

Stormwater Pollution Prevention Practices for Directional Drilling

City of Durham, North Carolina

Working Together For Clean Water

The City of Durham realizes the importance of clean water and has taken steps to help protect our natural resources. The City's ordinances prohibit anything other than rainwater from getting into a storm drain. This includes runoff containing silt or chemicals from drilling or digging. It also includes fuel and hydraulic fluids that might be spilled or discharged from careless handling or storage.

Your business must properly contain and prevent soil, petroleum products and chemicals from entering storm drains and/or surface water. Fines may be issued for failure to clean up spills, for discharges of sediment and for improper handling of contaminated water.



Proper planning can help you avoid delays, unanticipated costs, and violations. Before you begin, make sure that you know the location of all the drains and surface water near your site. Identify which direction water will flow from your site.

Know what pollutants will be in your wastewater. This will help ensure that your job goes smoothly by having all necessary equipment. Employees should be properly trained. Be sure to plan for the disposal of your wastewater—especially if it is hazardous.

Sediment Control Guidelines

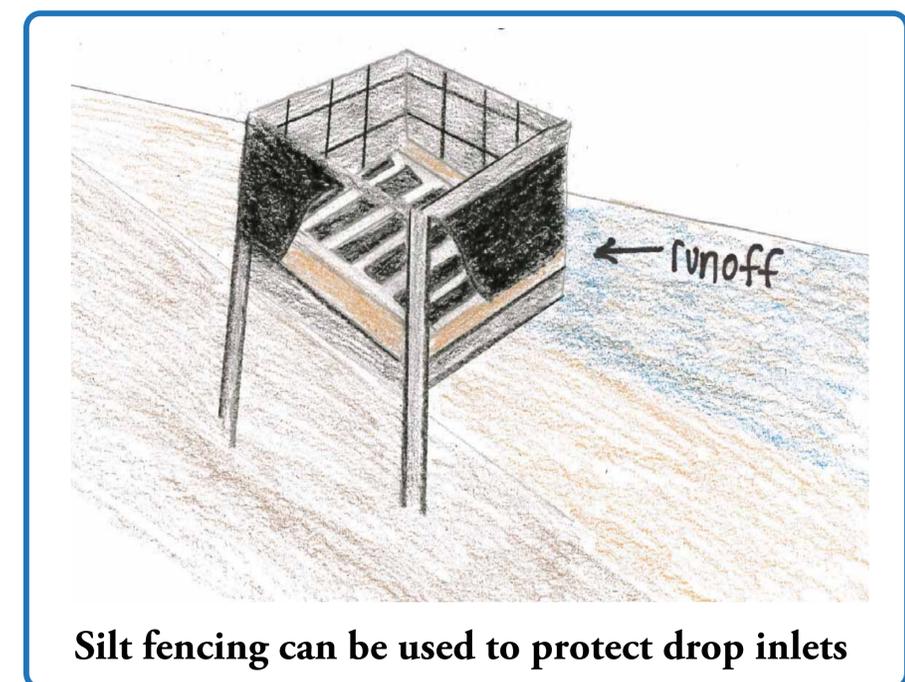
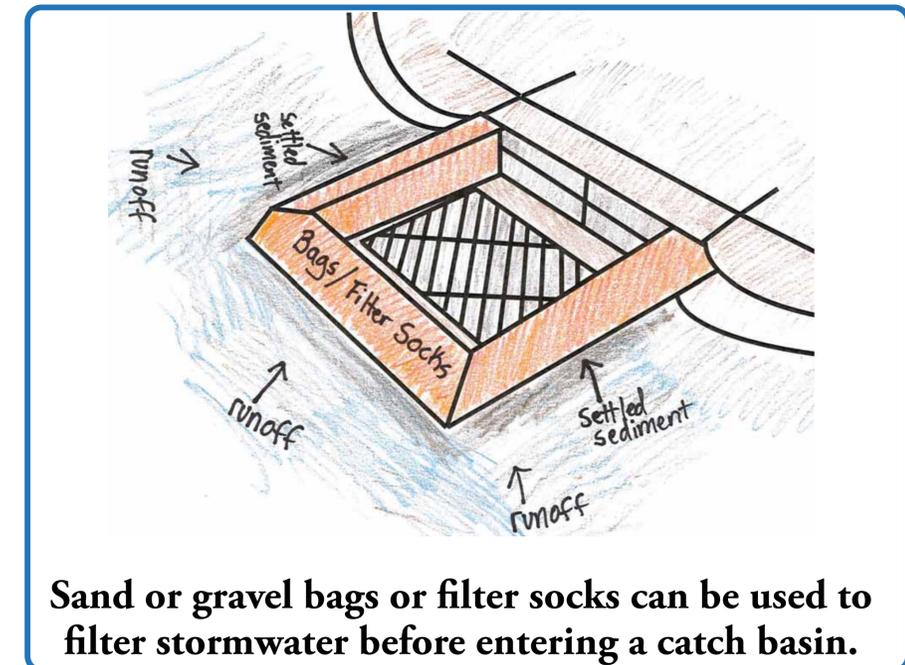
Storm drain protection prevents sediment or any non-stormwater discharge from entering a storm drain. The inlet should be covered or surrounded by filtering material. This way, sediment in runoff can pond and settle before it enters the storm drain or is collected.

These rules should always be followed when planning your stormwater pollution prevention during directional drilling:

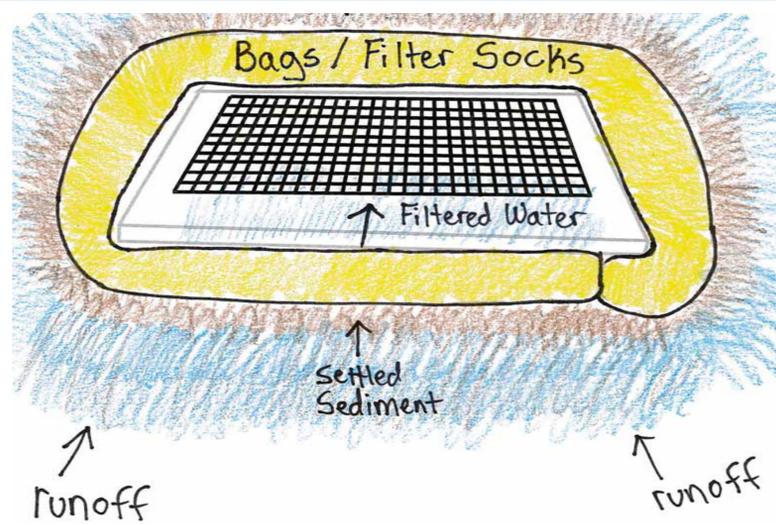
- Minimize overall disturbance as well as exposed soil. Schedule land-disturbing activities for when you will be actively working on that portion of the project.
- Install sediment and erosion control devices to minimize stormwater runoff from disturbed areas.
- Put sediment controls in place before disturbance and check them frequently.
- Sediment controls must be maintained during all drilling and site restoration activities.
- To avoid flooding, do not block existing culverts and storm inlets except as a last resort.
- Never intentionally discharge non-stormwater discharge into creeks, rivers, ditches or storm drains.
- Complete permanent restoration to disturbed area as soon as possible.
- Remove sediment from traps and filters after all storm events.

Sediment Control Examples

The following types of filters or covers are examples of what may be used to control sediment runoff. Other examples may be found through the resources listed on the back of this document.



Sediment Control Examples, Cont.



Sand/gravel bags or filter socks can also be used to protect drop inlets



Drain plugs can be used to collect then contain water in drop inlets

Refueling Practices and Disposal of Hazardous Waste

Use drip pans during refueling in the field to catch spills.

If hazardous chemicals are used in the drilling process, runoff must be contained, collected, and properly disposed of.

Hazardous waste **must** be taken to a proper disposal facility that can accept hazardous wastewater. The City of Durham accepts pre-treated wastewater for disposal into the City's sanitary sewer system or at a treatment plant.

Do not dispose of wastewater of any type into the City's sanitary sewer system without permission from the City's Pre-treatment Coordinator, Tyrone Battle 919-560-4386 x35556

Spills and Accidental Discharges

Spills should be cleaned up using dry cleanup methods.

If at any time there is an accidental discharge of runoff water or wastewater into the storm drainage system or surface water, **you must notify Stormwater Services immediately by calling 919-560-SWIM**. Be prepared to report the date, time, location, type and amount of the spill.

If the spill is an immediate threat to life, **call 911 first**.

Important Contacts

Accidental Discharge Reporting
919-560-SWIM

Tyrone Battle, Industrial Pretreatment Coordinator
919-560-4386 x35556

Jon Baker, Water Quality Specialist
919-560-4326 x30211

Emily Rhode, Pollution Prevention Coordinator
919-560-4326 x30295

Additional Resources

Sediment Control Devices:

www.bmpstore.com
www.grainger.com
www.newpig.com

Guidance Documents:

-Minnesota Stormwater Compliance Assistance
Tool Kit for Small Construction Operators
<http://bit.ly/1gWMhip>

-Town of Pleasant, SC Directional Drilling
BMP Fact Sheet
<http://bit.ly/1qX0Rfm>

-Auckland, NZ Council Best Management Practice
Directional Drilling
<http://bit.ly/1m3dnd3>

-EPA
<http://1.usa.gov/1qYiImd>

