



MAKING THE VIRTUAL WORLD WORK FOR YOUR NEEDS

Charles (Chuck) Jarman, P.E.

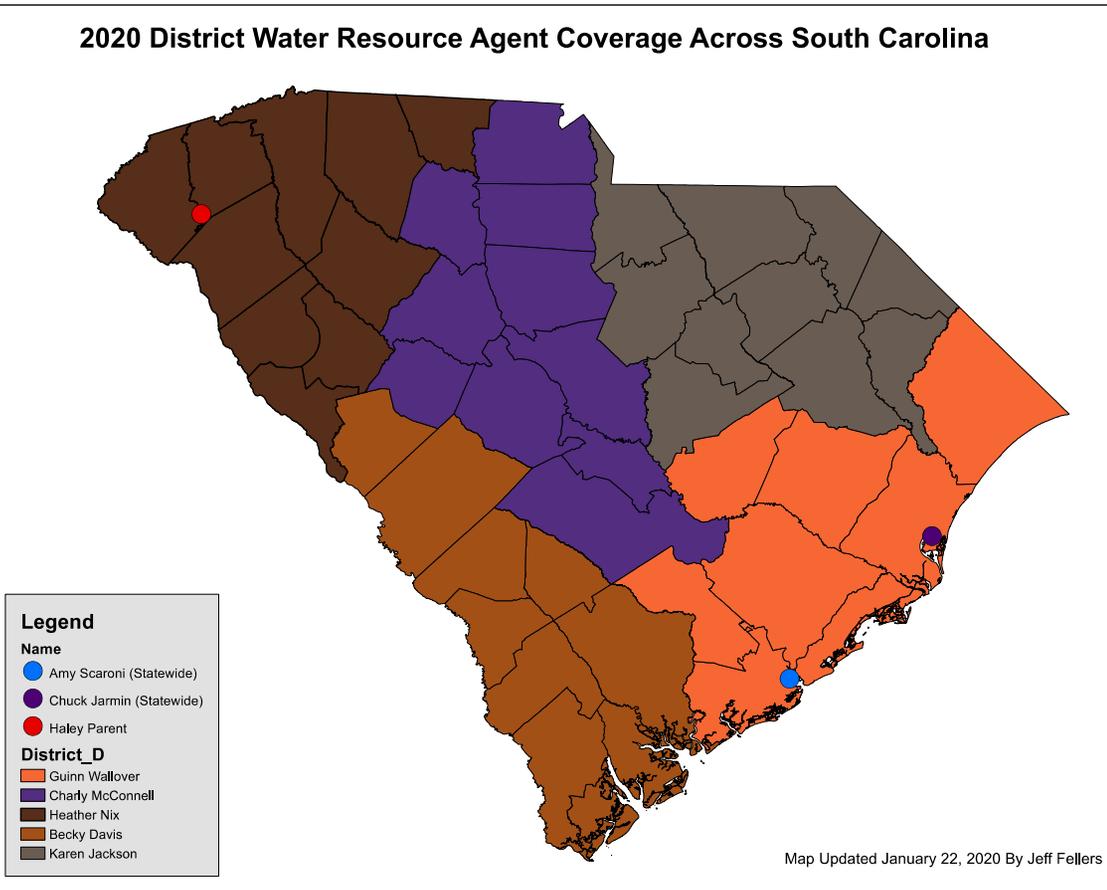
Water Resources Engineer

Clemson Cooperative Extension Water Resources Team Mission

Provides research-based information in the form of community outreach and education, public involvement opportunities and in-depth trainings and workshops

The common goal is to foster stewardship and sustainable management of water resources for current and future generations

2020 District Water Resource Agent Coverage Across South Carolina



Clemson Cooperative Extension Water Resources Team

The team consists of Extension Specialists, Associates and Agents from around the state working together to address water quantity and water quality issues in South Carolina and beyond.

The Clean Water Act in South Carolina

South Carolina is a NPDES delegated state.

NPDES regulations are administered by South Carolina Department of Health and Environmental Control (DHEC)



NPDES Permit in South Carolina

Regulates local governments in the context of a Municipal Separate Storm Sewer Systems (MS4s)

Permits requires MS4s to have programs that provides public education, outreach, and public involvement regarding stormwater impacts

Clemson Extension's Part (water resources)

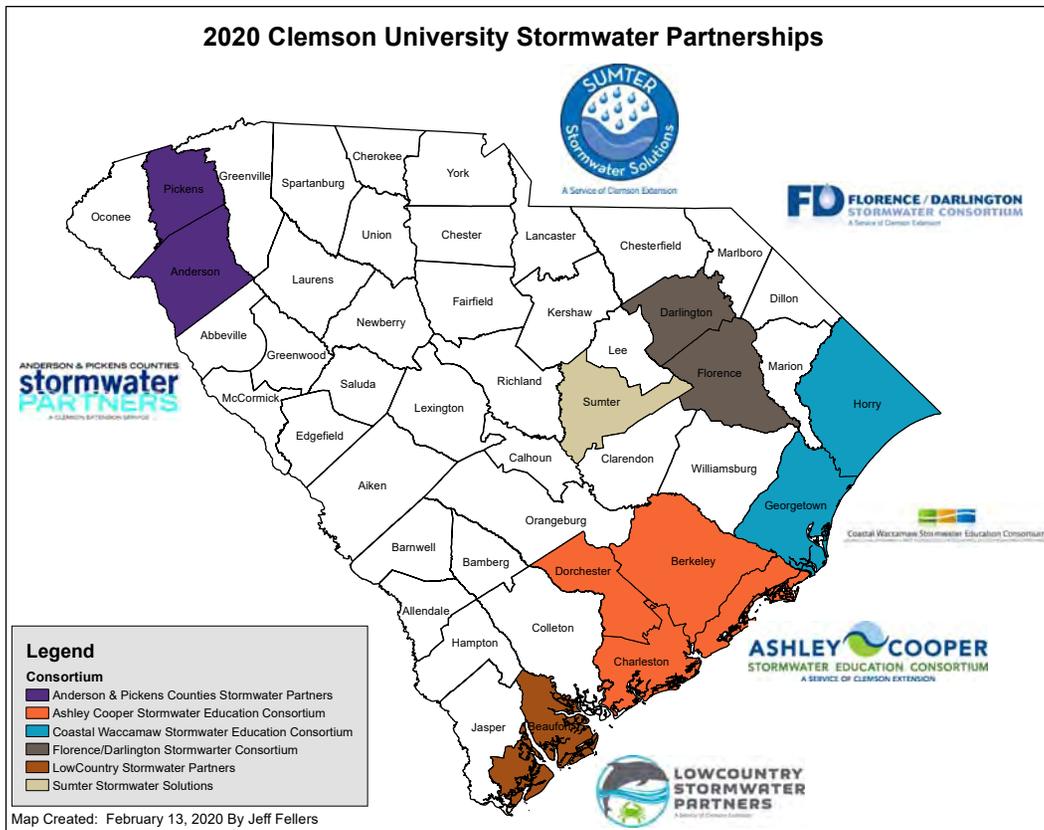
Works with Federal, State, and Local Agencies

Provides certification courses

Develop and coordinate educational programs

Produce workshops and demonstration projects

Research on various aspects of
water management



- Established agreements with various local governments
- Created educational consortium
- Partner with various agencies
- Federal
- State
- Local governments
- Universities and collages
- Private sector organizations

Programs and Workshops (water resources)

Stormwater Pond Conference
Shoreline Stabilization
Rain Garden for Professionals
Rain Gardens for Residential
Audiences
Carolina Yards

Silt Fence and Beyond
Sediment Basin Design
LID Practices
Rain Barrels
State Dam & Reservoir
Safety Program

Certification Programs

Certified Erosion Prevention and
Sediment Control Inspector (CEPSCI)



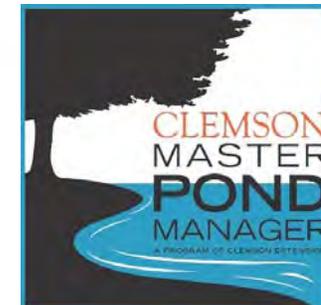
Certified Stormwater Plan Review
(CSPR)



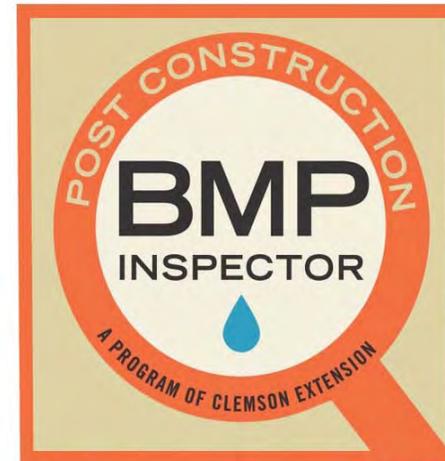
Post-Construction BMP Inspector
Certification Course



Master Pond Manager
Master Rain Gardener



HYBRID TRAINING





Certified Erosion Prevention and Sediment Inspector



Certified Stormwater Plan Reviewer



COVID-19 Pandemic

The COVID-19 pandemic resulted in the cancellation of all in-person training courses

These courses include certification and re-certifications as well as numerous educational programs throughout the state



COVID-19 Pandemic

Clemson Extensions goal had been to continue to provide our educational programs

Continue to delivering critical programs

Quality programs are essential

Timely offering is critical

We constantly evaluate, access, and adjust our programs to ensure we are meeting our goals

Think outside the box



Program Assessment

Identify program goals
Identifying our audiences
Identifying resources
Evaluate potential delivery options and issues



Audiences

Public agencies

State agencies (SC DHEC, SC DOT, etc.)

Local governments (Cities & Counties)

Organizations

HOA's

Professional groups

Business owners

Contractors

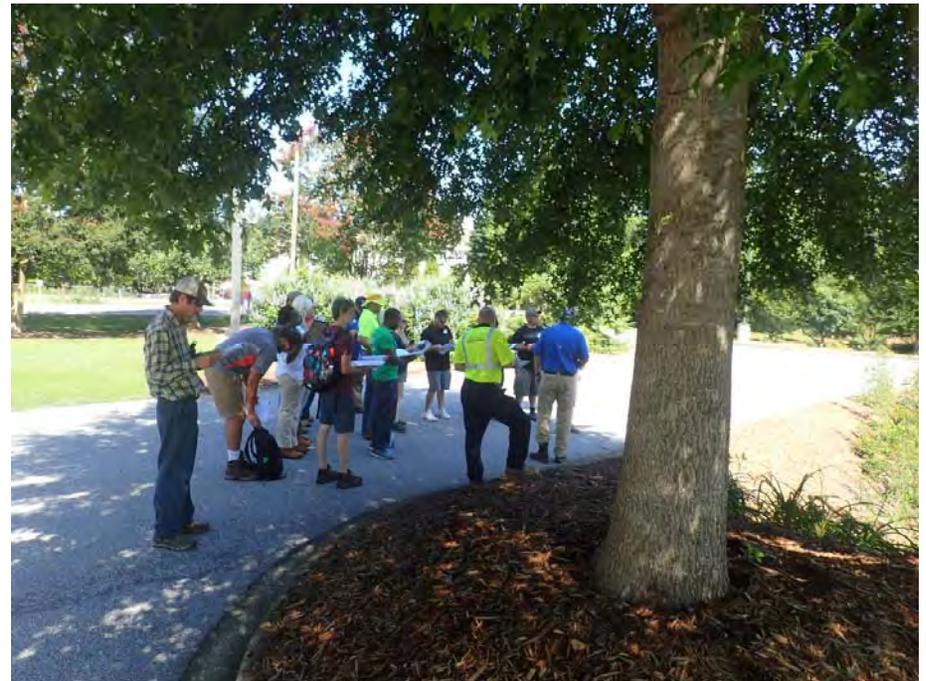
Consultants

Material suppliers

Equipment suppliers

Internal staff

Citizens of all ages



Assessment of Delivery Means



Instructors at different locations
Hardware and operating systems
(Mac, Windows - including editions)
Desktops, laptops, tablets, phones
Internet connectivity (speed and
band width)
IT restrictions within organizations
Backup planning (lose of connection)

Your Program Needs

Registration

Logins

Pre-recorded or live

Self paced or time specific

Attendance confirmation

Exams

Trial runs / rehearsals



Topic APCSP Fall 2020 Quarterly Consortium Meeting

Description Anderson & Pickens Counties Stormwater Partners virtual consortium meeting

Time Sep 16, 2020 10:00 AM in Eastern Time (US and Canada)



First Name*

Test

Last Name*

Registration

Potential Program Delivery Platforms

There are numerous
delivery means



Canvas

YouTube

Zoom

Remote Proctor Now



Canvas

Used for the hybrid, certification and re-certification courses

University students use it for classes assignments and contacting staff

The platform has a lot of options

Building requires a higher level of knowledge related to the software (IT assistance has been critical)

Online CEPSCI Recertification Course



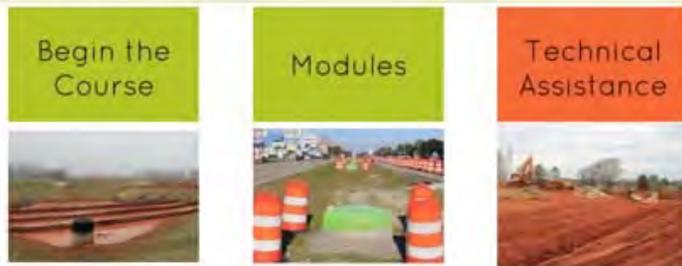
Welcome to **Online CEPSCI Recertification**, a self-paced online course developed by Clemson Extension, in cooperation with the SC Department of Health and Environmental Control. We are excited to have you participate!

In this course, there are four (4) modules, each of which is comprised of a series of pages. A page may be a presentation, a quiz, or an activity. You must progress through each module in order, but you can do so at your own pace, as long as you complete the material during the designated course timeframe.

To navigate through the course, use the buttons below. You will also find helpful links on the navigation bar on the left side. When you return to continue the course, click on [Modules](#) to locate the spot where you left off on your previous visit. We hope you enjoy the course!

Jeremy Pike
CEPSCI Program Coordinator

Calvin B. Sawyer, Ph.D.
CEPSCI Program Co-Coordinator



Canvas

Assignments

Module

Discussions

Grades

Quizzes

*Monitor attendance,
progress, and time*

Can be very interactive

Self paced

Insert videos

Lots of versatility

YouTube

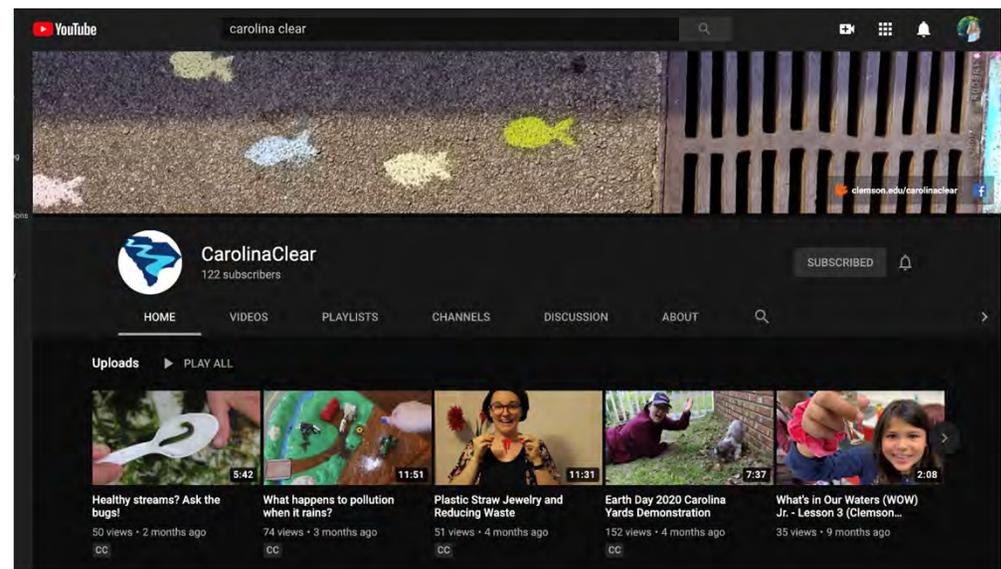
Short pre-recorded sessions

Easy to create

Open to whom ever

Options limited

Some entities block employees



Zoom

Being widely used for meeting,
training, and webinars

Simple to use

Can have connectivity issues

Band widths can be an issue

Requires pre-setup



Let's Get Started

- **Zoom overview**

- Mic and camera

- Asking questions

- We want you to ask questions when you have them!
- Use Chat icon and type in Question?
- Facilitators will notify instructor, then you'll be prompted to unmute your mic and ask the question



- Participant button

- Check display name and change if you like

Zoom Features



Chat room

Break-out rooms

Host and co-host

Share screen

Can poll and ask questions

Questions used to confirm attendance

Have monitors during presentations

Remote Proctor Now

Testing platform being utilized by the University for students

Software has some specific requirements

Monitored live during testing

Recorded for additional evaluation

Has automatic movements flags

Need to have rehearsals



Remote Proctor

System Requirements-Remote Proctor Now 

Posted by Andrew Haste, Last modified by Steven Mark Carabuena on 20 January 2020 12:39 PM

NOTE: Tablets, Hybrid Devices, and Mobile Devices are not supported.

Remote Proctor Now System Requirements:

RPNOW v4.x

Operating System	Required Plug-ins	Connection Speed	Date and Time	Other
Windows 8, 8.1, 10	Flash is NOT required	Minimum 300kb/s upload speed^ Satellite and Dial up connections are not supported	Accurate for your local time zone	.Net Framework is NOT required
MAC 10.12, 10.13, 10.14, 10.15	Flash is NOT required	Minimum 300kb/s upload speed^ Satellite and Dial up connections are not supported	Accurate for your local time zone	Windows OS not supported on MAC

Hardware requirements

Microphone

Camera

Must scan your surrounding

Summary

Virtual delivery can be achieved

Evaluate your audience
Select your platform
Preparation is essential
Expect issues

Extension water team successes
(March through August 2020)

19 webinars reaching 1,038 individuals
Numerous meeting (including entire consortiums)
Certification and re-certification programs
 5 distinct courses (some multiple times)
 Over 750 participants

Contact Information

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Questions???

