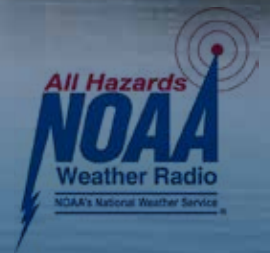




# Evacuation Guidance and Maps



Pickwick Landing South Embankment  
Dam Failure Warning System





## Pickwick Reservoir Background

TVA's Pickwick Landing Reservoir will return to normal summer lake levels on schedule by mid-April, dependent on rainfall. The reservoir was lowered to winter pool levels several weeks early last fall after TVA's analysis showed that a large earthquake could potentially damage the dam's south embankment.

## Early Warning System

The safety of the public is TVA's top priority. To lower the downstream risk, TVA will install an early warning system to notify downstream residents in the unlikely event that a large earthquake should occur. The system includes:

- Automated seismic detection system alert triggered by strong motions
- Instruments to detect earthquake damage to the dam using a technology known as Time Domain Reflectometry (TDR)
- Live video feeds and verification of lock operations
- Monitoring by operators in the TVA River Forecast Center 24 hours a day, 7 days a week
- National Weather Service (NWS) radios provided to homes in the area at risk of inundation
- NWS radio alerts in the unlikely event of a dam failure warning downstream residents to seek higher ground
- Early warning system equipment to notify TVA and NWS of any change in the embankment
- Work with local emergency management agencies, media and others to raise awareness of the system and educate the Pickwick community

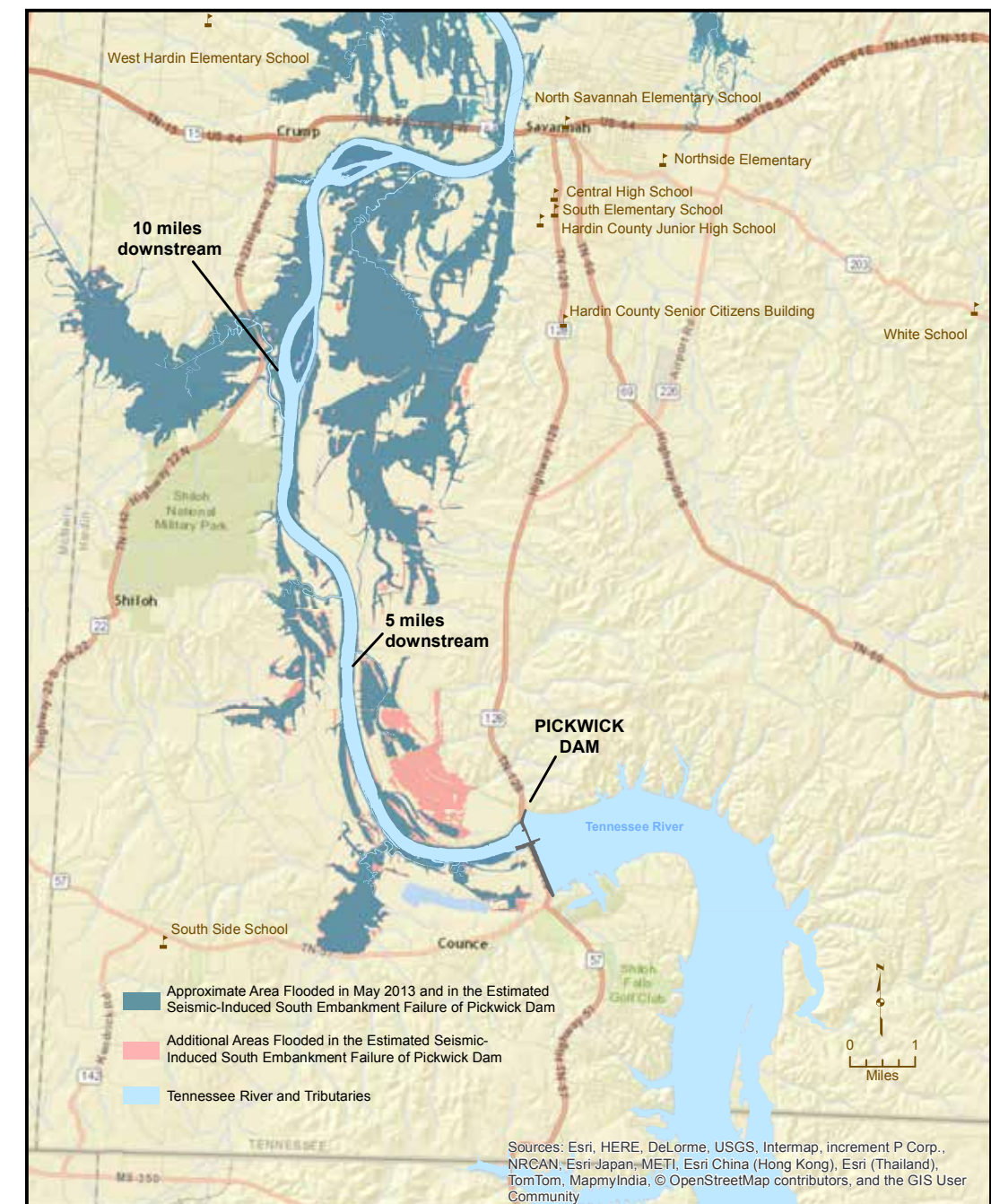


TVA crews install cables along Pickwick Dam's south embankment to detect even slight movement.

## May 2013 Flood Comparison to Estimated Seismic Induced Pickwick Embankment Breach Flood

Downstream risks in the unlikely event of an earthquake are limited to a few miles downstream of Pickwick Dam and do not include Savannah, Tennessee. Although flood levels would be similar to those reached in May 2013, the flooding would occur much faster and with less time for evacuation.

Flood level comparisons of the two events, along with safe areas for evacuation, are shown in the map below, which depicts flood levels about an hour after an embankment breach. Study this map to see if your home, school, workplace or other frequently visited locations are within the inundation zone.



# Be Prepared

## **Determine if you are located in the area that could be inundated.**

Study the inundation mapping to see if your home, school, workplace or other frequently visited locations are within the inundation zone.

- **Select the places your family could gather outside the inundation zone** and the routes that you would use to reach them. Review this information with each family member.
- **If you need special assistance in evacuating**, make arrangements with others before an emergency. Do not count on emergency personnel for this service since they will be not be able to answer all calls for help. **Be aware of the dam failure hazard if you're a visitor.** Check with the store, business, hotel, motel or campground you are visiting for evacuation information.

# What Evacuation Means for You

## **Take immediate action if you feel an earthquake or hear the weather radio alert.**

- **Stay informed.** After the shaking stops, tune into a local radio or television station or a weather radio. If the earthquake damages the dam, weather radios may be activated soon afterwards, or possibly not for several hours. When the weather radios are activated, you will hear a voice message along with the evacuation warning tone. If the earthquake does not significantly damage the dam, the weather radios will not be activated.
- **Evacuate.** If an evacuation is required, walk or drive to your gathering place outside of the inundation zone.
- **Avoid hazards when you evacuate.** Stay away from downed power lines and watch for objects falling from damaged buildings (chimneys, bricks, etc.).
- **Help others.** Help people who require special assistance – infants, elderly people and individuals with disabilities.



## Facts About Pickwick Landing Dam

- Construction began in 1934 and was completed in 1938
- 113 feet high and nearly 1.5 miles long across the Tennessee River
- Six generating units with a net dependable capacity of 229 megawatts
- Nearly 490 miles of winding shoreline and 43,100 acres of water surface when full in summer
- Flood-storage capacity of 492,700 acre-feet (acres of surface area to a depth of one foot)
- Minimum winter reservoir elevation of 408 feet; typical summer operating range between 413 and 414 feet
- Two locks: One measures 110 by 600 feet and the other 110 by 1,000 feet
- TVA is conducting a feasibility study on long-term mitigation options and dam rehabilitation. The study is expected to be completed in 2016.

**Keep this booklet handy. Share it with your family and friends.**

**TVA's website and social media sites will provide up-to-date information about the Pickwick Dam project at [www.tva.gov/pickwick](http://www.tva.gov/pickwick), on Twitter at [@TVA\\_Newsroom](https://twitter.com/TVA_Newsroom) and on Facebook at [www.facebook.com/TVA](http://www.facebook.com/TVA).**