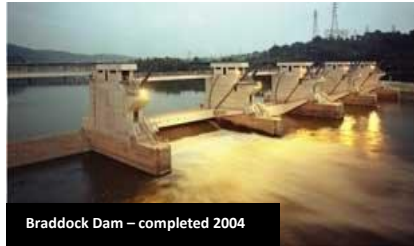
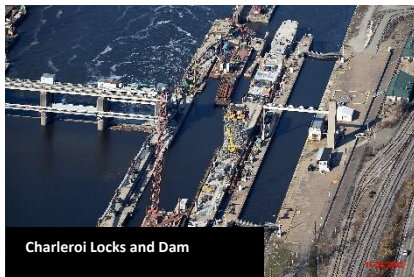


Locks and Dams 2, 3, and 4, Navigation Project, Monongahela River, Pennsylvania  
(Lower Mon Project)  
6 March 2022

**Location:** The project is located at Braddock (mile 11.2), Elizabeth (mile 23.5), and Charleroi (mile 41.5) Locks and Dams, along the Lower Monongahela River near Pittsburgh, PA.



**Scope:** The authorized project includes the replacement a fixed crest navigation dam with a gated dam at Lock and Dam (L/D) 2 (Braddock), completed in 2004; construction of two new larger lock chambers at L/D 4 (Charleroi), removal of L/D 3 (Elizabeth), channel dredging, extension of the Charleroi dam stilling basin, relocations, and required environmental mitigation efforts. Upon completion, the project will provide for over 30 miles of unimpeded navigation on the lower Monongahela River.



Project Financial Data (\$1,000)						
Estimate Project Cost*1	Cost Estimate Reference Date	Funding Allocated to Date	Funds Invested to Date	Last Year Appropriated	Current FY (2022) Allocation	FY+1 (2023) Capability
\$1,230,000	FY2021	\$1,124,400	\$958,100	2020	\$0	\$0

\*1 – Cost/Schedule shown reflects greater than 90% of the project benefits being achieved and does not include the second lock chamber at Charleroi.

Authorization Source/Year	First Construction Funding	Original Completion Date	Current Completion Date
Water resources development act of 1992, Section 101, PL 102-580	1995	2010	2026

For additional information contact the Pittsburgh District Public Affairs Office  
Phone: 412-395-7500  
Email: [LRP.WebInquiries@usace.army.mil](mailto:LRP.WebInquiries@usace.army.mil)  
Project Manager: Stephen Frost

Locks and Dams 2, 3, and 4, Navigation Project, Monongahela River, Pennsylvania  
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**Value of project to the nation and region:** The inland river navigation system provides the most cost-effective, environmentally friendly, and safest method for transporting bulk commodities in the region and throughout the nation. Annually, over 20 million tons of bulk cargo pass through the locks on the lower Monongahela River. For every \$1 invested in this project, it is expected to return \$2.80 in benefits at a discount rate of 2.75%. Historically, coal has been the primary commodity shipped on the lower Monongahela river for the purpose of electric power generation and steel production. Other common commodities transported include petroleum products, aggregates, and chemicals.

**Major completed work:**

1. Braddock gated dam.
2. Relocation of various local municipal infrastructure features.
3. Site development at Charleroi.
4. Construction of a new river and guard walls at Charleroi.
5. Multiple fabrications of equipment for the new Charleroi river chamber lock (miter gates, bulkheads, floating mooring bits, valves, etc).
6. Environmental dredging of Monongahela River pool 3.

**Major ongoing work:**

1. Construction of the new river chamber at Charleroi.
2. Construction of a new Charleroi dam stilling basin extension.
3. Design of fish reef habitat.
4. Relocation of various local municipal infrastructure features.
5. Design of Locks and Dam 3 removal.
6. Production of educational materials to document the history of the lower Monongahela River.

**Future construction contracts:**

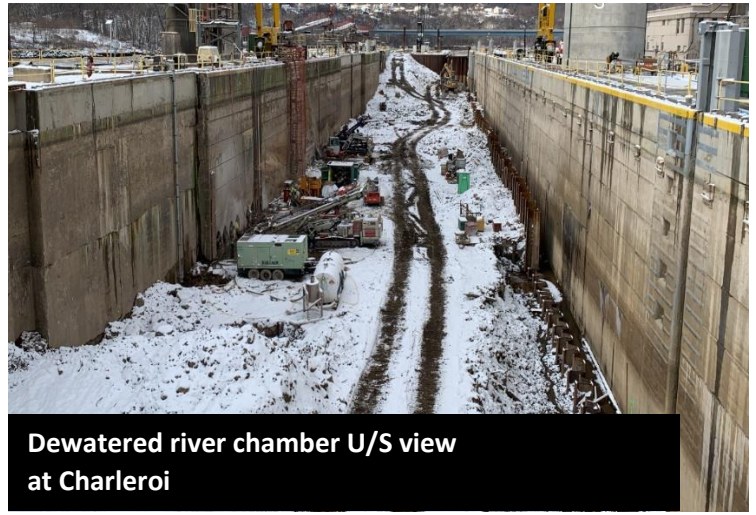
1. Fish reef construction.
2. Removal of Locks and Dam 3 at Elizabeth, PA..

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Dewatered river chamber D/S view at Charleroi



Dewatered river chamber U/S view at Charleroi



Dredging River mile 32



Stilling Basin Contract work at Charleroi

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