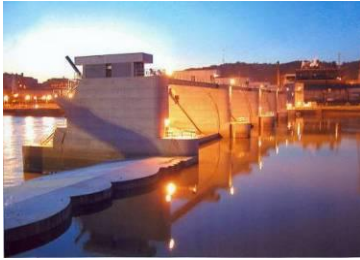


Locks and Dams 2, 3, and 4 Monongahela River (Lower Mon)



New Braddock Dam
River Mile 11.3
 Replaced dam originally built in 1906
 Braddock, PA



Existing Locks and Dam 3
River Mile 23.8
 Originally built in 1907
 Elizabeth, PA



Existing Lock and Dam 4
River Mile 41.5
 Originally built in 1936
 Charleroi, PA

General Information

- Authorization: WRDA 1992 – Major features: Braddock-Gated Dam, Charleroi-Twin 84x720 Lock Chambers, Pool Dredging, L/D 3-Removal, and Relocations

	As Authorized	Current
Project Cost	\$750 M Fully funded	\$2.7 Billion Fully funded *1
Project Completed	2004	2060's *1
Funding Received	NA	\$628.7 M (thru 31Dec2014)

*1. Project has been significantly underfunded to achieve an efficient construction schedule also impacting the total project cost.

Features of work completed

- Braddock Upper Guard Wall
- Braddock Dam and Abutment
- Flow control dikes at both Braddock and Charleroi
- Charleroi Site Development (buildings, access bridge and road, parking areas, fencing, utilities, etc...)
- River Chamber Demolition
- Multiple Municipal Relocations
- Portions of the Charleroi River Chamber

Ongoing Major Construction – All on Schedule

- Charleroi River Wall (Substantially completed)
- Charleroi Emptying Basin
- Charleroi River Chamber M22-M27

Projected Near Term Construction:

Charleroi River Chamber Completion – Expected advertisement June 2015

Risks:

- Locks and Dam 4 – Charleroi
 - Lockwalls founded on timber piles – wall movement
 - Downstream guide wall beyond capacity
 - Only one operational lock chamber (Age - 79 years)
 - Serviceability – wall anchorages (wall armor, corner protection, etc...)
 - Resource constraints of piecemealing construction (batch plant, work area, etc...)
 - DSAC II Dam – Stilling basin inadequate
- Locks and Dam 3 – Elizabeth (Age - 108 years)
 - Primary lock's filling and emptying flume is structurally deficient – both roof and walls have severely deteriorated concrete
 - Auxiliary lock's components are on poor condition and are subject to frequent failure
 - DSAC I Dam – repair in 2007-2008 expected to last 5-10years

Remaining work (Funding dependent for timing and scope):

- Charleroi River Chamber Completion (primary focus)
- Pool 3 Dredging
- Locks and Dam 3 Removal **\$\$\$\$ BENEFITS**
- Multiple Municipal Relocations
- Port Perry Rail Road Bridge Relocation
- Charleroi Land Chamber

Pool Changes:

- Pool 2 - The current operating pool between Braddock Locks and Dam (L/D) and L/D 3 is 721.8, being held 3.1 feet above the normal operating pool to reduce hydrostatic loads on L/D 3.
- Pool 3 – Pool 3 cannot be lowered until a new River chamber is operational at Charleroi, pool 3 dredging is completed, and L/D 3 is removed.