

CRI-SC

Community Resource Inventory Online

A mapping resource for South Carolina communities

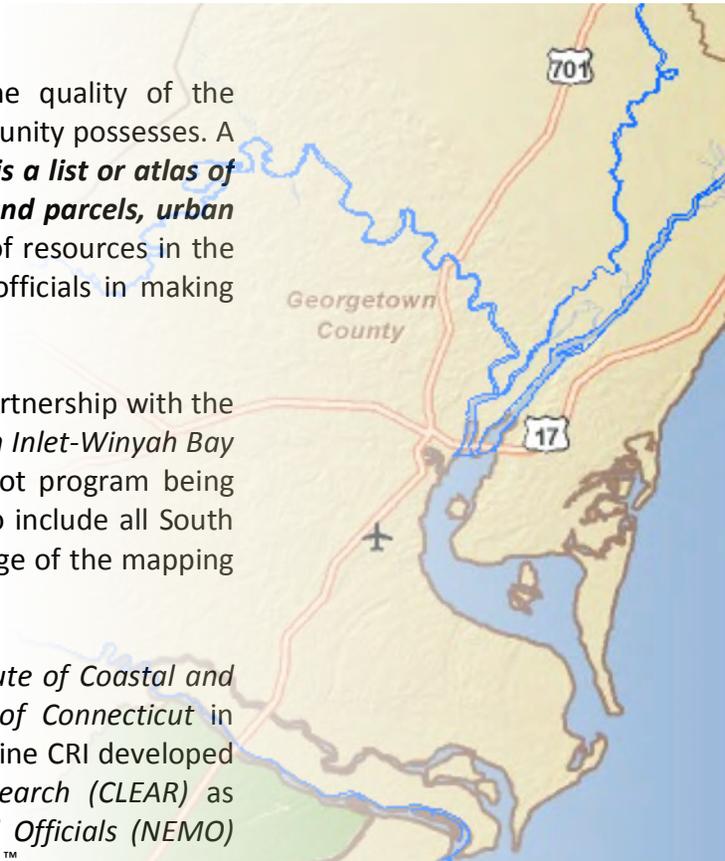
CRI-SC User Guide Introduction (updated July 2011)

<http://maps.clemson.edu/CRI/index.html>

In order to effectively plan for a community's future, while protecting the quality of the environment, officials need to have detailed knowledge of the resources a community possesses. A **Community Resource Inventory (CRI)** is the foundation of good planning. **A CRI is a list or atlas of the natural and cultural resources, as well as human dimensions data (e.g., land parcels, urban areas, streets and highways), in a community.** The CRI-SC tool presents a list of resources in the form of online map data. Having a detailed set of inventory maps will assist officials in making educated decisions about land use to maintain environmental integrity.

Clemson University's Baruch Institute of Coastal Ecology and Forest Science, in partnership with the S.C. NEMO Program, the S.C. Sea Grant Consortium, Carolina Clear and the North Inlet-Winyah Bay NERR, have developed an online CRI mapping tool. This initial version is a pilot program being tested for Georgetown County with the long-term goal of expanding the tool to include all South Carolina coastal counties. The purpose of this guide is to present the current stage of the mapping tool and provide instruction on its use.

Funding for this project was provided by a larger grant from Cooperative Institute of Coastal and Estuarine Environmental Technology (CICEET) as administered by University of Connecticut in cooperation with the S.C. Sea Grant Consortium. This project is based on the online CRI developed by the University of Connecticut's Center for Land Use Education and Research (CLEAR) as franchised in partnership with the National Nonpoint Education for Municipal Officials (NEMO) Network. Funding for GIS web mapping technology is provided by Intelligent River™.

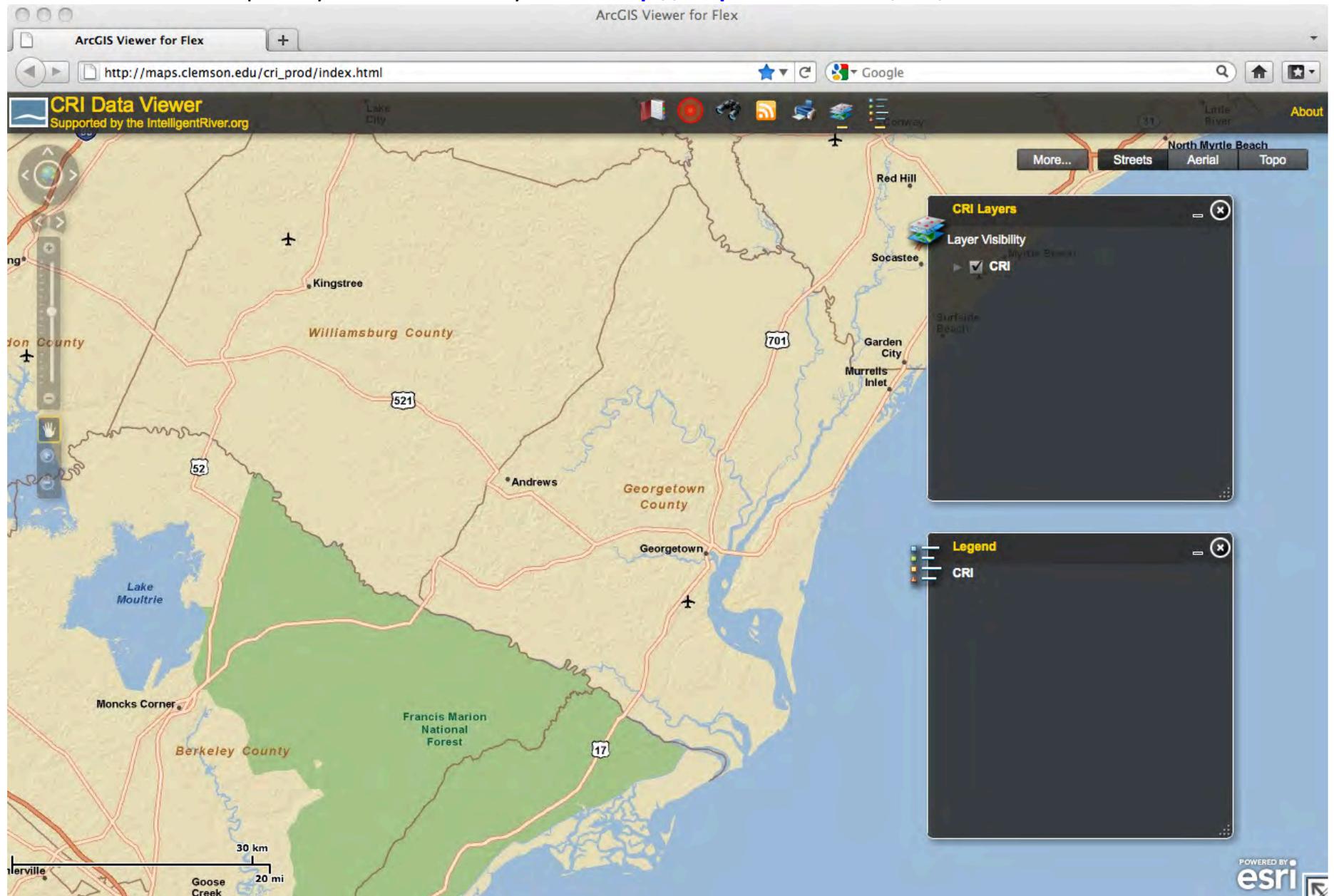


CRI-SC USER GUIDE INDEX

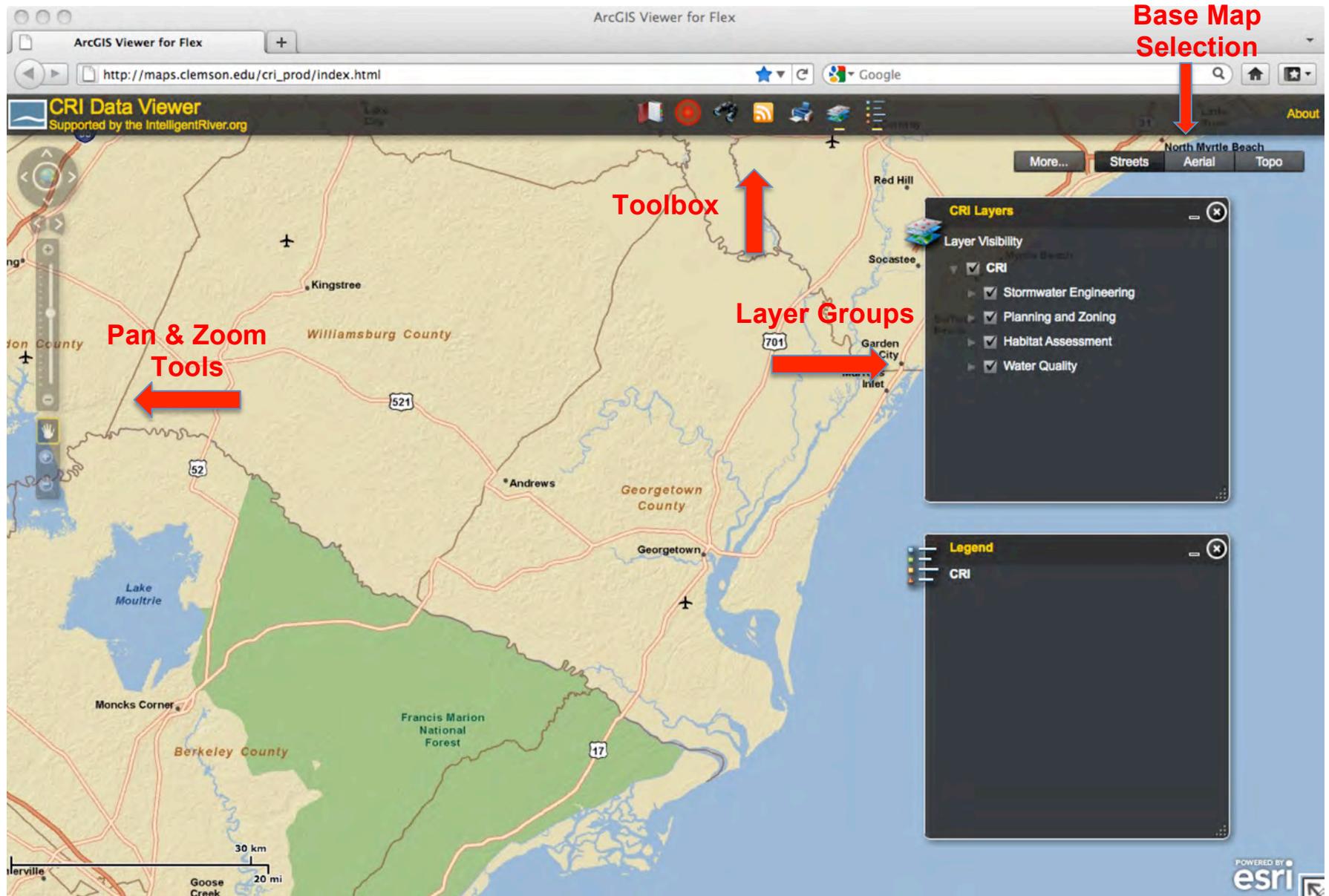
1. What does the online CRI-SC look like?	3
2. Basic Navigation	4
3. Base Maps	5
4. Toolbox Overview	6
a.  Bookmarks	6
b.  Find an Address	6
c.  Search	7
d.  Real-Time Data	8
e.  Print	9
f.  CRI Layers	10
g.  Legend	11
5. User Examples: How to make a map	12
6. FAQs	20

1. WHAT DOES THE ONLINE CRI-SC LOOK LIKE?

Screen view of the map tool you will see when you visit <http://maps.clemson.edu/CRI/index.html>



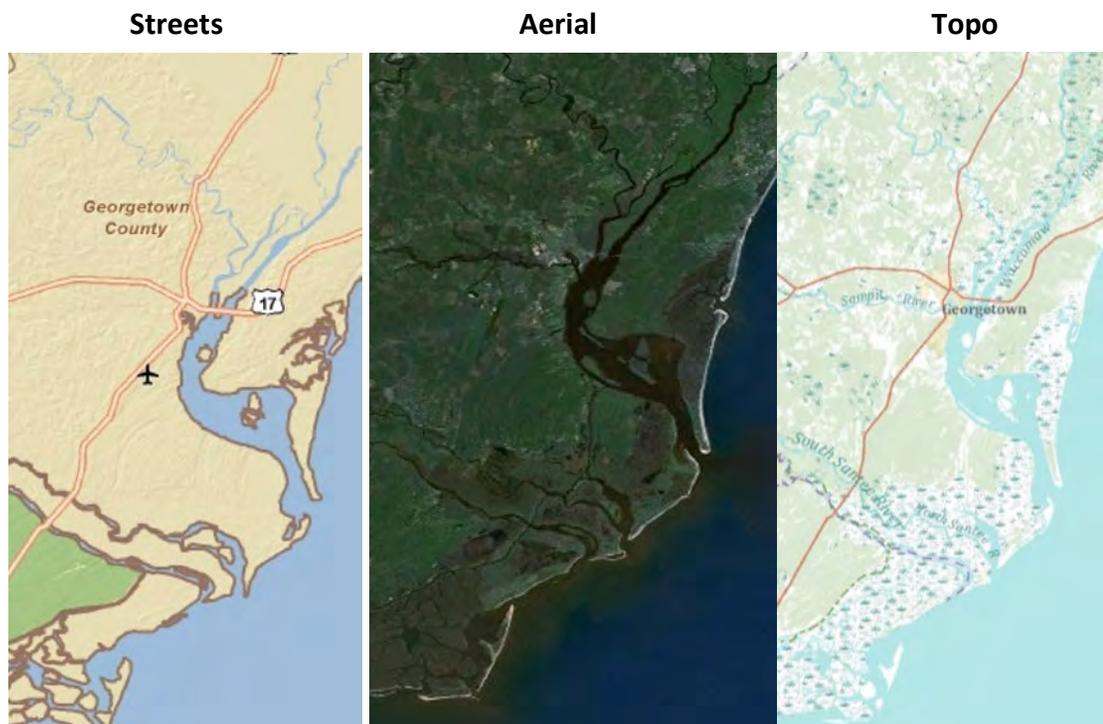
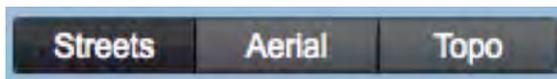
2. BASIC NAVIGATION



3. BASE MAPS

To begin learning to use the online CRI-SC tool, begin with **Base Maps**. There are three basic views you can select, depending on the view format you prefer.

- Direct your pointer to the upper right portion of the screen.
- Streets, Aerial and Topo are the three base map choices.
- Select each Base Map to view the differences (*see below images of views*).
 - Streets – select to view streets / roads
 - Aerial – select for satellite (aerial imagery) view
 - Topo – select for topographic view showing sub-scenes, including roads, elevation, wetlands and waterways



4. TOOLBOX OVERVIEW



a. - Bookmarks

The **Bookmarks** tool will allow the user to create quick links to a specific viewpoint. To **view** a Bookmark location, double-click on the selection. The screen will then scale to the view that was set for that point of interest.

To **create** a Bookmark:

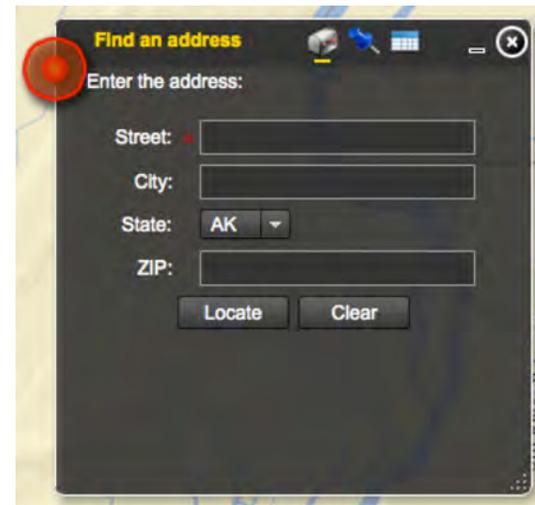
- Zoom in on the area of interest on the map
- Select the “Add Bookmark” icon
- Type in the new Bookmark name



b. - Find An Address

This tool allows you to pinpoint a specific address on the map.

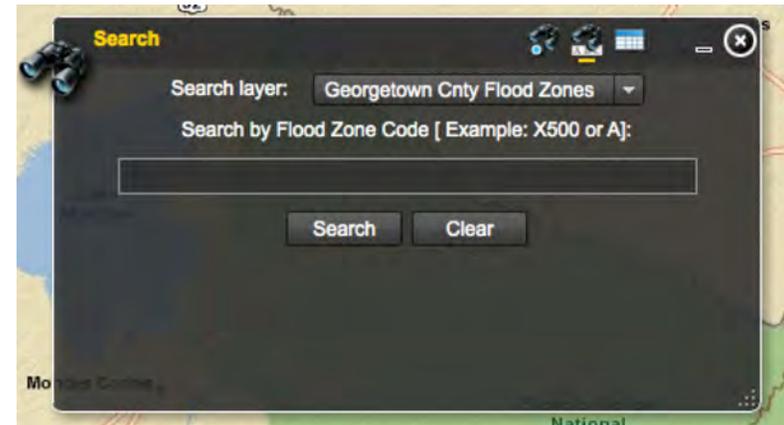
- Pinpoint a specific location with physical address (mailbox icon)
- OR longitude / latitude (pushpin icon)



TOOLBOX OVERVIEW (cont.)

c. - Search

- Use graphic tools to select areas and identify flood zones, parcels, soils (select a point, draw a line between two points, draw a box around an area or draw a polygon shape around an area)
- OR use text search to locate parcels by owner, specific flood zones or soils



TOOLBOX OVERVIEW (cont.)

d. - Real-Time Data

The 'Real-Time USGS Data' tool presents near real-time data from USGS monitoring equipment stationed throughout the state including data such as stream flow, stream gage height, reservoir level and ground water level.

- To view data from a USGS location, either select the orange icon box on the map OR select the platform name from the scrolling list under the open 'Real-Time USGS Data' box to the right of your screen
- To view all data details of the platform, select the orange arrow icon  and you will be linked in a new window to that platform's specific water data page on USGS's web site



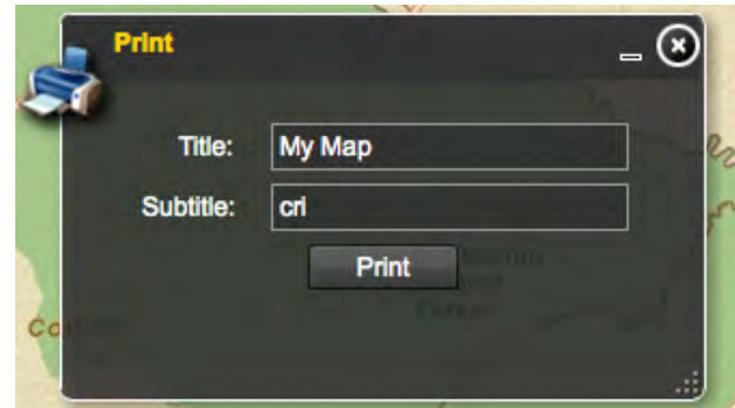
TOOLBOX OVERVIEW (cont.)

e.  - Print

Selecting the **Print** icon will allow the user to print the screen to their printer source or print to a PDF (if the user's computer has that functionality). When using this Print function, the toolbar and other icon screens will NOT appear on the printed map.

To **Print** a map:

- Select the Print icon
- A print queue box within the CRI tool will open on the screen
- Type in a map title and a subtitle and select the "print" button
- The print queue for your computer will open on the screen allowing the user to select their printer source and other options

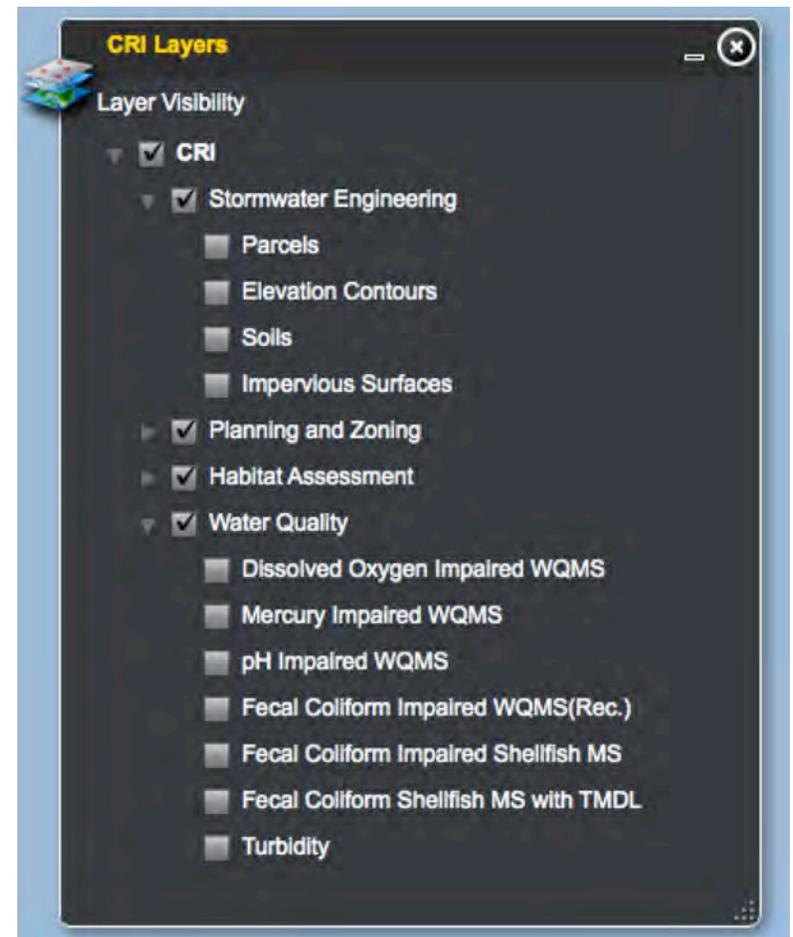


TOOLBOX OVERVIEW (cont.)

f. – CRI Layers

CRI Layers are the layers of collected data for your region including natural and cultural resources and human dimensions data. The CRI Layers menu box on your screen can be dragged anywhere on your screen by left clicking on the top banner part and dragging. And you can drag the lower right hand corner to make the menu box larger or smaller.

- There are four main layer groups
 - **Stormwater Engineering**
 - **Planning & Zoning**
 - **Habitat Assessment**
 - **Water Quality**
- Check the box next to the group layers you would like to view and click on the arrow next to the box to view the dropdown list
- Check the far left box next to the layer you would like to view
- Be sure to use the scroll bar to view the entire list of layers
- Use layers in moderation (some may cancel out others)



TOOLBOX OVERVIEW (cont.)

g.  – Legend

The legend menu box will show the assigned color or pattern to the layers selected for viewing. And like the CRI Layers menu box, the Legend menu box can be dragged anywhere on your screen by left clicking on the top banner part and dragging. And you can drag the lower right hand corner to make the menu box larger or smaller.



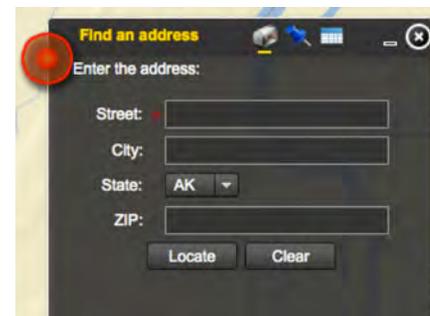
5. USER EXAMPLES: HOW TO MAKE A MAP

Below are some user examples that you may want to practice walking through to learn the utilization of the tools and the many types of maps you are able to create.

- “Locate an address on the map – specifically 716 Prince Street in Georgetown (County Admin Office).”
- “View parcels using the Satellite Map view.”
- “Find the owner of a specific parcel(s) OR find parcels owned by a specific owner.”
- “What flood zone is a parcel(s) in? OR where is a particular flood zone located?”
- “A user would like to identify what privately protected lands are in flood zones.”

“Locate an address on the map – specifically 716 Prince Street in Georgetown (County Admin Office).”

1. Select **Find an Address** icon 
2. A small window will open on the left side of your screen, into which you will type the address of the location you are searching for. In this case, “716 Prince Street, Georgetown, SC 29440”.
*By selecting the pushpin icon, you can search by **entering latitude / longitude**.*
3. Select the ‘Locate’ button at the bottom of the small window
4. The “Find an Address” icon will appear on the map to identify the location.
5. If you would like to bookmark this location, click on the **Bookmarks** icon
6. An additional small window will open
7. Click on the Book Icon with a Plus Sign  to add this location as a bookmark
8. The content of the window will change to read “Add current extent as bookmark named:”
9. Put in the name of the location you would like the point bookmarked as (i.e. Georgetown County Admin Office)
10. **PLEASE NOTE:** Although there are a few bookmarks that have been ‘standardized’ to show up on any user’s screen, any bookmarks that an individual user creates will ONLY be visible on their computer. Bookmarks must be created by the mapping tool administrator if they are to be viewed and accessed by all users.



“View parcels using the Aerial base map view.”

1. Refresh your screen to “clear” the map for a new inquiry
2. Also be sure to “unselect” all layers in the **CRI Layers** box
3. Select **Aerial** at the top right hand side of your screen
4. Go to the **CRI Layers** menu box, select **Planning and Zoning**, and then **Parcels**
5. Select the hand icon in the zoom tools on the left side of your screen, select a point on the map you would like to zoom in on and drag a box around the area

“Find the owner of a specific parcel(s) OR find parcels owned by a specific owner.”

1. “Clear” the map for a new inquiry by refreshing your screen
2. Select the **Search** tool (binoculars icon) at the top of your screen
3. Select “Georgetown Cnty Parcels” under ‘Search Layer’
4. Select the first set of binoculars in the top menu  to utilize the “Graphical Search” or the second pair to search by owner name
5. Use the  icon to select a specific parcel if searching using the graphical search tools
6. The search feature will return a name and address in the box
7. To begin another search, select the “Clear” button near the bottom of the menu window to clear the current search
- 8. The additional graphical search features can be used to select more than one parcel at a time by:**

a.) Drawing a line between two points: ,

- Select the icon and ‘left click mouse’ on the starting point of interest on the map
- Drag the mouse in the desired direction and when you have reached the ending location of interest, ‘double left click mouse’ to set the line and return search information in the open search box

b.) Drawing a box or square around an area: ,

- Select the icon but when you 'left click mouse' on the starting point of interest on the map – HOLD the left mouse button and drag a square of the area of interest and let go of the left mouse button when you have encompassed the area you desire
- Search information will then be returned in the open search box

c.) Encompassing a unique layout of parcels (select by polygon): 

- Select the icon and 'left click mouse' on the starting point of interest on the map
- Drag the mouse around the diameter of the area of interest WHILE 'left clicking mouse' to create corners
- When you have completed the shape over area of interest, 'double left click mouse' to return the search information in the open search box

9. Additionally, you can identify **all parcels owned by a specific owner** by starting back at step 7 above – but instead, selecting the second set of binoculars  for a "Text Search"
10. Select "Georgetown Cnty Parcels" under 'Search Layer'
11. In open field, type in the name of the owner you want to find parcels for – this can be a last or first name, and the search feature will also search partial names (i.e., will return "Johnson" if "John" is typed in)
12. The number of search returns will be identified in the search box with a scrolling list below it
13. To clear the 'locate' (pushpin images) and / or 'search' findings on the map, close the "Search" box by selecting the 'x' icon in the top right corner

"What flood zone is a parcel(s) in? OR where is a particular flood zone located?"

1. "Clear" the map for a new inquiry by refreshing your screen, the map will default back to "Streets" base map view
2. Also be sure to "unselect" all layers in the **CRI Layers** box

3. Check the arrow next to CRI and then Planning and Zoning, and select Parcels and Flood Zones
4. Use the zoom tool until you have reached the appropriate zoom level on the area of interest
5. Select the **Search** tool (binoculars icon)
6. Use the first set of binoculars  on the top right menu of the open 'Search' box to select a particular point or area on the map with the graphical tools to identify the Flood Zone the area(s) are in
7. Select "Georgetown Cnty Flood Zones" under 'Search Layer'
8. Use the  icon to select a specific parcel
9. The map will shade in the entire flood zone(s) that parcel is located in
10. To begin a new search inquiry, select the first set of binoculars  on the top right menu of the open 'Search' box and select the "Clear" button

11. The additional graphical search features can be used to select more than one parcel at a time by:

a.) Drawing a line between two points: ,

- Select the icon and 'left click mouse' on the starting point of interest on the map
- Drag the mouse in the desired direction and when you have reached the ending location of interest, 'double left click mouse' to set the line and return search information in the open search box

b.) Drawing a box or square around an area: ,

- Select the icon but when you 'left click mouse' on the starting point of interest on the map – HOLD the left mouse button and drag a square of the area of interest and let go of the left mouse button when you have encompassed the area you desire
- Search information will then be returned in the open search box

c.) Encompassing a unique layout of parcels (select by polygon): 

- Select the icon and ‘left click mouse’ on the starting point of interest on the map
 - Drag the mouse around the diameter of the area of interest WHILE ‘left clicking mouse’ to create corners
- When you have completed the shape over area of interest, ‘double left click mouse’ to return the search information in the open search box

12. Additionally, you can locate **where a particular Flood Zone is** on the map by going back to step 5 above, but instead selecting the second set of binoculars  on the top right hand menu of the open ‘Search’ box
13. Select “Georgetown Cnty Flood Zones” under ‘Search Layer’
14. Type in the name of the Flood Zone you want to see on the map and click on the “Search” button
15. The search box will return the feature zone selected and the zone will be shaded in with red fill on the map

“A user would like to identify privately protected lands that are in flood zones.”

1. Refresh your screen to clear the map
2. From the **CRI Layers** menu box, select **Flood Zones** and **Private Protected Lands**
5. Select the zoom in icon under the hand tool on left side of your screen and then drag a box around the area of private protected lands of interest
6. To identify the flood zones, select the **Search** tool, in the Search box that opens, select the first set of binoculars 
7. Select “Flood Zones” under ‘Search Layer’
8. Use the  icon to select a specific area
9. The map will return the outline of the entire flood zone(s) that parcel is located in and the Search box will return the name(s) of the Flood Zone

“What type of soil(s) is in a particular parcel?”

1. Refresh your screen to clear the map
 2. In the CRI Layers menu, select Stormwater Engineering, and then Parcels
 3. Select the **Search** tool
 4. Use the first set of binoculars  on the top right menu of the open Search box to use the graphical tools to pinpoint a parcel
 5. Select “Georgetown Cnty Soils” under ‘Search Layer’
 6. Use the  icon to select a specific parcel
 7. The map will return the outline of the soil type(s) located in that parcel and the soil types will be listed in the search box
 8. Select the first set of binoculars icon to clear the search and begin a new inquiry
-

9. The additional graphical search features can be used to select more than one parcel at a time by:

a.) Drawing a line between two points: ,

- Select the icon and ‘left click mouse’ on the starting point of interest on the map
- Drag the mouse in the desired direction and when you have reached the ending location of interest, ‘double left click mouse’ to set the line and return search information in the open search box

b.) Drawing a box or square around an area: ,

- Select the icon but when you ‘left click mouse’ on the starting point of interest on the map – HOLD the left mouse button and drag a square of the area of interest and let go of the left mouse button when you have encompassed the area you desire
- Search information will then be returned in the open search box

c.) Encompassing a unique layout of parcels (select by polygon): 

- Select the icon and 'left click mouse' on the starting point of interest on the map
 - Drag the mouse around the diameter of the area of interest WHILE 'left clicking mouse' to create corners
 - When you have completed the shape over area of interest, double 'left click mouse' to return the search information in the open search box
-

6. FAQs

How do I return to the original screen view that was loaded when I first started?

- Use the Refresh / Reload option on your browser

Can I refresh or reload a map I am currently working on?

- If you refresh, you will lose any data or maps you have been working on, as this will take you back to the initial start view (default view)
- If a layer is slow to load, or when you use the pan (hand icon) feature you don't see the layers you have selected – try clicking on the layer names again in the **Live Maps** drop down list

How do I save a map?

- To save a map, 'print' to or 'save as' a PDF document
- OR use 'save as' under the File drop down menu in your browser toolbar

Why can't I see the layer I just added?

- Allow a few minutes to load layers (i.e. depending on your Internet connection), it may not be instantaneous
- OR if you have multiple layers open, some may cover up others, so try less layers

How do I print a map?

- Once you have the layers in view that you need, select the **Globe (Map) Icon** again for the dropdown menu
- Select **Print** option

- Give your map an appropriate and descriptive title AND subtitle and select the print button