#### Safety RCG SCE&G Rising Water Early Warning System

### April 9, 2008 James R. Devereaux, P.E

## MARNING-HORN SIGNAL and **FLASHING LIGHTS INDICATE RISING WATER** -CAUTION-**ABSENCE** of HORN SIGNAL or FLASHING LIGHTS DO NOT ASSURE **CONSTANT WATER LEVEL**





## SCE&G Rising Water Early Warning System

#### Sirens: Siren, Strobe Light, Sign(s) or Strobe Lights: Strobe and Sign(s)

## SIRENS

 Arrayed from 1 to 3 horns Voice Chip Capability Located to maximize coverage Sound output level determined by direct measurement Output level: 12dB over Ambient (FEMA Guidelines) All Activations Recorded CSOC



#### Early Warning System SIRENS

## FACTORS AFFECTING SIRE OUTPUT Background (ambient) noise Attenuation from foliage

Mainhhore

#### **Background Noise**







## Early Warning System Foliage

### Early Warning System Meander

#### Early Warning System SIRENS

ACTIVATION CRITERIA

- Presently 2 triggers (pressure transducers)
  - Time delayed activation
- Activates on Water Level Rate of Rise; 3 min.

sustained

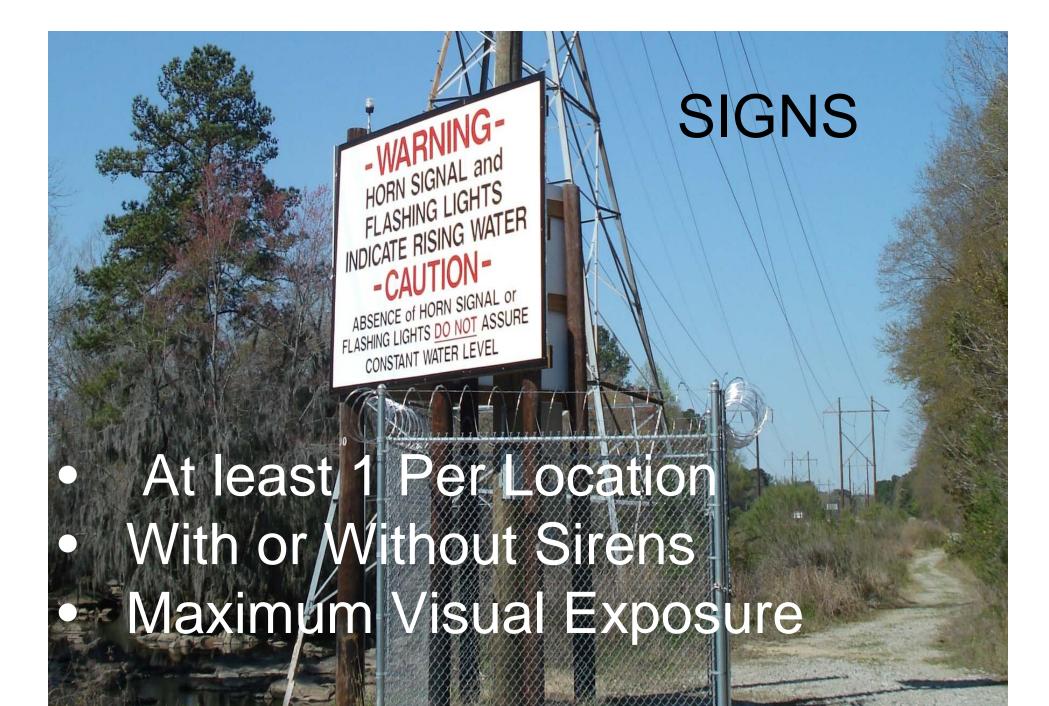
3 minute duration; every 3 minutes during

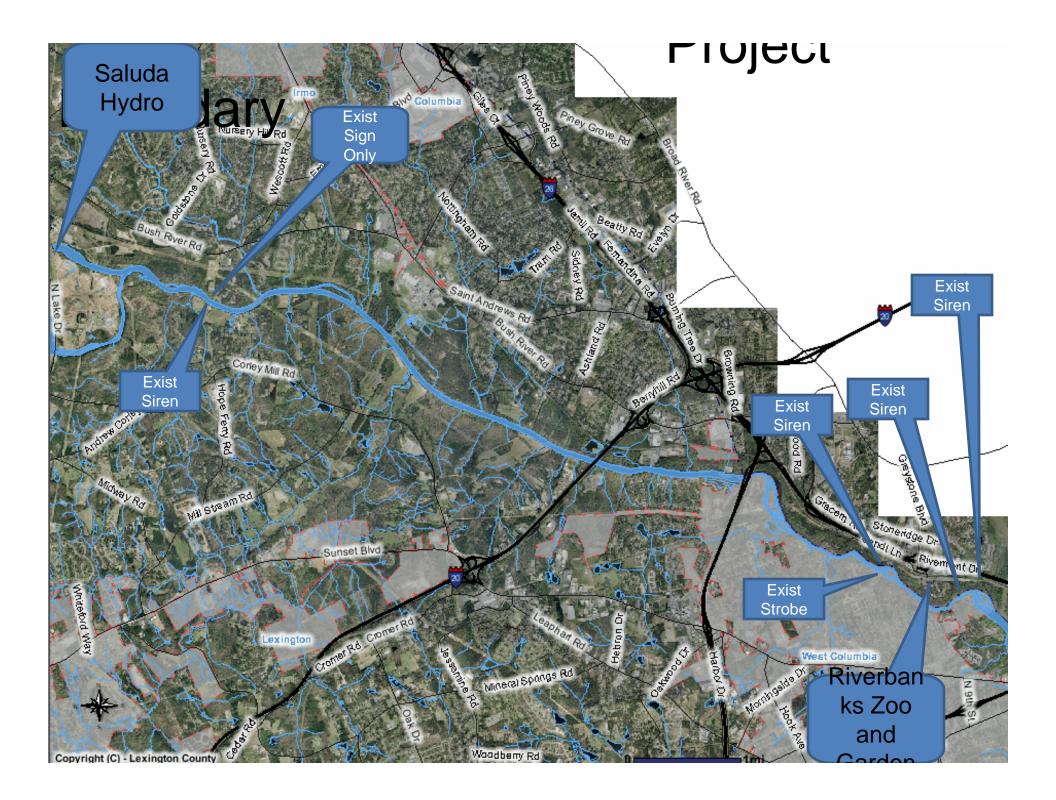
rise in water level

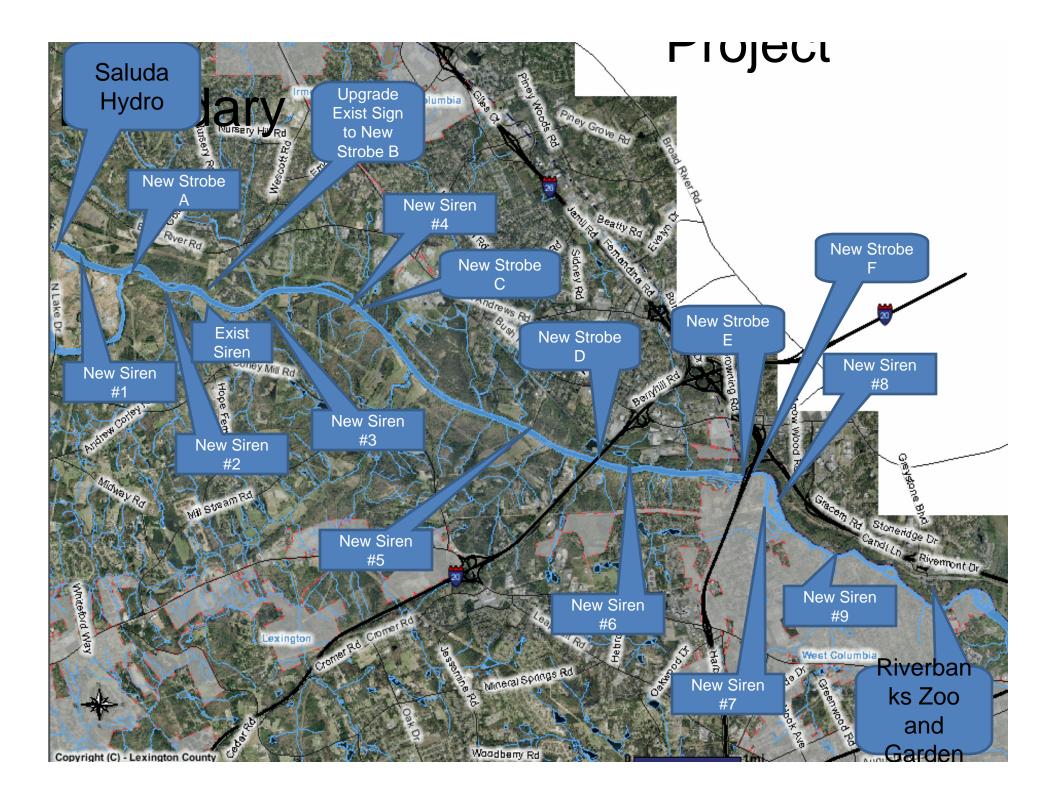
#### **STROBES**

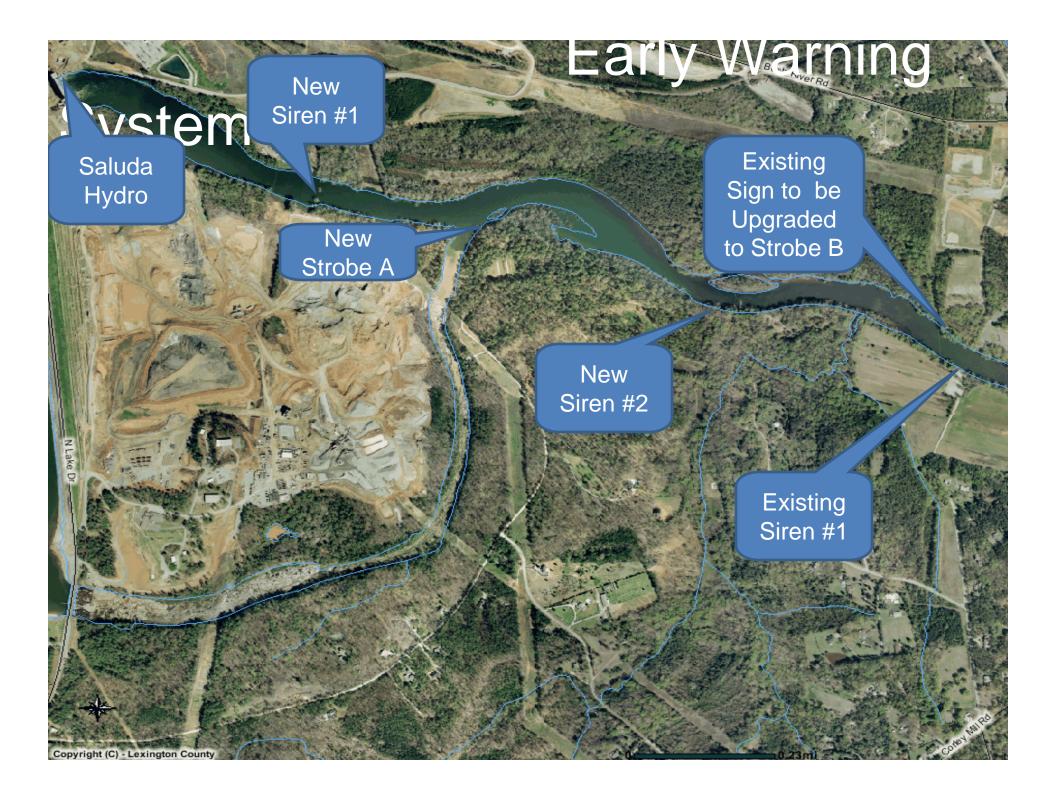
 1 Per Location White Light, 1,000,000 candlepower **Activates With Siren Continues flashing for 15 min** after ciron ciloncos

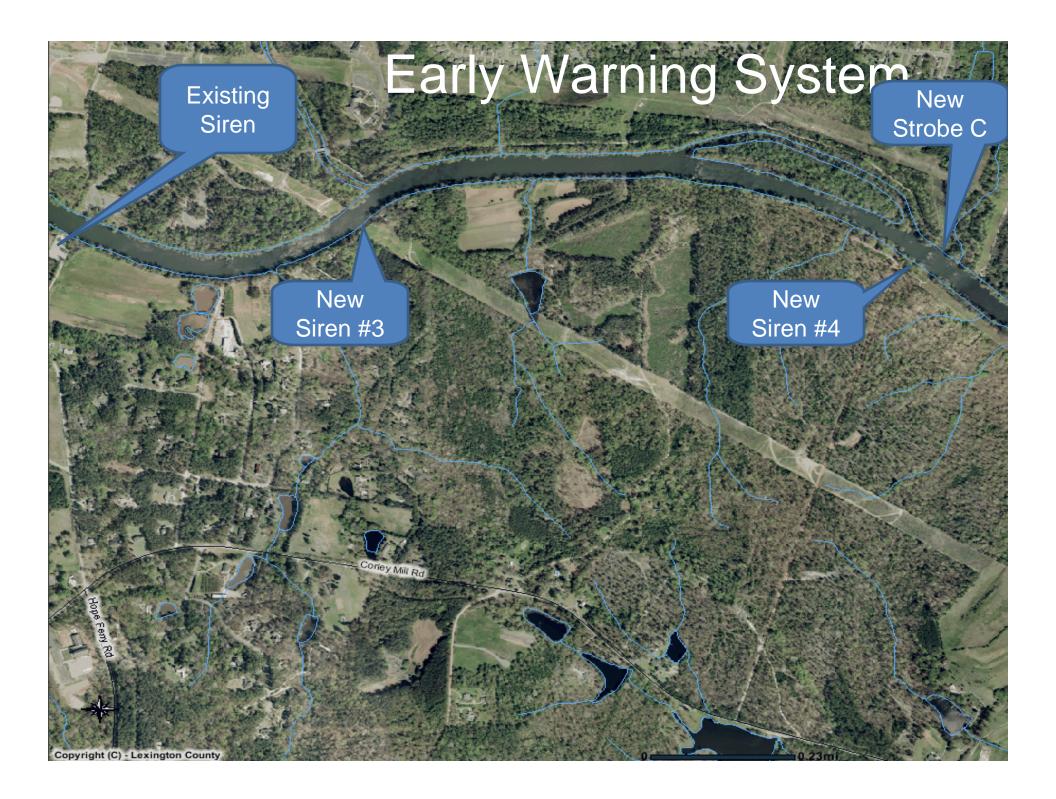


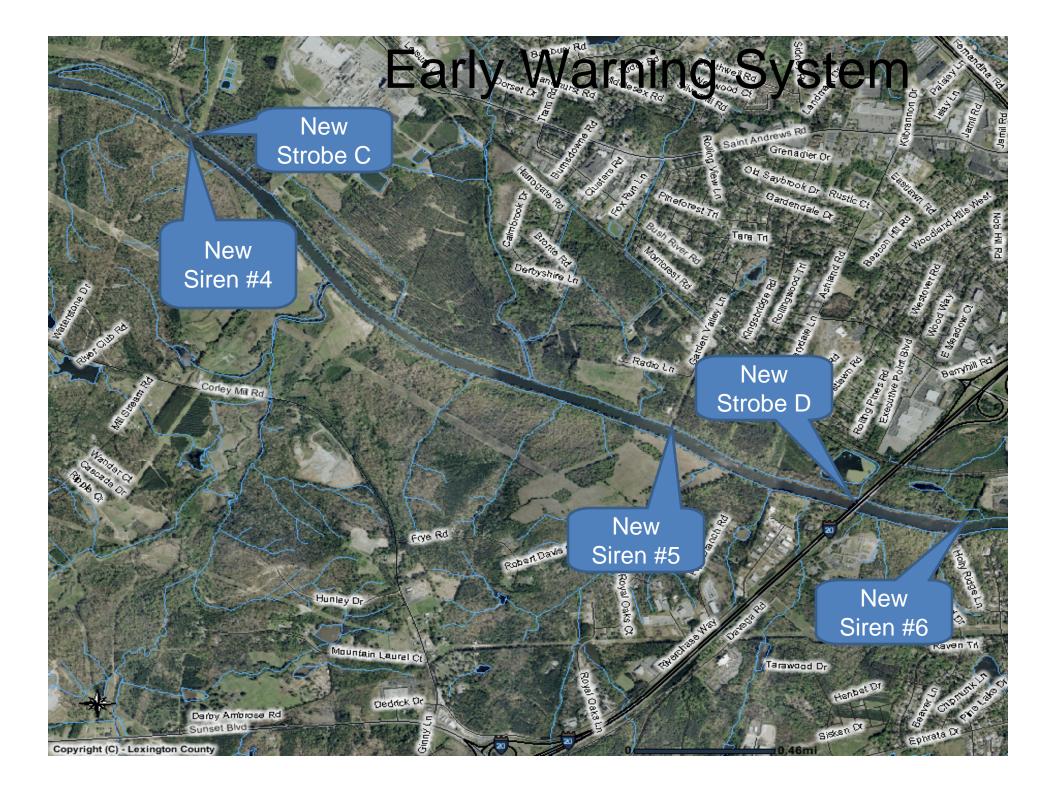


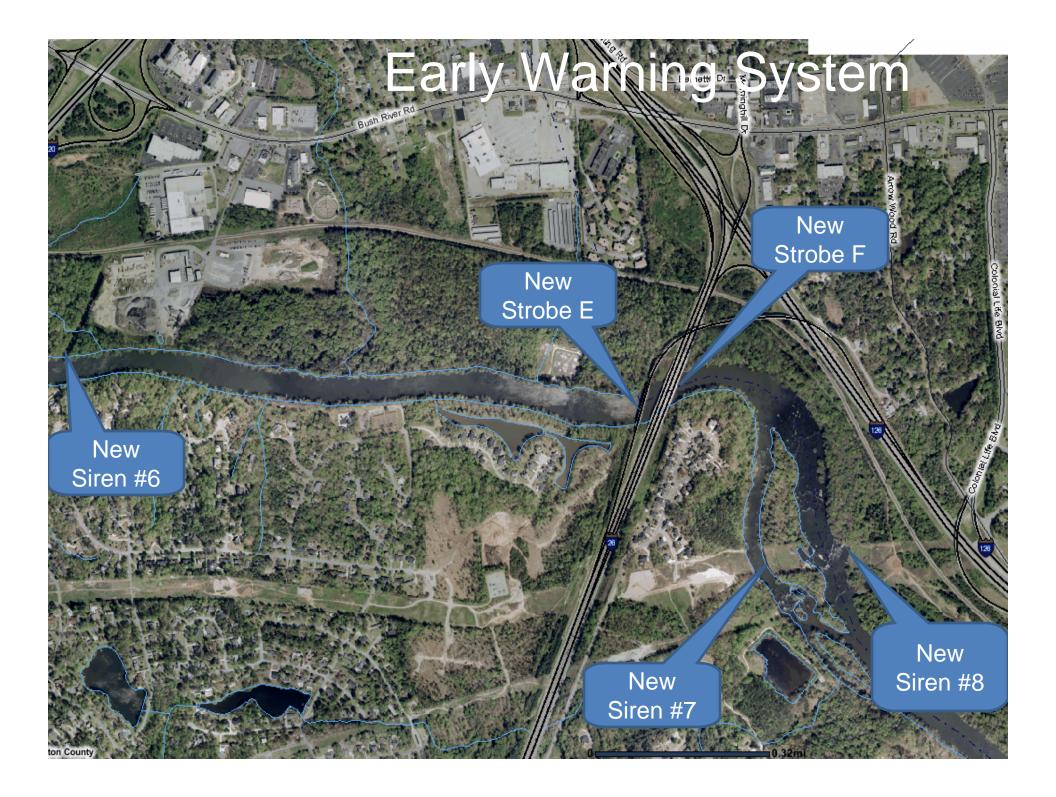


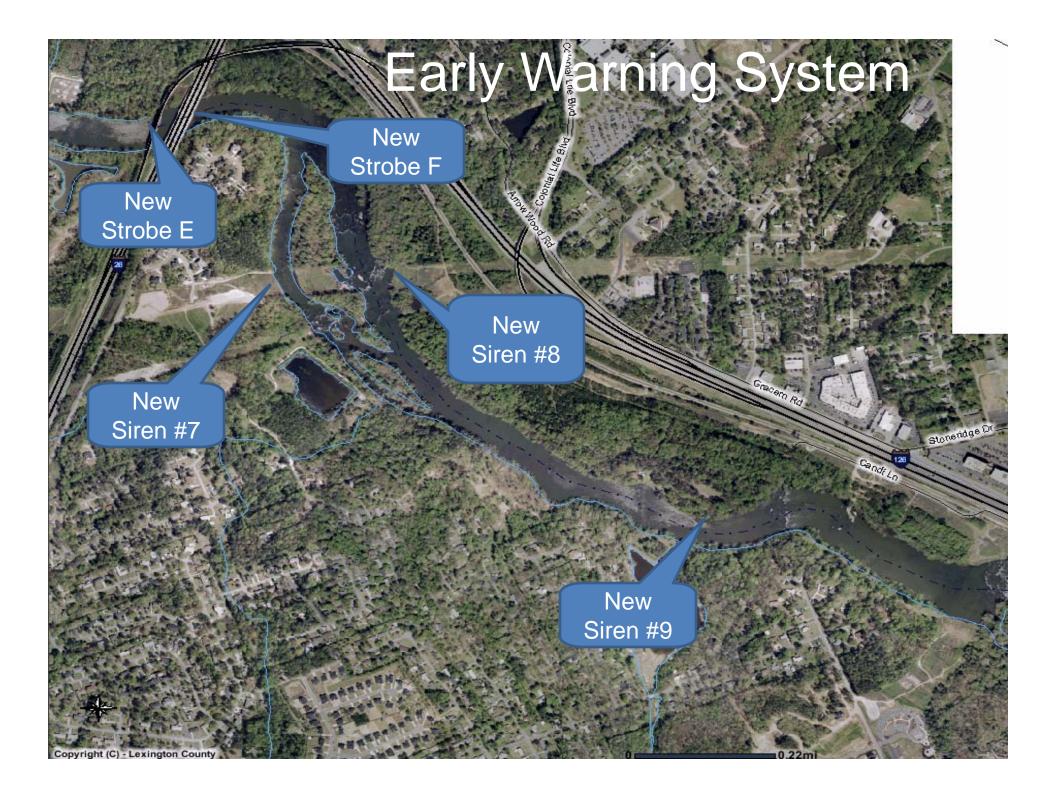


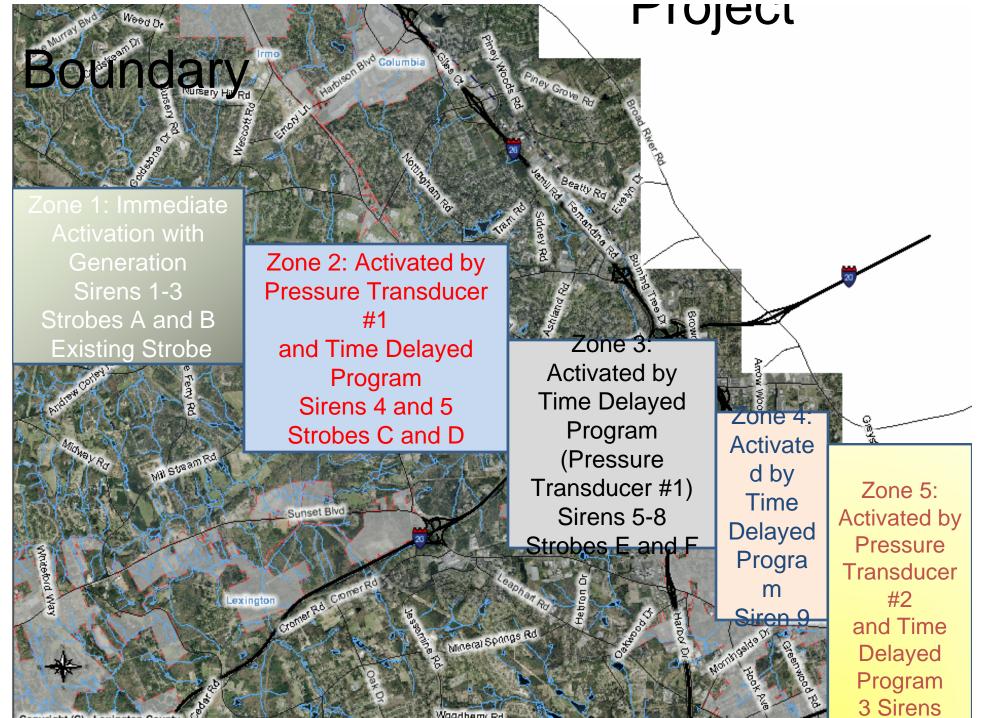












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#### Early Warning System

### Questions? Comments?

## SAFETY

# DANGER! WARNING!











# WARNING

DO NOT ENTER DANGER AREAS MARKED WITH SIGNS. WATER ELEVATION AND CURRENT WILL CHANGE WITHOUT WARNING.

**FARM** 





Park Closes At Sundown No Trespassing After Sundown Violators Will Be Prosecuted This Property Is Under the Jurisdiction Of The Lexington County Sheriff's Department And May Be Subject To Audio And Video Surveillance

# WELCOME Saluda Hydro Project

Recreation Facilities Open to Public FOR INFORMATION CALL 748-3067 REDULATORY COMMISSION PROJECT NO. 516

ABSENCE of HORN SIG NAL or FLASHING LIGHTS DO NOT ASSURE CONSTANT WATER LEVEL

1:24-

SWIM AT YOUR OWN RISK NO LIFEGUARD ON DUTY Dangerous current Hazardous bottom

#### WELCOME TO SCE&G RECREATIONAL SITE #1

PARKING FEES . . . CARS 3.00 - MOTORCYCLES 2.00 - BUSES 5.00 SEASON PASS AVAILABLE FOR 45.00 PER YEAR

NOTICE • NO LIFEGUARD ON DUTY SWIAT AT OWN FISH • NO ALCOHOLIC SEVERAGES OR DRUGS ALLOWED • SPEED LIMIT 5 M. P. H. • NO PETS ALLOWED • SECURITY GUARD ON DUTY

MAG

NO HAY SALVAVIDAS PARK HOURS' WEEK DAYS 11 AM 8 PM WEEK ENDS 10 AM 8 PM PAY PHONE AVAILABLE RESTROOMS & CONCESSION STAND ON SITE

YVAAYY









From Boat, Motor, and Trailer Before Leaving Area! .

NO SWIMMING OR FISHING FROM DOCK



# TOWING ENFORCED FINES UP, TO \$100

# WARNING

#### NO SWIMMING WITHIN 50 FT. OF BOAT RAMP



