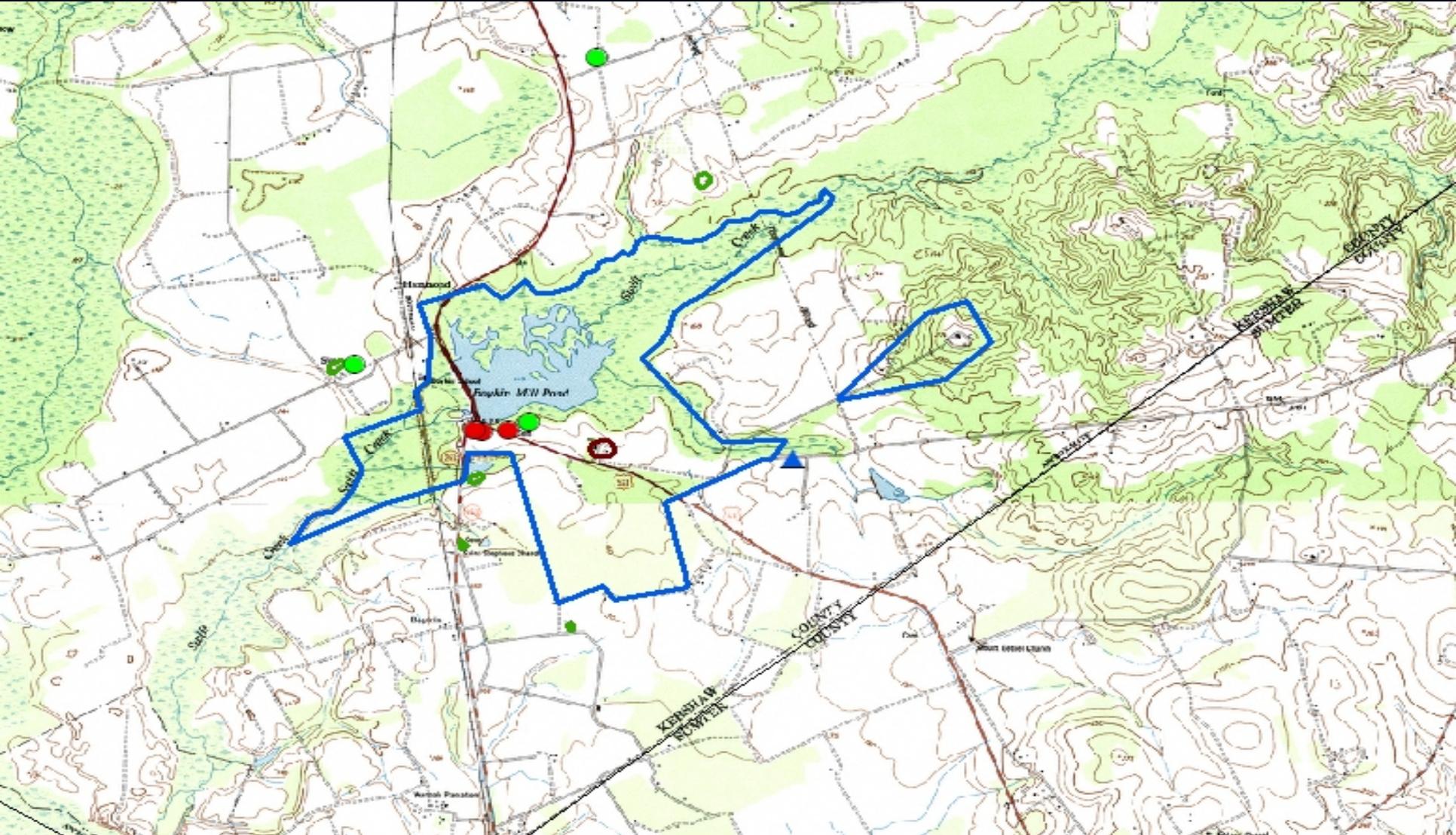
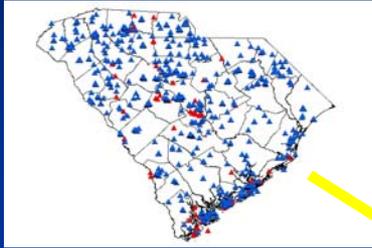


GIS And Electronic Survey Methods



South Carolina's Cultural Resource Information System



1996 CRIS

•FHWA/SCDOT Enhancement Funds

A screenshot of the 2009 ArchSite web application. The interface features a central map of South Carolina with county boundaries. Above the map is a toolbar with navigation and search icons. To the right is a 'Layers' panel with a list of data layers, including 'Archaeological Points', 'Archaeological Sites', 'National Register', 'Restricted National Register', 'Historic Structures Layers', 'Civil War Earthworks', 'Cultural Resource Surveys', 'Streets', 'SC 1:24,000 Quad Index', 'Cities', 'Water', and 'Physiographic Regions'. Below the map is a 'Zoom Out' instruction box and a 'Map Scale' indicator showing 1:2,940,849. The top of the page includes the South Carolina Institute of Archaeology and Anthropology logo and a user greeting: 'Welcome, Chad Long'.

2009 ArchSite



ArchSite/GIS Users

- Cultural Resource/Environmental Consultants
 - COGs/MPOs (Planners)
 - Federal and State Agencies
 - Banks/Real Estate Agents
- 

ArchSite Is Used Primarily To Conduct Background Research

SCIAA and SCDAH - Windows Internet Explorer

http://archsite.cas.sc.edu/ArchSite/(w34q0p55drqmkwfm5b20k555)/default.aspx

File Edit View Favorites Tools Help

SCIAA and SCDAH

SOUTH CAROLINA INSTITUTE OF ARCHAEOLOGY AND ANTHROPOLOGY
&
SOUTH CAROLINA DEPARTMENT OF ARCHIVES AND HISTORY

Welcome, Chad Long

Active Layer: Historic Structures

Layers
Locate
Query
Buffer
Results
Edit
Print Map

Buffer Steps

Step 1: Enter the distance you want to buffer the location.

1 Miles

Step 2: Check the layers that will be queried by the buffer. Layers appear in the list below only when the map is at a scale at which the layers can be viewed.

- Archaeological Points
- Archaeological Sites
- National Register Points
- National Register Polygons
- Restricted National Register Points
- Restricted National Register Polygons
- Historic Structures
- Historic Areas

Map Scale: 1: 33,361 Zoom To Map Scale

Measure Length: Displays the length of the line drawn on the map.

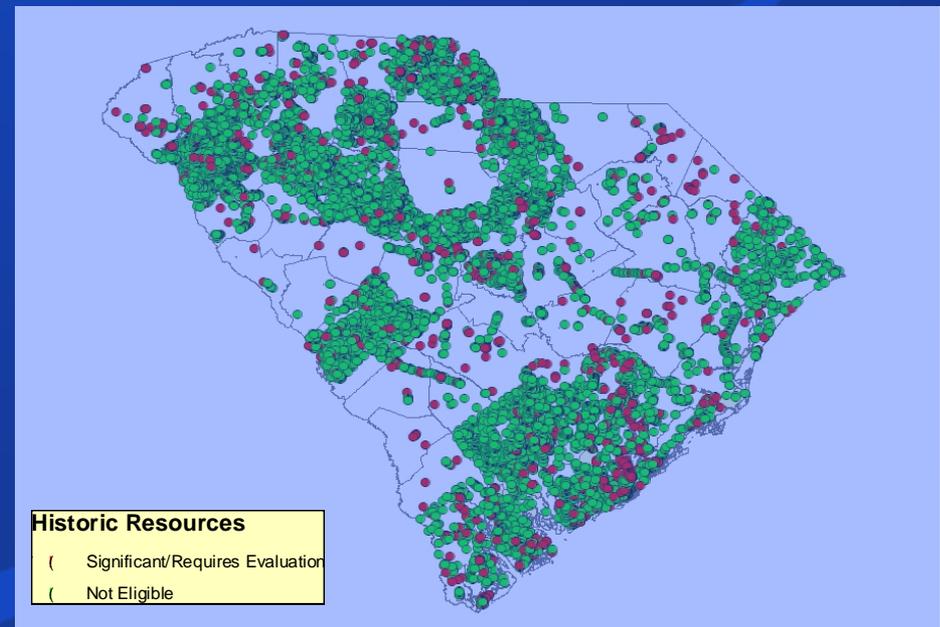


South Carolina's GIS Data for Historic Properties

- National Register Sites (1,200+)
- Historic Resources Data Layer (16,000+)
- Cultural Resource Survey Areas (2,300+)
- Archaeological Sites (25,000+)

Historic Resources Data Layer

- Countywide Architectural Surveys (14,000+)
- Review and Compliance (2,000+)
- National Register Program (200+)



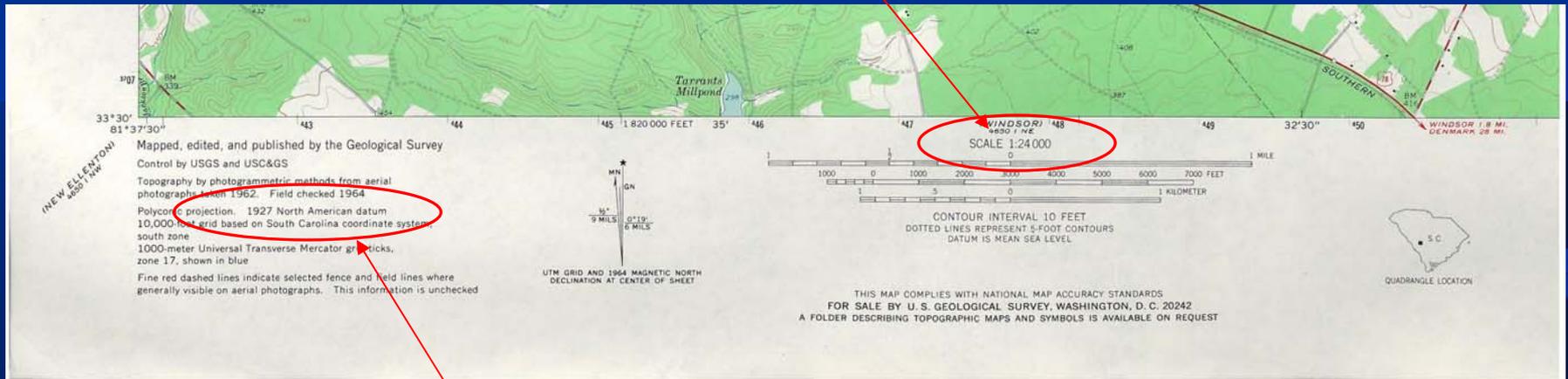
Attribute Data for Historic Resources Data Layer

Attributes of Historic_structures

Site Number	County Code	Resource Name	HR Eligibility	Date of Resource	Address	City	County	Report Title	Notes
0223	03	not named	Not Eligible	ca.1925	W side Two Notch Rd, 2	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1-1/2 story frame residence, Craft
0224	03	not named	Not Eligible	ca.1880	W side Whiskey Rd, 4	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0225	03	not named	Not Eligible	ca.1900	2145 Whiskey Rd	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0226	03	not named	Not Eligible	ca.1900	NW side unmarked road	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame farmhouse
0227	03	not named	Not Eligible	ca.1900	SE end CR 405, off SC	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0228	03	not named	Not Eligible	ca.1880	195 Whiskey Rd	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	2 story frame farmhouse; addition
0229	03	not named	Not Eligible	ca.1920	Middle of field between	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	remains of small cemetery located
0230	03	Coward Place	Not Eligible	ca.1915	3021 Old Powder Hous	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	2 story frame residence; rebuilt ca
0231	03	not named	Not Eligible	ca.1910	End of unmarked road o	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0232	03	not named	Not Eligible	1868	1560 Powder House Rd	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence; large bar
0233	03	not named	Not Eligible	ca.1850	W side Powder House	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame store building, const
0234	03	not named	Not Eligible	ca.1870	1048 Banks Mill Rd	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence; construc
0235	03	not named	Not Eligible	ca.1930	WY corner of int. of Pine	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0236	03	not named	Not Eligible	ca.1930	350 Cherokee St	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0237	03	not named	Not Eligible	ca.1925	351 Cherokee St	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0238	03	not named	Not Eligible	ca.1910	E side of Timberland La	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0239	03	not named	Not Eligible	ca.1850	E side of Timberland Ln,	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0240	03	not named	Not Eligible	ca.1925	E side Park Ave, 500 ft.	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0241	03	not named	Not Eligible	ca.1880	E side of unmarked rd, o	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0242	03	Holley House	Not Eligible	ca.1890	150 Pine Log Rd, SE	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence; construc
0243	03	not named	Not Eligible	ca.1870	S side Pine Log Rd, at E	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence; burned in
0244	03	not named	Not Eligible	ca.1870	S side SC 78, .1 mi. SW	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0245	03	not named	Not Eligible	1895	S side SC 78, opposite i	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1-1/2 story frame residence; Folk
0246	03	Jamorraine	worthy of furthe	ca.1850	S side SC 78, .1 mi. SE	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1-1/2 story frame residence; Gree
0247	03	not named	Not Eligible	1900	S side of SC 78, 400 ft	Montmorenci	Aiken	Aiken County, South Carolina Final Surv	1-1/2 story frame residence
0248	03	not named	Not Eligible	ca.1925	S side of SC 78, 900 ft	Montmorenci	Aiken	Aiken County, South Carolina Final Surv	1-1/2 story stuccoed masonry resi
0249	03	not named	Not Eligible	ca.1925	S side of SC 78, 200 ft	Montmorenci	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0250	03	not named	Not Eligible	ca.1870	W side of Dibble Rd, at	Montmorenci	Aiken	Aiken County, South Carolina Final Surv	2 story frame residence
0251	03	not named	Not Eligible	ca.1870	W side of Dibble Rd, 10	Montmorenci	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0252	03	not named	Not Eligible	ca.1870	E side SC 721, .1 mi. S o	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0253	03	not named	Not Eligible	ca.1910	W side Dibble Rd, .3 mi.	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0254	03	not named	Not Eligible	ca.1915	E side unmarked rd, off	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0255	03	not named	Not Eligible	ca.1915	W side Dibble Rd, 1.0 mi	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	Small family cemetery located on h
0256	03	Mt. Harris Cemetery	Not Eligible	ca.1900	E side Banks Mill Rd, 10	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	Covers approx. 2-1-2 acres
0257	03	Laurens Farm	Eligible	ca.1870	1907 Banks Mill Road	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0258	03	C.B. Woolsey House	Eligible	1907	End of unmarked rd off	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	2 story frame residence; land bou
0259	03	Hopeland Farm	Not Eligible	ca.1870	E side Ansley Dr, 750 ft	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	2 story frame residence; construc
0260	03	not named	Not Eligible	ca.1880	E side of Banks Mill Rd,	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0261	03	not named	Not Eligible	ca.1890	E end of CR 304, .45 mi.	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0262	03	not named	Not Eligible	ca.1925	1959 Whiskey Rd	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1-1/2 story frame residence
0263	03	not named	Not Eligible	ca.1900	713 Crenshaw Dr	Aiken vic.	Aiken	Aiken County, South Carolina Final Surv	1 story frame residence
0454	07	unidentified house	Not Eligible	ca. 1880	519 McGukey Rd.		Anderson	Historical and Architectural Survey of A	<Null>
0455	07	unidentified house	Not Eligible	ca. 1900	132 E.W. Reeves Rd.		Anderson	Historical and Architectural Survey of A	<Null>
0474	07	unidentified house	Not Eligible	ca. 1920-30	5613 SC 187		Anderson	Historical and Architectural Survey of A	<Null>
0477	07	unidentified house	Not Eligible	ca. 1870	at the end of C13 26C		Anderson	Historical and Architectural Survey of A	<Null>
0476	07	unidentified house	Not Eligible	ca. 1900	620 Wakefield Rd.		Anderson	Historical and Architectural Survey of A	<Null>
0475	07	unidentified house	Not Eligible	ca. 1920-30	3003 SC 181		Anderson	Historical and Architectural Survey of A	<Null>

Methods

•7.5 MINUTE QUAD MAPS (1:24,000 SCALE)



•PROJECTION: UTM NAD 27 (ZONE 17)



Digitizing Workflow at SCGDAH

Digitizing Workflow at SCDAH

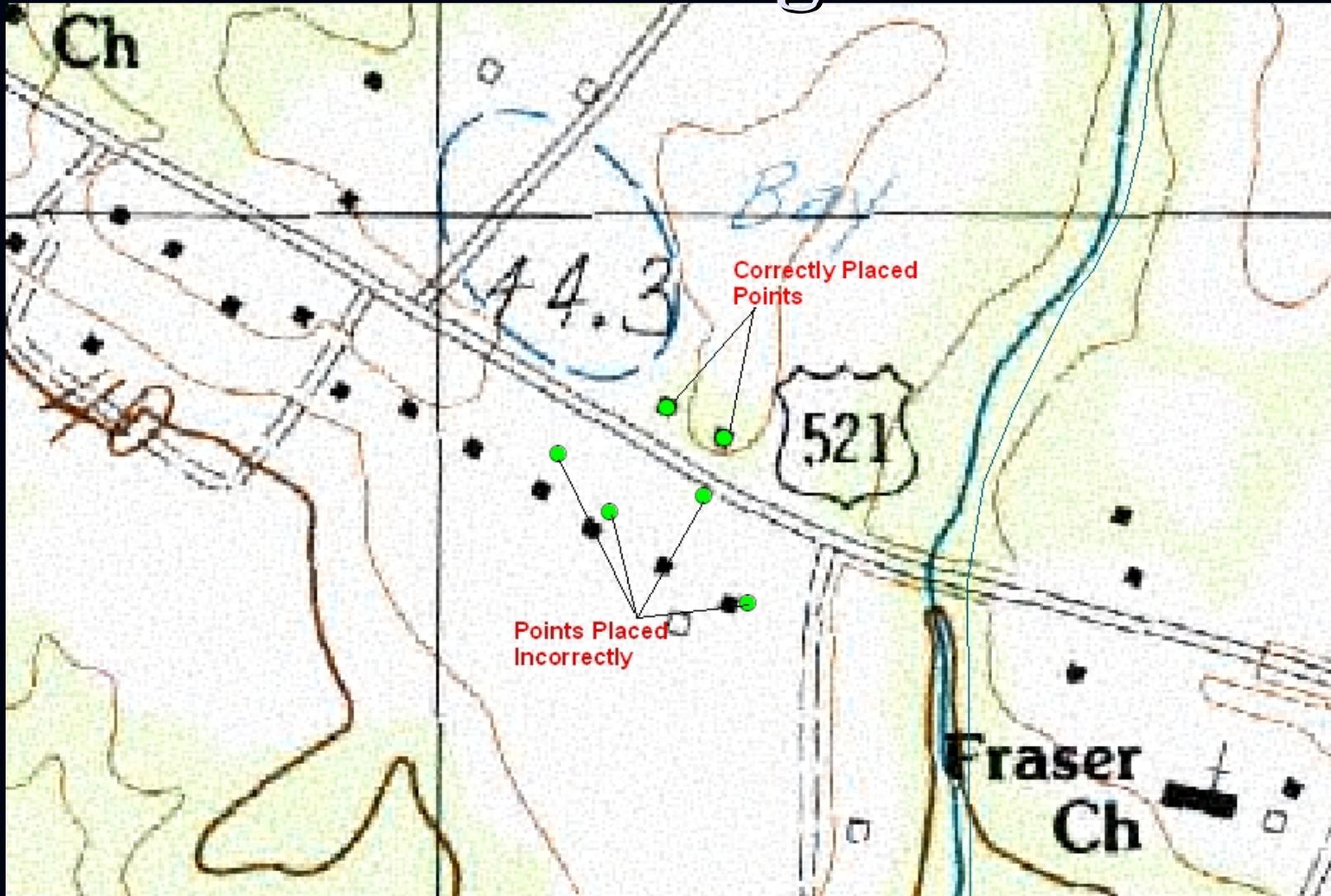
Properties are identified on USGS
Topo map (hard copy)

Properties are digitized on-screen
using scanned topo maps as a
background image

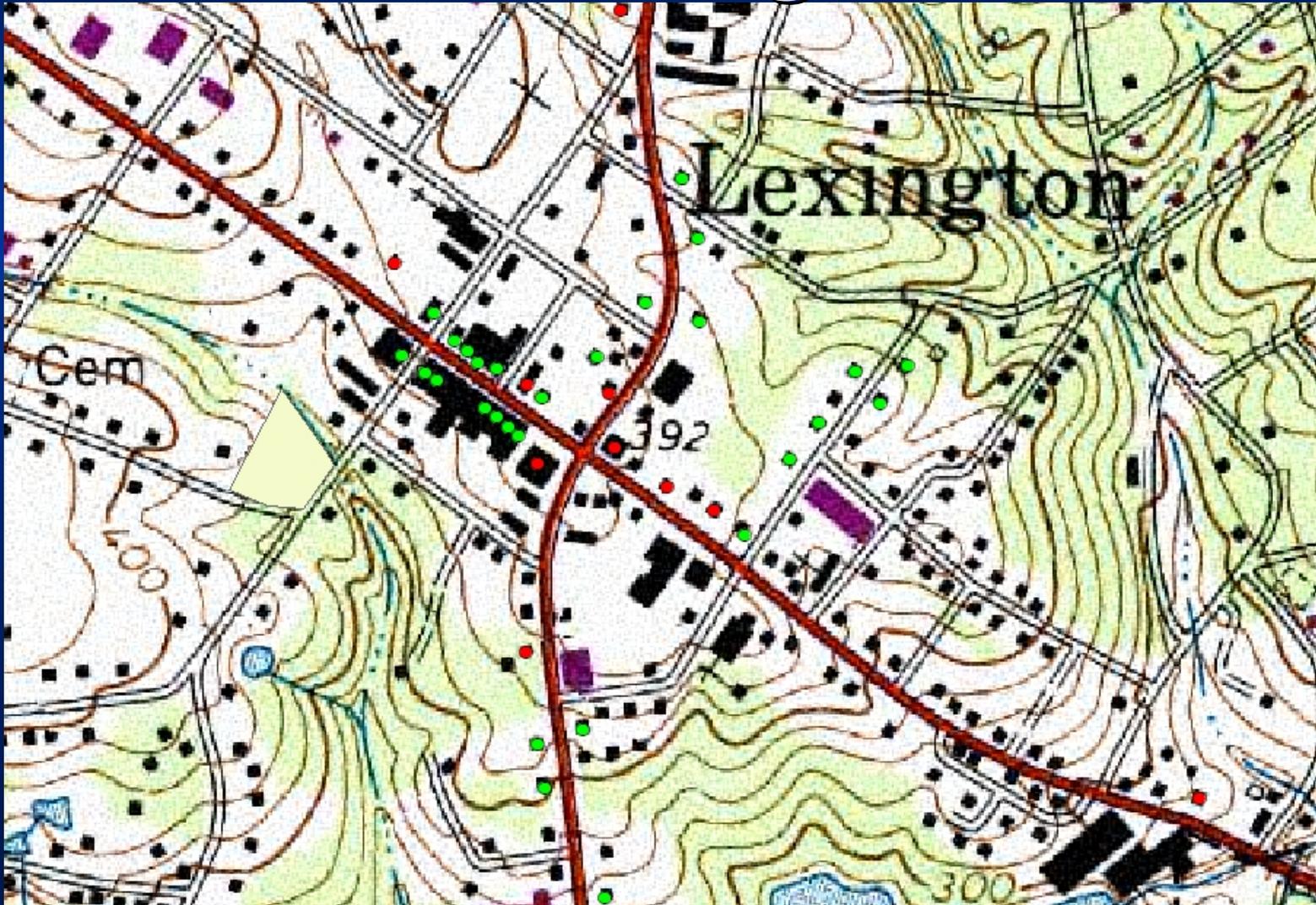
Attribute data is entered



Precise Structure Locations in Rural Settings



Specific Buildings Within Urban Settings

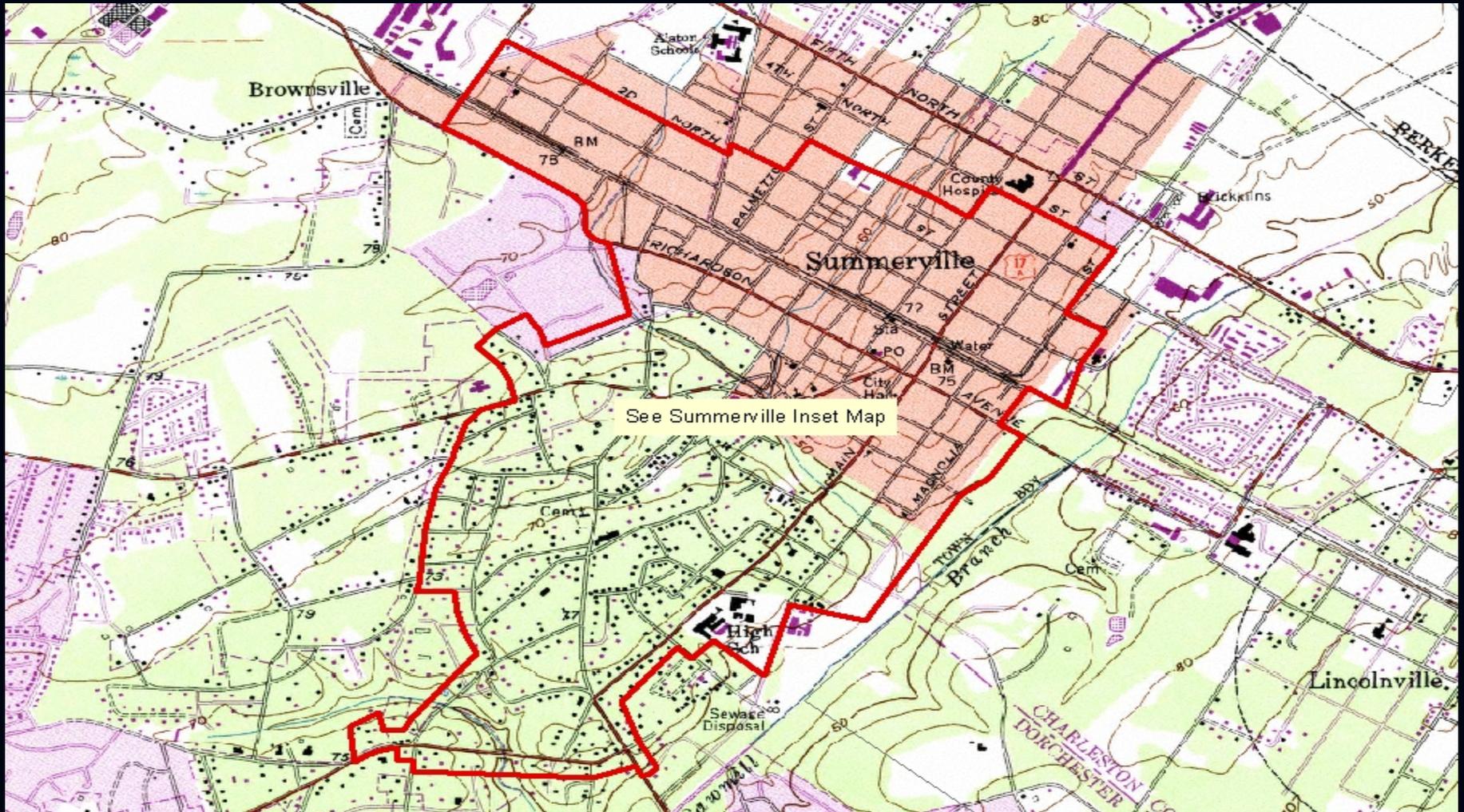




Orthophotography Used To Identify Commercial Buildings

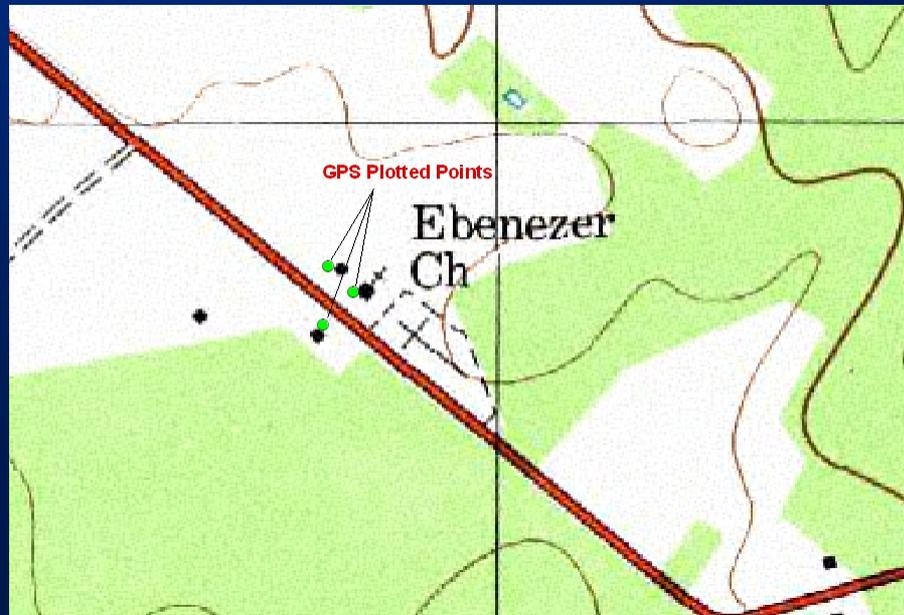


Polygon Boundaries Used When Plotting Individual Points Not Feasible



MAPPING ACCURACY

- USGS 1:24,000 Scale Map Has a Horizontal Map Accuracy Standard of 40 Feet (1/50")
- Accuracy of GPS Receivers ranges from 15 meters to <1 meter

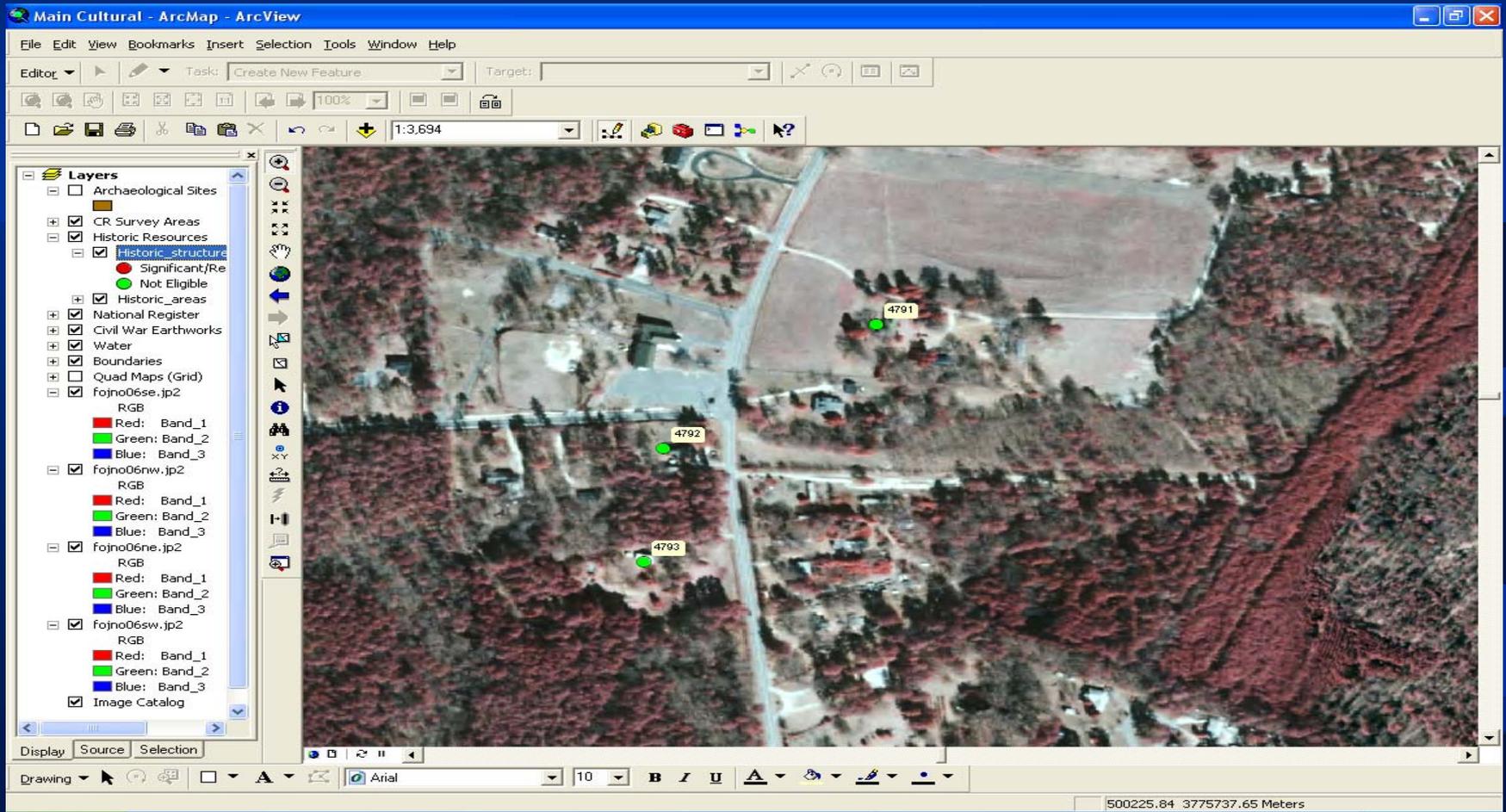




TOOLS TO HELP WITH MAPPING

- ORTHOPHOTOGRAPHY (SCDNR)
- ON-LINE COUNTY PROPERTY INFORMATION SYSTEMS
- GPS POINTS
- GOOGLE EARTH/VIRTUAL EARTH

ORTHOPHOTOGRAPHY



ON-LINE COUNTY PROPERTY INFORMATION SYSTEMS

Georgetown: Powered By Freance 5.1.0.2732 - TDC Group Inc. - Windows Internet Explorer

http://gismap.georgetowncountysc.org/Freance/Client/PublicAccess1/index.html?appconfig=Georgetown

File Edit View Favorites Tools Help

Georgetown: Powered By Freance 5.1.0.2732 - TDC...

freance

Tax Map | Zoning Map | Flood Map | Voting/Political

Mapping Search

Click here to log in

- CC Overlay Zone
- Future Landuse
- Flood Zones
- Flood Baselines
- Flood Base Elevations
- Hurricane Surge
- Windspeed potential
- Earthquake Zones
- Soils
- Wetlands
- USGS Quads
- Tile Index
- Impervious Surface
- Lower Waccamaw/Pee Dee Nautical
- Upper Waccamaw/Pee Dee Nautical
- Murrells Inlet Nautical
- Winyah Bay Nautical
- Aerial Photos-2009
- Aerial Photos-2007 Boundary Re-fly
- Aerial Photos-2006 Infrared
- Aerial Photos-2005
- Aerial Photos-1999
- Aerial Photos-1994 Infrared
- County Boundary
- Flood Base Elevations
- Flood Baselines
- Aerial Photos-2009

Update Map

Site Information

Done Internet 100%

Map Tool Options

The current cursor mode is set to 'Zoom In'. Clicking on the map directly will zoom in on the map centered at the point clicked. Dragging on the map will create a 'Zoom Window' which will be used to approximate the new extent of the map.

Active Tool: Zoom In

GOOGLE MAPS

Yemassee, SC - Google Maps - Windows Internet Explorer

http://maps.google.com/maps?hl=en&tab=wl

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188 Yemassee Hwy, Yemassee, SC, United States
Address is approximate



Yemassee Hwy



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VIRTUAL EARTH

Bing Maps - Windows Internet Explorer

http://www.bing.com/maps/?mapurl=http://bbs.keyhole.com/ubb/download.php?Number&adlt=strict#JnE9eXAuWUVNQNTRUUIImMrU0MIN2Vzc3Qut

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Internet 100%



GPS USE

- GPS DATA SHOULD BE POST-PROCESSED
- GPS POINTS SHOULD BE TAKEN AS CLOSE AS POSSIBLE TO THE ACTUAL STRUCTURES
- ALL GPS POINTS SHOULD BE VALIDATED WITHIN GIS TO ENSURE ALIGNMENT WITH TOPOGRAPHIC FEATURES



GPS DATA





SCDAH'S GIS DATA REQUIREMENTS

- ALL DATA SHOULD BE PROJECTED IN UTM NAD 27 (ZONE 17)
- DIGITIZED LOCATIONS SHOULD BE QA/QC'd for ACCURACY
- ATTRIBUTE DATA SHOULD BE ENTERED FOR REQUIRED FIELDS

Questions?

