

# MONONGAHELA RIVER LOCKS & DAMS 2-3-4

## INLAND WATERWAYS INDUSTRY DAY MEETING

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15 December 2021

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

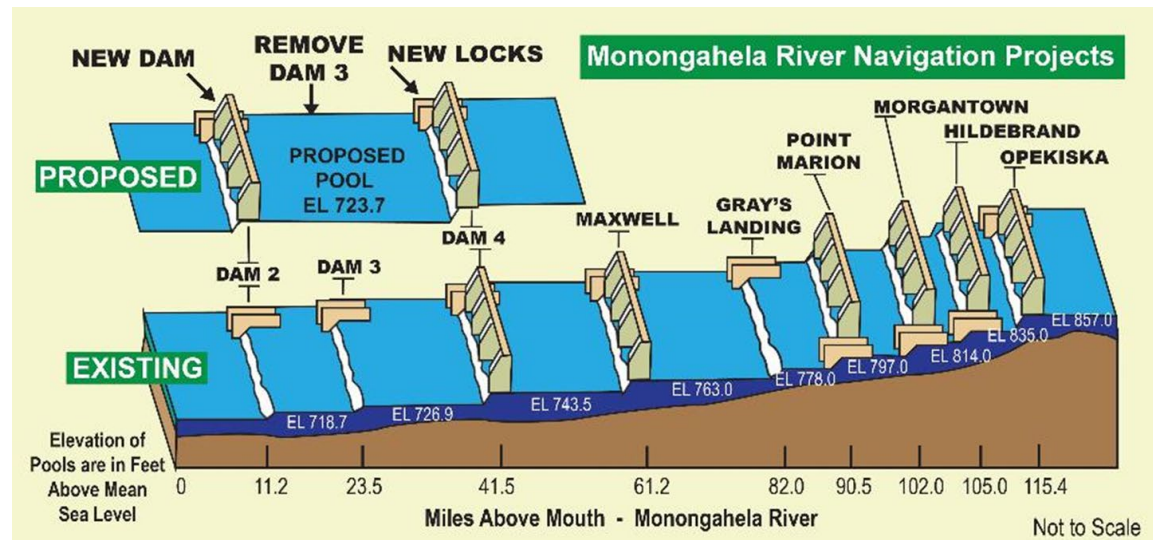


US Army Corps  
of Engineers®



## 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 FY21



Charlottesville upstream closure



Charlottesville Dam stilling basin construction



Pool 3 dredging - river mile 32



Dewatered Charlottesville river chamber





# SCHEDULE – WORK DONE IN FY21





# SCHEDULE - ONGOING & PLANNED WORK FOR FY22



## Charleroi

- River Chamber
  - In-chamber excavation
  - Remove old lock features
  - Anchor stub-wall
  - Start wall facings
  - Start sill work
  - Start on filling emptying culverts
- Stilling basin extension
  - Complete grout bag placement at all gate bays
  - Install downstream scour protection
  - Complete contract

## Pool 3 Dredging

- Complete dredging of entire pool 3 navigation channel
- Facilitate placement of project excavations at Victory Hollow
- Potentially begin monitoring plan

Locks and Dam 3 removal – complete plans and specs

Relocations – Develop relocation agreements with several local governments

Environmental mitigation – complete plans and specs fish reefs



# COST/FUNDING OVERVIEW



<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 impacting construction
- Working relocation agreements with facility owners
- Environmental mitigation
- COVID remains a risk with respect to work force and supply issues





# THANK YOU

**Steve Fritz, Project Manager, CELRP**

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