

North Carolina

Department of Transportation

Roadside Environmental Unit

The State of the Environmental Compliance

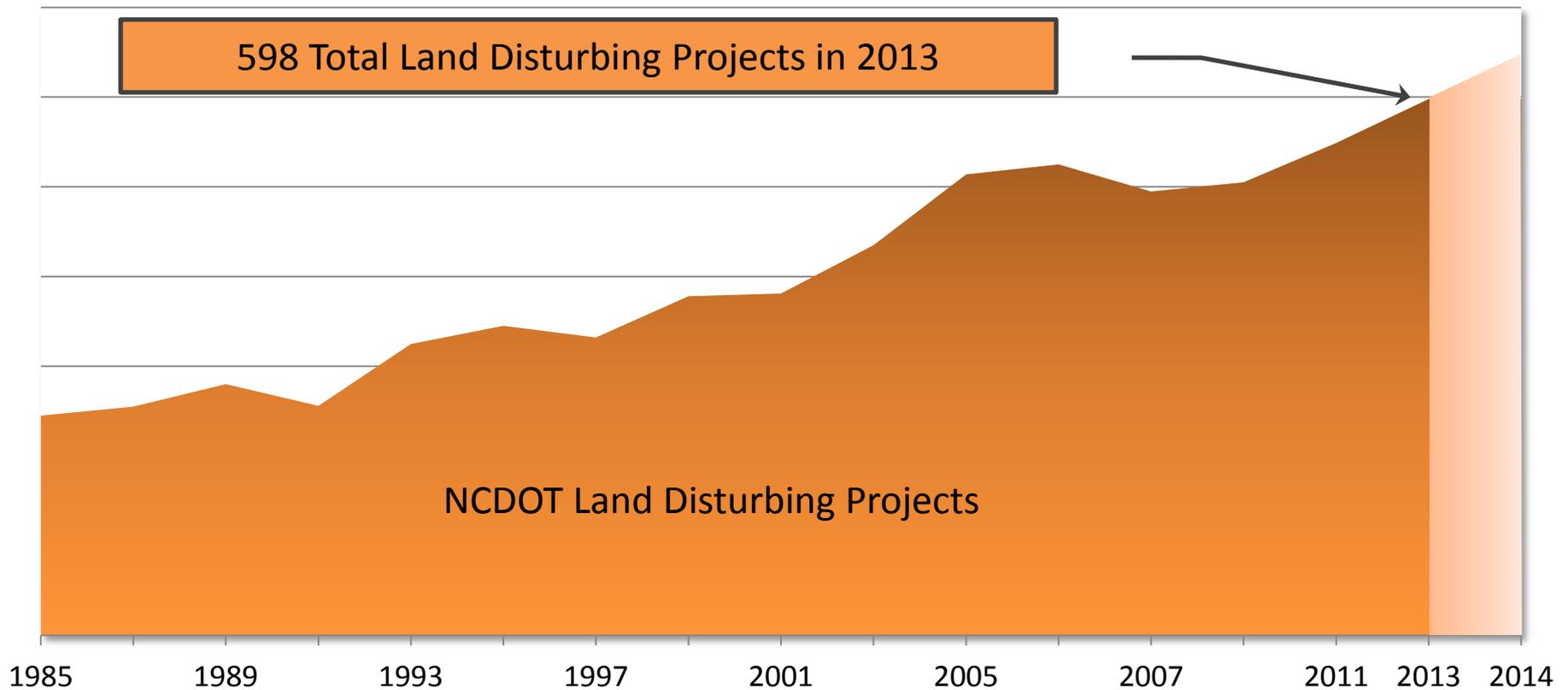
Don Lee

The State of Environmental Compliance



Erosion and Sedimentation Control Program

- Size of the Program



NCDOT – Erosion Control Program - Design

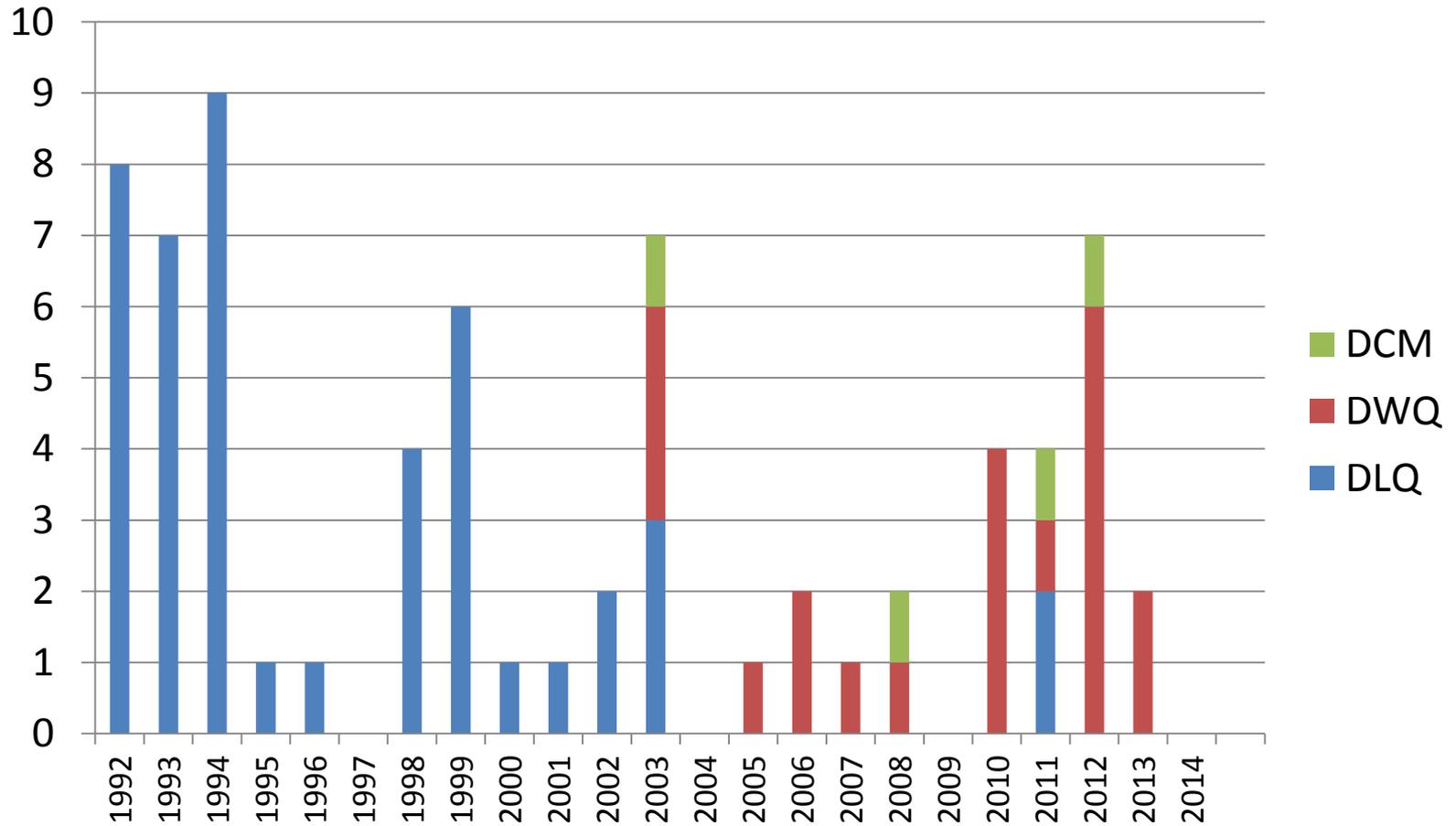
2013

Project Type

Erosion Control Plans
Design / Review

Contract Construction Projects	315
NC Turnpike Authority Projects	0
Maintenance Projects	180
Vertical Construction Projects	2
Rail Division Projects	29
Bridge Maintenance Projects	110
Reclamation Plans	73
Total Plans Designed /Reviewed	709

NCDOT – Erosion Control Program Violations



NCDOT – Erosion Control Program

Annual Review

September 2013

16 Projects Reviewed

12 TIP Contract Construction Projects

4 Maintenance Projects



NCDOT – Erosion Control Program



Device
Installation

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Device
Installation

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Device
Installation

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Slope
Stabilization

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Slope
Stabilization

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Site
Management

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Site
Management



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Vegetation
Establishment

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Vegetation
Establishment

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So what created concerns?

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Areas of Concern



Transitional
Areas during
construction.

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Areas of Concern



Failure to
stabilize
erodible areas

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Areas of Concern



Failure to
stabilize
erodible areas

Out of site out
of mind...

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Areas of Concern



Sediment Loss

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Areas of Concern



Turbidity Issues

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Areas of Concern



Maintenance of Measures

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Areas of Concern



NPDES
Inspection
Reports

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Areas of Concern



Jurisdictional
Impacts

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Annual Report Recommendations

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Measures below Fill Slopes





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Ground Cover on Steep Slopes

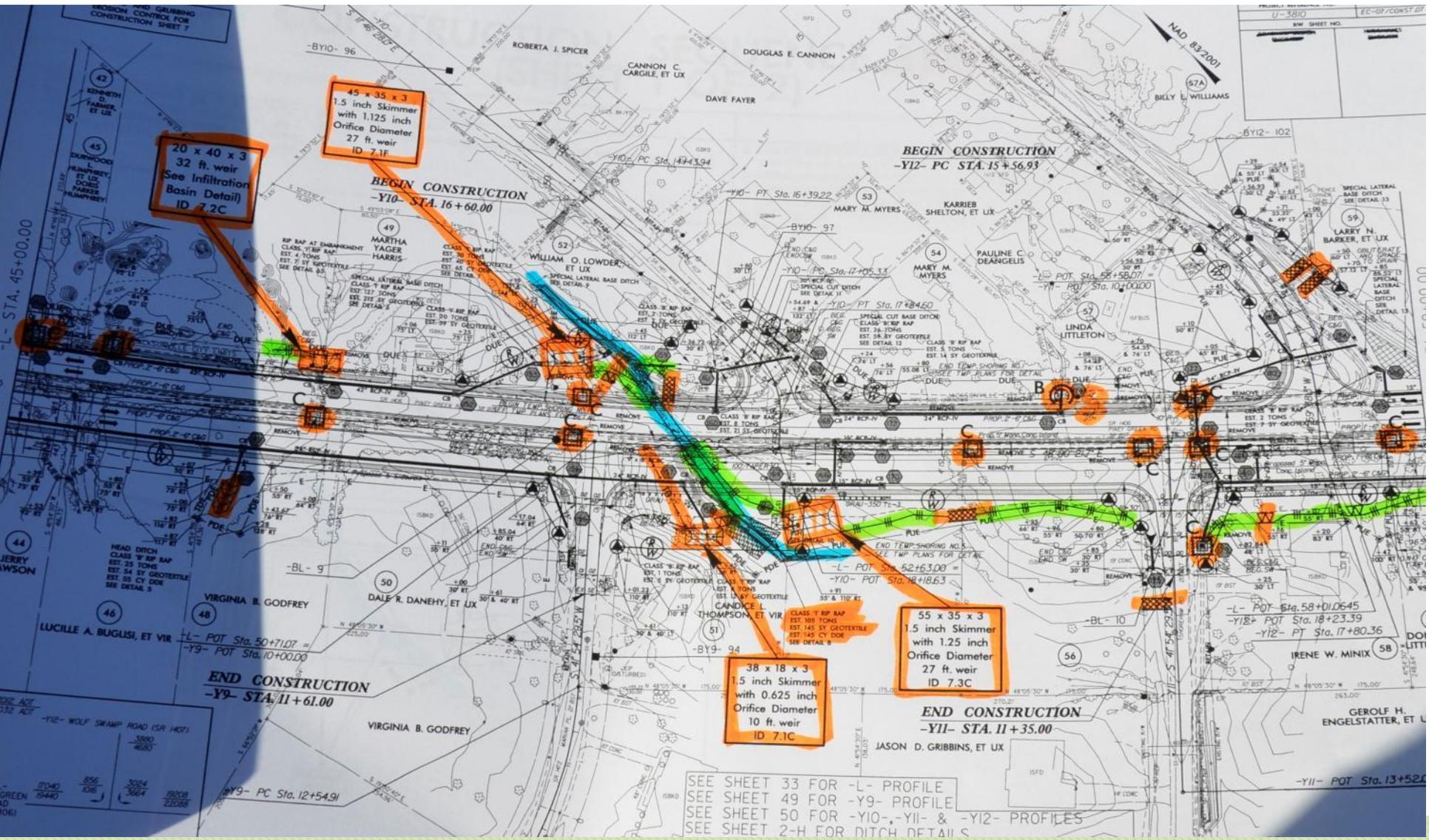


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Areas of Concern

Review of Plans Prepared by Consulting Engineering Firms

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E.C.P.A.R.

Erosion Control Plan Audit Request

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Searching for Solutions

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Research



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Searching For Solutions: Research

“Sediment Basin Design Criteria for Flocculated Sediment”

**Research By: Rich McLaughlin, PhD.
NC State**

"Comparing Low-Cost Methods for Stabilizing Diversions and Ditches"

**Research By: Rich McLaughlin, PhD.
NC State**

NCDOT – Erosion Control Program

Training

NC STATE UNIVERSITY *Erosion & Sediment Control/
Stormwater Certification for NCDOT Project*

Courses
[Level I](#)
[Level II](#)
[Level III](#)

General Information
[Workshop](#)
[Location/Directions](#)
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Course Schedule

Erosion Links

Contact Us

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The [Biological & Agricultural Engineering](#) and [Soil Science](#) Departments at [North Carolina State University](#) are partnering with [NCDOT](#) to offer an Erosion and Sediment Control/Stormwater certification program.



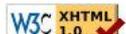
This program will ensure compliance with erosion and sediment control/stormwater provisions on NCDOT projects and provide comprehensive training to inspectors, project managers, contractors, and designers.

Relevant Documents

- [Erosion & Sediment Control/Stormwater Certification Special Provision for DOT Contracts](#)
- [Erosion & Sediment Control/Stormwater Certification Program Outline](#)
- [CEI Memorandum](#)

Some of the documents in this site are pdf files and will need to be viewed with Acrobat Reader. If you do not already have the reader, you may download it for free at www.adobe.com.

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CERTIFICATION LEVELS

Level I: Erosion & Sediment Control/Stormwater Inspector /Installer
Currently Certified - 2524

Level II: Erosion & Sediment Control/Stormwater Site Management.
Currently Certified - 5528

Level III: Design of Erosion and Sediment Control Plans
Currently Certified - 443

NCDOT – Erosion Control Program

Future Issues

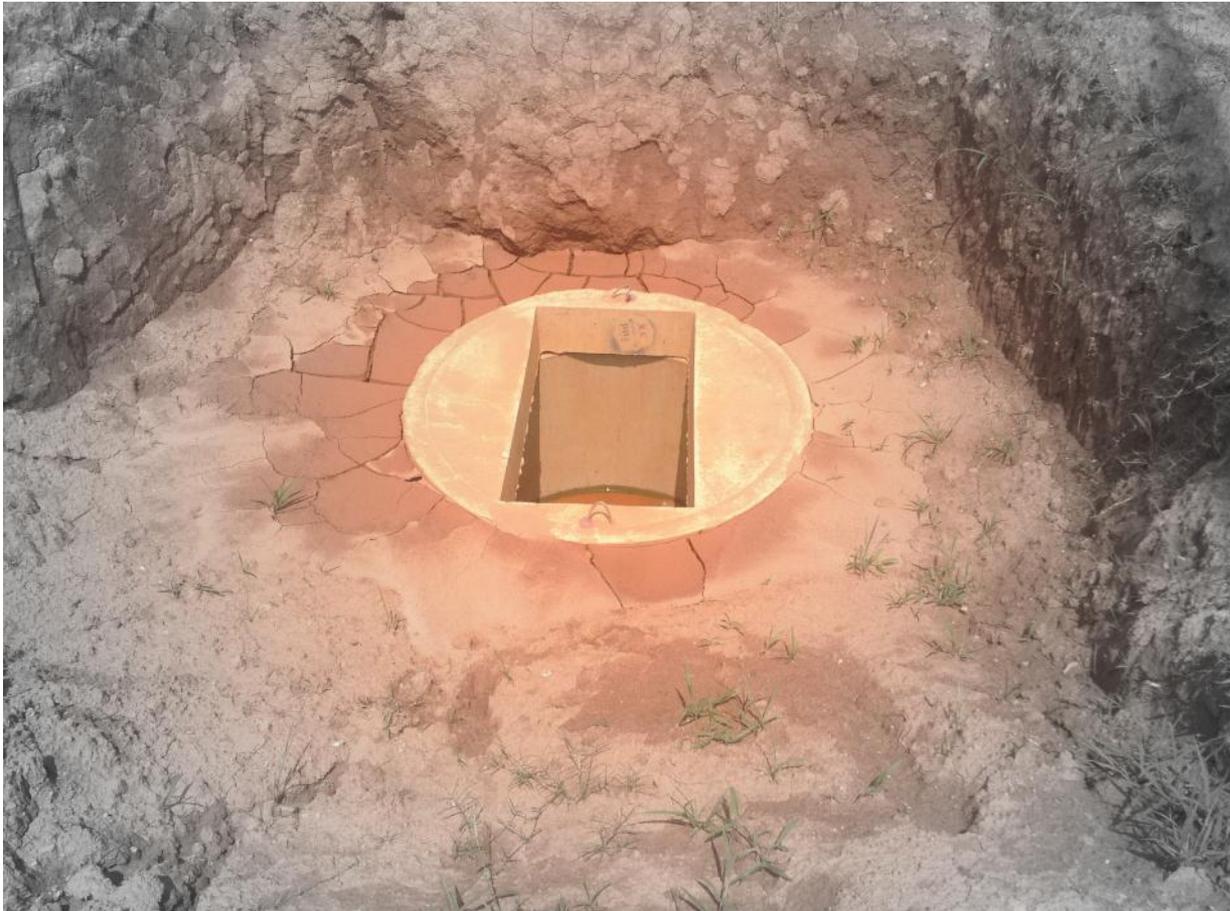
NCDOT – Erosion Control Program

Effluent Limitation Guidelines



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Effluent Limitation Guidelines



What we can not afford to have.

No EC Device

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Future Issues



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eBee
senseFly

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Generated by Sensefly Ebee

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Who will be watching you in the future?

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Over 759,171 Issues Fixed. Is yours next?

Enter your Neighborhood or City



HOW IT WORKS

From reporting potholes to receiving alerts, learn how SeeClickFix will help your neighborhood.



MEDIA PARTNERS

Embed our widgets, discover citizen concerns and build conversations around community issues.



GOVERNMENT PARTNERS

Receive citizen reports using our free tools or purchase our customized mobile, web and facebook apps.

TOP PERFORMING CITIES

We run global analyses to see how cities are responding to their citizens. How does your city compare? [View More](#).

- | | |
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| 3 Albuquerque, NM | 8 Houston, TX |
| 4 Springerville, AZ | 9 Linwood, NJ |
| 5 Albany, NY | 10 Winston-Salem, NC |

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SOLUTIONS FOR

TOOLS FOR

MOBILE APPS



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Questions

Questions