

Watershed Management Updates for 2009

Gary Lacy, CPESC-IT, CISEC
Senior Engineering Specialist



Topics

- Water Quality - Best Management Practices
- EPA's Proposed Effluent Guidelines and Standards
- Construction Site Inspection Records

Promote Water Quality Best Management Practices

27th & "F" STREETS PARKING LOT



This parking lot area was previously paved entirely with standard concrete, which is intended to rapidly shed **stormwater runoff** from the area.

The center portion of the parking lot was repaved with a **porous concrete**, which allows rain water to drain through the concrete itself, into an underlying crushed rock layer.

The crushed rock will temporarily hold the rainwater and break down pollutants through biological activity as the water infiltrates into the soil. Additionally, there is an underlying pipe system to ensure that excessive amounts of water will drain under the

porous concrete. This type of concrete has been shown to remove up to 95 percent of pollutants and sediments carried by rainwater runoff. Since porous concrete is not quite as strong as standard concrete, it is best utilized in areas with a lower volume of traffic, such as parking lots.

Advantages

- Reduces stormwater runoff
- Reduces impervious surface area
- Provides pollutant filtering

Porous Concrete - Concrete that contains an interconnected pore system allowing stormwater to drain through the concrete to the crushed rock layer below

Stormwater Runoff - Water from a rainfall event which does not soak into the soil but instead flows on land to the nearest stream or lake.

lincoln.ne.gov
keyword: watershed



Encourage Water Quality Best Management Practices



07.05.2007



Bioretention Swale at S.27th and
Randolph Street

EPA's Mandate of Effluent Guidelines and Standards for Construction Site Runoff



EPA's Proposed Effluent Guidelines and Standards for Construction Activity



10 50 500
NTUs

EPA has proposed **13** NTUs for construction site runoff

EPA's Proposed Effluent Guidelines and Standards for Construction Activity

- EPA's goal is to begin enforcing the new standard by December 2009.
- NDEQ has two-five years to get EPA's new standard into their regulations.





09.11.2008 14:31



Construction Site Inspections



Construction Site Inspection Records

- MUST inspect at least once every seven calendar days during active construction and,
- MUST inspect after every rain event greater than one-half inch.
- MUST retain all records for three years.
- Watershed Management and the LPSNRD will be requesting inspection records.

Please contact us if you have
questions!

- Gary Lacy 441-4957
Glacy@lincoln.ne.gov
- Terry Ullsperger 441-4957
Tullspenger@lincoln.ne.gov
- J.B. Dixon 476-2729
JBDixon@lpsnrd.org