

# Navigational Systems Initial Study Report Update November 29, 2007



# Navigational Systems Study

## Objectives

1. Inventory the existing shoal/rock markers and develop GIS mapping.
2. Develop set of guidelines for determining the conditions under which additional navigational markers should be approved.
3. Determine the need and location for additional navigational markers using information from bathymetry survey, knowledge of the reservoir, and the guidelines that have been developed.

# Navigational Systems Study Objectives

4. Identify processes to address safety related issues on Claytor Lake, including the process for the approval, installation, and maintenance of navigational markers.
5. Verify and update information related to the heights of lines crossing Claytor Lake and evaluate need for modifications.

# Activities To Date:

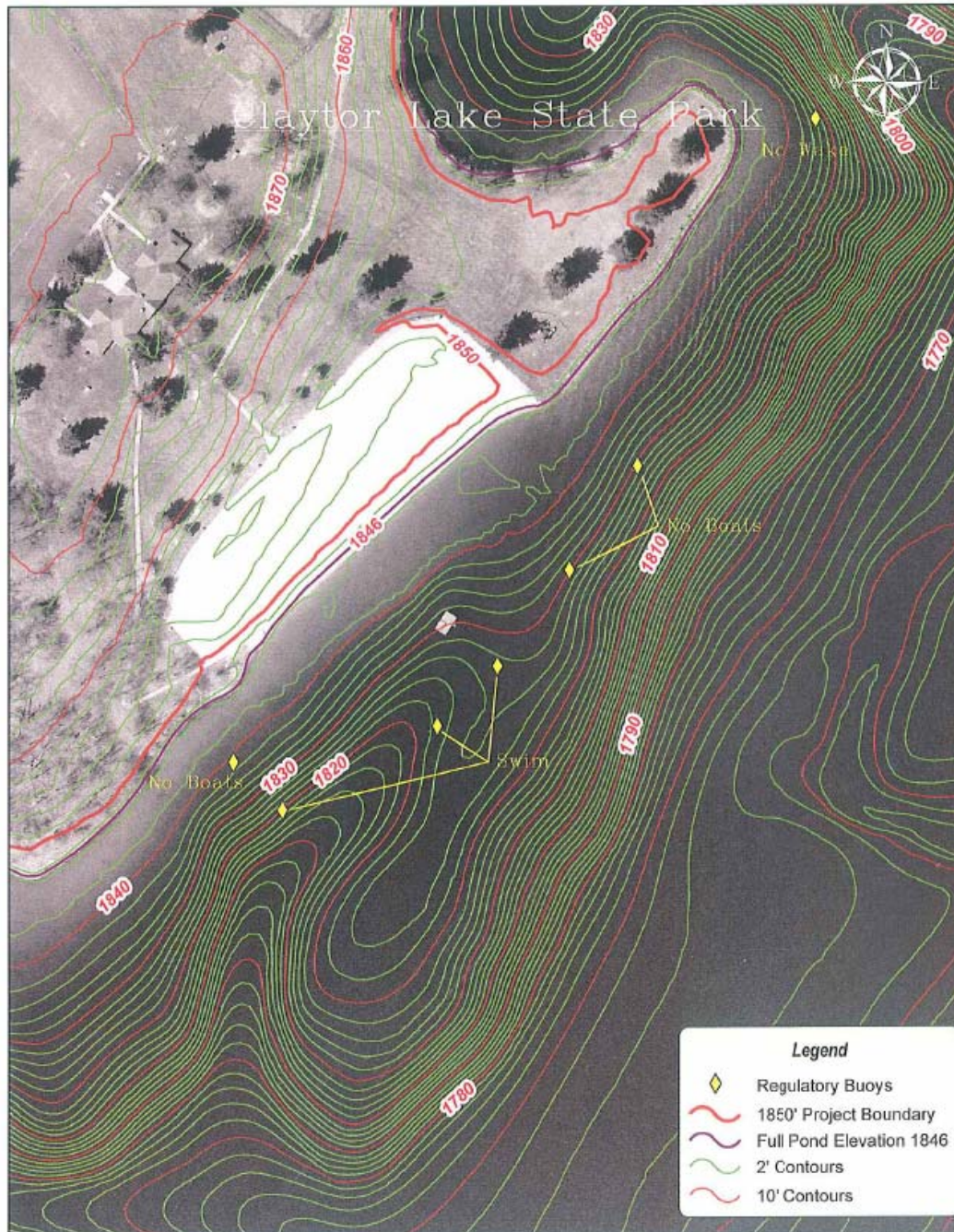
- Bathymetry has been completed.
- Field surveys of existing markers were completed in May and Sept. 2007. Another survey will be completed during 4<sup>th</sup> quarter. A final survey will be completed during the next drawdown.
- Each marker has been categorized by type and conditions. A record of the visible conditions at each site has been recorded and the location mapped with GIS.
- Location of existing markers will be mapped on bathymetric maps and the existing markers will be evaluated.

# Inventory



- 21 - no wake buoys
- 16 - mooring buoys
- 5 - swim area buoys
- 7 - no boat buoys
- 4 - danger rock buoys







05/15/2007

# Activities to Date (Cont.)

- Existing standards of agencies, including U.S. Coast Guard and state agencies, have been obtained and will be provided to the work group.
  - Pulaski Zoning Ordinances
  - Rules for Establishment of Uniform Regulatory Markers on the Public Waters of Virginia (VDGIF)
  - Private Aids to Navigation - US Coast Guard
  - Agreement between USCG and State of Virginia permitting State to regulate private aids to navigation.

# Next Steps

- Guidelines will be developed to determine the conditions under which additional markers should be approved. Existing standards will be utilized. Project operation and changing elevations will be taken into consideration.
- Coast Guard Auxiliary, VDGIF, VDCR and Friends of Claytor Lake will be consulted, along with others such as area fishing clubs and marina owners. Processes for other safety related issues will be identified with input from stakeholders.
- Appalachian will review and update line crossing information with Transmission and Distribution Departments (in progress). Requirements for line crossings will be reviewed and the needs for any changes evaluated.

# Schedule

- Provide existing guidelines to work group members.
- Schedule work group meeting during first quarter of 2008 to review existing information and begin developing guidelines.

Questions?