

BARREN RIVER LAKE MASTER PLAN REVISION

Lacey Gabbard, AICP
Planner

Glenn Myrick
Project Manager

Alan Ramey
Lake Project Manager

U.S. Army Corps of Engineers
Louisville District
November 18, 2020



US Army Corps
of Engineers®



AGENDA

- Introductions
- Presentation/Information
- Open Forum – Suggestions/Q&A



US Army Corps
of Engineers®



STAKEHOLDER MEETING OBJECTIVES

- Provide information about how the process works
- Learn what needs, ideas, and concerns stakeholders have about the master plan revision
- Collect your questions and provide answers
- Create an open channel of communication



US Army Corps
of Engineers®



ABOUT BARREN RIVER LAKE

Barren River Lake is situated in the rural, rolling hills of Allen, Barren and Monroe counties in South Central Kentucky. The dam is located 12 miles east of Scottsville, KY and 15 miles southwest of Glasgow, KY on State Highway 252.

Construction began on the dam in March 1960 and the lake became operational in October 1964. Barren River Lake covers 20,150 acres at maximum flood control pool and 10,000 acres at normal summer pool. The drainage area above the dam is 940 square miles, and since its completion has prevented more than 3 times its original construction cost in flood damages.



More information can be found at: <https://www.lrl.usace.army.mil/Missions/Civil-Works/Recreation/Lakes/Barren-River-Lake/>



US Army Corps
of Engineers®



BARREN RIVER LAKE CURRENT CONDITIONS

- Record Visitation in 2020
- Increased Demand on Facilities
- Flat lined Recreation Budgets
- Cultural Resources
- Invasive Species
- Shoreline Transition
- Water Quality
- Aging Infrastructure
- Supporting User Groups
- Cooperative Efforts



US Army Corps
of Engineers®



CURRENT STATE OF THE PROJECT

USACE Operated

- 366 Campsites
- 6 Boat Ramps
- 2 Beaches
- 5 Trails

Outgrants

- 4 Marinas
- 111 Campsites
- Cabins
- 3 Boat Ramps
- 1 Trail
- 1 Beach
- Allen County/Glasgow Water

Environmental Concerns

- Water quality
- Shoreline erosion
- Overuse of the Resource
- Invasive Species
- Wildlife Mgt.
- Cultural Resources



US Army Corps
of Engineers®



WHAT IS A MASTER PLAN?

The Master Plan is the strategic land use management document that guides the comprehensive management and development of all project recreational, natural and cultural resources throughout the life of the water resource development project.

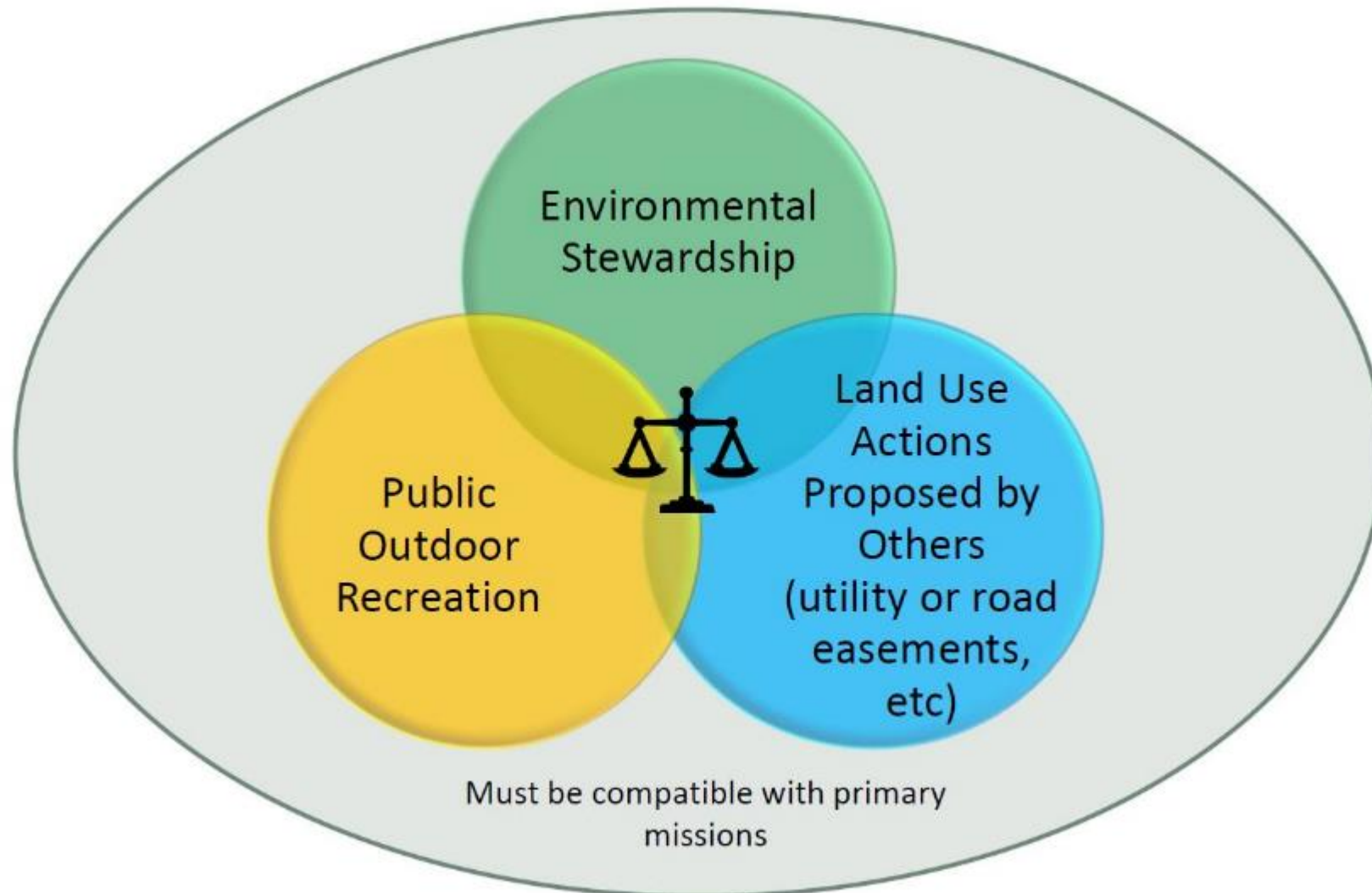
- It is a dynamic operational document projecting what could and should happen over the life of the project and is flexible based on changing conditions
- It presents broad, conceptual resource management objectives and land classifications on project lands whether managed by the Corps or by others
- Reviewed every 5 years; General goal is an effective lifespan of 15- 25 years



US Army Corps
of Engineers®



GOALS OF A MASTER PLAN



US Army Corps
of Engineers®



WHAT A MASTER PLAN IS *NOT*?

Master Plans do not:

- 1) Focus on facility design details or details of daily project administration.
- 2) Address water level management and flood control as a separate manual is used to regulate water storage and discharge.
- 3) Plan or approve changes to the management of allowable private activities as set forth in ER 1130-2-406 (docks and vegetation modification).



US Army Corps
of Engineers®



WHY ARE WE REVISING BARREN RIVER LAKE'S MASTER PLAN NOW?



The current Master Plan was completed in 1985.

Because the master plan is 35 years old, the plan includes little information on cultural resources, invasive species, endangered species, wildlife habitat value, jurisdictional wetlands, and other environmental features that have become critically important following the passage of landmark legislation such as the Clean Water Act and Endangered Species Act.

The focus of the old master plan was primarily recreation development, with little attention given to natural and cultural resources.

This update is stewardship driven and seeks to balance recreational development and use with the goal of conservation of natural and cultural resources.



US Army Corps
of Engineers®



MASTER PLAN REVISION TEAM

Accomplished by a team of Corps employees --- with input from other agencies

- Project Manager
- Operations Project Manager
- Planner
- Biologist
- Archaeologist
- Lake Staff
 - Lake Manager
 - Rangers
 - Natural Resource Specialist
- Office Of Counsel
- GIS Team
- Real Estate Specialists
- Public Affairs Specialist



Stakeholders

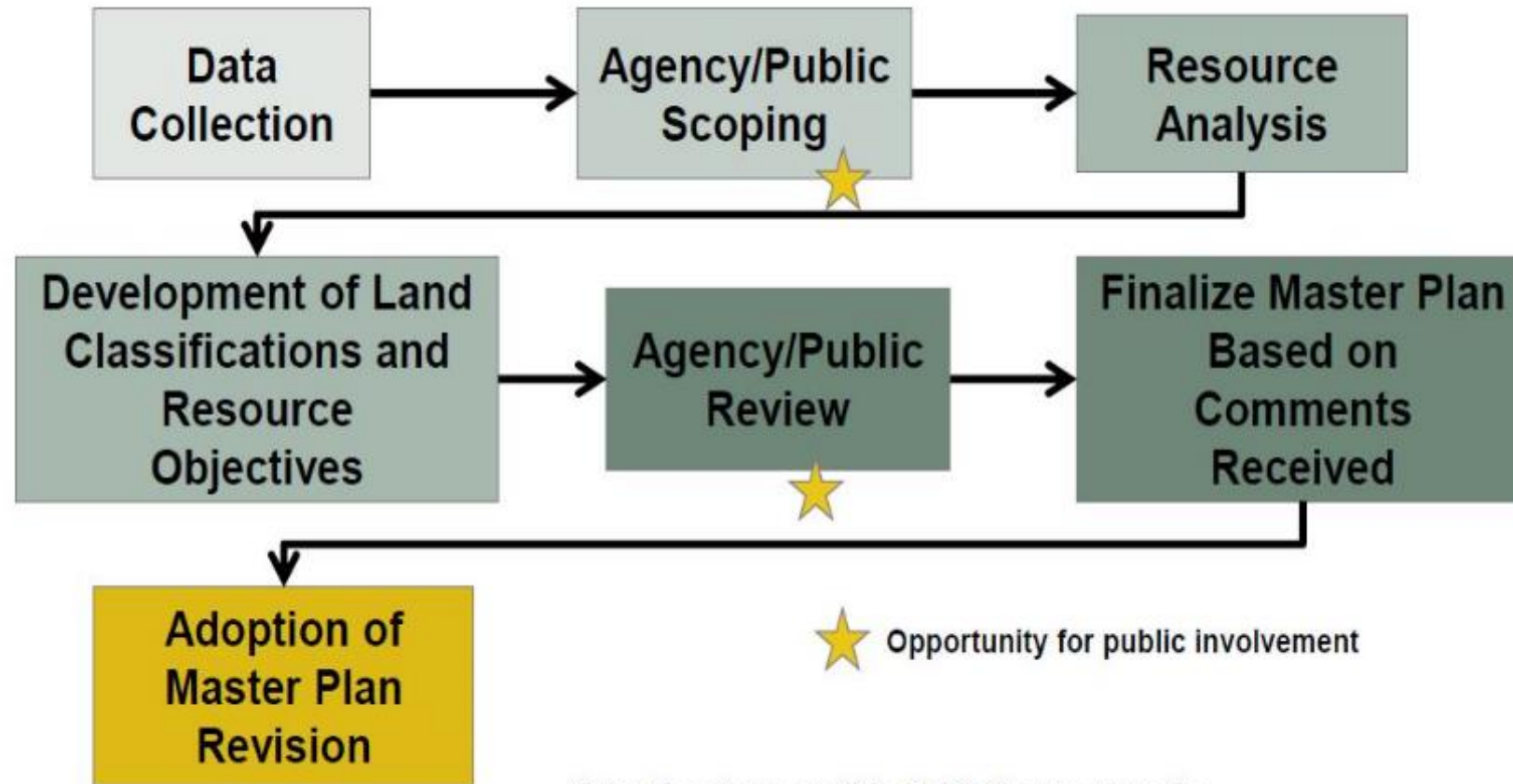
General Public



US Army Corps
of Engineers®



MASTER PLANNING PROCESS



Note: Development of the NEPA Document works best if developed parallel to the development of the Master Plan Document



US Army Corps
of Engineers®



RESOURCE ANALYSIS



Level 1 resource inventory:

- Fish and Wildlife Resources
- Vegetative Resources
- Threatened & Endangered Species
- Invasive Species
- Ecological Setting
- Wetlands

Example: Invasive Plant Species List

Common Name	Species
Autumn Olive	<i>Elaeagnus umbellata</i>
Canada thistle	<i>Cirsium arvense</i>
Common Reed	<i>Phragmites australis</i>
Emerald ash borer	<i>Agrilus planipennis</i>
Eurasian watermultifoil	<i>Myriophyllum spicatum</i>
Garlic mustard	<i>Alliaria petiolata</i>
Japanese chaff flower	<i>Achyranthus japonica</i>
Japanese honeysuckle	<i>Lonicera japonica</i>
Johnson grass	<i>Sorghum halepense</i>
Multiflora rose	<i>Rosa multiflora</i>
Oriental bittersweet	<i>Celastrus orbiculata</i>
Purple loosestrife	<i>Lythrum salicaria</i>
Japanese honeysuckle	<i>Lonicera japonica</i>
Tree-of-heaven	<i>Ailanthus altissima</i>
Zebra mussel	<i>Dreissena polymorpha</i>



US Army Corps
of Engineers®



RESOURCE OBJECTIVES

- Clearly written statements that set forth measurable and attainable management activities that support the stated goals of the MP
- Must be consistent with authorized project purposes, Federal laws, directives, regional needs, resource capabilities, and expressed public interests
- They should also take recreational and natural resources carrying capacity into account as well as State Comprehensive Outdoor Recreation Plans (SCORP). These objectives must maximize project benefits, meet public needs, and foster environmental sustainability.



EP 1130-2-550



US Army Corps
of Engineers®



EXAMPLE RESOURCE GOALS AND OBJECTIVES

GOAL A. Provide the best management practices to respond to regional needs, resource capabilities and capacities, and expressed public interests consistent with authorized project purposes.

GOAL B. Protect and manage Project natural and cultural resources through sustainable environmental stewardship programs.

GOAL C. Provide public outdoor recreation opportunities that support Project purposes and public interests while sustaining Project natural resources.

GOAL D. Recognize the unique qualities, characteristics, and potentials of the Project.

GOAL E. Provide consistency and compatibility with national objectives and other State and regional goals and programs.

Cultural Resources Objectives	Goals				
	A	B	C	D	E
Protect and manage Project natural and cultural resources through sustainable environmental stewardship programs.	O	O		O	O



US Army Corps
of Engineers®



U.S. ARMY

LAND ALLOCATION AND LAND CLASSIFICATION

Land Allocation – a subset of project land based on the purpose for which the land was acquired (in general, does not change throughout the life of the project)

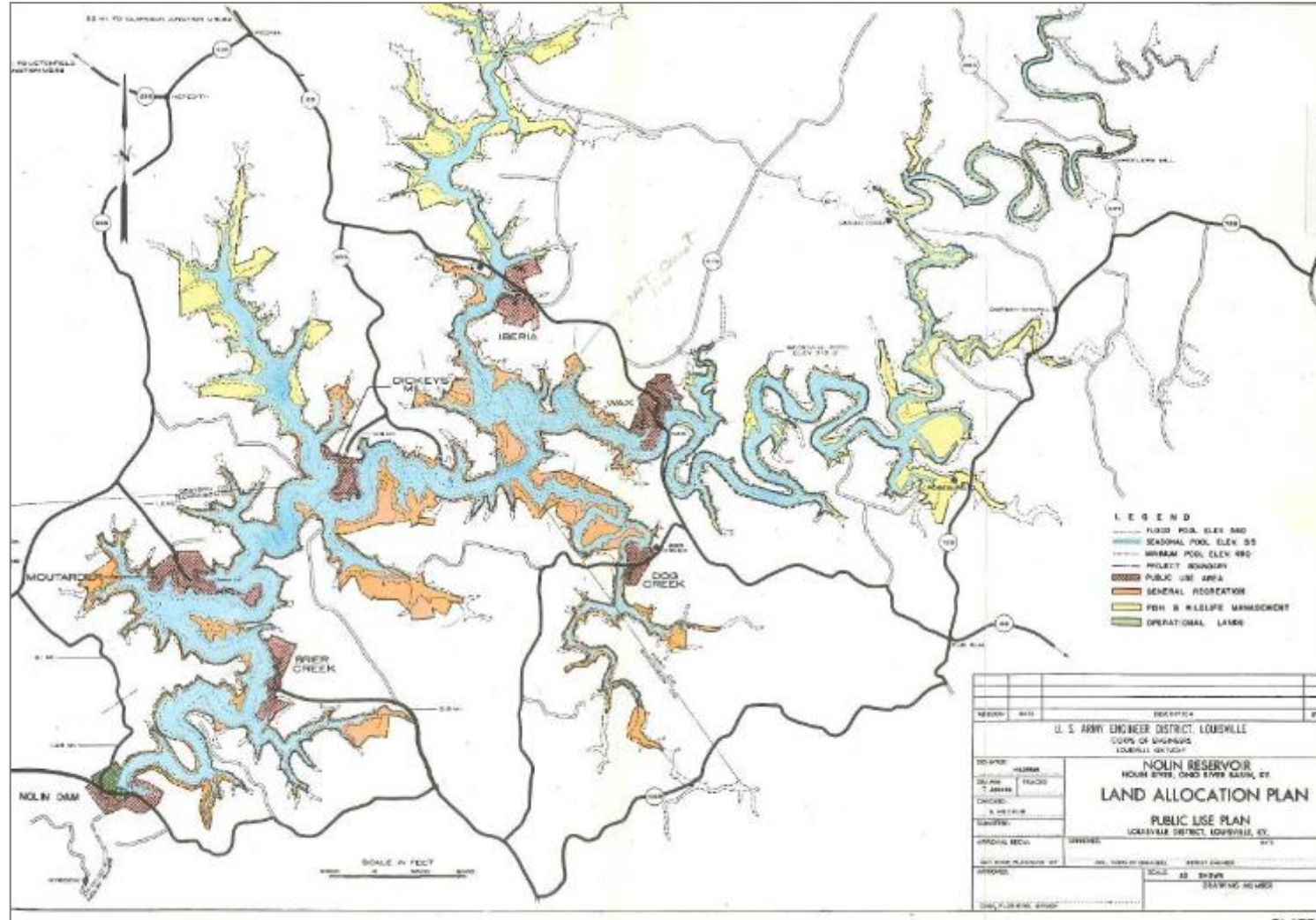
Land Classification – a subset of project land based on how the land will be managed (in general, can be periodically changed through formal revision to reflect changing policy, public needs, or to meet mission requirements)



US Army Corps
of Engineers®



LAND ALLOCATION MAP



Four Types of Allocations:

- 1) Operations
- 2) Recreation
- 3) Fish and Wildlife
- 4) Mitigation



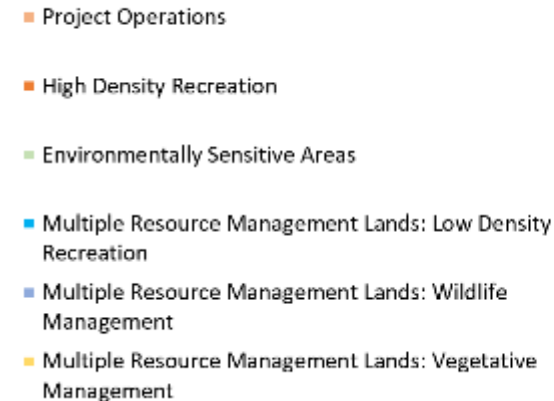
US Army Corps
of Engineers®



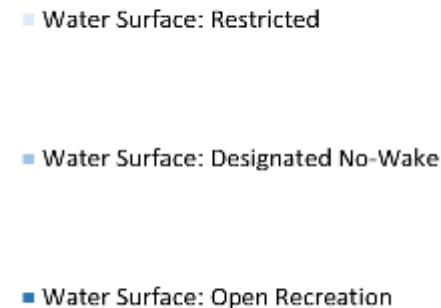
LAND CLASSIFICATIONS

- Project Operations
- High Density Recreation
- Mitigation
- Environmentally Sensitive Areas
- Multiple Resource Managed Lands
 - Low Density Recreation
 - Wildlife Management
 - Vegetative Management
 - Future/inactive Recreation
- Water Surface

Land Classification Distribution



Water Surface Classification Distribution



US Army Corps
of Engineers®





US Army Corps
of Engineers®
Louisville District

Master Plan Questionnaire

- 1) In your opinion, what are current or future environmental threats facing public lands and waters at the lake?
- 2) What options do you see that could help accomplish management tasks, as lake budgets are stagnant or declining?
- 3) If you were in charge of the lake what improvements would you make? Where would you make them?
- 4) Why does managing the land and waters at the lake matter to you?
- 5) What do you like or what changes would you make to improve plant communities, fish habitat or wildlife habitat at the lake?
- 6) What are some outdoor recreation opportunities that should be continued, expanded, added or eliminated at the lake?
- 7) What are the important benefits of the lake to you and your family?
- 8) Is there anything else you would like to share?

Name (Optional): _____ Email (Optional): _____



US Army Corps
of Engineers®



THERE ARE FOUR WAYS TO SUBMIT COMMENTS:

1) Email: barrenriver.masterplan@usace.army.mil

2) Email: Glenn.B.Myrick@usace.army.mil

3) Mail to: US Army Corps of Engineers
11088 Finney Road
Glasgow, KY 42141



4) Interactive Lake Map: <https://qrgo.page.link/jkf1U>



<https://www.lrl.usace.army.mil/Missions/Civil-Works/Recreation/Lake-Master-Plan-Updates/Barren-River-Lake-Master-Plan-Updates/>

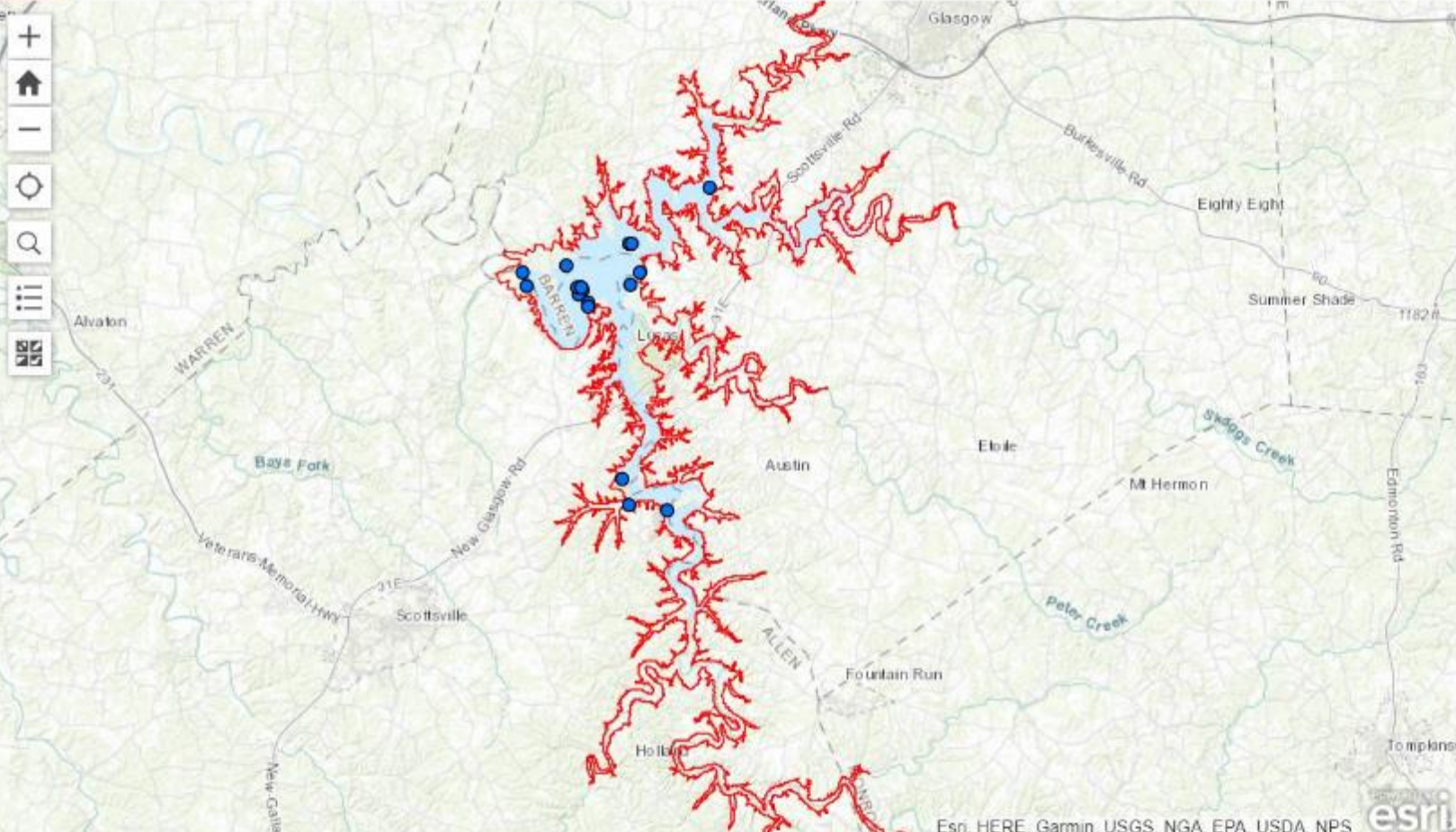



US Army Corps
of Engineers®





INTERACTIVE LAKE MAP


 **Barren River Lake - Public Comment Tool** 




 1. Recreation Comment

 2. Environmental Comment

 3. Safety / Emergency Management

 4. Cultural / Historical Resources Comment

 5. Other Comment

Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS

<https://qr.go.page.link/jkf1U>



US Army Corps
of Engineers®



QUESTIONS/COMMENTS?



Your Participation is
Important to Everyone!



US Army Corps
of Engineers®



GOALS OF PUBLIC INVOLVEMENT

- To establish and maintain channels of communication with the public
- To identify public's interests and concerns
- To give consideration to public views throughout the process
- To provide information about process and decision making



US Army Corps
of Engineers®

