

# LOWER MONONGAHELA RIVER 2-3-4 PROJECT

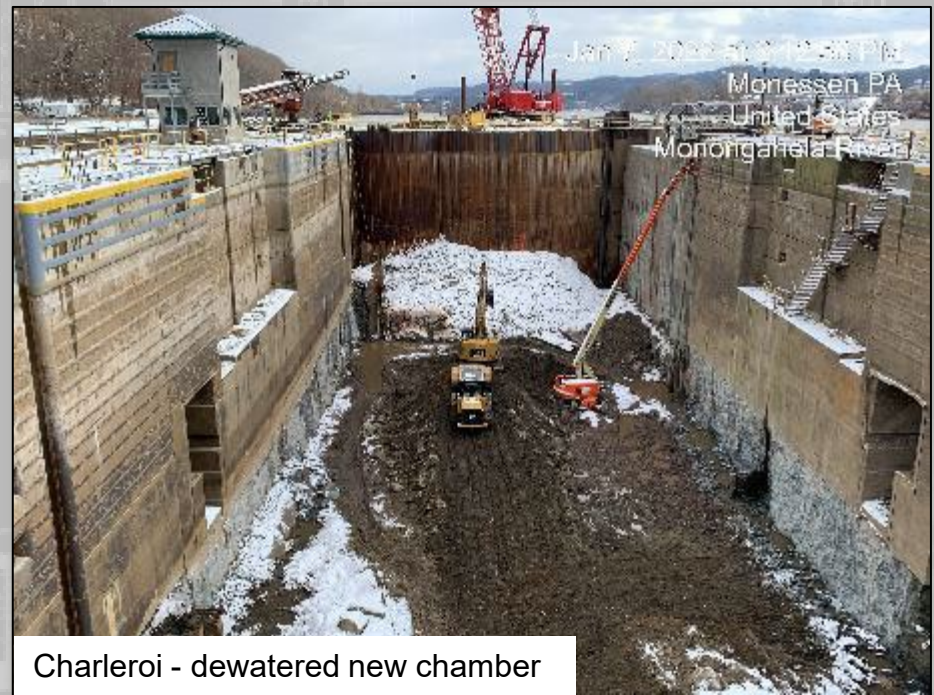
## INLAND WATERWAYS USERS BOARD MEETING #96

Mr. Steve Fritz  
MEGA Projects Program Manager U.S.  
Army Corps of Engineers  
Pittsburgh District  
20 April 2022

***World-Class Delivery...  
Real-World Impact!***



US Army Corps  
of Engineers®



Charleroi - dewatered new chamber



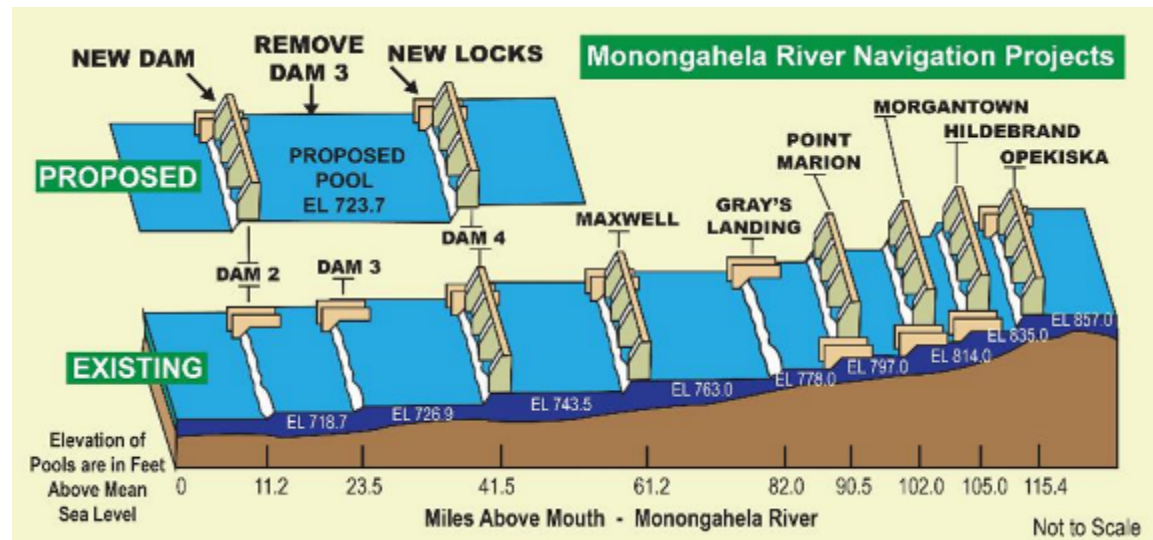
Victory Hollow - project disposal area

# PROJECT OVERVIEW OF SCOPE



## Major Project Features

- Braddock locks and dam (L/D 2): New gated dam Completed 2004
- Charleroi locks and dam (L/D 4):
  - Two new larger lock chambers (84' wide x 720' long)
    - River chamber under construction
    - Land chamber deferred
  - Dam stilling basin extension
- Locks and Dam 3 removal
- Pool 3 dredging
- Relocations





# SCHEDULE- WORK DONE IN FY22



- Charleroi Stilling basin extension
  - Completed all 77 grout bag placements
  - Current required completion date is 23 November 2022
  - Contractor is well ahead of schedule
- Monongahela River pool 3 dredging
  - Contract physically completed 31 March 2022
  - Over 1.2 million cubic yards of material beneficially reused



Stilling basin construction – floating plant



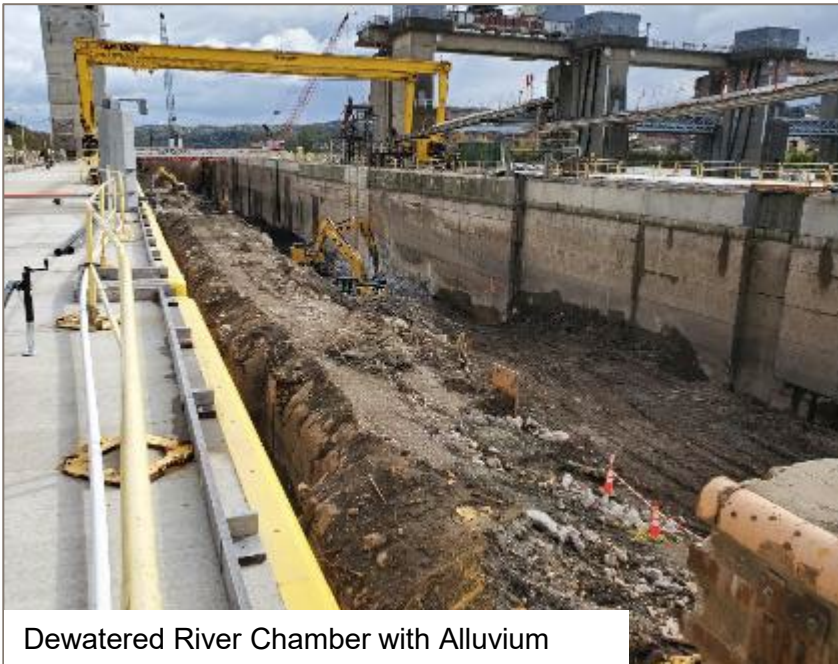
Pool 3 dredging operation



# SCHEDULE- WORK DONE IN FY22



- Charleroi river chamber completion
  - Chamber dewatered
  - Old river wall removal is complete
  - Alluvium removal from the river chamber is nearing completion
  - Installing facing on monoliths
  - New middle wall control tower exterior complete



Dewatered River Chamber with Alluvium



Dewatered River Chamber 80% Alluvium removed



# PROJECT SCHEDULE - ONGOING & REMAINING WORK

**90% Project benefits accruing – August 2024**

## **Charleroi**

- **River Chamber – Operational Summer 2024**
  - In-chamber excavation
  - Complete control tower
  - Anchor stub-wall
  - Land chamber permanent closure
  - Chamber wall facings
  - Start sill work
  - Start on filling emptying culverts
- **Stilling Basin Extension – Complete July 2022**
  - Install downstream scour protection

## **Locks and Dam 3 removal – Complete Summer 2025**

- Coordinate with construction contractors
- Coordinate with navigation industry

**Relocations – Various completion dates**



# COST/FUNDING OVERVIEW – TOTAL & REMAINING



<b>Current Project Estimate<sup>*1</sup>: \$1.23B (\$2.76B)</b>	<b>ARRA</b>	<b>CG</b>	<b>IWTF</b>	<b>Total</b>
Allocations through FY2016:	\$68,261,203	\$338,640,646	\$338,640,652	\$745,542,501
FY17 Allocation:	NA	\$41,005,000	\$41,005,000	\$82,010,000
FY18 Allocation:	NA	\$48,150,000	\$48,150,000	\$96,300,000
FY19 Allocation:	NA	\$44,606,606	\$44,606,606	\$89,213,213
FY20 Allocation: (Final Funding)	NA	\$55,648,769	\$55,648,769	\$111,298,000
<b>Total Allocations to Date:</b>	\$68,261,203	\$472,402,253	\$472,402,258	\$1,124,363,248
<b>Remaining TPC Balance:</b>		\$54,735,874	\$54,735,874	\$109,471,747 <sup>*2</sup>
<b>Remaining Balance Change From Last Meeting:</b>				<b>\$0</b>

\*1. Total Project Cost update – May 2018. Cost for 90% of project benefits increased from \$1.22B to \$1.23B. Total project cost increased from \$2.73B to \$2.76B.

\*2. \$109 Million of the 90% project benefits cost estimate remains unfunded. It is not expected to be required, however, there remains a significant amount of risk associated with work yet to be completed that was not requested in the FY20 completion funding.

Efficient Funding Profile: Not applicable. Project received completion funding in the FY2020 work plan.



# ISSUES AND CHALLENGES



- Locks and Dam 3 removal timing
- High water events
- Market uncertainty
- Relocations
- Environmental mitigation





# THANK YOU

8



**Contact Information: Stephen Fritz, 412-395-7273,  
[Steve.Fritz@usace.army.mil](mailto:Steve.Fritz@usace.army.mil)**

