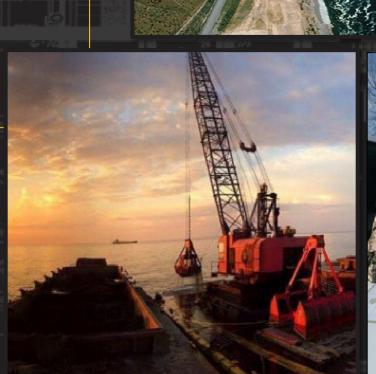
Mr. Thomas Smith, P.E. Chief, Operations & Regulatory Division **USACE** Headquarters

National Waterways Conference **Annual Meeting** Sacramento, CA 3 October 2023













## **ASSISTANT SECRETARY OF ARMY FOR CIVIL WORKS LINES OF EFFORT**



- **Upgrade Waterways and Ports to Strengthen Supply Chains and Economic Growth**
- Build innovative, climate Resilient infrastructure to protect Communities and Ecosystems
- **Modernize Civil Works Programs to better serve the** needs of disadvantaged communities
- Invest in Science, Research and Development to deliver enduring water-resource solutions
- Strengthen communications and relationships to solve water resource challenges



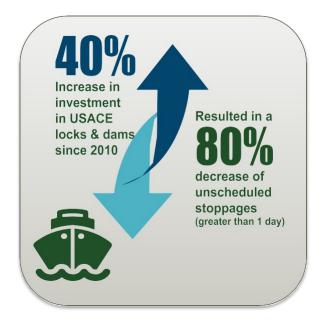
Chickamauga Lock



## **BUILDING A RELIABLE AND RESILIENT NAVIGATION SYSTEM**









11 modernization projects underway

**Increase Capacity** 

- Increased investment in upgrading waterways (1200' ft chambers)
- 50' deepening at New Orleans

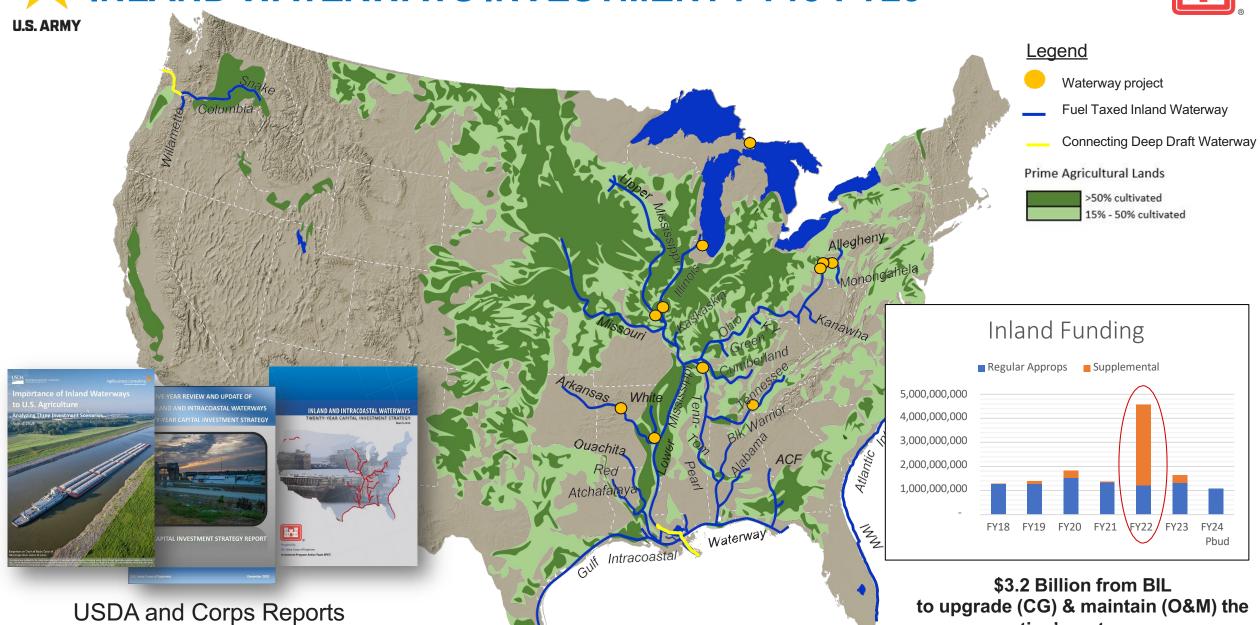
- Increase investment in maintaining the existing infrastructure
- Apply life cycle asset management principles to prioritize work

## Continuous Operation & Management

- Continuous Industry coordination
- Leveraging consolidated closures
- Heightened operation of the system during extreme events like the 2022 Low Water on the Mississippi River
- Leverage stakeholder groups



nation's waterways



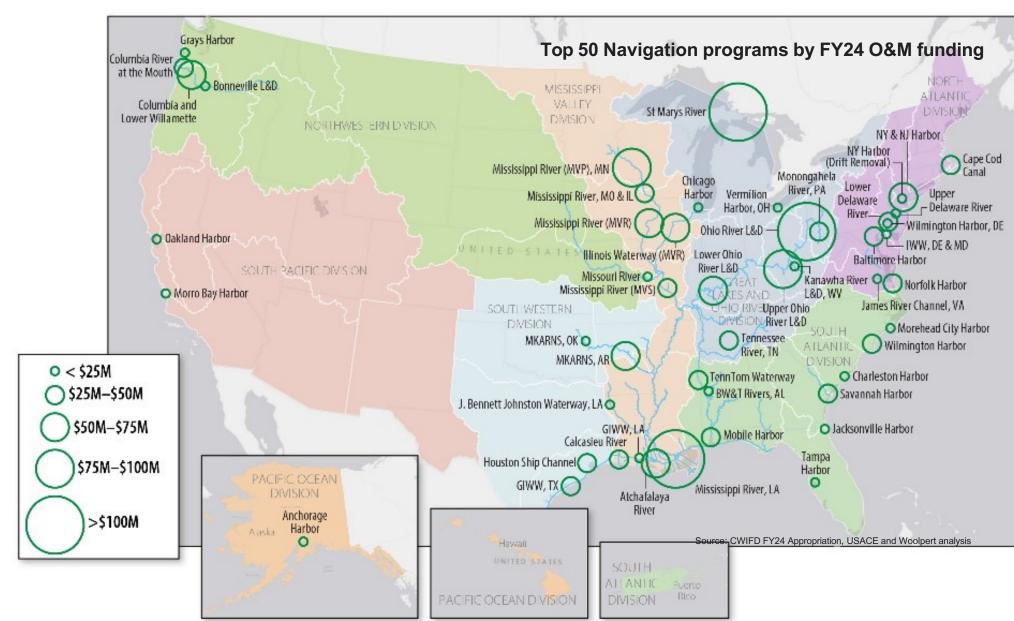


## **FOCUS ON SYSTEM RELIABILITY FY 2024**



#### U.S. ARMY

- \$2.6B planned investment in operations and maintenance of navigation projects to ensure system performance
- \$989 M focused on inland waterways infrastructure
- Since 2010, **USACE** has achieved an 80% reduction in unscheduled lock outages



## **ILLINOIS WATERWAY CONSOLIDATED CLOSURE 2023**



#### U.S. ARMY



Rewatering Dresden Island



Dresden Island Bulkhead



Marseilles Electrical Crossover



Marseilles Crossover Formwork



**Brandon Road Miter Gate** 



Brandon Road Miter Gate Welding

## **DELIVERING THE SUPPLY CHAIN DURING EXTREME DROUGHT**



#### VALUE TO THE NATION

PETROLEUM & PETRO-CHEM

**TOP FIVE MISSISSIPPI RIVER COMMODITIES** 

MISSISSIPPI RIVER ANNUAL TONNAGE VALUE: ~\$187 BLLION

CHEMICALS & RELATED PRODUCTS

**MISSISSIPPI RIVER ANNUAL TONNAGE:** 

**FOOD & FARM** 

SHORT TONNES OF CARGO

# MISSISSIPPI

**WATER EVENT 2022** 

START DATE OF EVENT: 01 SEP 2022 **END DATE OF EVENT: 18 JAN 2023** 

When our nation's busiest commercial waterway is impacted by low water levels, USACE works with Federal, State, Local and Industry partners to keep goods moving.





**MAXIMUM ACTIVE DREDGES:** 

**DOLLARS INVESTED IN** LOW WATER 2022:

COAL

**CUBIC YARDS (CYS) OF DREDGED MATERIAL DURING LOW WATER 2022:** 

**9** TOTAL

**\$52.2** MILLION

17.35 MILLION CYS



CRUDE MATERIALS

#### CONSISTENT INVESTMENT | USACE MISSISSIPPI RIVER INVESTMENT SINCE 2012

**BIPARTISAN INFRASTRUCTURE LAW** 

**MISSISSIPPI RIVER & TRIBUTARIES PROGRAM (MR&T)** 

To construct over 2M revetment squares and 14 miles of dikes.

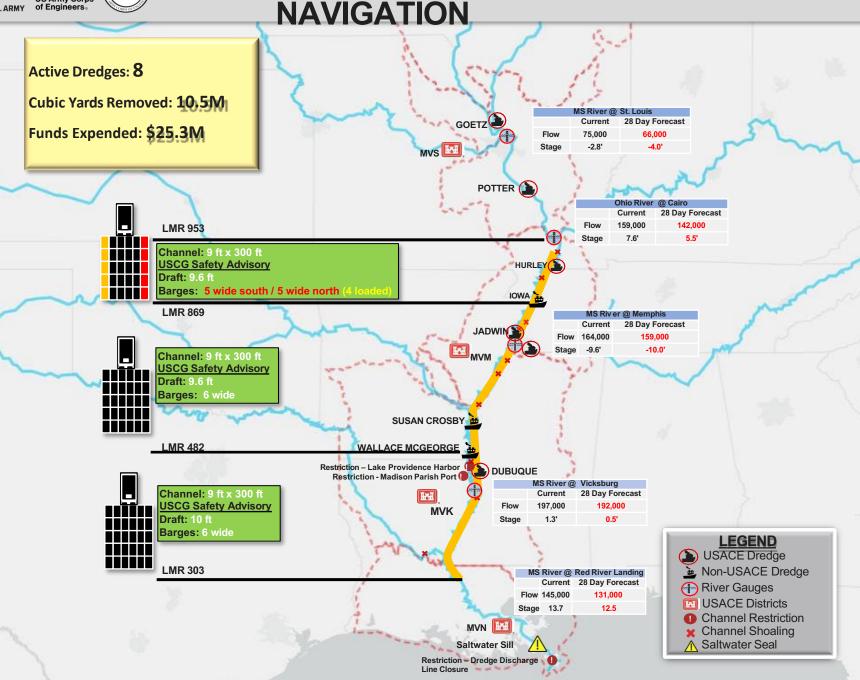
**REGULATED WORKS PROGRAM** 

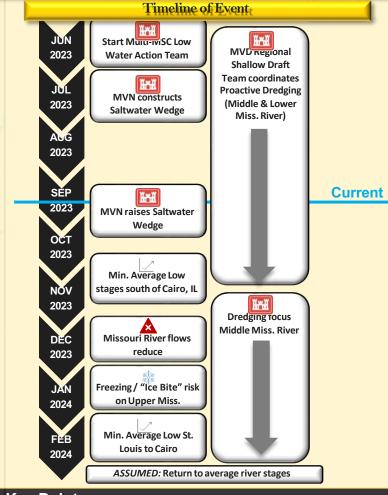
To remove rock from the channel, place revetments, and construct river training structures.

REVETMENTS, DIKES, AND RIVER TRAINING STRUCTURES CONCENTRATE RIVER FLOW AND FORCE IT TO SCOUR OUT A DEEPER NAVIGATION CHANNEL WHILE REDUCING BANKLINE EROSION

(AS OF 09 SEP 2023)

## MISSISSIPPI RIVER LOW WATER – NAVIGATION





#### **Key Points:**

- Anticipated dry conditions to continue into October and flows on the mainstem Mississippi River will continue to gradually fall.
- The saltwater wedge overtopped the previously constructed sill on 20 SEP, impacts to Belle Chasse in Plaquemines Parish are expected on 13 OCT, St. Bernard Parish o/a 19 OCT, Jefferson Parish o/a 24 OCT, and Orleans Parish o/a 22 OCT. This projections accounts for the augmented sill construct with the contractor mobilizing 25SEP and completing o/a 18OCT.
  - MVD has 22 dredges within in the MVD area of responsibility; 15
    Dredges operating this week on the Mississippi River and 8 Dredges
    are working the low water emergency.

### **VISION & GOALS: USACE LOCK & DAM REMOTE OPERATIONS**





Implement lock & dam remote control to modernize operations for navigation in the future.



Consistent national implementation. Establish national program to develop policy and guidance to enable consistent implementation with MSCs and Districts.



**Commonality.** Promote commonality through development of common operating procedures, staffing, design, and equipment / components.

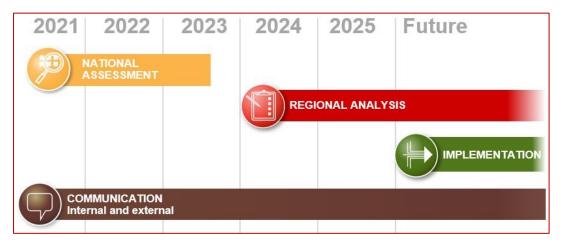


**Life cycle investment.** Develop a multi-year life cycle investment plan that is flexible and adaptable to USACE's unique requirements and circumstances.



**Prioritized for people.** Take care of people. Implement staffing transition and training plan.

#### TIMEFRAME:

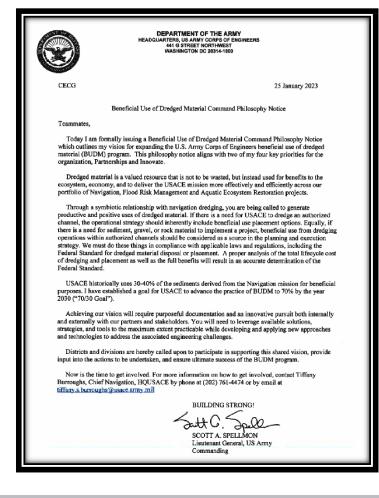




## BENEFICIAL USE OF DREDGED MATERIAL



Beneficial uses are defined as "productive and positive uses of dredged material, which cover broad use categories ranging from fish and wildlife habitat development, to human recreation, to industrial/commercial uses" (Engineer Manual 1110-2-5025, 2015).







#### **Dredge Disposal**

The Corps dredges ~ 270 million cubic yards regulated under the Clean Water Act annually

#### Revolutionize USACE BU

- Currently place ~40% beneficially
- Goal of 70% material placed beneficially by 2030

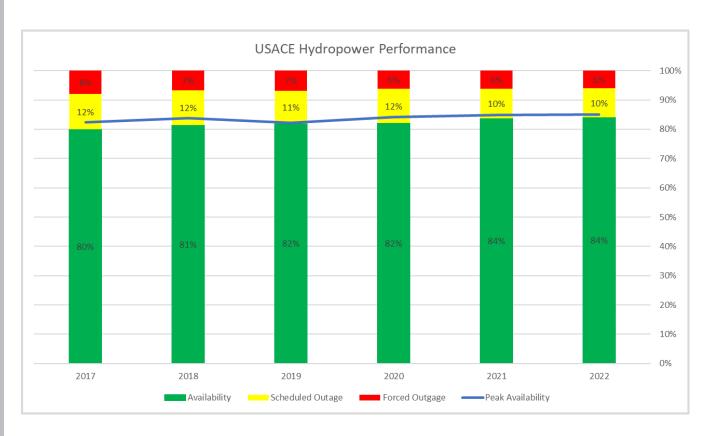
#### Major Initiatives to Advance Beneficial Use

- Regional Sediment Management
- Engineering with Nature
- WRDA 2020 Section 125 Implementation Guidance
- WRDA 16 Section 1122 Projects



## **HYDROPOWER UPDATE**





#### HYDROPOWER PERFORMANCE IMPROVING

- 25% Reduction in Forced Outage Time over the Past 5 Years
- Availability and Peak Availability Increasing
- **Industry Performance Data** 
  - Availability 80%
  - Scheduled Outages 14%
  - Forced Outage 6%
- Continue to address long-term outages and barriers to project delivery

#### **USACE Actions**

- Addressing Indirect Hydropower Costs
- Improving Enterprise Visibility of Major Hydropower Outages and Acquisitions
- Implementing Standardized Preventative Maintenance Tasks

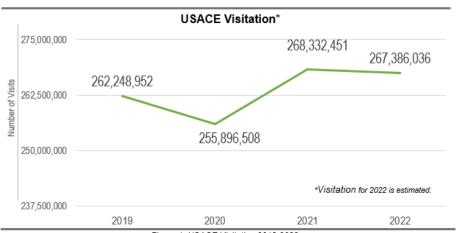
U.S. ARMY

## NATURAL RESOURCES CHALLENGES & INITIATIVES 🖼



#### **CHALLENGES**

- Visitor Demand continues to be high post COVID
- USACE hosted 1.4 billion visits at more than 4,800 recreation areas over the past 5 years
- Public access infrastructure requiring increased maintenance
- Severe storm damages from changes in climate
- Increasing invasive species impacts
- Preventing public fatalities



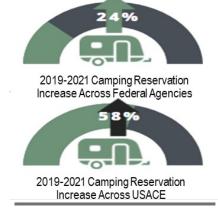


Figure 1: USACE Visitation 2018-2022

#### **OPPORTUNITIES**

- Support to underserved communities.
  - Over 80% of USACE recreation areas are within 30 miles of disadvantaged communities.
  - Recreation program contributes \$14B in visitor spending to local communities and supports 217K jobs

#### **Administration Initiatives:**

- BIL/DRSAA \$101M repairs (FY22-23)
- Electric Vehicle Support Equipment \$28M (FY22-23)
- FICOR Federal Interagency Council on Outdoor Recreation
- America the Beautiful Protect 30% of America's lands by 2030



Deteriorating infrastructure



Invasive aquatic plants covering a waterway



## REGULATORY PROGRAM



#### **Off-Shore Wind**

- Currently reviewing 9 Individual Permit Actions supporting establishment of new off-shore wind facilities.
- Working closely with applicants and BOEM (lead agency) as a cooperating agency for NEPA and FAST-41.

#### **Procedures for Protection of Historic Properties (Appendix C)**

Based on comments received on the "Modernizing Civil Works" Federal Register Notice, developing options for removing 33CFR 325 Appendix C and ensuring that National Historic Preservation Act responsibilities are appropriately addressed in line with USACE Regulatory authorities.

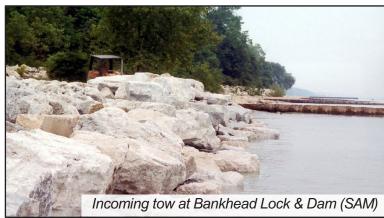
#### **USACE Action Plan**

- Supporting Plan to the Biden-Harris Permitting Action Plan.
- Focused on efforts to improve both quality and timeliness of Regulatory decisions

#### Water of the US (WOTUS)

- Published in the Federal Register 8 SEP 2023
- Rule became effective 8 SEP 2023
- USACE Regulatory working with ASA(CW) and EPA to develop implementation materials





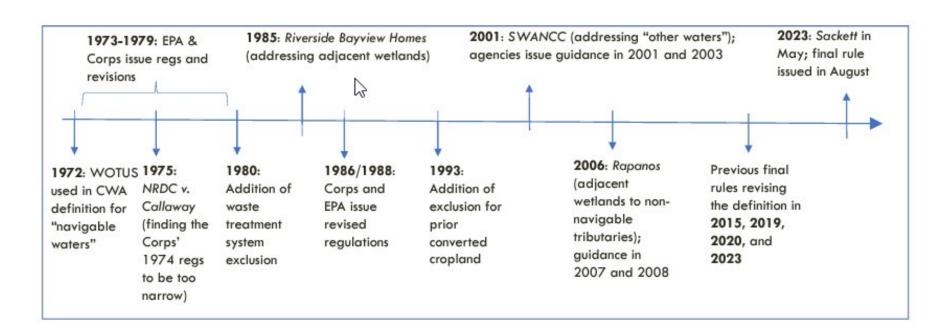


## **WATERS OF THE UNITED STATES**



## **Background: "Waters of the United States" Over Time**

The definition of "waters of the United States" has been a subject of dispute and addressed in several major Supreme Court cases.



- **29 AUG 2023**: EPA and Department of the Army issued a final Rule to amend the "Revised **Definition of 'Waters** of the United States" Rule (January 2023 Rule)
- 08 SEP 2023: Final Rule "Revised **Definition of 'Waters** of the United States'; Conforming," (Amended 2023 Rule) published in the Federal Register and became effective.



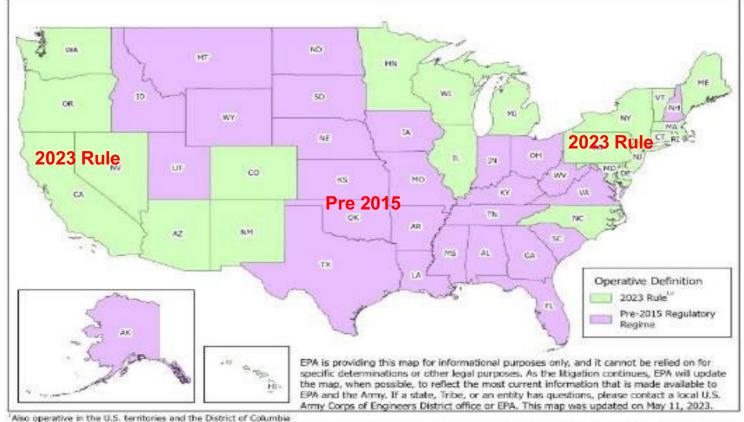
## **WOTUS - CURRENT STATUS**



### The court's decision in Sackett did not repeal any regulation defining WOTUS.

- 23 States January 2023 Rule
- The Amended 2023 Rule specifically conforms the January 2023 Rule
- 27 States "Pre-2015 regulatory regime" (pre-2015 definition of "waters of the United States," as informed by the 2003 SWANCC and 2008 Rapanos guidance documents).

#### Operative Definition of "Waters of the United States"



The pre-2015 regulatory regime is operative for the Commonwealth of Kentucky and Plaintiff-Appellants in Kentucky Chamber of Commerce, et al. v. EPA (No. 23-5345) and their members (Kentucky Chamber of Commerce, U.S. Chamber of Commerce, Associated General Contractors of Kentucky, Home Builders Association of Kentucky, Portland Cement Association, and Georgia Chamber of Commerce).

## **KEY POINTS IN SACKETT** U.S. ARMY (APPLIES TO BOTH THE JANUARY 2023 RULE AND PRE-2015 REGIME)



- "[T]he CWA's use of 'waters' encompasses only those relatively permanent, standing or continuously flowing bodies of water forming geographical features that are described in ordinary parlance as 'streams, oceans, rivers, and lakes."
- "[T]he CWA never mentions the "significant nexus" test, so the EPA has no statutory basis to impose it."
- "In sum, we hold that the CWA extends to only those wetlands that are "as a practical matter indistinguishable from waters of the United States. This requires the party asserting jurisdiction over adjacent wetlands to establish
  - "first, that the adjacent [body of water constitutes]...'water[s] of the United States,' (i.e., a relatively permanent body of water connected to traditional navigable waters); and
  - second, that the wetland has a continuous surface connection with that water, making it difficult to determine where the 'water' ends and the 'wetland' begins."
- Waters of the United States | US EPA (https://www.epa.gov/wotus)

Questions?

National Waterways Conference Annual Meeting Sacramento, CA 3 October 2023









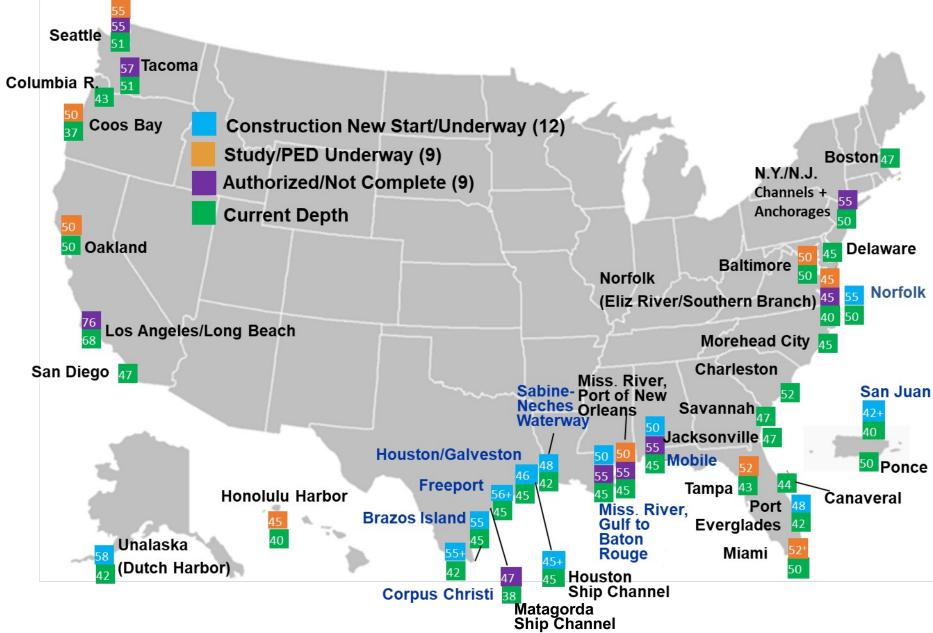


**US Army Corps** of Engineers



## Post-Panamax Port Projects/Studies

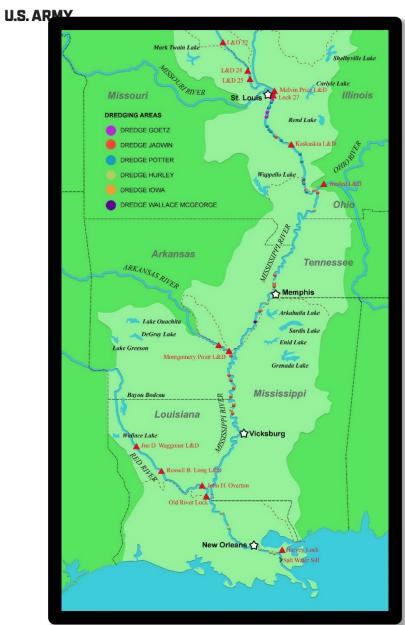


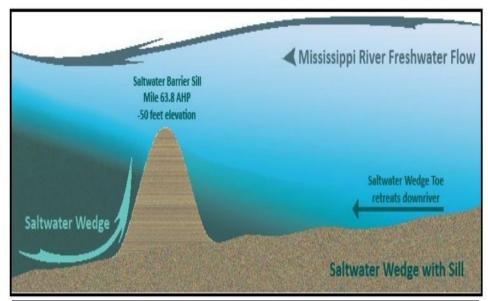


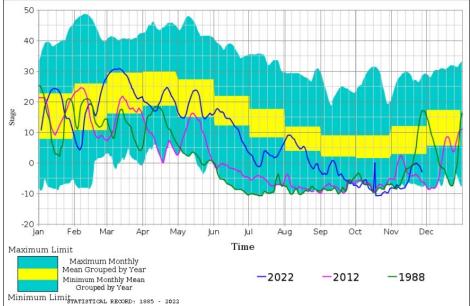


## **USACE LOW WATER RESPONSE JUL 2023 – ONGOING**









- Managed reservoirs to add water
- Continuous communication with Industry
- Channel marking in coordination with USCG
- Maintained authorized depth where possible
- Utilized 7 dredges on Mississippi River and 2 dredges on the lower Ohio River
- Constructed Saltwater
   Barrier to protect water
   intakes 11-27 July 2023
- Weekly updates to ASA(CW); USACE Leadership and the White House

