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One Team: Relevant, Ready, Responsive, Reliable

Locks and Dams 2, 3 and 4 Monongahela River Project



Lower Mon Project

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U.S. Army Corps of Engineers, Pittsburgh District



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Discussion Topics

- ◆ Project Location
- ◆ Project Description
- ◆ Project Status
 - Braddock Dam – Complete
 - Municipal Relocations – In Progress
 - Port Perry Bridge Relocation – In Progress
 - Dredging – Inactive
 - Charleroi Locks – In Progress
 - Removal L/D 3 – Not Started
- ◆ Lower Mon Project Cost Update
- ◆ Risk
- ◆ Focus



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Project Location

- ◆ Located within 50 miles of the “Point” in Pittsburgh
- ◆ Locks and Dam 2 – Braddock Locks and Dam
- ◆ Locks and Dam 4 – Charleroi Locks and Dam
- ◆ Authorized by WRDA 1992

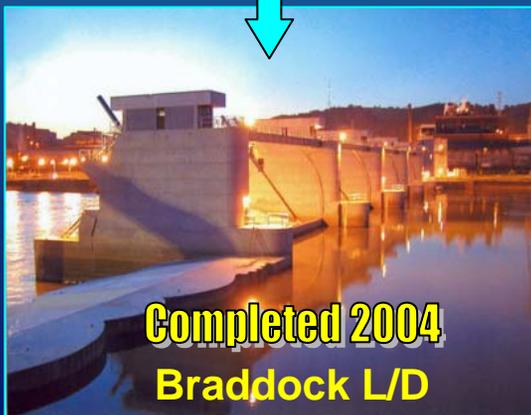




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Project Description



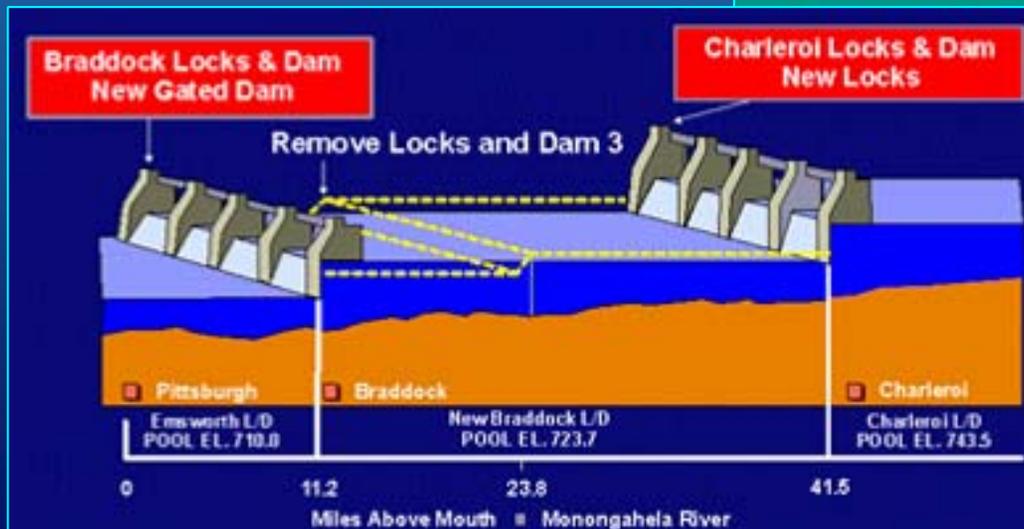
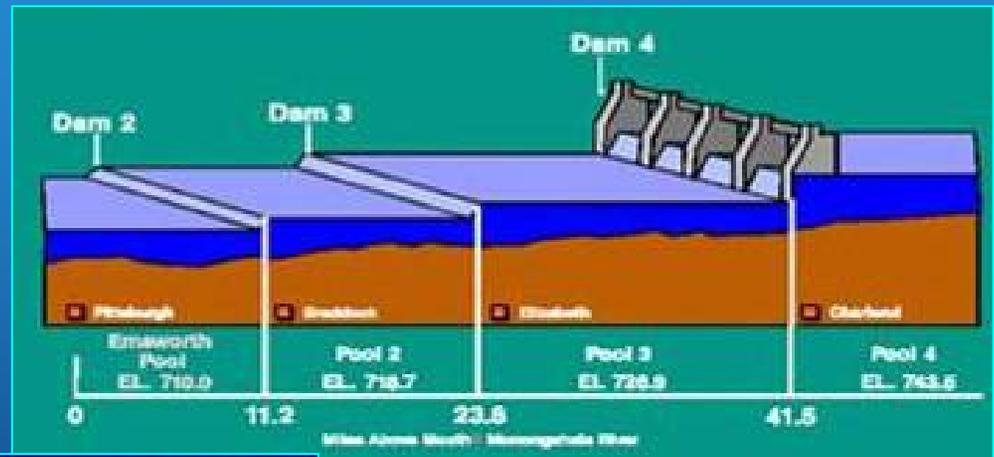


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Project Description

Pre-Construction Profile



Future Profile

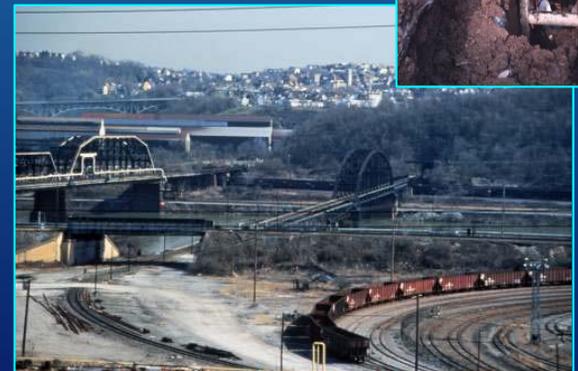
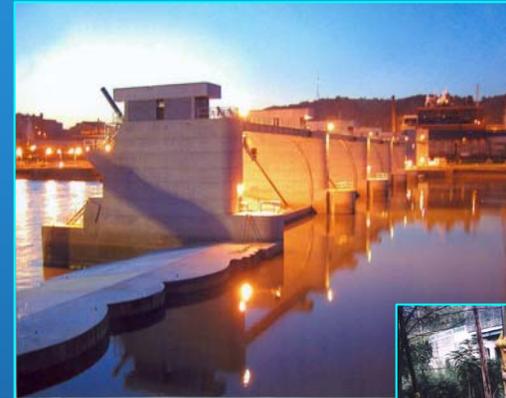


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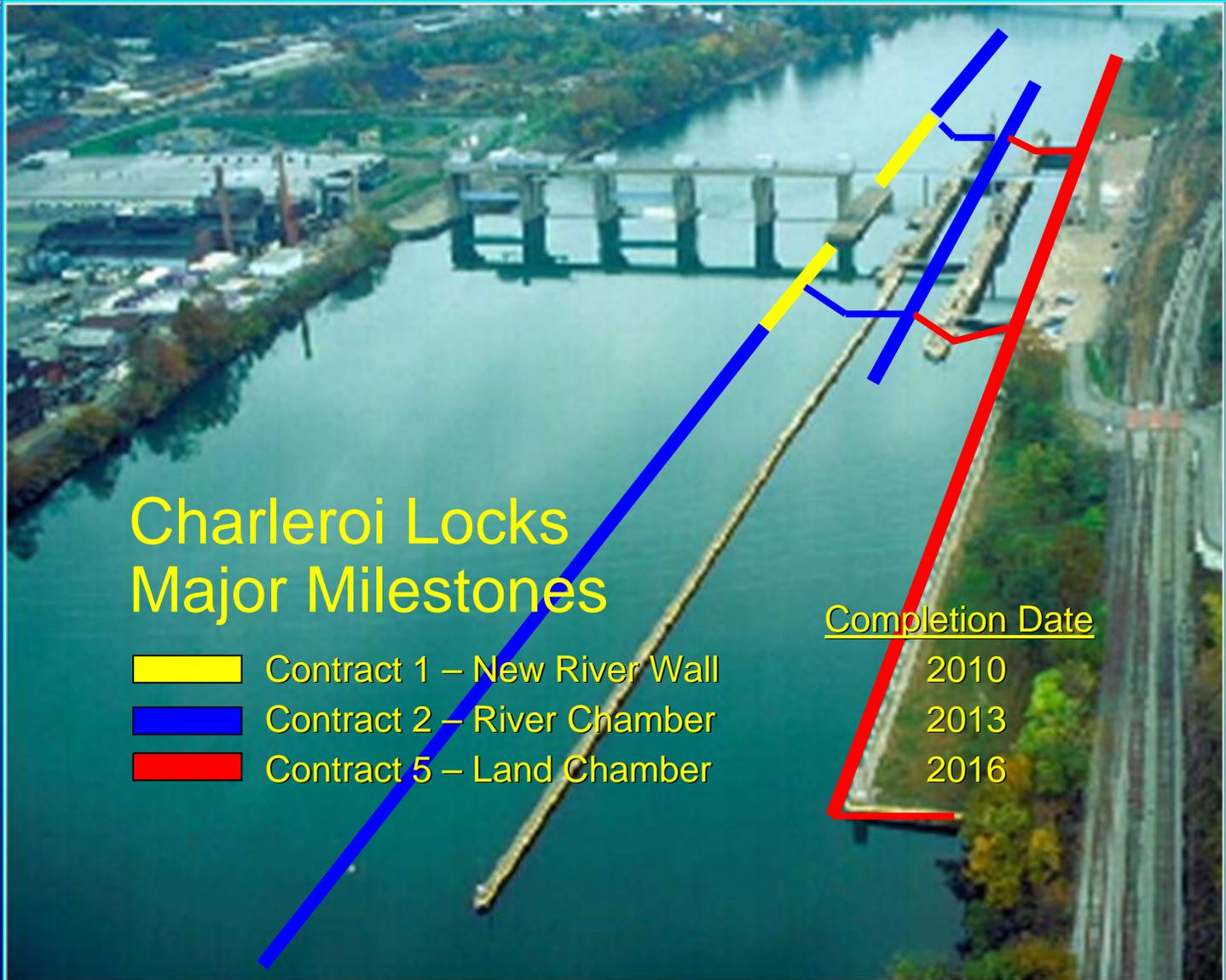
Status

- ◆ Braddock Dam – Complete
- ◆ Municipal Relocations – In Progress
- ◆ Port Perry Bridge Relocation – In Progress
- ◆ Dredging – Inactive
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- ◆ Removal L/D 3 – Not Started





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Charleroi Locks Major Milestones

-  Contract 1 – New River Wall
-  Contract 2 – River Chamber
-  Contract 5 – Land Chamber

Completion Date

- 2010
- 2013
- 2016



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Project Cost

- ◆ Authorized Fully Funded Base Cost – \$750M (Oct. 1991)
- ◆ Initial Scheduled Completion Date – Dec. 2003
- ◆ Sunk Costs through 2007 – \$381.3M
- ◆ Current Fully Funded Estimate – \$975M (based on 2016 Completion Date)
- ◆ 902 Cap – \$1,085M



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Project Cost

Example Drivers

- ◆ Extended Construction Schedule, Original Completion – Dec. 2003 vs. Current – Sep. 2016
- ◆ Increased Number of Contracts to Meet Anticipated Appropriations
 - Braddock 1 ⇒ 2
 - Charleroi 1 ⇒ 13
- ◆ Construction Modifications



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Risks

◆ Operations

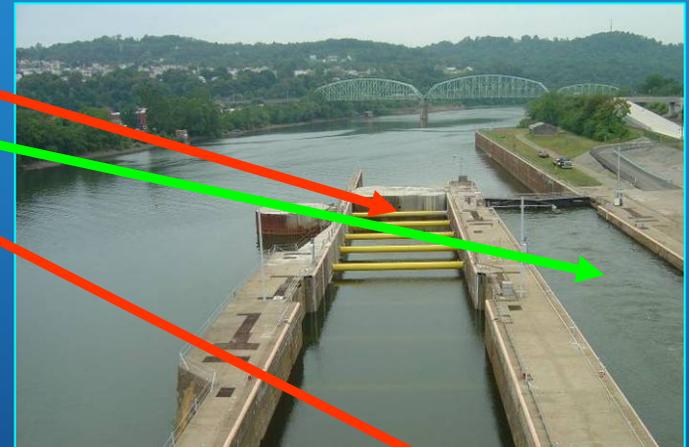
- River Chamber Demolition
- One Chamber at Locks 4
- Dam 3 has Failed

◆ River Chamber Contract

- Continuing Contract
- Significant Cost – Funding Risk

◆ Minimize Risk

- Complete Charleroi River Chamber
- Remove L/D 3
 - Complete Charleroi River Chamber
 - Pool 2 Relocations
 - Dredging
- Recent Appropriations at Capability Level





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Focus

◆ Charleroi River Chamber

- Buy Down Risk at Locks 4
- No Relocations at Expense of Charleroi River Chamber Construction

◆ Complete Project ASAP

- Removal of L/D 3
- Compress Construction Schedule to Buy Down Risk at Elizabeth



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Questions?

