



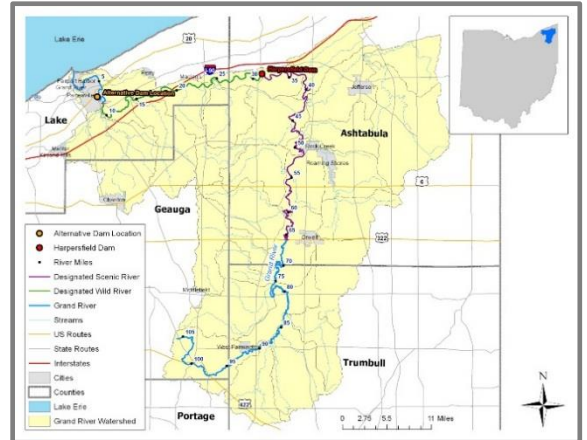
**US Army Corps
of Engineers**

Harpersfield Dam/Grand River, Geneva, OH

Great Lakes Fishery & Ecosystem Restoration Section 506, Water Resources Development Act of 2000

Project Location: The project is located in the town of Harpersfield in Ashtabula County, Ohio along the Grand River. The existing Harpersfield dam is immediately upstream of the historic Harpersfield covered bridge on Old Harpersfield Road.

Description of Problem: Sea lamprey in the Great Lakes are a problem because of their aggressive parasitism on key predator species and game fish, such as lake trout, lake whitefish, chub, and lake herring. The purpose of the project is to effectively prevent migration of sea lamprey in the Grand River upstream of the Harpersfield Dam, replacing the



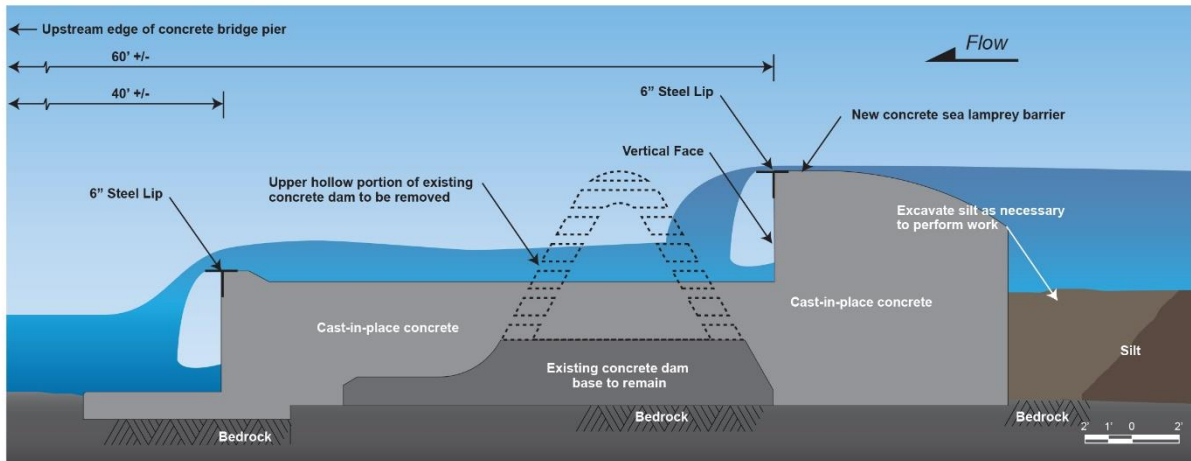
existing dam with a new sea lamprey barrier that meets current standards the selected alternative from feasibility study integrated sea lamprey traps.

Project Description: The National Economic Restoration Plan consists of construction of a new sea lamprey barrier in the immediate vicinity of the existing dam. A lamprey barrier is being constructed immediately upstream of and abutting the existing dam. The upper hollow section of the existing dam will be removed to allow for construction of the new sea lamprey barrier. The base of the existing dam will remain and

be incorporated into the new project as a downstream apron. The removal of the existing hollow crest is necessary to prevent the formation of an intermediate pool between the existing and new structures. An existing fish ladder will be removed and the barrier will be designed to minimize safety risks associated with potential submerged hydraulic jumps (also known as “drowning machines”). A number of sea lamprey traps will be installed for sea lamprey capture and control. A by-pass pipe and valve required for emergency lowering of the pool level will also be replaced.

Partners and Collaboration: The Great Lakes Fishery Commission, Ashtabula County Metro Parks, and Ohio Department of Natural Resources

PROPOSED CAST-IN-PLACE BARRIER UPSTREAM OF EXISTING DAM



Project Benefits: This project will prevent sea lamprey passage and reproduction from approximately 1,266 miles upstream of the Harpersfield Dam on the Grand River and its tributaries. Additionally, it will prevent the need for lampricide treatments above the dam, saving \$335,000 per treatment and removing what could be a potentially lethal dosing to some non-target species. The project also will lower the overall sea lamprey population in Lake Erie, which in turn improves the sustainability of valuable fisheries resources.

Measure of Progress	Project Output
2.1.2 - Number of GLRI-funded projects that block pathways through which aquatic invasive species can be introduced to the Great Lakes ecosystem	1,266 miles of protected river and tributaries
2.2.2 - Number of tributary miles protected by GLRI-funded projects	1,266 miles of protected river and tributaries

Project Status: Design is complete, and the contract was awarded on 08 August 2018. Construction began in October 2018. Estimated construction completion is December 2020.

Estimated Project Costs	
Federal	\$3,909,000
Non-Federal	\$2,105,000
Total	\$6,014,000

Project Milestones	
Construction begins	October 2018 (A)
Construction Completion	December 2020

Project Budget	
FY 2017	\$190,000
FY 2018	\$2,750,000
FY 2019	\$350,000
FY 2020	\$100,000

Point of Contact	
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