizers, and harbicides properly and afficiently to prevent excess runoff.
- Look for signs of soil and other pollutants, such as debris and chemicals, leaving construction sites in storm water runoff or tracked into roads by construction vehicles. Report poorly managed construction sites that could impact storm water runoff to your community. (See the back of this brochure for contact information.)
- Install innovative etorm water practices on residential property, such as rain barrels or rain gardens, that capture storm water and least it on site instead of letting it drain every into the storm sewer system.
- Raport any discharges from storm water outfalls during times of dry weather—a sign that there could be a problem with the storm sever system.
- Pick up after pets and dispose of their waste property. No matter where pets make a mess—in a bedgard or at the parle—storm water runoff can carry pet waste from the land to the storm sewer system to a streem.
- Store materials that could poliute storm water indoors and use containers for outdoor storage that do not rust or leak to eliminate exposure of materials to storm water.