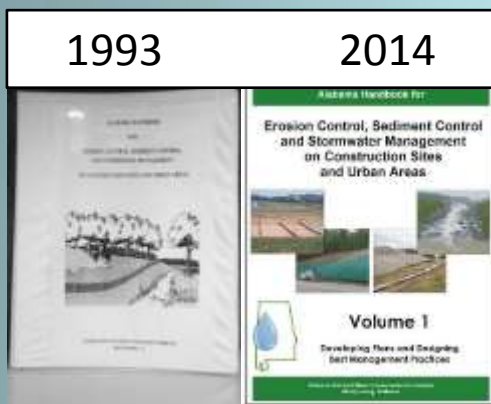


We've Come A Long Way Baby: History of Alabama's Erosion and Sediment Control Program for Construction

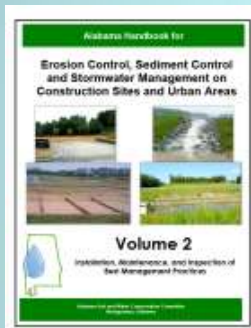


2015 Alabama Water Resources Conference
Perdido Beach Resort **September 10, 2015**

Earl L. Norton
Erosion and Sediment Control Program Coordinator
Alabama Soil and Water Conservation Committee

We've Come A Long Way Baby: History of Alabama's Erosion and Sediment Control Program for Construction

ESC Handbook



Field Days



Brochure



Field Guide



Seminars



ESC Handbooks: 1993, 2002, 2003, 2006, 2009, 2014



July 1993



2002



2003, 2006, 2009, 2014

The Beginning: 1991

**Request by Jefferson County
Soil and Water Conservation
District to Alabama Soil and
Water Conservation Committee
for an Erosion and Sediment
Control Handbook**

**Development led by NRCS with
multi-agency support**

4 training sessions in 1994

**AL Soil and Water Conservation Committee
and Erosion and Sediment Control Partnership:**

- **AL Associated General Contractors**
 - **AL Association of Conservation Districts**
 - **AL Chapter Soil & Water Conservation Society**
 - **AL Department of Environmental Management**
 - **AL Department of Transportation**
 - **Auburn University**
 - **AL Cooperative Extension System**
 - **Home Builders Association of AL**
 - **Natural Resources Conservation Service**
- Statewide training in 2003-2004, 2006, 2009**

**Alabama Soil and Water Conservation Committee
and Erosion and Sediment Control Partnership provide**

Seminars



Over 3,200 participants

36 since November 2003

**24 through Auburn University
Business and Engineering
continuing education
program "T Squared"**

1 through Tuskegee University

9 through Clear Water Alabama

**2 through Soil and Water
Conservation Society –
Alabama Chapter**

Alabama Soil and Water Conservation Committee and Partners provide
***Field Guide for Erosion and Sediment Control
on Construction Sites, updated June 2015***



**Goal: one to everyone
that needs one!**

2004 18,350 copies printed

2015 400 copies printed

- **Contains most of Handbook Volume 2**
- **A few available free at local soil and water conservation district offices**
- **Can be purchased from AL Chapter Soil and Water Conservation Society:
order form at
alchapterswcs.aces.edu
and
www.swcc.state.al.us**

History of Clear Water Alabama

23 Field Days in 12 years

- **2004 - 2007 Red Water Blues (14)**
 - 2004 (5) Huntsville, Birmingham, Enterprise, Prattville, Fairhope
 - 2005 (4) Decatur, Prattville, Enterprise, Mobile
 - 2006 (2) Tuscaloosa and Auburn
 - 2007 (3) Cullman, Prattville, Spanish Fort
- **2008 - 2015 Clear Water Alabama (9)**
 - 2008 (1) Bessemer
 - 2009 (1) Bessemer
 - 2010 (1) Auburn
 - 2011 (1) Birmingham
 - 2012 (2) Huntsville and Spanish Fort
 - 2013 (1) Birmingham (Irondale)
 - 2014 (1) Spanish Fort
 - 2015 (1) Tuscaloosa

History of Clear Water Alabama

- **2004 - 2007 Red Water Blues**

2004 (5): Huntsville, Birmingham ham, Enterprise,
Prattville, Fairhope

2005 (4): Decatur, Prattville, Enterprise, Mobile

2006 (2): Tuscaloosa and Auburn

2007 (3): Cullman, Prattville, Spanish Fort

Emphasis items

- **Steep slope and channel stabilization**
- **Inlet protection in subdivisions and commercial sites**
- **Erosion control on house sites**

Red Water Blues Days, 2004-2007

- Steep slope and channel stabilization - *hydraulic mulches, erosion control blanket, rock rip-rap*
- Inlet protection in subdivisions and commercial sites – *various Inlet protection devices*
- Sediment control at site perimeters using *silt fence*



Red Water Blues Days, 2004-2007

Demonstrated erosion control on house sites



Construction Exit Pad



Mulching (wheat straw)

Red Water Blues became Clear Water Alabama

2008 at Bessemer

Program became a 2-day event with an all-day seminar and all-day field day

Learned of need for better sediment basin technology and turbidity control from the “*experts*”

Dr. Al Jarrett (Penn State) & Dr. Rich McLaughlin (NC State)



2009 Clear Water Alabama Bessemer

Seminar provided

Sediment basin design – Perry Oakes

More on ESC strategies - Dr. McLaughlin

Added low impact development (LID)

Field Day



Retaining Wall



Drill Seeding

2010 Clear Water Alabama Auburn

Seminar provided

Sediment basins on linear projects – Ted Sherrod from NCDOT

Streambank restoration - Dr. Eve Brantley from AU

Turbidity sampling – Dr. Jim Spotts, consultant from GA

Field Day



**Streambank
Restoration**



Turbidity Sampling



LID

2011 Clear Water Alabama

Birmingham

Partnered with IECA for 3-day event

IECA Roadshow

Seminar

Field Day

Update from EPA rep

Research updates from Auburn University

LID basics – NC State representative

Turbidity control and other topics – Dr. Rich McLaughlin

MS4 responsibilities in stormwater – Rod Long of Hoover

Introduced place of ESC in LEED

Project installation successes – TN, GA, AL

Turbidity Sampling – Dr. Spotts and Beth Chesson

2011 Clear Water Alabama

2011 Partnered with IECA for 3-day event



Shades Creek Stream Restoration

Field Day



LID at RR Park



Mined Land Reclamation



Corridor X

2012 Clear Water Alabama Huntsville and Spanish Fort

Seminars provided

Wetlands regulations - ACOE

Turbidity sampling – Dr. Jim Spotts, John Carlton

ESC Case Studies

LID

Field Days



Joe's Branch



DOT & Wetlands



Quarry

Clear Water AL Supporters Over The Years

Industry – with Products

Sunshine Supplies

American Excelsior

Hanes Geo

Pennington Seed Co

Silt Saver, Inc. Erosion Pros, L.L.C.

W. J. Faircloth and Son, Inc.

Applied Polymer Systems, Inc.

Thompson Engineering

Spread Rite Environmental

Twin Oaks Environmental

Southern Pipe and Supply, Inc.

Southeast Environmental Consultants

Clear Water AL Supporters over the Years

Industry – with members, staff, funds

- Associate General Contractors – Alabama
- Home Builders Association of Alabama
- CPESC and EnviroCert International, Inc.
- IECA – Southeast Chapter
- Alabama Power Company

Agencies and Organizations

- ADEM and ALDOT
- NRCS
- Soil and Water Conservation Society
- Auburn University and AL Cooperative Ext. System
- Local soil and water conservation districts
- Host cities



**Developed for
ESC Program Steering Committee
with assistance of
Alabama Water Watch Program
and
Auburn University**

25,000 copies printed

**Available through
Soil and Water Conservation Districts**

Coordination of Training

Soil and Water Conservation Committee

AL Clean Water Partnership

AL Chapter - Soil & Water Conservation Society

AL Department of Environmental Management

AL Department of Transportation

Auburn University and AL Cooperative Extension System

AL Association of Conservation Districts

Associated General Contractors - AL

Home Builders Association of AL

Natural Resources Conservation Service

Thompson Engineering

Weeks Bay National Estuarine Research Reserve

Website for events: provided by Auburn University Erosion Control Test Facility
<http://eng.auburn.edu/research/centers/auesctf/al-stormwater/upcoming-events.html>

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Erosion and Sediment Control Program Coordinator

Alabama Soil and Water Conservation Committee

[http://swcc.state.gov/programs/erosion and sediment control](http://swcc.state.gov/programs/erosion_and_sediment_control)