Stormwater Facts

What it is ....

Stormwater is water from precipitation that flows across the ground and pavement due to rain or snowmelt (or also called stormwater runoff). The water may seep into the ground, flow in ditches or streams, or enter the storm drain system. The storm drains are what you see at street corners or at low points on the sides of your streets. The storm drains then lead to a discharge point such an open channel or directly into one of the many natural creeks within the City of Knoxville.

The natural creeks have a small amount of baseflow that is caused by groundwater recharge and high water tables; the baseflow is relatively clean. When it rains, the baseflow is supplemented by stormwater runoff from parking lots and city streets. The baseflow is relatively clean groundwater that flows at a low velocity. Stormwater runoff tends to pick up garbage, debris, sediment, chemicals, automotive fluids and other pollutants; stormwater runoff is relatively dirty and will harm the fish and other wildlife living in the natural creeks.

Why it is important ....

Stormwater runoff is a major problem when it picks up garbage, debris, sediment, chemicals, automotive fluids, fertilizers, leaves and other pollutants from parking lots, yards, city streets, shopping malls, house roofs, etc. This type of pollution is called nonpoint source (NPS) pollution and is more of a problem than direct discharges from commercial industries and plants, which have NPDES (National Pollution Discharge Elimination System) permits as mandated by the U.S. Environmental Protection Agency. The City of Knoxville is required by the state government to have a municipal NPDES permit for all waters that discharge from the city storm drain system and the natural creeks. The municipal NPDES permit requires that the city provide information and education programs, monitoring stations, stormwater inspectors, stormwater manuals, etc. The result of unclean stormwater runoff discharges is the loss of fish and aquatic wildlife from the city creeks, signs that say no fishing or no swimming.

Help protect your water!

If you see illegal dumping into storm drains or into creeks, call immediately!

CALL 311 TO REPORT WATER POLLUTION

To enforce Knoxville’s stormwater quality regulations, the City may fine those who violate the laws up to $5000 for each day that a violation occurs or until the violation is corrected.

City of Knoxville
Department of Engineering
Stormwater Division
How to Protect Stormwater Quality ....

The best way to protect stormwater runoff quality is to avoid polluting in the first place. Conserve and recycle resources such as newspapers, plastic containers, glass jars, and metal cans at either the City recycling center or local grocery stores.

- Don’t dump hazardous substances such as used oil, household chemicals, yard fertilizer, or other wastes onto pavement or into storm drains.
- Practice street sweeping, picking up litter, and disposing of leaves and yard waste.
- Prevent excess runoff of pesticides, fertilizers, and herbicides by using them properly and efficiently. Do not apply when you know it is going to rain.
- Participate in local garbage and debris pickup days, and recycle household hazardous waste materials to prevent storm drain contamination.
- Encourage active citizen participation in stormwater protection and public group education on stormwater quality.
- Wash your car in the grass or prevent soapy wash water from flowing into the street and storm drains.
- Pick up after your dog and dispose of waste appropriately!
- Don’t blow grass clippings into the street and storm drains or dump yard waste in ditches.
- Don’t litter and keep trash receptacles covered.

Common household contributions to stormwater pollution:

- Vehicle drips and leaks (oil, grease, gasoline, antifreeze, brake fluid, wash water) particularly on paved areas.
- Yard and grass clippings result in excess nutrients in our streams when washed into them by stormwater.
- Overuse of lawn fertilizers, herbicides and pesticides.
- Pet wastes and food wastes – particularly on paved areas – allows harmful bacteria and viruses into natural creeks.
- Incorrect disposal of paints, solvents, cleaning fluids and other chemical agents.
- Sediment from lack of vegetation.
- Trash and debris, which can choke, suffocate, or disable aquatic life.

You may dispose of and/or recycle the following substances at the Household Hazardous Waste Collection Center located at 1033 Elm Street. See the City of Knoxville Solid Waste website for additional information.

- Automotive Oil and Fuel (10 gal. max)  - Additives or antifreeze  - Bleach  - Cooking Grease  - Oil Based Paint
- Fluorescent Tubes and Light Bulbs  - Wood Preservatives  - Pesticides  - Household Batteries (not alkaline)
- Used Motor Oil  - Electronics  - Scrap Metal  - Appliances  - Appliances containing coolant (subject to fees)

How can I get involved?

There are many opportunities to become involved with stormwater cleanup efforts. Your organization can participate in a one-time clean-up event, or even Adopt-A-Stream. Educational material is also available upon request. Within the City of Knoxville contact (865) 215-4321 or cogleby@knoxvilletn.gov for more information.