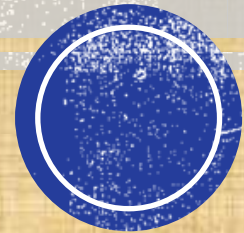




ALABAMA
SOIL & WATER
CONSERVATION
COMMITTEE

**Alabama Erosion and Sediment
Control Partnership**



BEGAN IN 2001

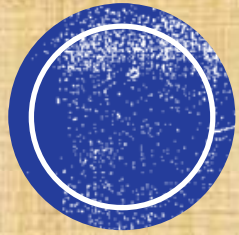
**PARTNERS FROM ACROSS THE CONSTRUCTION
STORMWATER SECTOR**


ORIGINALLY SUPPORTED THROUGH A 319 GRANT

**NOW FINANCIALLY SUPPORTED BY ALSWCC
THROUGH THE ALABAMA SOIL AND WATER SOCIETY**

**PROVIDES LUNCH AND LEARN SESSIONS, PRINTED
RESOURCES, AND ANNUAL SEMINAR AMONG OTHER
ITEMS**

HISTORY



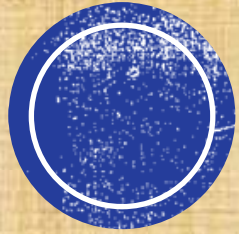


ALABAMA SOIL AND WATER CONSERVATION COMMITTEE
ALABAMA ASSOCIATION OF CONSERVATION DISTRICTS
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ALABAMA DEPARTMENT OF TRANSPORTATION
ASSOCIATED GENERAL CONTRACTORS OF ALABAMA
AUBURN UNIVERSITY COLLEGE OF AGRICULTURE
ALABAMA COOPERATIVE EXTENSION SYSTEM
HOME BUILDERS ASSOCIATION OF ALABAMA
USDA-NATURAL RESOURCES CONSERVATION SERVICE
SOIL AND WATER CONSERVATION SOCIETY – ALABAMA CHAPTER
WEEKS BAY NATIONAL ESTUARINE RESEARCH RESERVE
AUBURN UNIVERSITY EROSION & SEDIMENT CONTROL TEST FACILITY

PARTNERS




HANDBOOK




For Site
Planners
and
Designers

Alabama Handbook for

Erosion Control, Sediment Control
and Stormwater Management on
Construction Sites and Urban Areas




Volume 1
Developing Plans and Designing
Best Management Practices



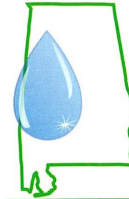
Alabama Soil and Water Conservation Committee
Montgomery, Alabama

Alabama Handbook for

Erosion Control, Sediment Control
and Stormwater Management on
Construction Sites and Urban Areas



Volume 2
Installation, Maintenance, and Inspection of
Best Management Practices
2018



Alabama Soil and Water Conservation Committee
Montgomery, Alabama

Due for
updating
2022

For
Contractors
and
Inspectors

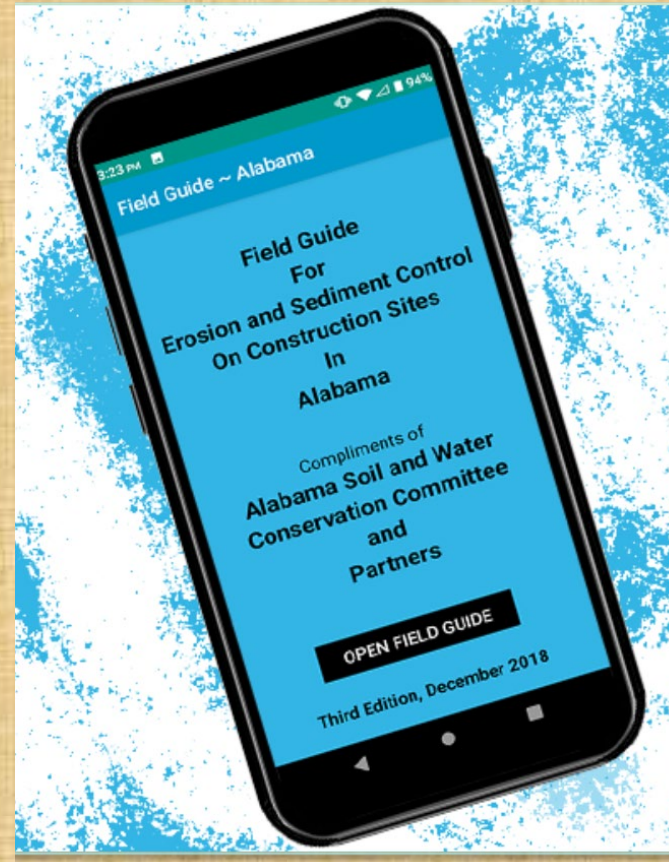
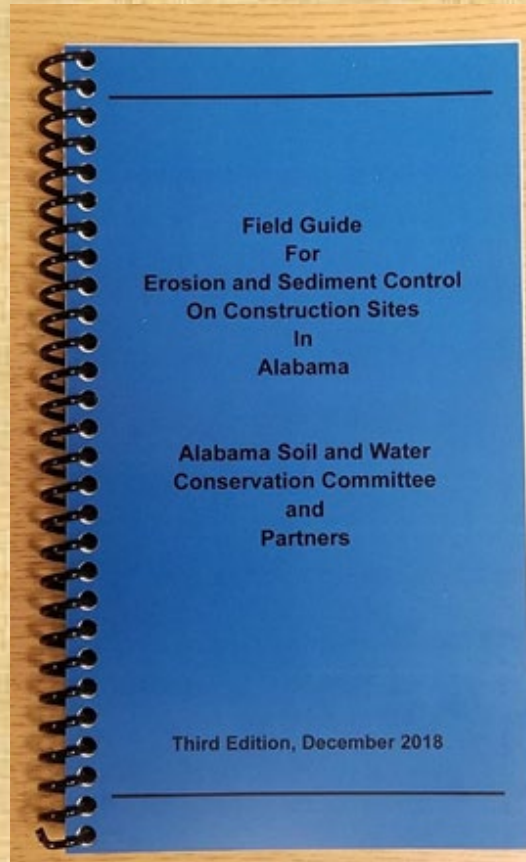
RESOURCES AVAILABLE



FIELD GUIDE APP



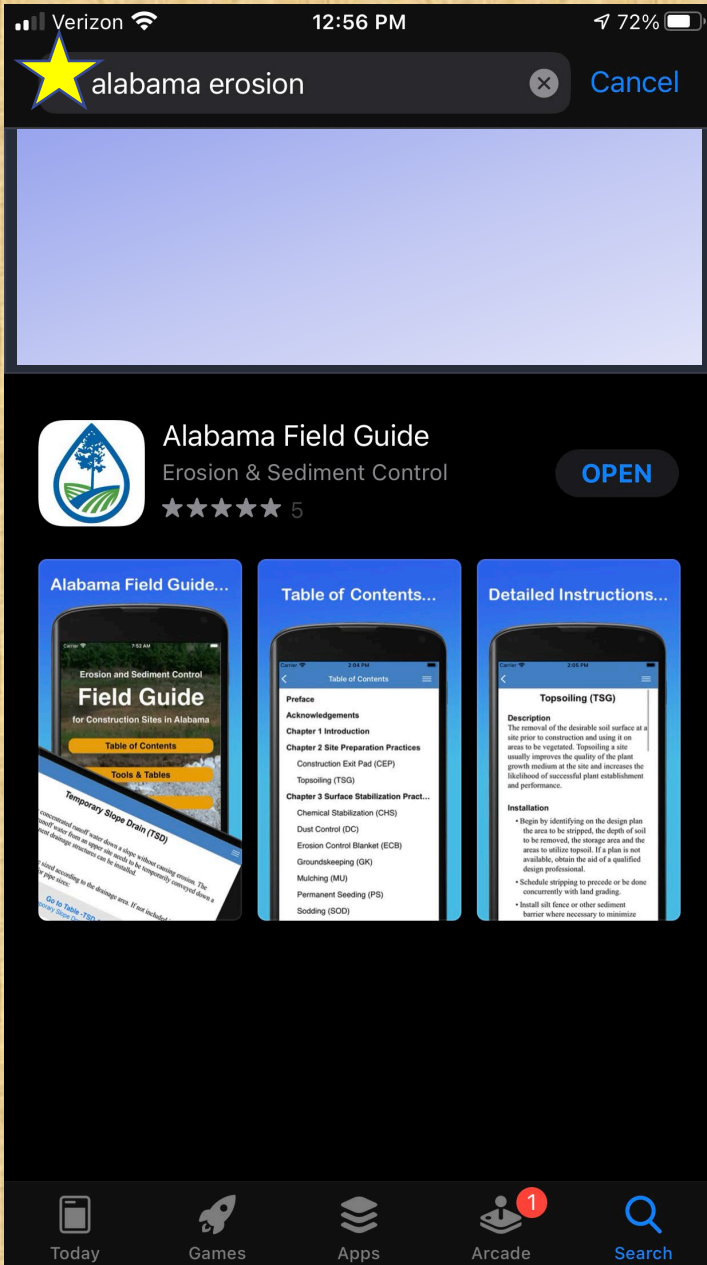
Tried and True



There's an App for that

RESOURCES AVAILABLE





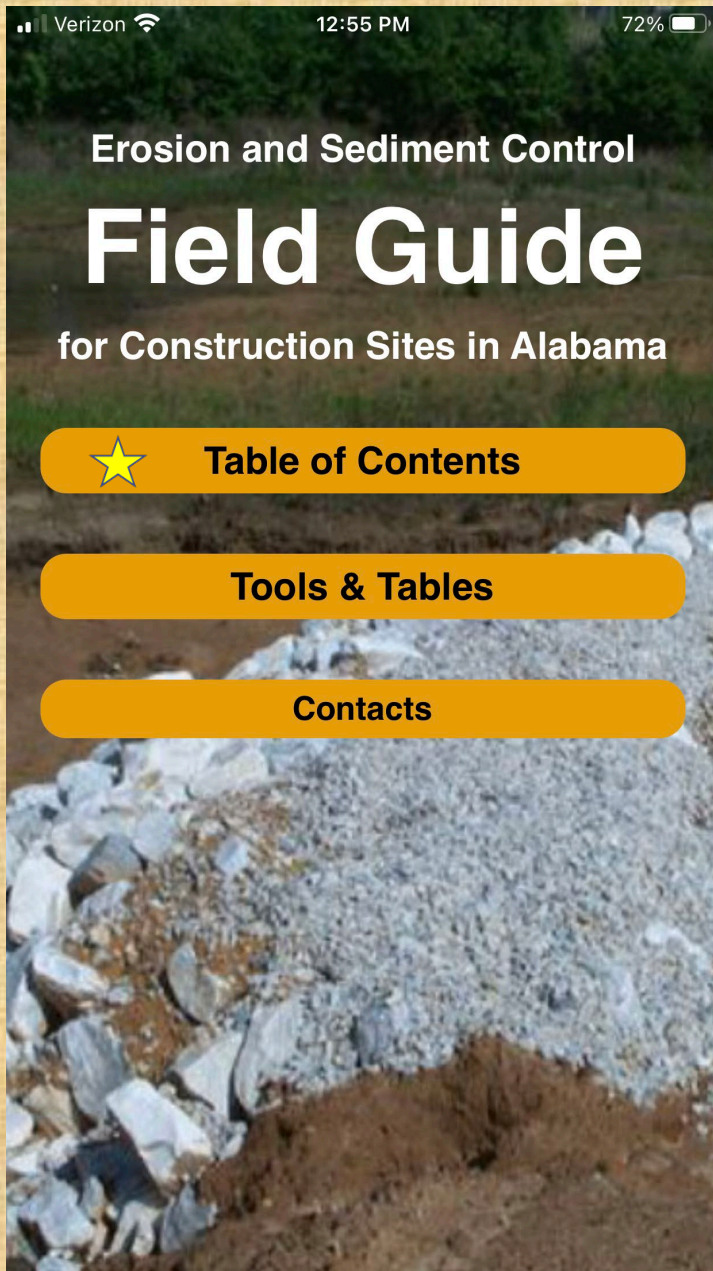
Let's download that App...

- **Scan Bar Code for Apple or Android**
- **Go to the Apple or Play store and search for alabama erosion**



A green vertical banner with a textured background. It contains two bullet points in white text. A large green arrow points from the right side of the banner towards the left, pointing towards the App Store screenshot.





Verizon 12:56 PM 72%

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 - Permanent Seeding (PS)
 - Sodding (SOD)
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 - Tree Planting on Disturbed Areas (TP)
- Chapter 4 Runoff Conveyance Practices
 - Check Dam (CD)

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< ★ ☰

Construction Exit Pad (CEP)

Description

An aggregate pad that removes mud and caked soil from the tires of construction vehicles. It is located where traffic will be leaving a construction site and moving directly onto a public road or street.

Installation

- Begin by removing all vegetation and other unsuitable material from the foundation area.
- Grade and crown the area for positive drainage.
- Utilize a diversion to direct any surface flow away from the construction exit pad.
- Install pipe under the pad if needed to maintain drainage ditches along public roads.
- Divert all construction exit pad runoff and drainage to a sediment trap or basin.
- Place 8 oz. non-woven geotextile filter fabric on the graded foundation before placing the aggregate.
- Place specified aggregate size to lines and grade shown on plans. Leave smooth and sloped for drainage. If aggregate size is not specified, use ALDOT Coarse Aggregate No.



Preface

Acknowledgements

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Construction Exit Pad (CEP)

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Runoff Conveyance Practices

Sediment Control Practices

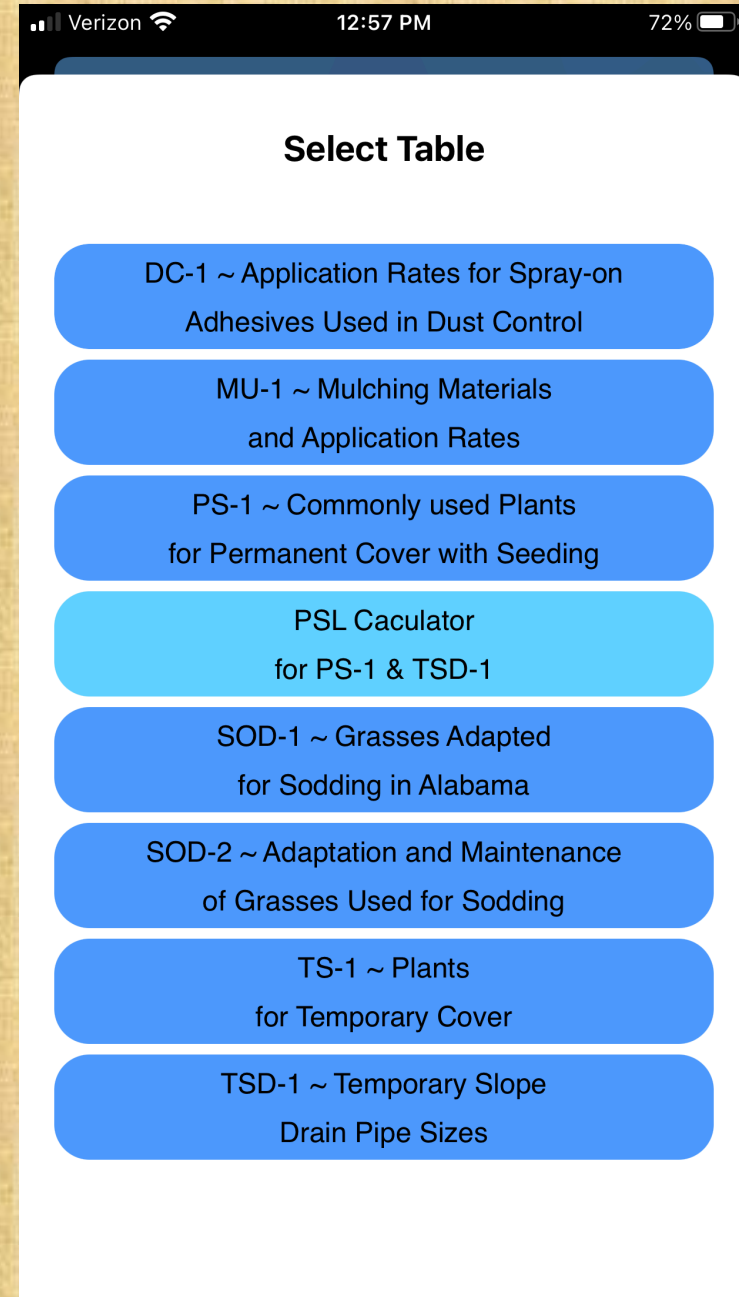
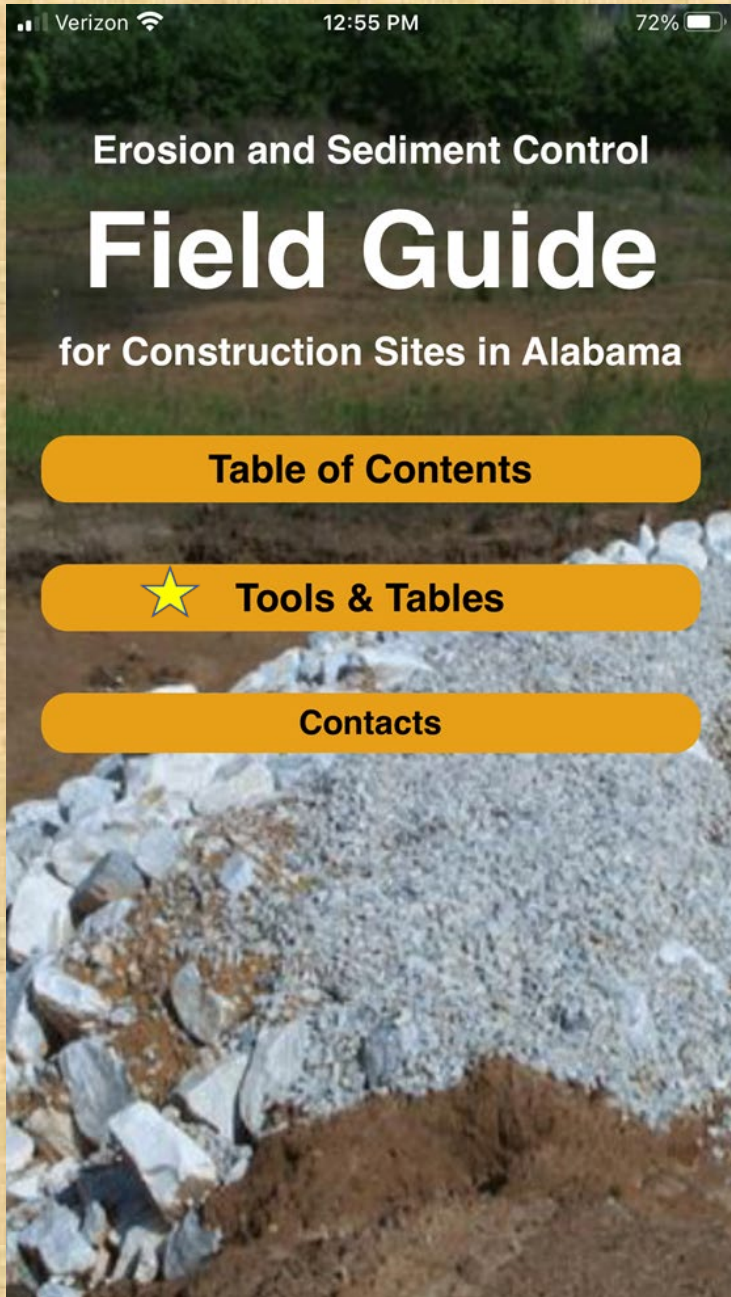
Stream Protection Practices

Earthen Dam Structures

Contacts

Handbook





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Table DC-1

Application Rates for Spray-on Adhesives Used in Dust Control

★ Anionic Asphalt Emulsion

Latex Emulsion
Resin in Water

Adhesive:

Anionic Asphalt Emulsion

Water Dilution (water:adhesive):

7:1

Type of Nozzle:

Coarse

Application Rate (gallons/acre):

1200

Source: Virginia Erosion and Sediment Control Handbook, 1993

Consult with a qualified design professional if spray-on adhesives are specified. A permit may be required.

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Table MU-1

Mulching Materials and Application Rates

Straw (with Seed)

★ Straw Alone (no seed)

Wood Chips
Bark
Pine Straw

Material:

Straw Alone (no seed)

Rate Per Acre and (Per 1000 ft.²):

2.5 - 3 tons (115 lbs - 140 lbs)

Notes:

Spread by hand or machine; anchor when subject to blowing.

Verizon 12:59 PM 71%

PLS Calculator

★ 50 × Seed Rate (lbs./ac.) of PLS Table PS-1 or Table TS-1

★ 5 × Germination

★ 5 × Purity

★ 100 × Acres to be seeded

Calculate **Reset**

Pounds of Seed Needed _____

** PLS means pure live seed and is used to adjust seeding rates. For example, to plant 10 lbs. PLS of a species with germination of 80% and purity of 90%, PLS= 0.8X 0.9 = 72%. 10 lbs. PLS = 10/0.72 = 13.9 lbs. of the species to be planted.*



WEBSITE IMPROVEMENTS

www.alabamasoilandwater.gov/alesc





Hot Topics



Alabama Feral Swine Program

Alabama Soil and Water Conservation Committee and the USDA-NRCS/APHIS have FARM BILL funds to help



Alabama Irrigation Initiative



Professional Soil Classifiers Exam



Education & Resources



A Partnership for Alabama's Erosion and Sediment Control Program



Field Guide for Android



Field Guide for iPhone

Alabama's Erosion and Sediment Control Partnership:

- AL Soil and Water Conservation Committee, Chair
- AL Associated General Contractors
- AL Association of Conservation Districts
- AL Chapter Soil and Water Conservation Society
- AL Department of Environmental Management
- AL Department of Transportation
- AL Cooperative Extension System
- Auburn University
- Auburn University Erosion and Sediment Control Test Facility (AU-ESCTF)
- Home Builders Association of AL
- Natural Resources Conservation Service

The Partnership provides:

- The Blue Book (AL Handbook for Erosion and Sediment Control)
- A pocket Field Guide and App
- Training opportunities
- Clear Water Alabama field day and seminar
- Assistance with stream restoration



A Partner

Alabama's Erosion and Sediment Control Partnership

Alabama's Erosion and Sediment Control Partnership:

- AL Soil and Water Conservation Committee, Chair
- AL Associated General Contractors

Clear Water Alabama

Specialized Training For Groups

AU-ESCTF

Let's Look At Sediment Brochure



SAMUEL GINN COLLEGE OF ENGINEERING

A-Z Index | Map | People Finder | AU Access



AU-ESCTF AUBURN UNIVERSITY EROSION & SEDIMENT CONTROL TESTING FACILITY



RESEARCH.



Field Guide for iPhone



Sediment

Sediment

Sediment!

Why All The Fuss?

We often hear... "Sediment is the nation's biggest pollutant in our streams, lakes, and water courses."

Sediment impacts the environment! It costs land owners and local and county governments countless dollars.

This brochure has two purposes:

- Help readers gain a better understanding of the problems associated with sediment
- Stimulate stewardship of our land and water resources

Sediment is the soil particles that are detached during the erosion process. These particles are deposited somewhere down the slope. Likely locations for sediment deposits include ditches, ponds, lakes, creeks, and rivers. Some sediment even reaches the Gulf of Mexico.

And there is more to the story. While some soil particles are deposited, other smaller soil particles can remain in the water for a long time. This water is "turbid" and damages the aquatic environment.

The impacts of sediment and turbidity can be seen in the pictures to the right.

Pictures on the back of this brochure show sites that may deliver sediment and turbid water and create problems to our waterways and the aquatic environment.

In addition to the purposes stated above, this brochure also illustrates why sediment and turbidity are considered non-point source pollutants. These pollutants come from many sites and collectively create problems that need to be addressed.

As a concerned Alabamian - review this brochure closely, and then pass it on to someone else for their

Accelerated erosion, sediment, and turbidity.

The natural process of erosion is accelerated by human disturbance of the land. The resulting sediment and turbidity are harmful to aquatic life in streams, reservoirs, estuaries and bays of Alabama.



Water-caused erosion produces sediments that enter local waterways and starts a journey downstream, maybe to Mobile Bay or other bays in the Gulf of Mexico.



Erosion occurring in Georgia, Mississippi, and Alabama contributed to the sediment plume at right that spans from the Mobile Delta through Mobile Bay out into the Gulf of Mexico.



Environmental Problems

Smothers Stream Bottoms and Clouds the Water. Sediment degrades aquatic habitat and turbidity restricts light and aquatic plant growth. This disrupts the food chain and impairs fish and aquatic insect populations.



A Partnership for Alabama's Erosion and Sediment Control Program

Alabama's Erosion and Sediment Control Partnership:

CAD Drawings

To view info: Click Name of CAD file

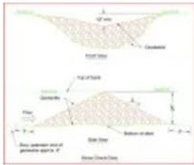


Figure CD-1, Profile and Cross-Section of Typical Rock Check Dams

1 file(s) 142.70 KB

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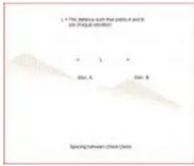


Figure CD-2, Profile of Typical Rock Check Dams

1 file(s) 149.23 KB

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Figure CD-3, Wattle Check Dam (ditch check)

1 file(s) 1.47 MB

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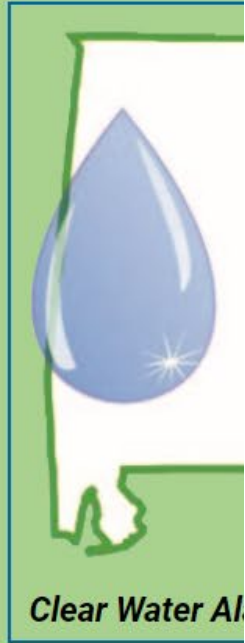


Figure CD-5, Silt Fence Check Dam Cross-Section

1 file(s) 386.83 KB

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Field Guide for



Contacts



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Program





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