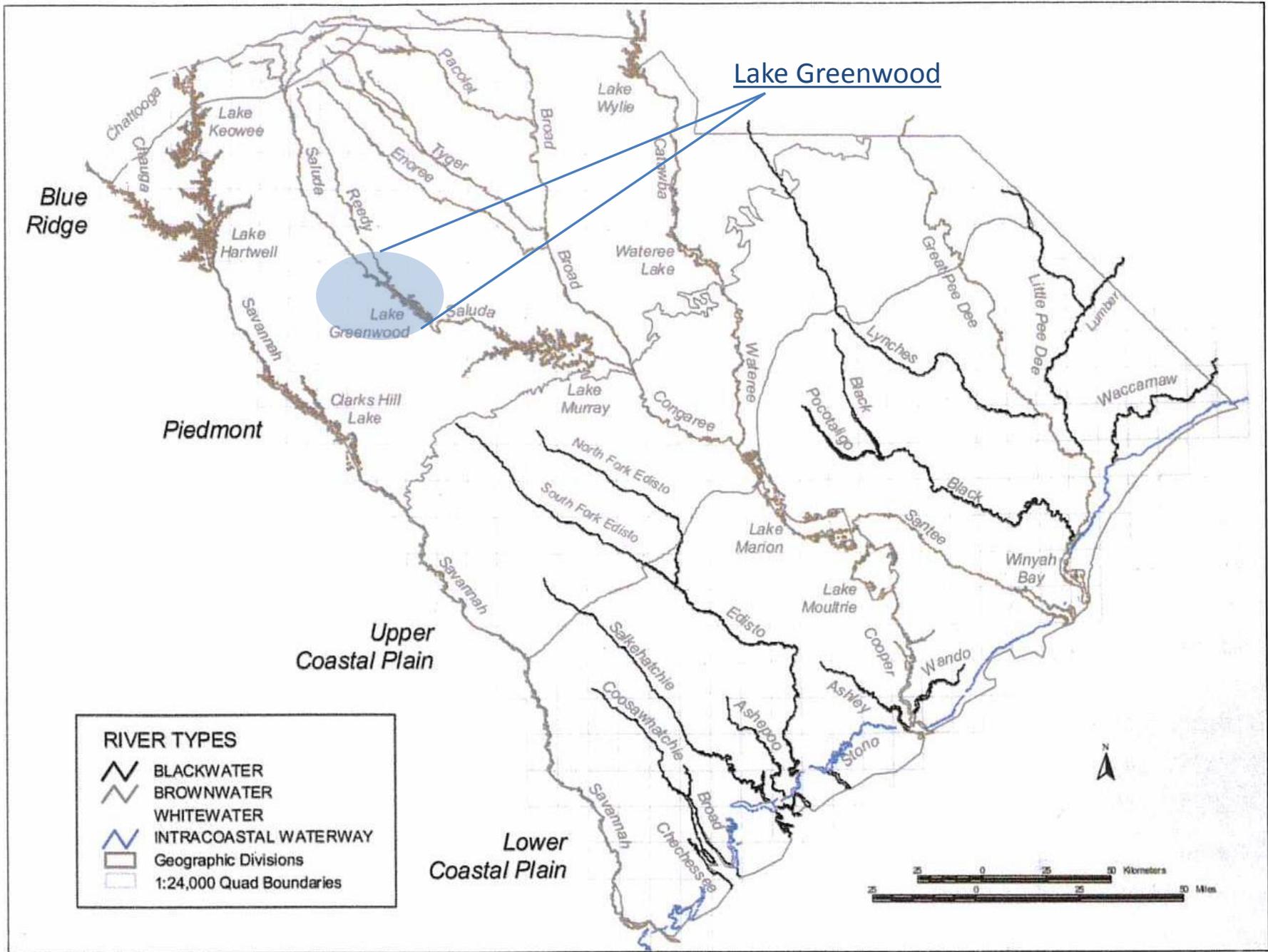
An aerial photograph of Lake Greenwood, South Carolina, showing the lake's winding shoreline, surrounding forested hills, and a small building complex near the water's edge. The image is in grayscale and serves as a background for the text.

Environmental Stewardship: Lake Greenwood

Julie M Davis, CLM, MPPA
Greenwood County Lake Manager
Lake Greenwood, SC

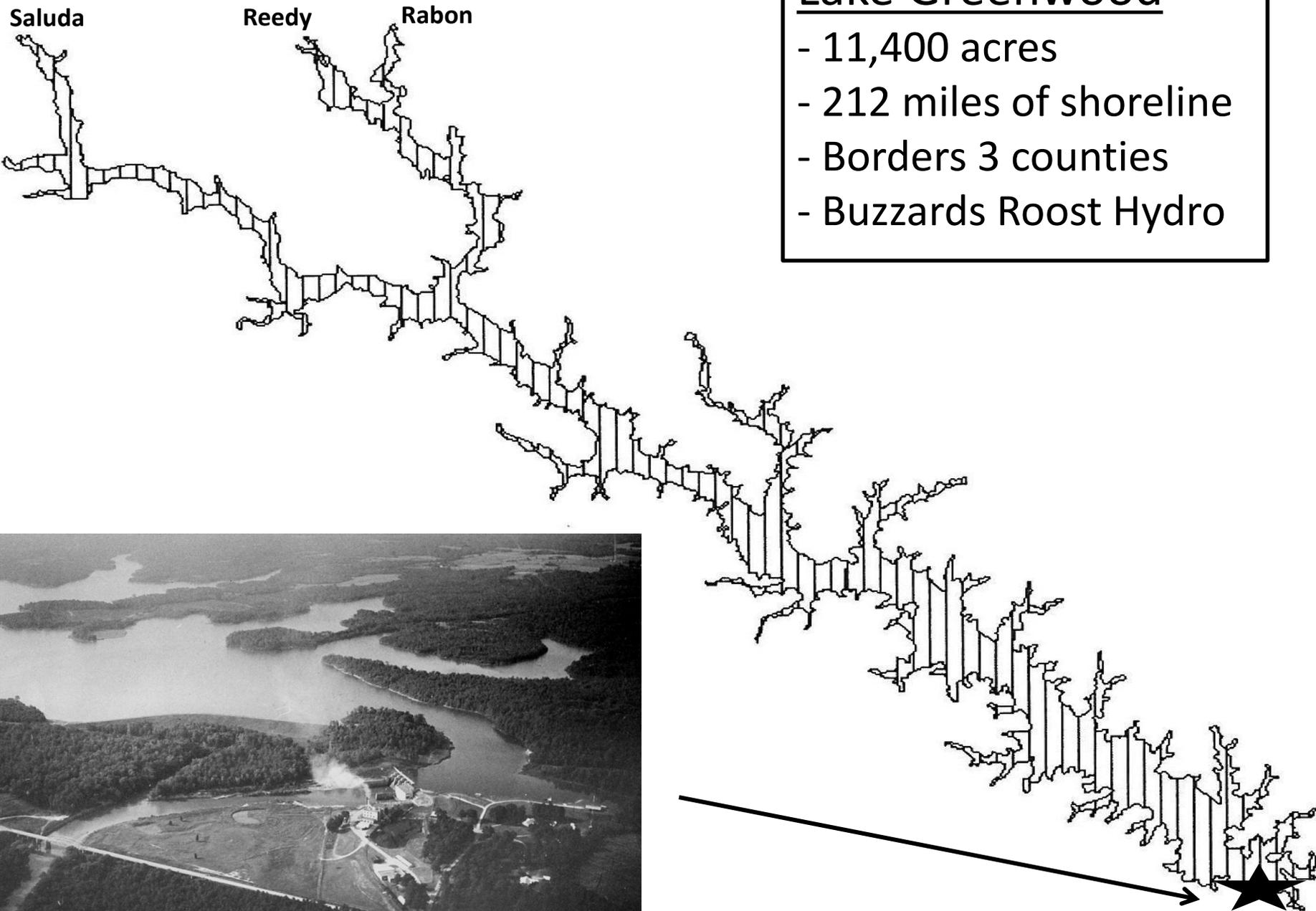


Lake Greenwood is located approximately halfway down the Saluda River, and is fed primarily by the Saluda and Reedy Rivers. Other tributaries include Turkey Creek, Mulberry Branch, Rabon Creek, and Cane Creek.

In 1930s Greenwood County purchased land in 3 counties, Greenwood, Laurens, and Newberry, for the purpose of creating the Hydroelectric project. Buzzards Roost Hydro was built in 1941. Greenwood County owns all lands under Lake Greenwood and up to the 440', in general.

Lake Greenwood is a FERC licensed project, a SC State Navigable Waterway, and the land under the water is owned by Greenwood County. In such, the County has to follow FERC requirements, our State General Permit, and our County regulations.





Saluda

Reedy

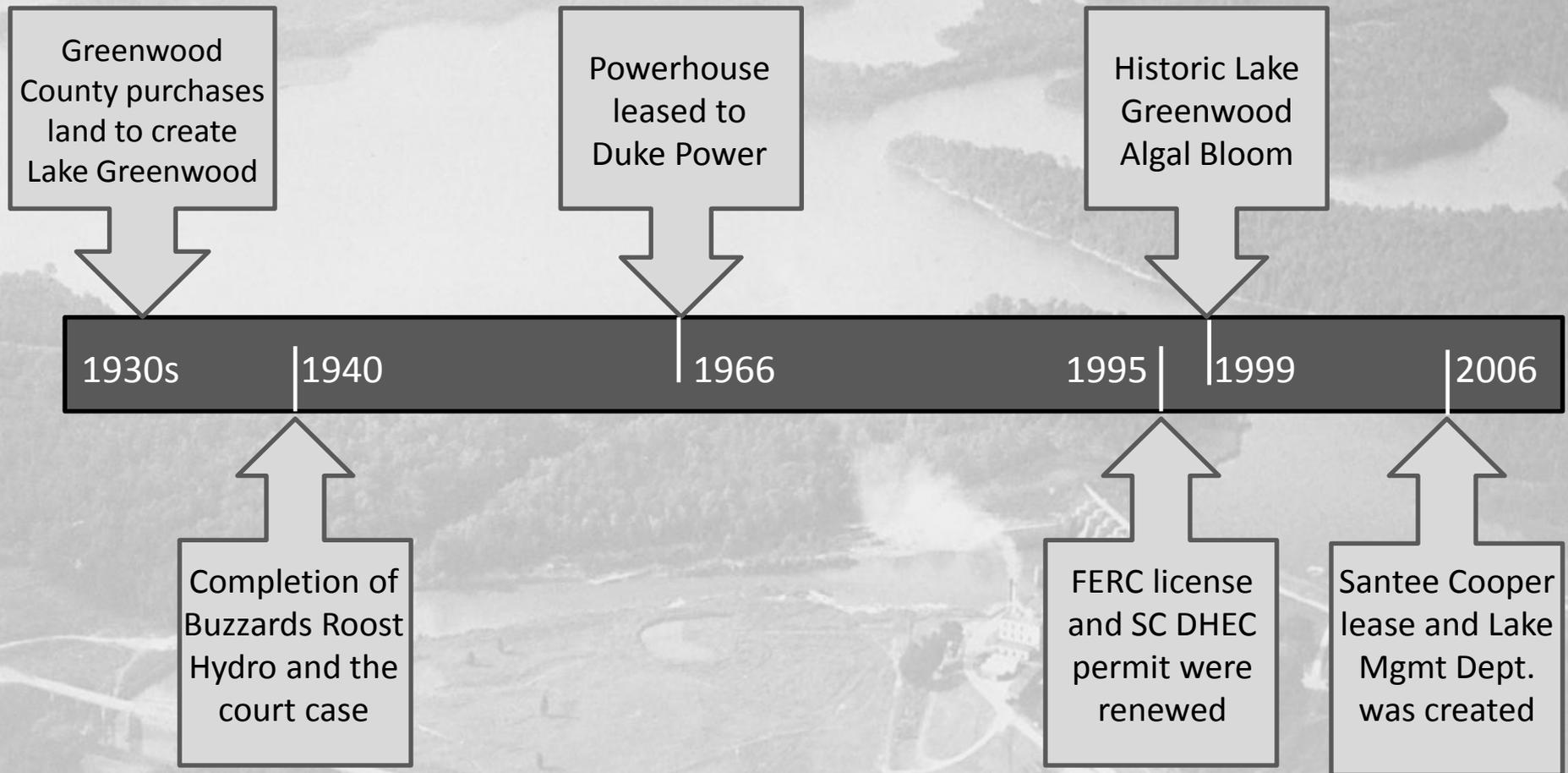
Rabon

Lake Greenwood

- 11,400 acres
- 212 miles of shoreline
- Borders 3 counties
- Buzzards Roost Hydro



Brief Timeline of Lake Greenwood



Lake Management Department

- With requirements of FERC and under State GP, Lake Management Department was created in 2006. (Staff of 5.)
- Handle everything from encroachment permits, inspections of encroachments, lake log removal, mosquito spraying, aquatic weed management, cultural resources management plan, public boat ramp and access maintenance, island camping, maintenance of earthen dam, and homeowner education.
- ***Education is essential to influence and direct behaviors in order to protect our natural resources!***



General Homeowner Education

- 1). Importance of proper fertilizer application.
 - Studies show that one pound of phosphorus can result in 500 pounds of algae growth.
- 2). Proper disposal of household hazardous waste.
 - A Lexington County Report stated that oil from a faulty automobile engine on average can produce an 8 acre oil slick.
- 3). Importance of proper septic maintenance.
 - An EPA model estimates that one malfunctioning septic system can release approx. 12 pounds of phosphorus to a watershed in one year's time.
- 4). Buffer zone benefits.
 - Wetlands filter sediments and excessive nutrients.



Specific Environment Plan : Aquatic Invasives

- Aquatic Invasive Plant Management Plan



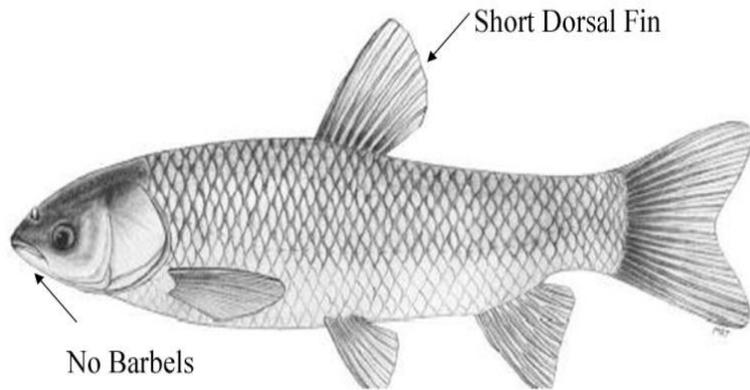
Integrated Aquatic Plant
Management is
important!!



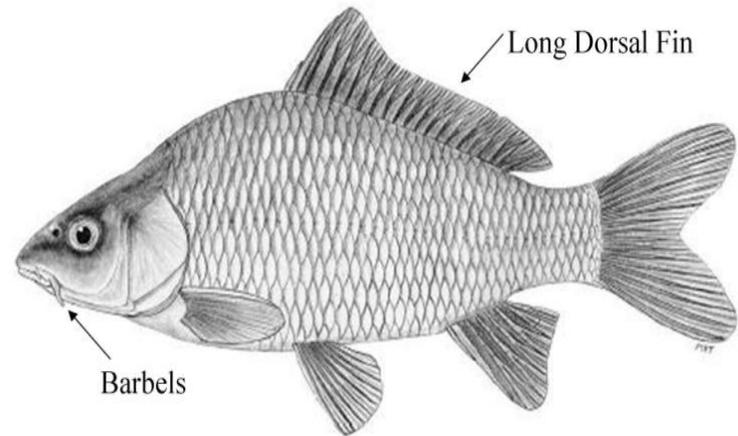
Chemical, Biological and Physical
treatment options



THIS WATERBODY IS STOCKED WITH
STERILE TRIPLOID GRASS CARP
FOR THE CONTROL OF AQUATIC WEEDS



Triploid Grass Carp



Common Carp

State Law Section 50-13-1630(D); It is unlawful to take grass carp from waters stocked as permitted by this section. Grass carp caught must be returned to the water immediately. Any bow hunting of grass carp will be classified as “take”.

SCDNR
Aquatic Nuisance Species Program



DNR

Specific Environment Plan: Mosquito Control

- In 2006, Lake Management took over efforts for mosquito control and education of lake front property owners.



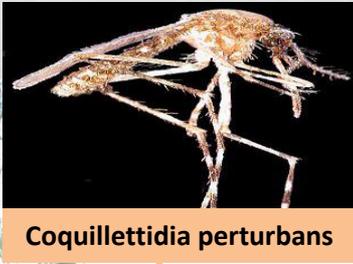
Efforts include:

- Small scale program of larviciding to help control nuisance populations of lake-breeding mosquitoes.
- Spray boat operation with larvicide VectoBac and Altosid briquettes.
- Treat areas usually middle/end of April through October, depending upon weather.
- Program helps control some of the mosquitoes within the project boundary. However, container-breeding populations are a problem.

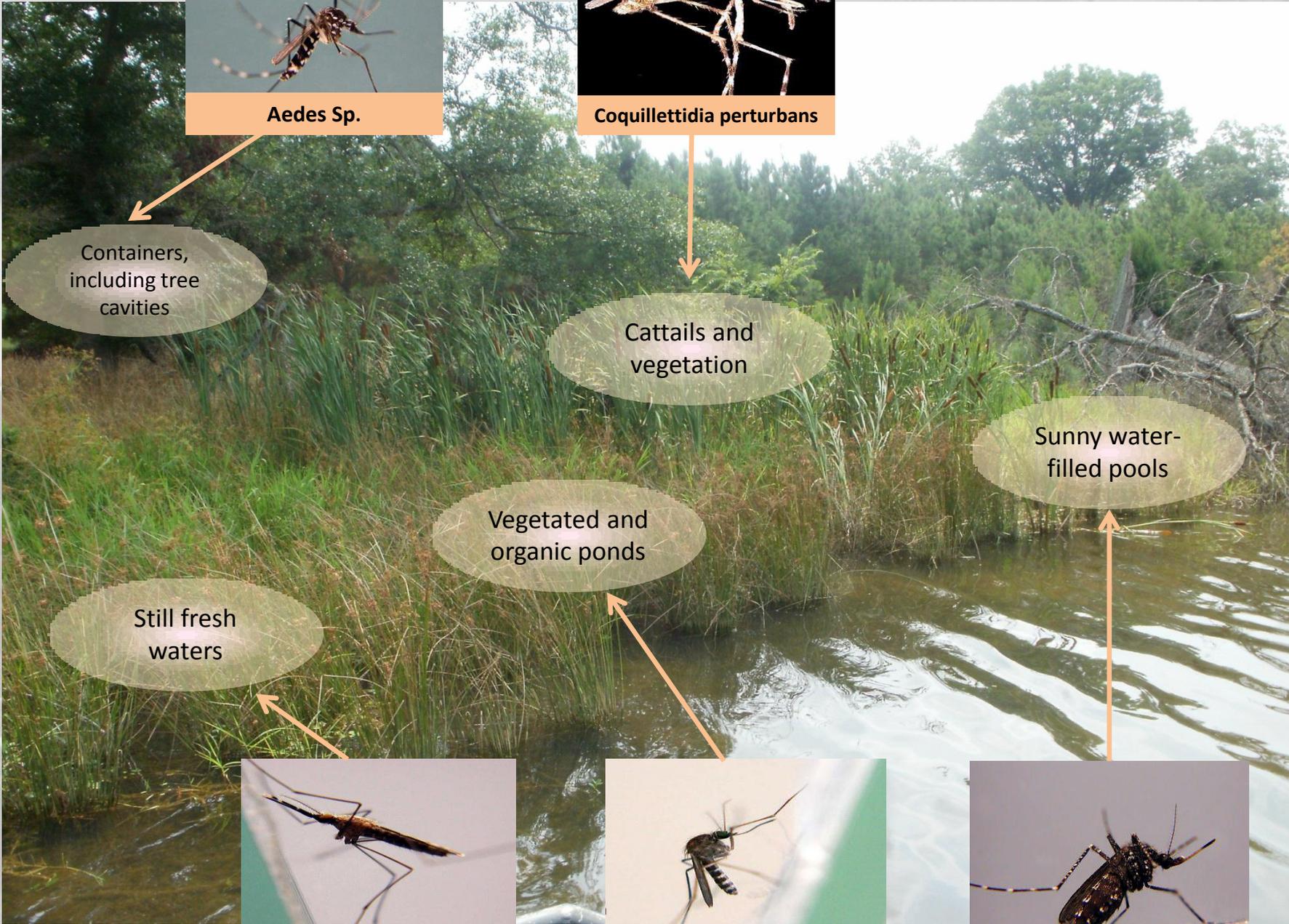




Aedes Sp.



Coquillettidia perturbans



Containers,
including tree
cavities

Cattails and
vegetation

Sunny water-
filled pools

Vegetated and
organic ponds

Still fresh
waters



Anopheles Crucians



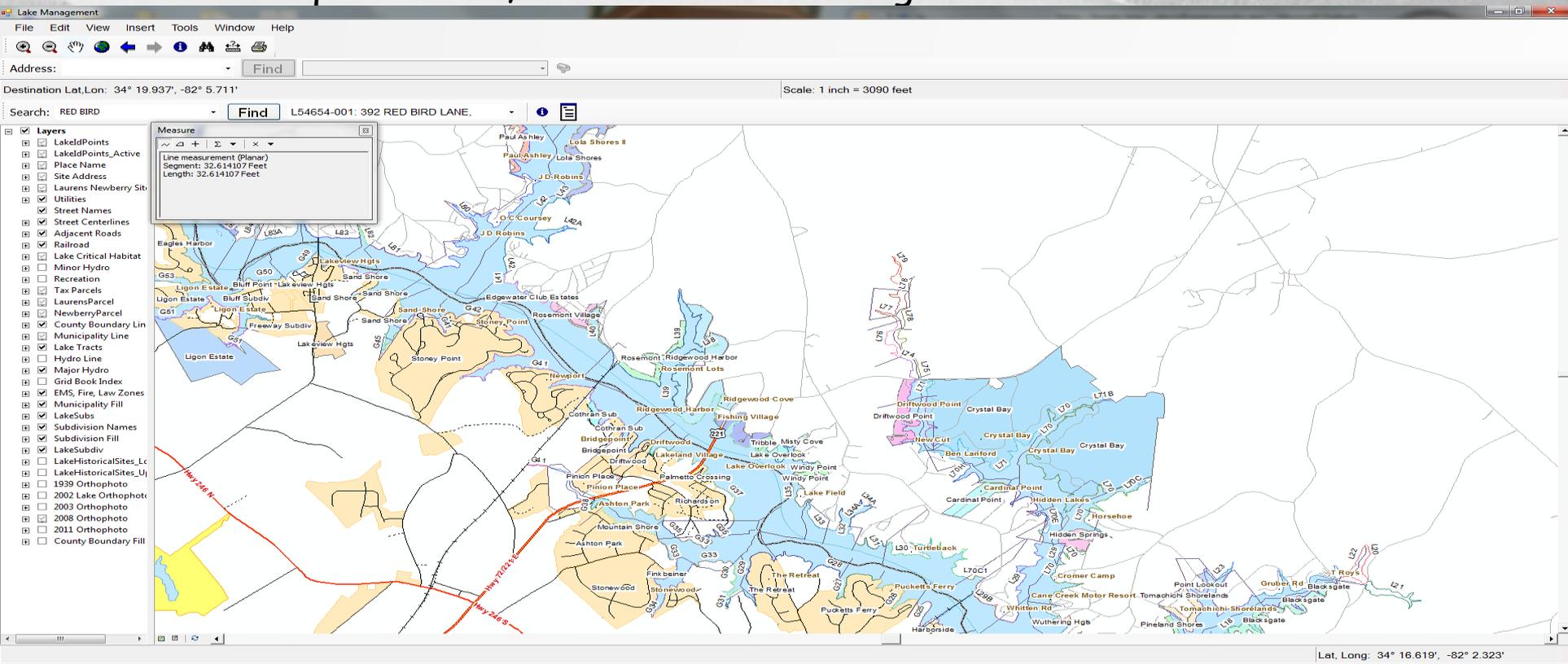
Culex Sp.



Psorophora columbiae

Specific Environmental Plan: Shoreline Mgmt Program

- Using ARC GIS software, we created a program for lake management program.
 - Including entering permits, encroachments, inspections, GPS coordinates, field inspections, records, and data storage.
- Using GPS, lake management staff can track locations in field, edit information, request permits, update pictures, measure areas, look up coordinates, view Cultural Resource sites, Critical Habitat locations, FERC requirements, and other lake management tasks.





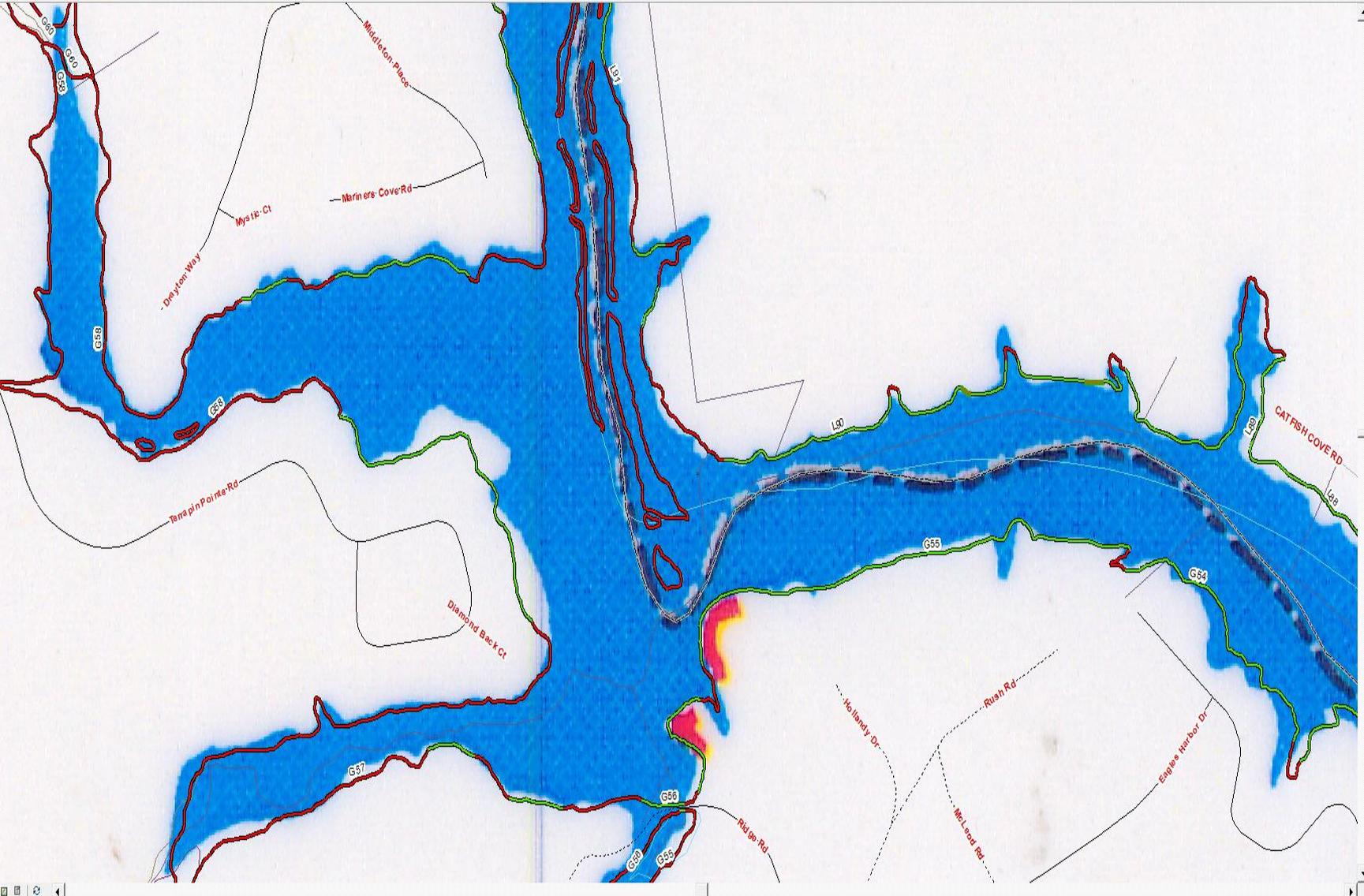
Address: Find

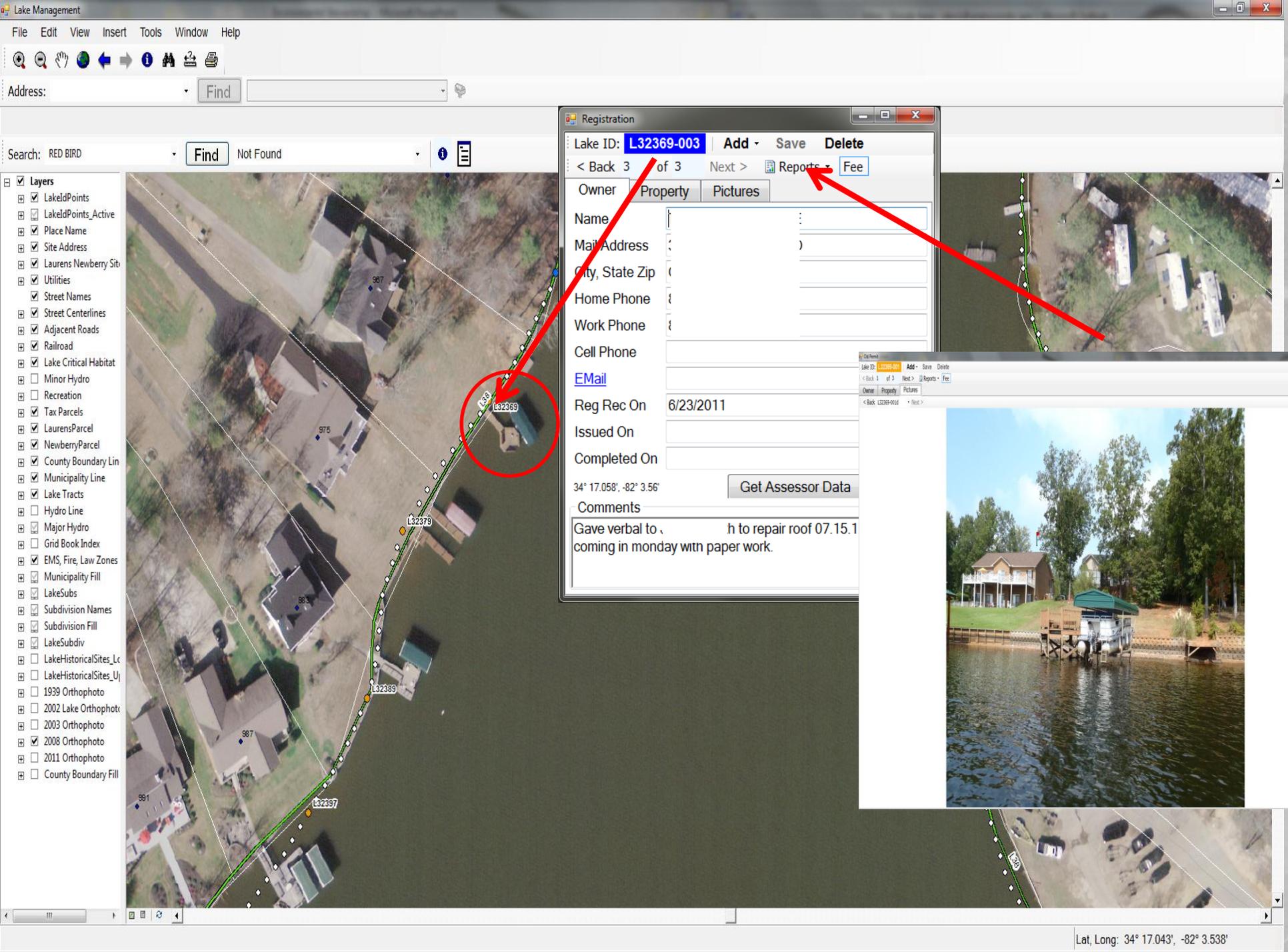
Destination Lat,Lon: 34° 17.058', -82° 3.56'

Scale: 1 inch = 667 feet

Search: RED BIRD Find Not Found

- Layers
- LakeldPoints
- LakeldPoints_Active
- Place Name
- Site Address
- Laurens Newberry Sit
- Utilities
- Street Names
- Street Centerlines
- Adjacent Roads
- Railroad
- Lake Critical Habitat
- Minor Hydro
- Recreation
- Tax Parcels
- LaurensParcel
- NewberryParcel
- County Boundary Lin
- Municipality Line
- Lake Tracts
- Hydro Line
- Major Hydro
- Grid Book Index
- EMS, Fire, Law Zones
- Municipality Fill
- LakeSubs
- Subdivision Names
- Subdivision Fill
- LakeSubdiv
- LakeHistoricalSites_Lc
- LakeHistoricalSites_Uj
- 1939 Orthophoto
- 2002 Lake Orthophot
- 2003 Orthophoto
- 2008 Orthophoto
- 2011 Orthophoto
- County Boundary Fill





Address: Find

Search: RED BIRD Find Not Found

- Layers
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- Subdivision Fill
- LakeSubdiv
- Lake-HistoricalSites_Lc
- Lake-HistoricalSites_Uj
- 1939 Orthophoto
- 2002 Lake Orthophot
- 2003 Orthophoto
- 2008 Orthophoto
- 2011 Orthophoto
- County Boundary Fill

Registration

Lake ID: **L32369-003** Add Save Delete

< Back 3 of 3 Next > Reports Fee

Owner Property Pictures

Name

Mail Address

City, State Zip

Home Phone

Work Phone

Cell Phone

E-Mail

Reg Rec On 6/23/2011

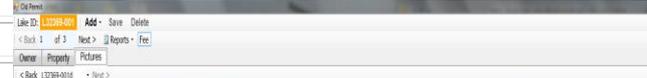
Issued On

Completed On

34° 17.058', -82° 3.56' Get Assessor Data

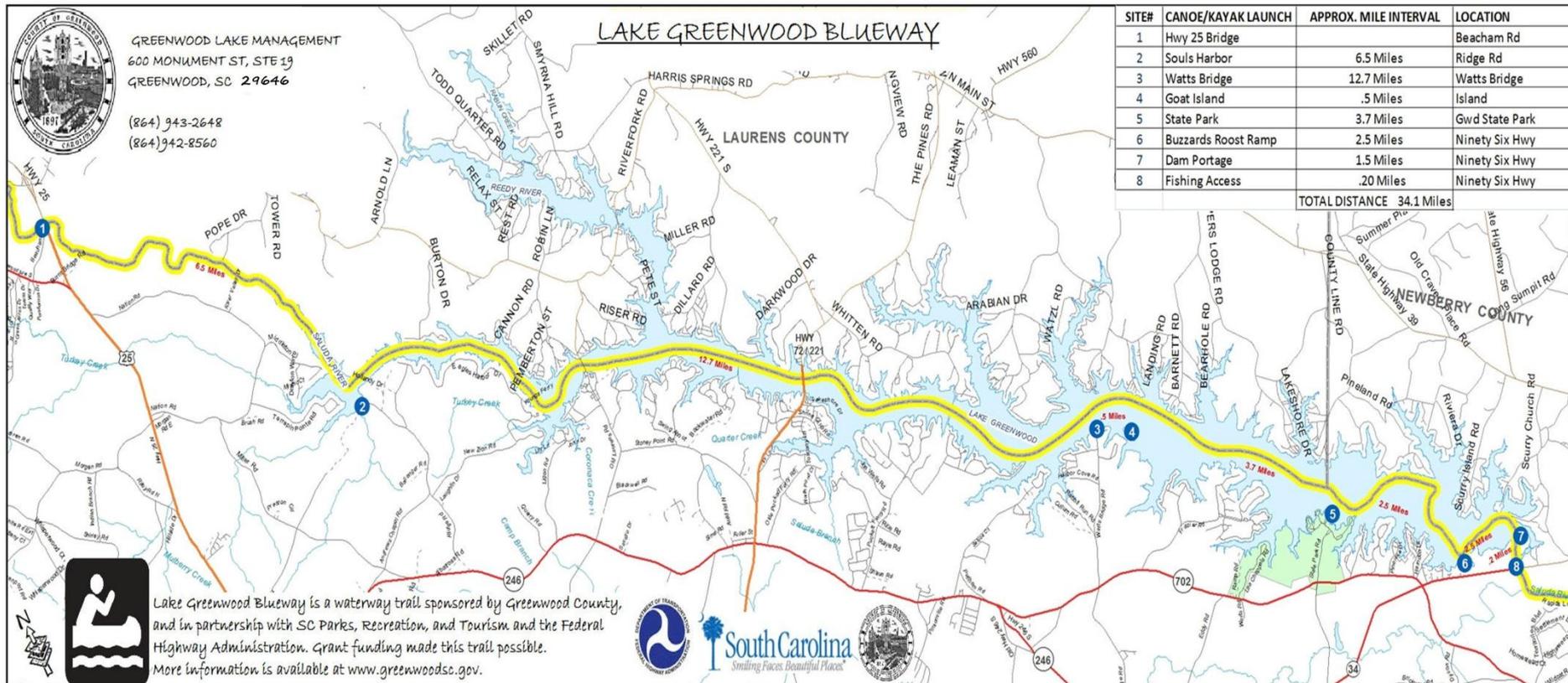
Comments

Gave verbal to [redacted] h to repair roof 07.15.1 coming in monday with paper work.



Lake Greenwood Blueway

- State and Federal Grant for the establishment of Lake Greenwood Blueway, an interpretative environmental water trail.
- Purpose is for environmental education and recreation on Saluda River and Lake Greenwood.
- Grant for signage, kiosks, landings, and portage around hydro.



LAKE GREENWOOD BLUEWAY



Created in the 1930s on the Saluda River by construction of the Buzzard's Roost dam, Lake Greenwood is an 11,400 acre lake, located in the Lakelands area. Owned by Greenwood County, the lake is bordered by Greenwood, Laurens, and Newberry Counties. An estimated two hundred and twelve miles of shoreline surround the lake.

Due to the large size and open nature of Lake Greenwood, wind and waves are a consideration when planning paddling trips. Ensure that consideration is given to these factors and that present and forecast conditions are planned for. If in doubt as to the conditions, planning a trip on the side of the lake from which the winds are blowing will lessen their effect.

A favorite of anglers and naturalists for years, we hope you enjoy your time on Lake Greenwood *Blueway* and help protect its natural beauty for generations to come.

Paddle Boating Safety Tips on Lake Greenwood's Blueway



There's nothing... absolutely nothing... half so much worth doing as simply messing around in boats. —Kenneth Grahme, *The Wind in the Willows*

- Wear your life jacket— expect to capsize when paddling a canoe, kayak, stand-up-paddle board or raft
- Know the conditions— remember to watch for water and weather changes—be aware of fog
- File a Float Plan with someone who will notify others if you don't return on time
- Be a competent swimmer— be able to handle oneself underwater, moving water or in current
- Keep a lookout for hazards and avoid them- watch for other watercraft
- Know your limits- group members need to assess others in their group
- Respect the rights of anglers and land owners when paddling
- Carry a whistle or sound signaling device, water, food, sunscreen and a hat or helmet
- Check out www.americancanoe.org web site for more information about safe paddling

THE WILD LIFE

Many wildlife species call Lake Greenwood home. You'll find deer and wild turkey along the water's edge. Busy beaver and river otter live and play in the coves and creeks. Eagles and osprey make their nests in the tree tops with the Great Blue Heron stalking its prey as it wades along.

Listen in the evenings for the barred owl or the pileated woodpecker drumming away during the day.

Take your time. Slow down. You might just find the "wild" life after all!

History of Lake Greenwood

During the Depression, Congress created the Public Works Administration which helped to finance construction projects. Greenwood County applied for assistance to construct a hydro-electric plant on the Saluda River. The County purchased the land between 1935-1937.

Lake Greenwood was created by the construction of the Buzzard's Roost dam in 1940. Water was initially impounded to a surface elevation of 440, but was later revised to 439. This is currently normal summer full pond. The facility was built and operated by the Greenwood County Electrification Commission until it was dissolved and the operations went into the county administration.

In 1966, Greenwood County voted to sell the transmission lines and combustion plant, and to lease the powerhouse to Duke Power. As part of their requirements in the 40 year lease, Duke Power worked on Greenwood's behalf to renew the operating license with the Federal Energy Regulatory Commission. Part of the process involved getting input from state and federal agencies regarding fishery and wildlife issues, drawdown curves, sustained river flows, and wildlife habitat, and improving public access.

With increasing development, and in order to insure that the development takes place in a way that doesn't impact the lake and habitat areas, FERC has required the County to become more diligent in the permitting of encroachments. On Dec. 2, 2004, SC Department of Health and Environmental Control issued Greenwood County a General Permit to authorize the construction, repair and maintenance of private residential encroachments.

In Sept. 2006, the Lake Management Department was created to assist with the FERC requirements. FERC has requirements that the County has become more diligent about enforcing.

Thank you for being good stewards of Lake Greenwood's natural resources and helping to preserve it for years to come.

A photograph of a bald eagle perched on a thick tree branch. The eagle is facing left, with its white head and neck clearly visible against the dark feathers of its body. The tree has many green leaves, and the background is a pale, overcast sky. The eagle is the central focus of the image.

Julie Marie Corley Davis, CLM
Director of Lake Management
Greenwood County, SC
600 Monument St, Ste 19
Greenwood, SC 29646
864-943-2648
jdavis@greenwoodsc.gov