

TENNESSEE-TOMBIGBEE WATERWAY CONFERENCE

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DISTRICT ENGINEER
U.S. ARMY CORPS OF ENGINEERS
MOBILE DISTRICT

AUGUST 12, 2022

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**US Army Corps
of Engineers®**



TENNESSEE-TOMBIGBEE WATERWAY CONFERENCE

NELSON SANCHEZ

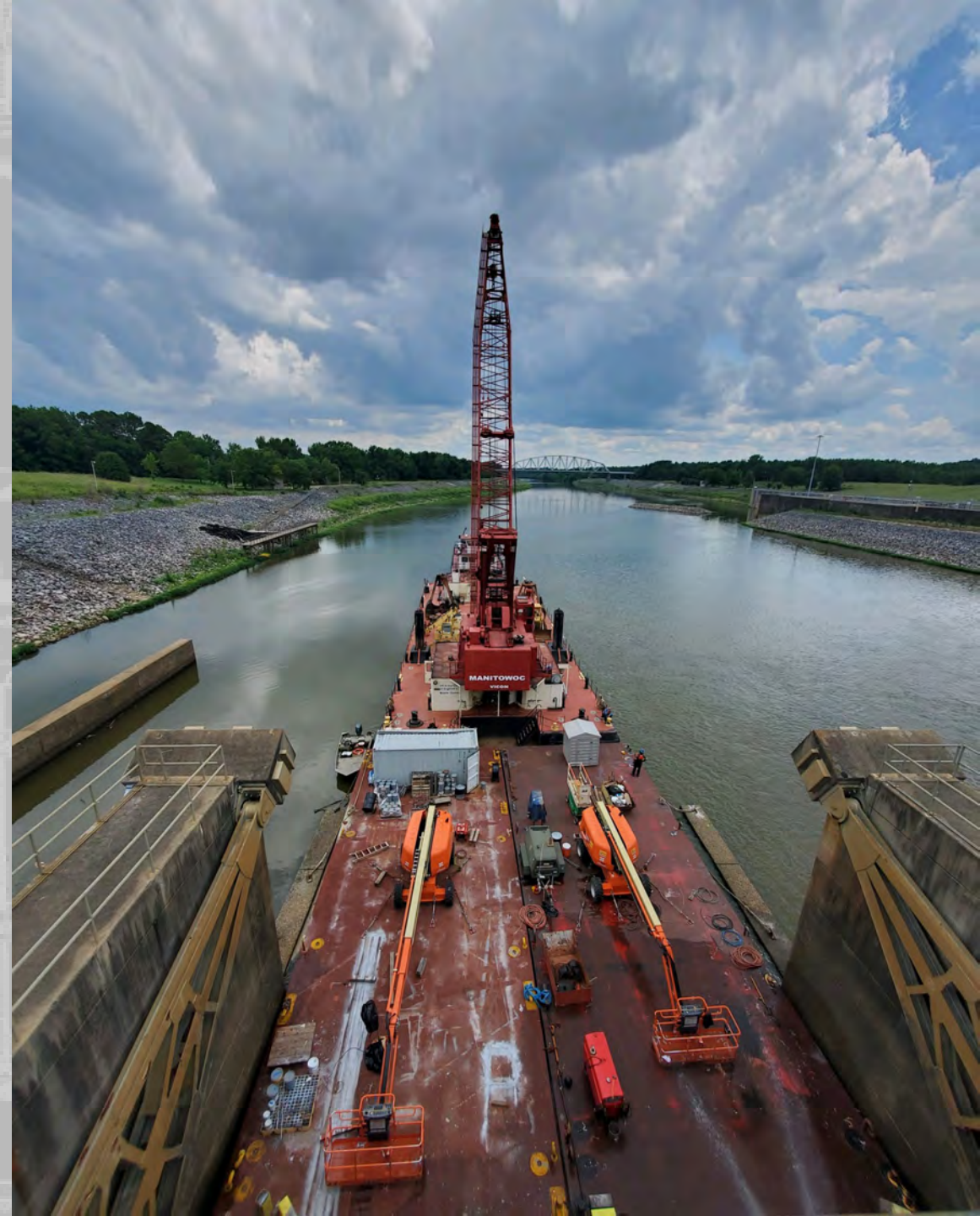
Chief, Operations Division
Mobile District

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August 12, 2022





TENNESSEE-TOMBIGBEE WATERWAY

SAM 22/23 O&M PROGRAM (X1000)

	President Budget	Congressionally Directed Spending	IIJA	President Budget
Project	FY22	FY22	FY22	FY23
TTWW	28,986	4,000	12,139	29,301
BW&T	24,652	3,200	17,017	63,945
GIWW	6,745	-	15,385	6,365
AL River	15,252	8,380	1,260	23,248
Mobile Harbor	30,212	32,000	32,000	44,081

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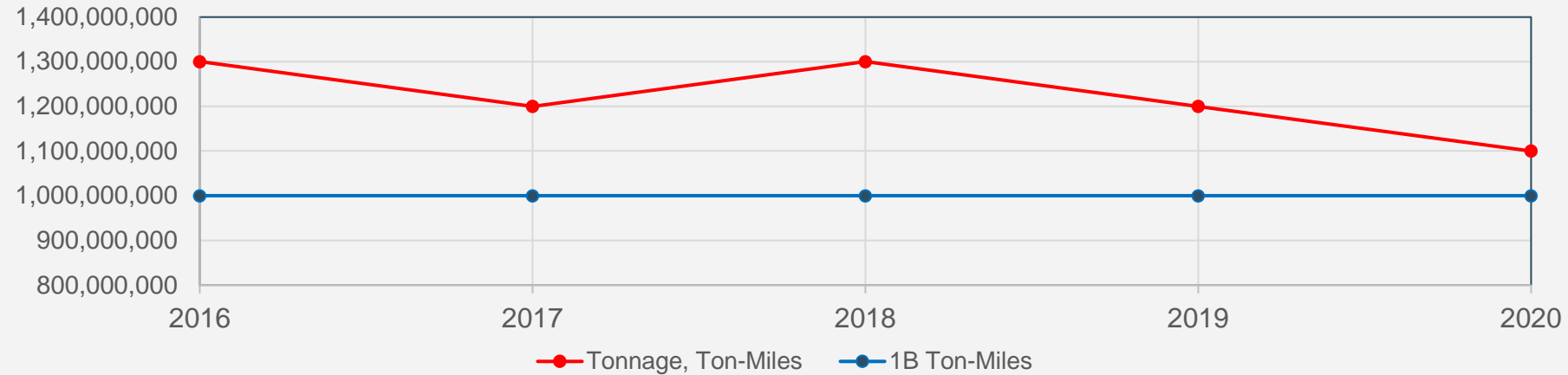


TTWW & BWT TONNAGE

SYSTEM TONNAGE (IN 1000S)

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>5 Yr Avg</u>
TTWW	7,931	7,290	7,412	7,000	6,400	7,207
BWT	17,705	16,910	17,010	17,300	16,000	16,985

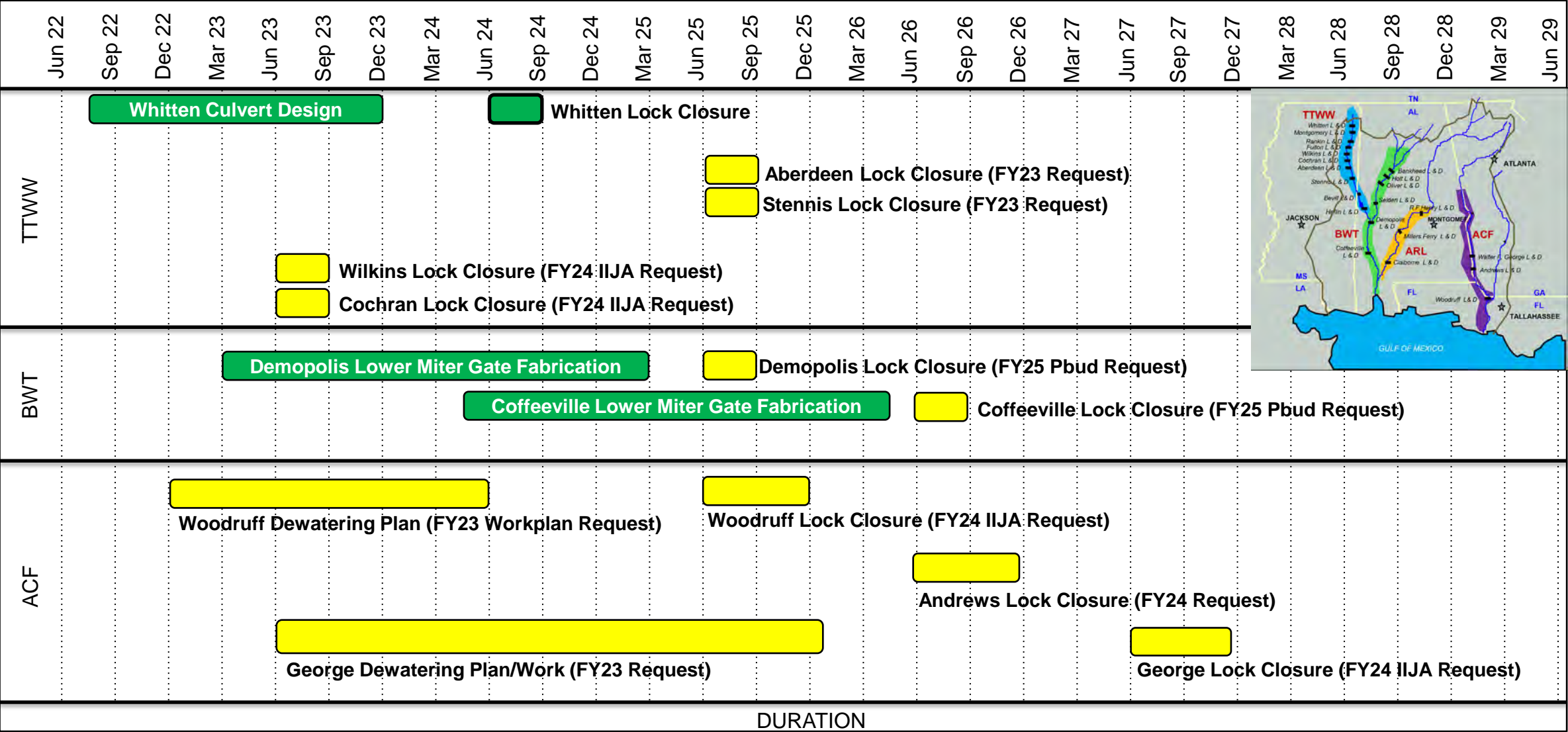
TENNESSEE-TOMBIGBEE WATERWAY TON MILES



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MOBILE DISTRICT IN-HOUSE LOCK CLOSURE SCHEDULE

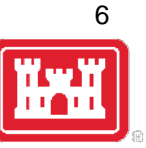


FUNDED

REQUESTED



TENNESSEE-TOMBIGBEE WATERWAY VISITATION AND ECONOMIC BENEFITS



VISITATION

- 1,319,560 visits reported in FY21

ECONOMIC BENEFITS

- \$78.6M in visitor spending
- \$39.5M in sales
- 647 jobs
- \$15.8M in labor income
- \$21.6M in value added (wages & salaries, payroll benefits, profits, rents, and indirect business taxes)



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TTWW / BWT NAVIGATION FEASIBILITY STUDY



Description/Scope:

The Tennessee Tombigbee Waterway and Black Warrior Tombigbee Rivers Study includes the investigation of possible deepening, widening of other waterway improvements to improve commercial navigation on the system. The interested user group is the Tennessee Tombigbee Waterway Development Authority which is a four-state compact composed of Alabama, Mississippi, Tennessee and Kentucky.

Feasibility study is 100% Federally Funded.

Status:

- Study funds received 3 May 2022
- Study Scoping Underway

Challenges:

- Extensive environmental effort; Study scope may exceed 3x3 planning requirements

Way Ahead:

- Requesting exemption to 3x3 requirement
- Estimated Timeframe: 6 years, 3 months
- Estimated Cost: \$11.1M
- Pushing for inclusion in WRDA 2028



Aberdeen Lock & Dam – TTWW 2019 Historic Flood

MOBILE HARBOR DEEPENING



CONSTRUCTION PHASING

Phase 1: Bar Channel Deepening Complete (\$10M)

2.1MCY

Hopper

Phase 2: Bar Channel & Bend Easings to 52' plus Widener Adv. Jan 2023, B.O. Mar 2023

6.1MCY

Hopper

Phase 3: Deepening Lower Bay Channel Complete (\$65.1M)

10.1MCY

Hopper

Phase 4: Deepening remainder of Lower Bay Channel and portion of Upper Bay Channel Awarded 11 July 2022 (\$57.6M)

5.7MCY

Bucket

Phase 5: Deepen Upper Bay Channel (Relic Shell)

4.6MCY

Pipeline

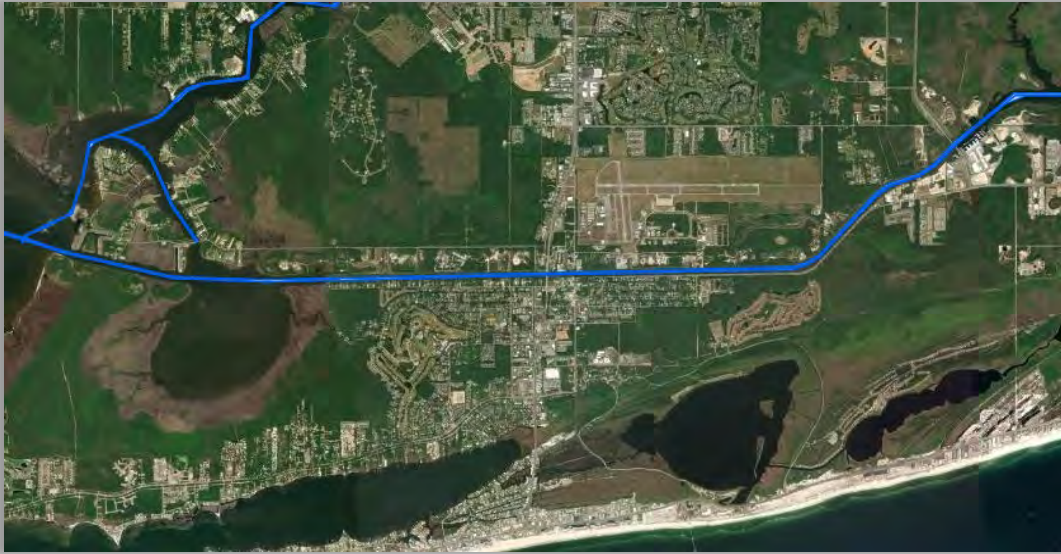
Phase 6: Turning Basin

2.1MCY

Bucket and Scow



REGULATING DEVELOPMENT ALONG INLAND SYSTEMS



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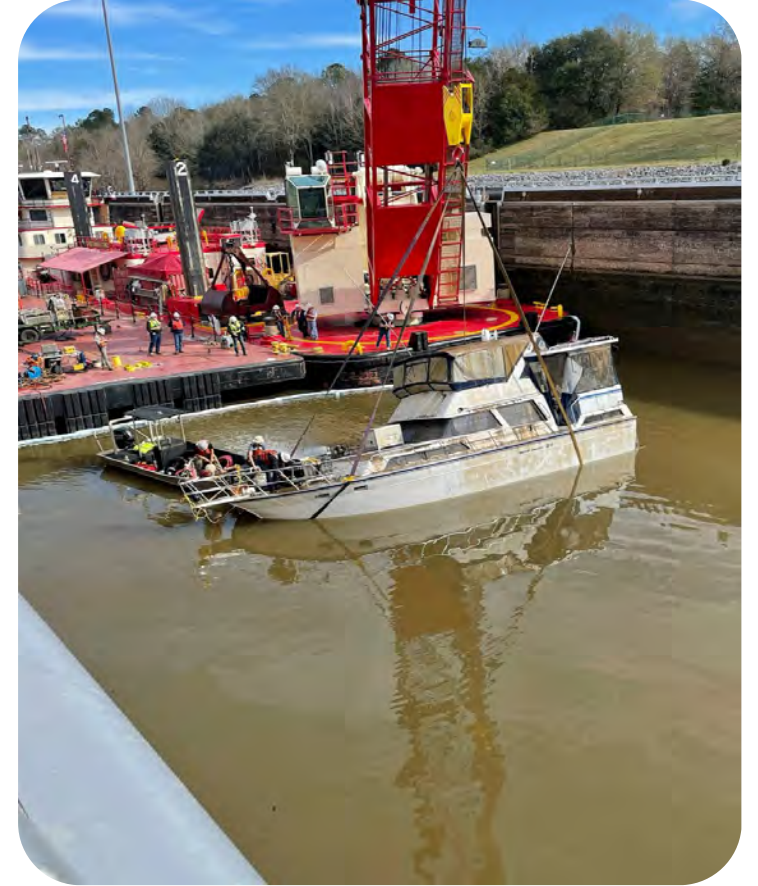
INDUSTRY / USER SAFETY LOCKS & WATERWAYS



**Bevill Lock & Dam 2020
Barge Allision & Sinking**



**Stennis Lock & Dam 2021
Unsecured Vessels**



**Coffeerville Lock & Dam 2022
Sunken Recreation Vessel**

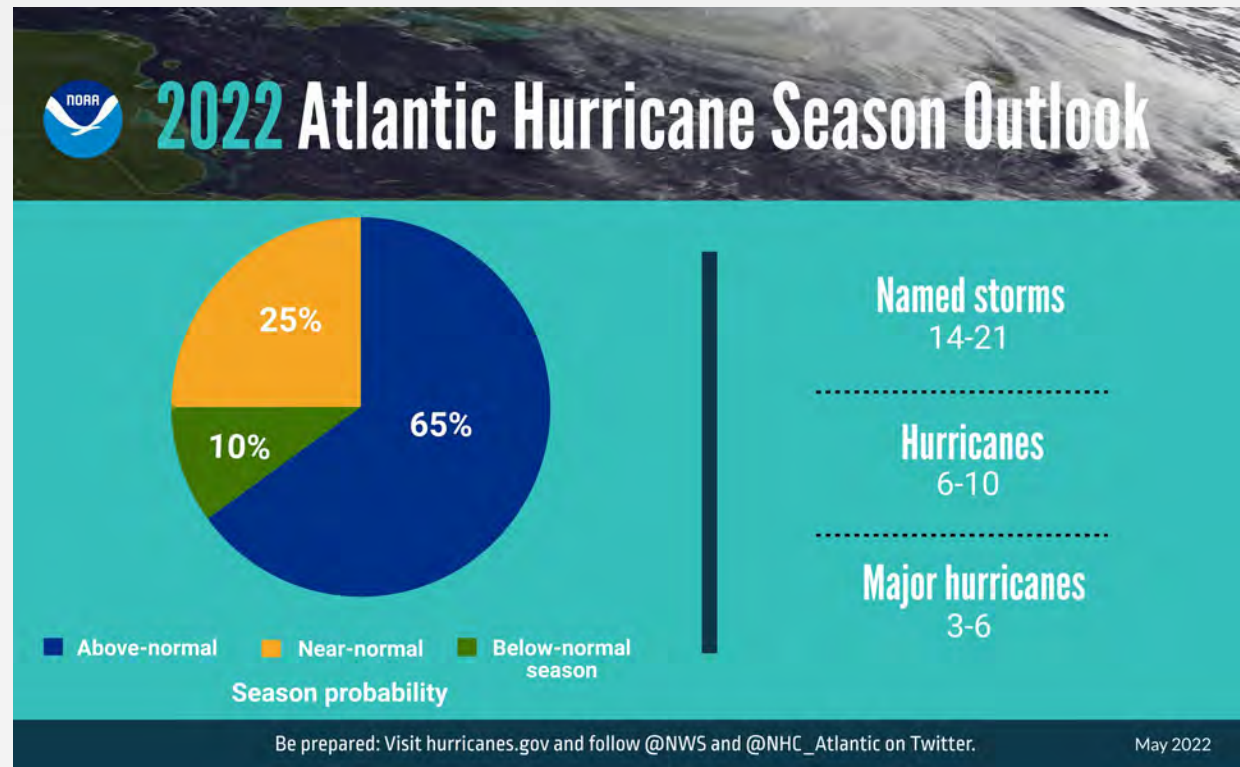


2022 ATLANTIC HURRICANE SEASON OUTLOOK

11



May	June	July	August	September	October	November
	<div>Alex</div>	<div>Bonnie</div> <div>Colin</div>				





OPERATIONS DIVISION PARTNERSHIPS

12



PRE- AND POST-STORM COORDINATION

- USACE hosts Industry Day prior to hurricane season and during high water
- Coordinate Dredge Pre-Storm and Post-Storm actions with USCG and Port to open waterways quickly and safely
- Prioritize survey efforts
- Coordinate with USCG post-storm to survey channels and open waterways as quickly as possible



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JUSTIN MURPHREE, P.E.

**OPERATIONS PROJECT MANAGER
TENN-TOM WATERWAY**



TENNESSEE-TOMBIGBEE WATERWAY

COMMERCIAL AND RECREATIONAL LOCKAGES

PERIOD: 2019 TO 2021
DATA FROM LPMS

Lock	2019		2020		2021		3-Yr Average	
	Comm*	Rec	Comm*	Rec	Comm*	Rec	Comm*	Rec
Whitten	1117	767	1048	599	1234	998	1133	788
Montgomery	904	665	883	498	1021	843	936	669
Rankin	911	707	905	595	1035	919	950	740
Fulton	918	747	900	530	1027	843	948	707
Wilkins	931	745	905	581	1030	963	955	763
Amory	924	770	899	568	1032	962	952	767
Aberdeen	903	685	966	525	1083	974	984	728
Stennis	1136	853	1102	653	1384	1099	1207	868
Bevill	1123	738	1060	636	1238	1052	1140	809
Heflin	1161	713	1018	601	1208	919	1129	744

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TENNESSEE-TOMBIGBEE WATERWAY



FLEET CHANGES

- Floating Plant / Crane Barge
- Crane
- Survey Boat
- Constitution / Work Boat
- Strike Removal



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16



FLOATING PLANT / CRANE BARGE



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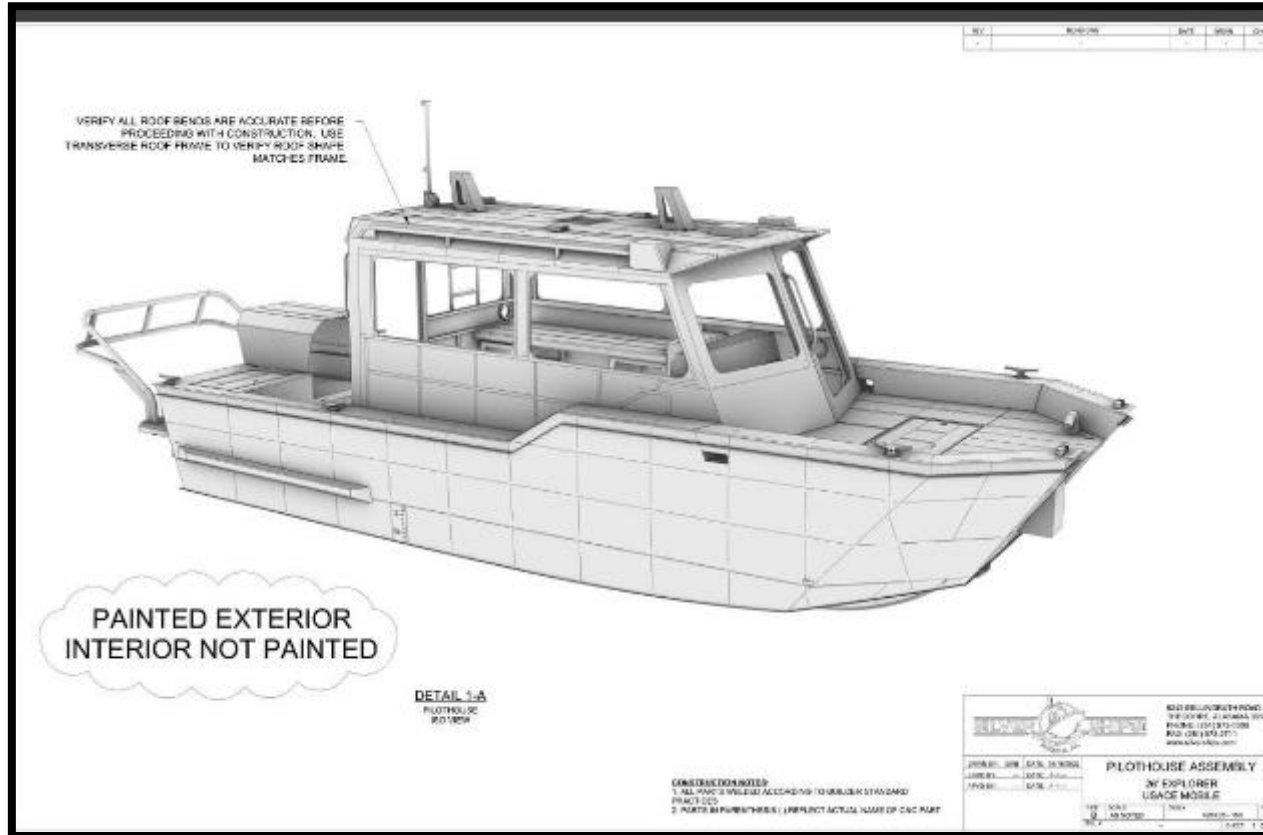
CRANE



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SURVEY BOAT





TENNESSEE-TOMBIGBEE WATERWAY

19



CONSTITUTION / WORK BOAT



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STRIKE REMOVAL



MODEL

10-Inch EXH 10000 Hydraulic Excavator Attachment

OPERATING LEVELS

MIN FLOW	1200 GPM
MAX FLOW	5000 GPM
HEAD RANGE	Up to 200 ft
DISCHARGE SIZE	10 inch
SUCTION SIZE	12 inch
SOLIDS HANDLING	Solids up to 9 inches
MAX SPEED	1800 RPM
PERCENT SOLIDS	Up to 40-70% Solids
CU YD MATERIAL HR	300-350



TENNESSEE-TOMBIGBEE WATERWAY

21



24" DREDGE

Dredging started Jun '22:

Problem Areas

- ~~Mile 266: 47% blockage – 45,000 CY~~
- ~~Mile 366: 35% blockage – 240,000CY~~
- Mile 349: 47% blockage – 65,000 CY
- Mile 329: 55% blockage – 105,000 CY
- Mile 326: 42% blockage – 45,000 CY
- Mile 296: 48% blockage – 40,000 CY

Total CY: **540,000**

Dredged thru July: 285,000



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