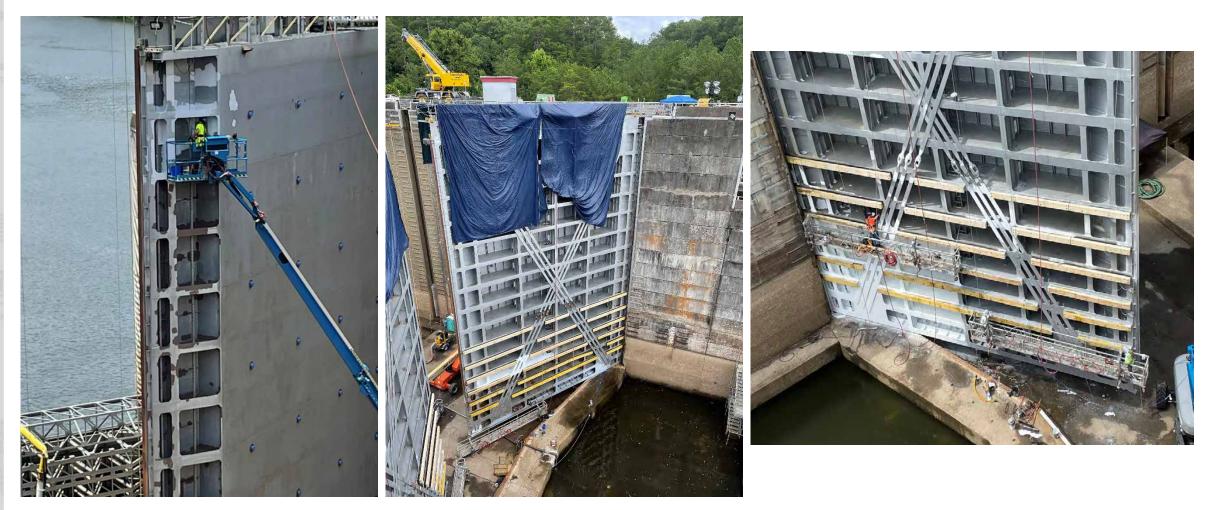
PREPPING AND PAINTING







BANKHEAD LOCK CLOSURE



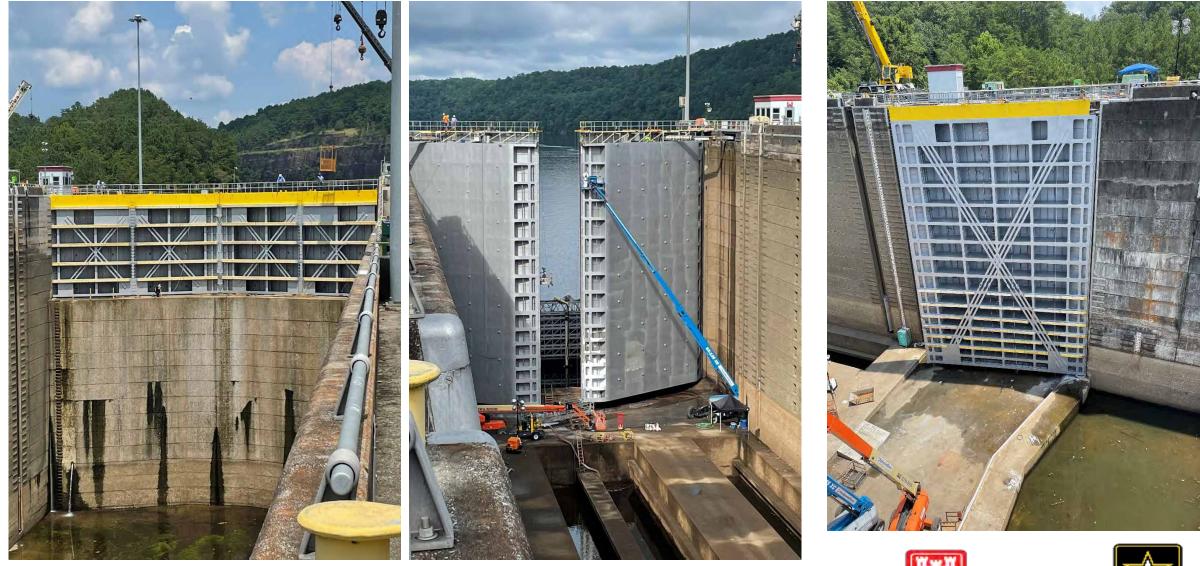
Painting lower gates







Completed Painting & Gate Repairs







OLIVER LOCK – DEWATERED







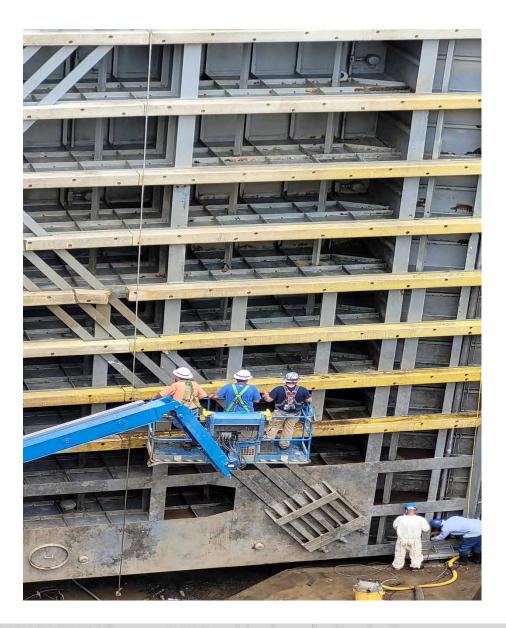
OLIVER LOCK

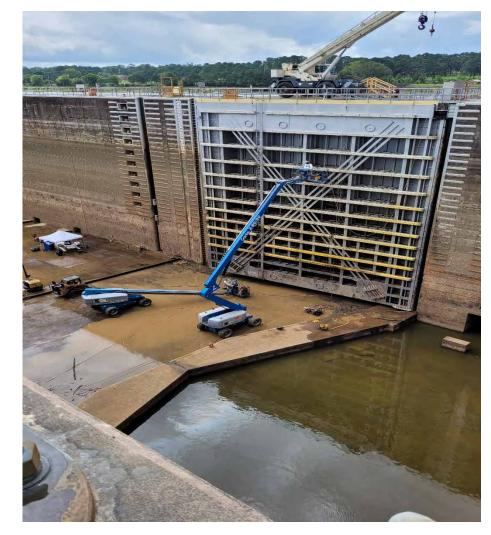






Oliver Lock dewatered, inspection & painting

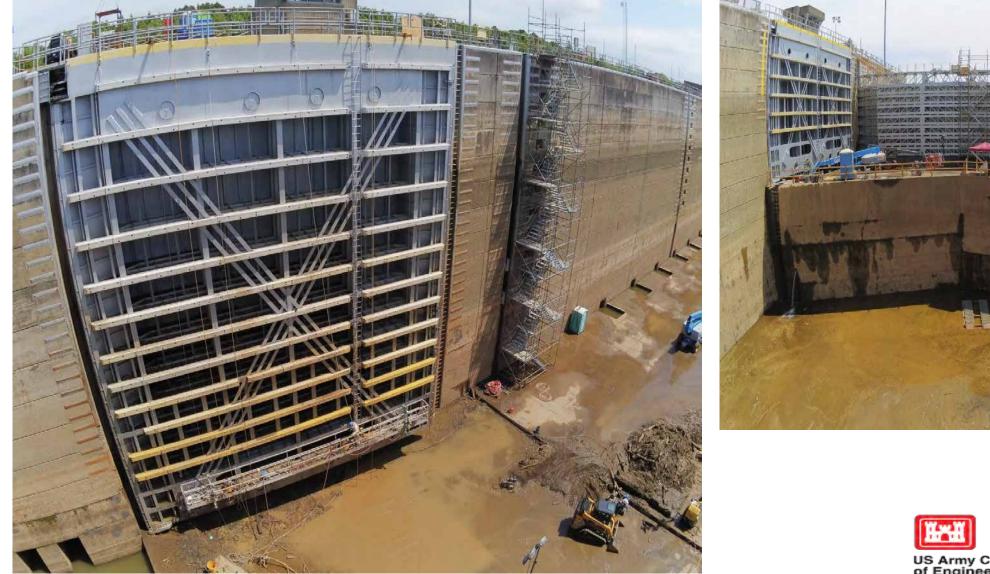








OLIVER LOCK – REPAIRS AND PAINT PREP

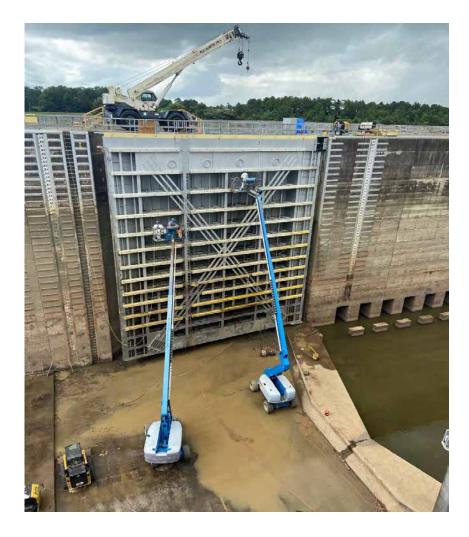


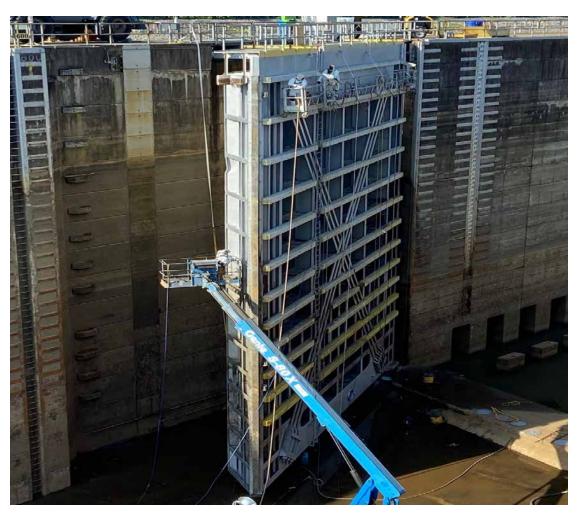






PREPPING AND PAINTING MITER GATES









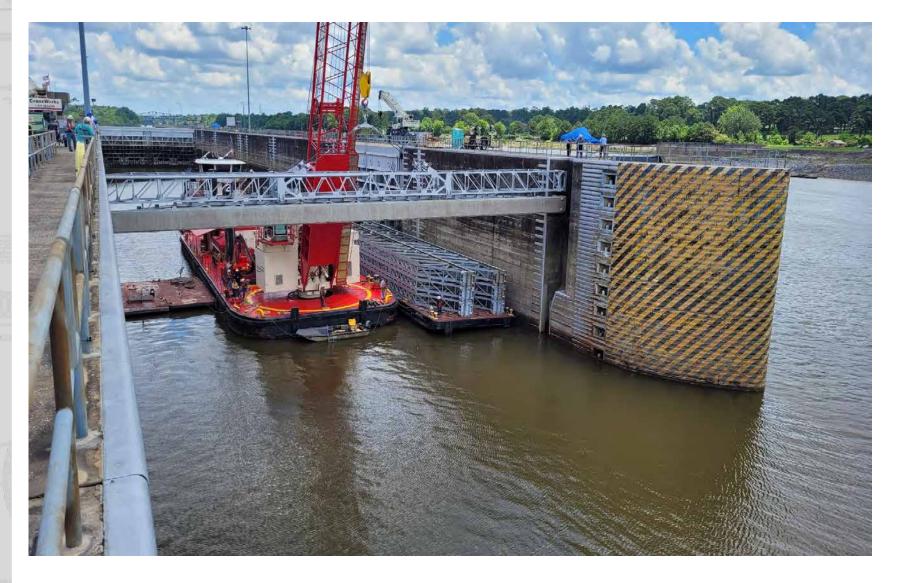
PAINTING COMPLETE, REMOVING STOPLOGS TO FLOOD CHAMBER







REMOVING STOPLOGS – WORK COMPLETE





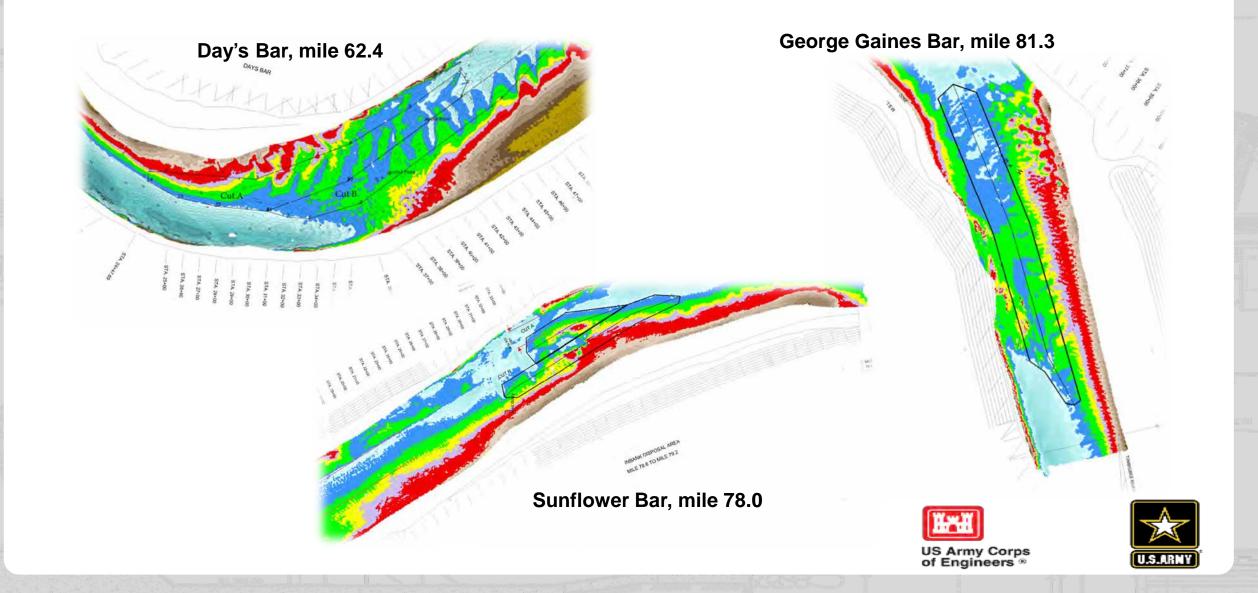


2021 BWT MAINTENANCE DREDGING

Dredging contract awarded to Inland Dredging Co. (24" Cutterhead pipeline dredge Kelly L.) ~ \$4.3M

- Dredging delayed to Early August due to shuffling dredges with Vicksburg District
- Current significant areas of concern on lower BWT:
 - Days Bar, mile 62.4
 - Sunflower Bar, mile 78.0
 - George Gaines, mile 81.3

2021 BWT MAINTENANCE DREDGING



AIDS TO NAVIGATION

- USCG Cutter WEDGE
- Virtual ATONs ???





US Army Corps of Engineers ®

FUTURE MAINTENANCE WORK - PENDING FUNDING AVAILABILITY

- Sunflower Advance Dredging to Reduce Annual Maintenance Costs
- Demopolis Lock Lower Gallery Pipe Replacement, Deteriorated Hydraulic Lines (no closure required) – planning for FY22
- Demopolis Lock Wiring Replacement (power & control); MCC replaced in 2018 planning for FY22 – planning for FY22
- Holt Lock, Continue to Replace Emptying/Filling Valves (no closure required) in process on 1 of 4 valves
- New Lower Miter Gates at Coffeeville and Demopolis Locks (2 ¹/₂ year Fabrication Duration and 30-day closure each to install)
- Acquisition of Spare Parts for Lock and Spillway Operating Systems
- Replace Electrical Motor Control Centers (MCC) at Selden Lock and Spillway (no closure necessary)



NEW HOLT LOCK VALVES (4 TOTAL), WILL BE INSTALLED ONE AT A TIME WITHOUT CLOSING THE LOCK.

- UPDATE:
- R&D Maintenance
 Services, O&M
 Contractor, in
 process of 1st of 4
 replacements.
- Anchor bolt and plates re-built and new girder beam installed.
- Next, the new valve will be installed.







UPDATE : FLOATING PLANT/CRANE REMOVING OLD LOCK VALVE









HOLT LOCK VALVE – REMOVE AND REPLACE







US Army Corps of Engineers *

BLACK WARRIOR/TOMBIGBEE RIVER: COFFEEVILLE EMERGENCY LOCK CLOSURE – 14 APRIL 2021

At approximately 1100 14 April 2021 the lock operators at Coffeeville Lock, Tombigbee River mile 116.6, noticed the lower river miter gate reaction roller base was cracked almost completely through. The reaction roller keeps the rack inline with the gate hydraulic cylinder and transfers the linear motion to the sector gear, which opens and closes the miter gate. Without the reaction roller the rack can fall out of alignment with the cylinder and sector gear, breaking the machinery linkage for the miter gate rendering it inoperable.

BWT Project contacted TTWW Project to secure a spare reaction roller assembly. It took some time, concrete removal, to remove the broken assembly and install the spare assembly to put the lock back in service.

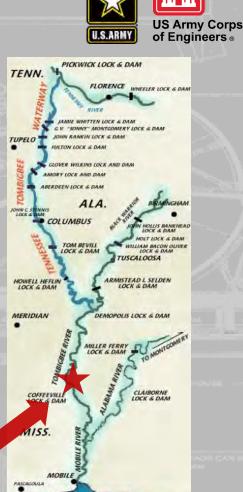


Crack running through the reaction roller assembly base









GOAL 2 *Deliver Integrated Water Resource Solutions*

BLACK WARRIOR/TOMBIGBEE RIVER: COFFEEVILLE EMERGENCY LOCK CLOSURE – 16 APRIL 2021

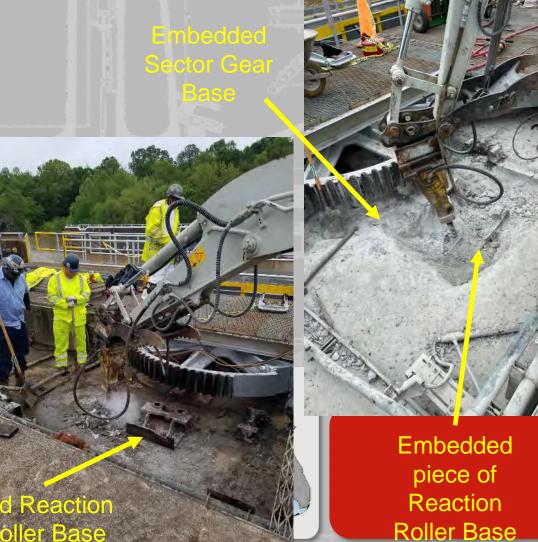


O&M contractor maintenance removed concrete around the embedded roller assembly base and the sector gear base.

Mechanical hammer chipper being used by O&M contractor maintenance crews to remove the second pour of concrete that encases the machinery foundations.

The roller assembly is bolted to the sector gear base with 12 turned bolts. Once the bolted connection was exposed the old base was removed and the new reaction roller assembly bolted to the sector gear base. Then the rack and rollers were re-installed and connected to the hydraulic cylinder. Once the machinery was reconnected and tested the lock was returned to service. Repouring of the concrete occurred once traffic was cleared





BLACK WARRIOR/TOMBIGBEE RIVER: COFFEEVILLE EMERGENCY LOCK CLOSURE – 19-21 APRIL 2021



New rack and reaction roller assembly installed. O&M Maintenance crews ensuring proper alignment of components.

Once components aligned O&M contractor made final adjustments and testing of miter gate machinery.

Lock re-opened to traffic afternoon of 21 April 2021.

Approx. 35 commercial vessels were waiting to lock.

The final item of re-pouring the concrete around the machinery bases took place on 26 & 27 April; allowing 24 hours of cure time.





MOBILE DISTRICT:



QUESTIONS?



TENNESSEE-TOMBIGBEE WATERWAY

INTERPORTATION INCOMENDATION

THANK YOU FOR YOUR INTEREST!