



August 7, 2024 Wellness Center at Bayside 2202 S. Main St. Anahuac, TX 77514

August 8, 2024 Liberty City Hall Auditorium **1829 Sam Houston Street** Liberty, Texas 77575



Wallsville Lake

Wallisville Lake is <u>not</u> Marsha flood control project. 10 J. Lake Anahuac Anahuac Watersheds Wallisville Property

project constructed and District (SWG) to manage **Trinity River.**

Constructed Features

- to saltwater movement upstream.
- about two river miles upstream.
- aids navigation.

The Wallisville Lake Project is a multipurpose water resources operated by the U.S. Army Corps of Engineers (USACE), Galveston saltwater intrusion into the

Dam across the Trinity River, consisting of 4 tainter gates that are raised and lowered to create a barrier

Three Non-Overflow Dams surround the project and

The lock and channel is located west of the dam and

Wallisville Lake History



Construction began in 1966. In 1973, a lawsuit and court injunction stopped the Project at about 72% complete.





Construction resumed in 1995 and was completed in 1999.







Wallisville Lake History

The authorized project has been reevaluated and modified multiple times since 1962 to reduce or eliminate environmental impacts.





To ensure survival of the Cypress Swamps, the Project was modified to the design it is today. The Project does not impound any water and mimics as closely as possible pre-Project conditions while still managing saltwater intrusion.

The Wallisville Lake Project's primary purpose is salinity control and has four secondary purposes. Flood risk management is <u>not</u> a project purpose.

Wallisville Salinity Control Structure

Salinity Control

The Wallisville Lock and Dam and Structure A provide for salinity control by opening and closing depending on tides, river flows, winds, and drought conditions.

Wallisville Lake Project Purposes

Trinity River Facilities

Water Supply

Water supply for municipal and irrigation use require an adequate supply of good quality fresh water.



Fish & Wildlife Enhancement The Cypress Swamps, grasslands, streams, marshes, and pools are preserved as natural habitats for a wide variety of fish and wildlife because there is no reservoir.

Wallisville Lake Lo

Navigation

Trinity River is navigable by pleasure boats from its mouth and north as far as Liberty, Texas.



Recreation

Parks, recreation areas, and the Visitor Center provide opportunities for picnicking, hiking, birding, camping, fishing, canoeing, kayaking, and other activities.

Wallisville Lake Operations

Current Water Management

Normal Flow (above 2,000 cfs):

• All structures remain open no flow changes.

Low Flow (less than 2,000 cfs):

• Salinity Monitoring – All structures remain open but monitor salinity and water levels.

 <u>Salinity Control</u> – High salinity triggers partial or complete closure of the spillway and lock gates to form a barrier to saltwater intrusion. Goal is to not let water levels drop below 2 feet NAVD 88.





Drought conditions typically drive the need for closures.







conditions.

Structure A is a swing gate that operates as fully open or fully closed depending on tic river flows, winds, and drought

Water Control Manuals

A water control manual (WCM) guides day-to-day decisions about when and how water will be stored or released to meet the Project's authorized purposes. The WCM also ensures the structural and operational integrity of the constructed features.

A WCM Does NOT...

- Add or remove federally authorized project purposes
- Increase or decrease storage allocations for flood risk management, water supply, or navigation
- Address specific issues such as sedimentation, recreation planning, fish stocking, etc.

Why create a WCM now?

Because Wallisville Lake does not have an impounded reservoir, a formal WCM was not necessary when the Project became operational.

Congress provided direction to all districts across the US to update or create a WCM for all structures that are actively managed, which meant that Wallisville now needs a formal WCM



Proposed Water Control Manual

Proposed Water Management

Normal Flow (equal to or greater than 2,000 cfs): • All structures remain open no flow changes.

Low Flow (less than 2,000 cfs): • Salinity Monitoring – All structures remain open. Monitor salinity and water levels. <u>Salinity Control</u> – High salinity triggers partial or complete closure of the spillway and lock gates to form a barrier to saltwater intrusion. Navigation limited.

GOAL Operate the Project so that saltwater does not impact water supply withdrawals from the Trinity River System.



No Changes! Everything stays the same.

Impacts of the Water Control Manual The dams, gates, and locks would not be operated any different than today.

 Saltwater intrusion will continue to be managed to minimize impacts to water supplies and sensitive habitats along the Trinity River.

- No change in recreation opportunities or how the Project is operated.
- No change to how flood risks are managed on the Trinity River.

Navigation will remain as it.









The Mouth of the Trinity River Waterbird Rookery hosts 12 species of

Today's Informational Meeting

Provide Comments

• Mail comments to:



How Can You Participate?

- Review information on the display boards and handouts
- Ask the USACE Staff questions
- Place comment cards in comment box tonight
- E-mail comments to: CESWG-WaterManagement@usace.army.mil
 - - **USACE**, Galveston District
 - Attn: Wallisville WCM
 - PO Box 1229
 - Galveston, TX 77553-1229



3 Options to Submit Your

Comments

For additional information, please visit the Wallisville Lake Project Office website where you can find:

A Copy of the Display Boards

Meeting Handouts

Latest Updates on the Study

https://www.swg.usace.army.mil/Locations/ Wallisville-Lake-Project-Office/

Where Can | Get Information?









