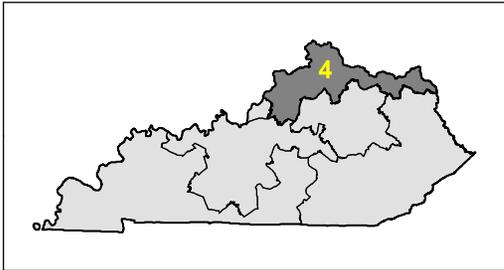
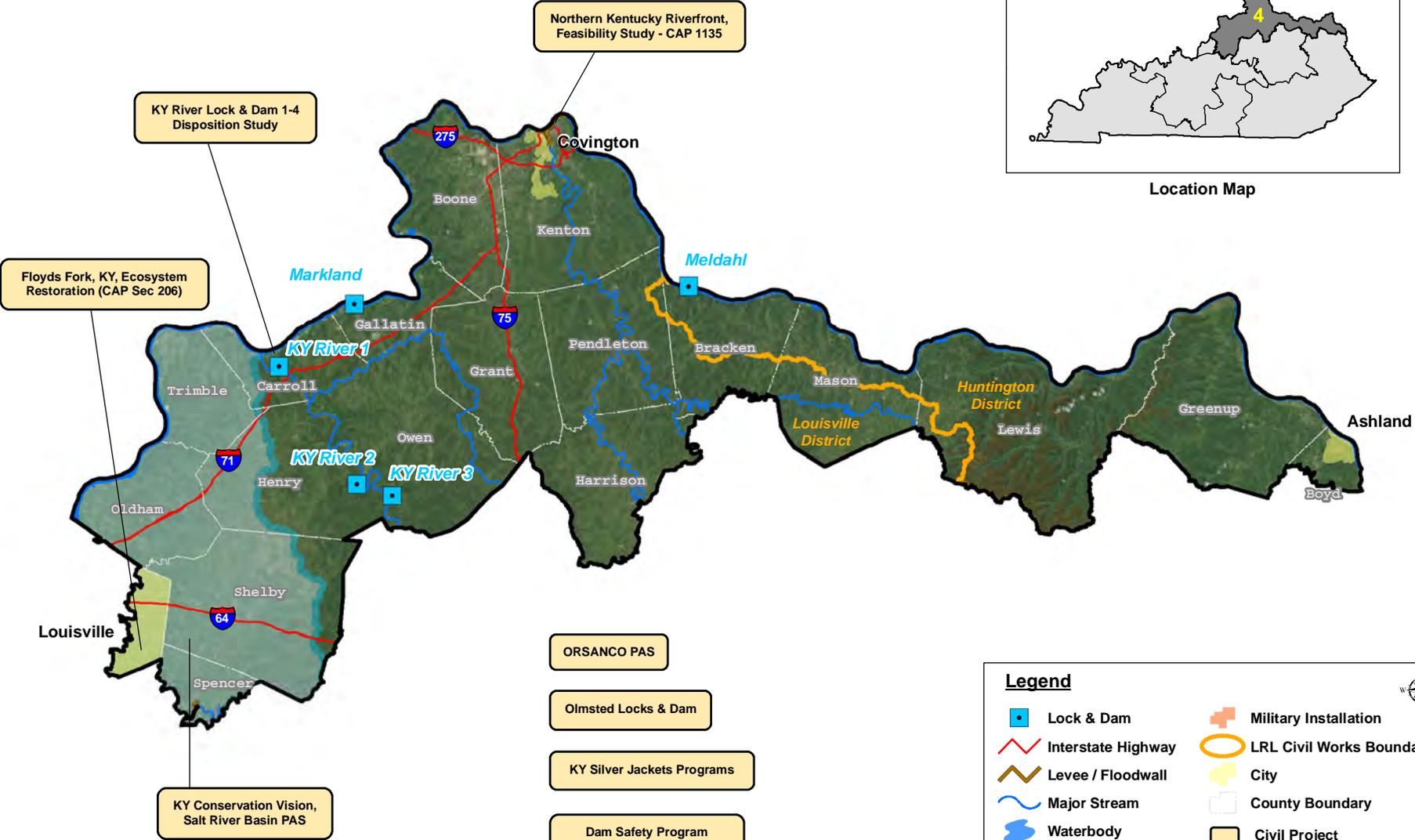


CONGRESSIONAL DISTRICT KY04



Location Map



- ORSANCO PAS
- Olmsted Locks & Dam
- KY Silver Jackets Programs
- Dam Safety Program (All COE KY Dams)

Legend

Lock & Dam	Military Installation
Interstate Highway	LRL Civil Works Boundary
Levee / Floodwall	City
Major Stream	County Boundary
Waterbody	Civil Project
Watershed	Military Project

Kentucky Silver Jackets Program



Current Phase:

Active

Location and Description:

Projects are located throughout the Commonwealth of Kentucky.

Silver Jackets teams in states across the United States bring together multiple state, federal, and sometimes tribal and local agencies to learn from one another in reducing flood risk and other natural disasters. By applying their shared knowledge, the teams enhance response and recovery efforts when such events do occur. While some states do not use the "Silver Jackets" name, there are a growing number of states applying the Silver Jackets approach – the ultimate goal is a state-led interagency team in every state. No single agency has all the answers, but leveraging multiple programs and perspectives can provide a cohesive solution.

Although each state Silver Jackets team is unique, common agency participants include state agencies with mission areas of hazard mitigation, emergency management, floodplain management, natural resources management or conservation, etc. Federal participation typically includes the U.S. Army Corps of Engineers and

the Federal Emergency Management Agency and often others such as the National Weather Service and the U.S. Geological Survey.

Authorization:

USACE Flood Risk Management Program

Kentucky Silver Jackets Projects:

- Turn Around Don't Drown – This project reduced loss of life and property by educating Kentucky drivers through public service announcements about the dangers of driving into flooded roads. Advertisement on Transit Authority of River City buses and bus stop covers were used to promote the campaign during peak flood season in 2019.

Non-Federal Sponsor:

- Kentucky Division of Water
- Kentucky Emergency Management Agency
- The Kentucky Geological Service
- Multiple Local Governments and Agencies

Federal Sponsors:

- U.S. Army Corps of Engineers (USACE)
- Federal Emergency Management Agency (FEMA)
- Natural Resources Conservation Service (NRCS)
- U.S. Geological Survey (USGS)
- National Weather Service (NWS)

Activities for FY 2020:

Continue to coordinate with state and federal agencies across the Commonwealth in order to better reduce flood risks in Kentucky.

Issues and Other Information:

None

Dam Safety, Kentucky

Kentucky Dams - Special Studies



Barren Lake Dam, KY

Current Phase: Study

Project Location: Barren Lake Dam, Buckhorn Lake Dam, Carr Creek Lake Dam, Cave Run Lake Dam, Green River Lake Dam, Nolin Lake Dam, Rough River Lake Dam, and Taylorsville Lake Dam (See next pages for site specific information)

Study and Program Information:

During normal operations, these dams are routinely inspected daily, weekly, and monthly by USACE Operations staff and annually by Louisville District dam safety staff. The dam also receives a comprehensive inspection every five years by a multi-discipline team of Louisville District engineers.

The USACE has instituted a “risk informed” dam safety program. The initial step was conducting a Screening Portfolio Risk Assessment (SPRA). A team of engineers conducted a screening level review of the dam’s construction, performance history, and instrumentation to evaluate current dam behavior, as well as economic consequences and the population at risk of potential dam failure. After the initial screening, the risk is re-evaluated every ten years as part of a routine Periodic Assessment (PA) in conjunction with the 5 year comprehensive site inspection. The findings are reviewed by the Dam Senior Oversight Group (DSOG) and a Dam Safety Action Classification (DSAC) rating is assigned based upon confirmed or unconfirmed dam safety issues and the combination of life or economic consequences should failure occur. The DSAC ratings are used to prioritize further study to confirm the proposed dam safety issues. If the DSAC rating is 1 through 3, an Interim Risk Reduction Measures (IRRM) Plan is established while further investigations are conducted and/or remedial actions are implemented as necessary.

Summarized Financial Data:

The Dam Safety Special Studies are part of a national program with funds distributed by the Corps of Engineers (USACE) Headquarters Dam Safety Office on a priority basis

The first study phase is an Issue Evaluation Study (IES) which confirms the dam safety issue. Should more information be necessary to confirm the issues, an IES Phase II study may be undertaken to gather the necessary data to reduce the uncertainty. The results of these studies are presented to the USACE Risk Management Center (RMC) and the DSOG. The results may indicate the need to progress to the next phase of study or reduce the DSAC rating for the dam. If the case is made that the dam is in need of remedial construction then the project moves to the Dam Safety Modification Report (DSMR). The DSMR report analyzes potential remedial construction elements to determine the best “fix” to reduce the overall project risk. These studies and remedial construction are prioritized based upon the relative risk estimates at each stage to best make use of the available funding and resources.

Congressional Interests:

Senator Mitch McConnell
Senator Rand Paul

Individual Project Status:

Barren Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2007
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * FY2020 Planned Activities: Routine O&M surveillance and monitoring program.

Buckhorn Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2008
- * DSAC (Dam Safety Action Classification) Rating: Class 3
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 15 April 2009
- * IES (Issue Evaluation Study): In the queue for study. The IES Report will address concerns with unacceptable foundation conditions and associated seepage in order to remove uncertainty and lower project risk. This will determine if the work needs to continue to complete a full Dam Safety Modification Report (DSMR).
- * FY2020 Planned Activities: Routine O&M surveillance and monitoring program.

Carr Creek Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2008
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * FY2020 Planned Activities: Routine O&M surveillance and monitoring program.

Cave Run Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2009
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 27 July 2010
- * IES (Issue Evaluation Study): In the queue for study. The IES Report will address concerns with unacceptable foundation conditions and associated seepage in order to remove uncertainty and lower project risk. This will determine if the work needs to continue to complete a full Dam Safety Modification Report (DSMR).
- * FY2020 Planned Activities: Routine O&M surveillance and monitoring program.

Green River Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2006
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * Note: The findings from the previous Phase 2 IES risk analysis were presented to the Risk Management Center (RMC) in November 2011 and to the Dam Senior Oversight Group (DSOG) in February 2012. The RMC and DSOG agreed with the report recommendation that the project be reclassified to a DSAC 3 based on the results of the risk analysis. Remedial construction is not warranted at this time. This structure has been reprioritized in the risk study queue. The DSAC rating was subsequently revised to a 4 in 2017 after a Periodic Assessment.
- * FY2020 Planned Activities: Routine O&M surveillance and monitoring program.

Nolin Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2006
- * DSAC (Dam Safety Action Classification) Rating: Class 3
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 8 April 2008
- * IES (Issue Evaluation Study): The findings of the Phase 2 IES risk analysis were presented to the Risk Management Center (RMC) in November 2011 and to the Dam Senior Oversight Group (DSOG) in February 2012. The RMC and DSOG agreed with the report recommendation that the project be reclassified to a DSAC 3 based on the results of the risk analysis. Other recommendations were to install additional instrumentation in right and left abutments, and to update the current IRRMs. Remedial construction is not warranted at this time. This structure has been reprioritized in the risk study queue.
- * FY2020 Planned Activities: Routine O&M surveillance and monitoring program.

Rough River Lake Dam, KY (See detailed Fact Sheet for additional information)

- * DSAC (Dam Safety Action Classification) Rating: Class 2
- * IRRMP (Interim Risk Reduction Measures Plan): Completed 15 April 2008
- * A Dam Safety Modification Report (DSMR) was completed in July 2012. The DSMR addressed unacceptable foundation conditions and associated seepage and identified a need for major rehabilitation in order to remove uncertainty and lower project risk.
- * There is no emergency or imminent threat. However, failure of this dam from seepage/piping would result in catastrophic effects downstream including loss of life and significant economic losses.
- * FY 2020 Planned Activities: The Phase 2 Cutoff Wall contract advertisement was scheduled for December 2017, but was cancelled due to concerns regarding the structural integrity of the existing conduit during and after construction of the proposed cutoff wall. The Project Delivery Team is currently reevaluating design features as part of a Supplement to the previously-approved DSMR. Scheduled completion date for the DSMR Supplement is Summer 2020.

Taylorsville Lake Dam, KY

- * SPRA (Screening for Portfolio Risk Analysis): 2009
- * DSAC (Dam Safety Action Classification) Rating: Class 4
- * IRRMP (Interim Risk Reduction Measures Plan): N/A since it is DSAC 4
- * IES (Issue Evaluation Study): Not required since it is a DSAC 4
- * FY2020 Planned Activities: Routine O&M surveillance and monitoring program

Ohio River Valley Sanitary Commission Development of a Basin-Wide Strategic Plan



MEMBER STATES

States joined in the Ohio River Valley Sanitary Commission compact formed in 1948.

Current Phase:

Planning Assistance to States Study

Location and Description:

This study will be a collaborative effort to create an actionable plan that will prioritize regional goals and objectives for general improvements in economic health, ecological well-being, and quality of life for residents throughout the Basin.

Authorization:

Section 22(a) (1) of the Water Resources Development Act of 1974 (Public Law 93-251), as amended.

FY19 Activities:

Execution of the Letter Agreement and study initiation. Letter Agreement was signed February 25, 2019. Numerous stakeholder outreach efforts were completed to identify problems and opportunities in the basin.

Summarized Financial Data:

	<u>Study</u>
Estimated Federal Cost	\$200,000
Estimated Non-Federal Cost	\$200,000
Total Estimated Project Cost	\$400,000
Allocation thru FY19	\$200,000
Balance to Complete after FY19	\$0
President's Budget for FY20	\$0
FY20 Allocation (thru JAN 2020)	\$0
FY21 President's Budget	\$0

FY20 Planned Activities:

Completion of a two-day summit as part of the ORBA/OBCRE workshop. Focus group held in Pittsburgh, Cincinnati, and Nashville during the week of January 26-31, 2020. Currently revising and preparing draft report in February 2020 with District Quality Control and release of final report scheduled for March 2020.

Issues and Other Information:

None

Congressional Interest:

All Congressional Members in Kentucky, Indiana, Ohio, and Illinois



OLMSTED LOCKS AND DAM PROJECT

As of: 28 January 2020

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Official Title: Locks and Dam 52 and 53 Replacement Project (Olmsted Locks and Dam), IL and KY

Location: The project is located in Olmsted, IL near Ohio River Mile 964.4.

Purpose: Construct the new Olmsted Locks and Dam to replace Ohio River Locks and Dams 52 & 53. Demolish Locks and Dams 52 & 53 once Olmsted is operational.

Project Description and Background: The project consists of two 110' X 1200' locks adjacent to the Illinois bank, and a dam comprised of five tainter gates, 1400' of boat-operated wickets and a fixed weir. The proposed replacement structure will eliminate Ohio River Locks & Dams 52 & 53. Locks & Dams 52 & 53 were completed in 1929 and the temporary 1,200' long lock chambers were added in 1969 at Locks & Dam 52 and 1979 at Locks & Dam 53. The antiquated design and age of these structures make it impossible to meet current traffic demands without significant delays. The existing structures have deteriorated structurally and are overstressed during normal operating conditions. Existing wicket dam has missing sections and wickets that will not raise making it very difficult to maintain pool during low water. The temporary locks at Locks & Dam 52 & 53 have significantly passed their 15-year design life.

This strategic reach of the Ohio River provides a connection between the Mississippi River, Tennessee River and Cumberland River. More tonnage passes this point than any other place in America's inland navigation system. In 2011, 91 million tons (Locks & Dam 52), traversed this portion of the Ohio River. 25% of all coal shipped on the inland waterways transits Locks & Dam 52, destined for many of the 50 power plants located on the Ohio River System or the 17 power plants located in eight states on the Upper or Lower Mississippi River.

Current Status and Outstanding Issues: The two 110' X 1200' locks and approach walls are complete. All damming surfaces to include left boat abutment, right boat abutment, 5 Tainter gates, fixed weir on the Kentucky bank and all twelve navigable pass shells containing wickets are complete and operable.

L&D 52 Marine Demo is approximately 25% complete and L&D 53 Marine Demo Phase I is approximately 65% complete. New Z-drive workboat has been awarded and delivery expected in June 2022.

Remaining required work originally scheduled to be awarded in 2019 was deferred to FY 20 allowing those funds to be used to complete all features of the dam and start 53 Marine Demo Phase I. Work Plan funding in the amounts of \$38M (FY20) and \$25M (FY21) are being requested to execute the deferred work. This additional \$63M completes the project well within the Congressionally Authorized Amount.

Summarized Financial Data

2012 PACR	\$3,099,000,000
2018 Total Estimated Project Cost (NWW certified)	\$2,867,296,000
Estimated Federal Cost	\$1,856,981,000
Estimated Inland Waterways Trust Fund Cost	\$1,010,315,000
Allocation thru FY19 including ARRA allocation thru 30 Sept 15	\$2,790,402,000
FY 19 President's Budget	\$35,000,000
FY 19 Work Plan	\$15,000,000
Benefit to Cost Ratio (at 7%)	1.98
Non-Federal Sponsor	N/A

The Olmsted Locks & Dam project was authorized by Section 3(a)(6) of the Water Resources Development Act (WRDA) of 1988. The authorized project cost was increased on 17 October 2013 as part of a Continuing Appropriations Act, 2014 to \$2,918,000,000. The project was funded 50%/50% from the General Treasury and the Inland Waterways Trust Fund (IWTF) through FY2013. The FY2014 Omnibus Appropriation Act changed the split of IWTF and General Treasury funds to 25%/75% for FY2014 only. Water Resources Reform and Development Act of 2014 changed the IWTF and General Treasury shares to 15%/85% beginning 1 Oct 2014. As of 30 Sep 2018, \$2.545B has been expended on the project. The most recent (2018) economic update forecast annual average benefits at \$236M. PACR annual benefits were calculated at \$640M.

Upcoming Actions: Remaining items required to complete the project include: L&D 53 Marine Demo Phase II, Landside Demo of 52 and 53, Resurface County Road, Refurbish Bulkheads, Upstream Harbor Access, Abutment Wicket Blanks, Final site Restoration with building Conversions and Cultural Resource documentation, are Being scoped and ready for contract acquisition. Awards on all items are expected by the end of the calendar year 2020.

HQs POC: Catherine Shuman, CECW-LRD, 202-761-1379,
Catherine.M.Shuman@usace.army.mil

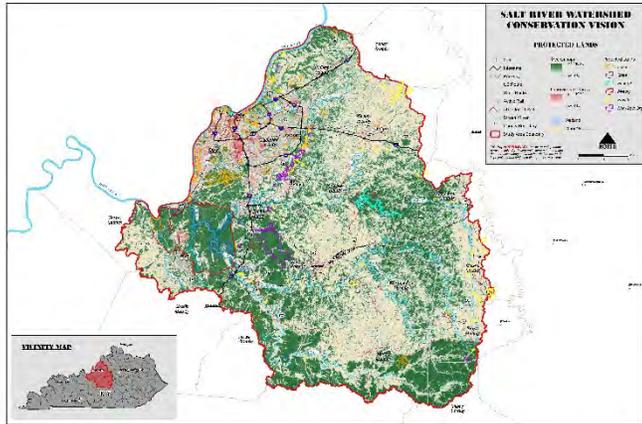


Olmsted Locks and Dam August 2016



Olmsted Locks and Dam November 2019

Kentucky Conservation Vision Map, Salt River Basin



Protected Lands Map – Salt River Basin, Kentucky

Current Phase:

Planning Assistance to States Study- Phase II

Location and Description:

The study area is located in north-central Kentucky and includes the Salt River drainage and its tributaries.

This study will result in a plan focused on the enhancement and protection of water quality through the stewardship of natural habitats and agricultural lands for the benefit of biodiversity, human health and economic development of communities located in the lower Salt River watershed (watershed generally includes Louisville and surrounding counties).

Authorization:

Section 22(a) (1) of the Water Resources Development Act of 1974 (Public Law 93-251), as amended.

FY 19 Activities:

Phase II was initiated from the data collection phase in February 2019 and completed in September 2019.

Summarized Financial Data:

	<u>Study</u>
Estimated Federal Cost	\$103,037
Estimated Non-Federal Cost	\$103,037
Total Estimated Project Cost	\$206,074
Allocation thru FY19	\$103,037
Balance to Complete after FY19	\$0
President's Budget FY20	\$0
FY20 Allocation (thru JAN 2020)	\$0
FY21 President's Budget	\$0

FY20 Planned Activities:

Final meeting with sponsor to deliver final report and project closeout.

Issues and Other Information:

None.

Congressional Interest:

Sen. Mitch McConnell
 Sen. Rand Paul
 Rep. John Yarmuth
 Rep. Brett Guthrie
 Rep. Thomas Massie

Floyds Fork Ecosystem Restoration, Kentucky



Floyds Fork, Kentucky

Current Phase:

Feasibility

Location and Description:

Floyds Fork is a 62-mile long tributary to the Salt River that runs through Henry, Jefferson, and Bullitt Counties in Kentucky.

Work under this authority includes aquatic ecosystem restoration projects that will improve the quality of the environment, are in the public interest, and are cost-effective. The focus of this effort is a feasibility study to identify ecosystem restoration opportunities along Floyds Fork to create, enhance and/or protect wetland and wildlife habitat within the Floyds Fork watershed.

Authorization:

Section 206 of the Water Resources Development Act of 1996 (P.L. 99-662), as amended – Aquatic Ecosystem Restoration Study

FY 2019 Activities:

Execution of the feasibility cost share agreement occurred on 5 August 2019. Subsequent to that signing, the Corps submitted an invoice to the non-Federal sponsor for their required cost share funds.

Summarized Financial Data:

	<u>Feasibility</u>
Estimated Federal Cost	\$130,000
Estimated Non-Federal Cost	\$ 30,000
Total Estimated Project Cost	\$160,000
Allocation thru FY19	\$100,000
Balance to Complete After FY19	\$30,000
President's Budget FY20	\$0
Allocation thru FY20 (JAN 2020)	\$30,000
FY21 President's Budget	\$0

Planned FY 20 Activities:

Formulation of ecosystem restoration measures and alternatives, completion of the environmental assessment, preparation of the detailed project report, and completion of the feasibility study.

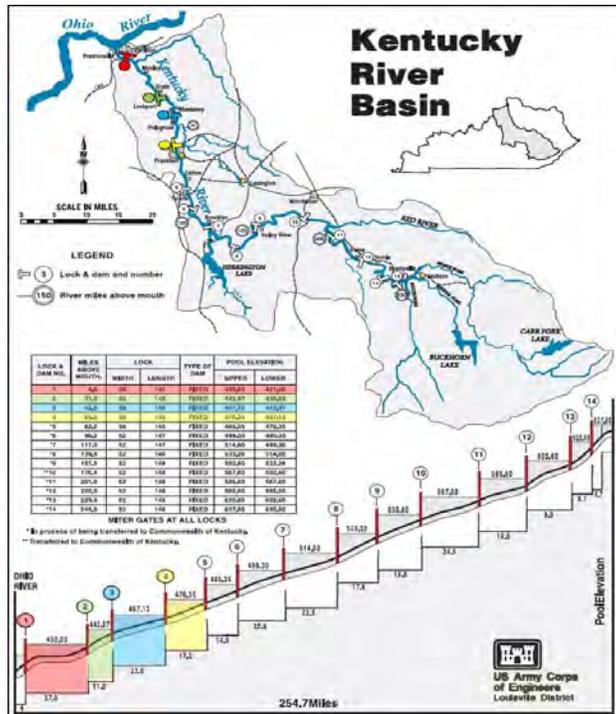
Issues and Other Information:

None.

Congressional Interest:

Sen. Mitch McConnell
 Sen. Rand Paul
 Rep. John Yarmuth
 Rep. Brett Guthrie
 Rep. Thomas Massie

Kentucky River Locks and Dams 1-4 Disposition Study



Kentucky River Navigation System

Current Phase:

Disposal

Location and Description:

The study area begins at the confluence of the Kentucky River with the Ohio River in Carrollton, KY (545.9 miles below Pittsburgh) and extends upstream (south) approximately 82 miles to Lock and Dam 5 near Lawrenceburg, KY. The study area includes the physical structures for KY 1-4, as well as the navigation pools that they form.

The Disposition Study recommended that Kentucky River Locks and Dams 1-4 should be deauthorized for commercial navigation (Congressionally authorized purpose) and conveyed through special legislation to the Kentucky River Authority.

Authorization:

Section 1331 (c) of the America's Water Infrastructure Act of 2018

Summarized Financial Data:

	Disposal
Estimated Federal Cost	\$300,000
Estimated Non-Federal Cost	N/A
Total Estimated Project Cost	\$300,000
Allocation thru FY19	\$100,000
Balance to Complete after FY19	\$200,000
President's Budget for FY20	\$0
FY20 Allocation (thru JAN 2020)	\$200,000
FY21 President's Budget	\$0

FY 2019 Activities:

Initiation of cultural resource surveys and Memorandum of Agreement. Contract award for cultural resource work.

FY20 Planned Activities:

Complete disposal including completion of cultural resources surveys, Completion of the Memorandum of Agreement (MOA) and the associated deed transfer documents, and coordination with the State Historic Preservation Office. The MOA will include the identification of applicable mitigation and potential deed restrictions.

Issues and Other Information:

None.

Congressional Interest:

- Sen. Mitch McConnell
- Sen. Rand Paul
- Rep. Thomas Massie
- Rep. Andy Barr

Northern Kentucky Riverfront Ecosystem Restoration Feasibility Study



Above: Tentatively Selected Plan Location and Restoration Measures

Current Phase: Feasibility

Location and Description:

The project area is located along 12 miles of the Ohio River across from Cincinnati, OH. The project area includes the riparian areas of the cities of Ft. Thomas, Dayton, Bellevue, Newport, Covington and Ludlow, including about ½ mile upstream of the Licking River from the mouth of the Ohio River.

A feasibility level study is being performed for ecosystem restoration and compatible recreation along the Ohio River and the mouth of the Licking River. The primary goal is to restore riparian structure and function, including geomorphology, vegetation and wildlife, with the potential added benefit of enhancing compatible public access to the rivers. Incidental benefits also include providing additional retention time for stormwater and flood waters.

Authorization:

Section 1135 of Water Resources Development Act of 1986, as amended – Aquatic Ecosystem Restoration Study

FY19 Activities:

Termination and conversion of the GI Feasibility Study to a CAP 1135 project, execution of the Feasibility Cost Share Agreement, release draft Detailed Project Report (DPR) and integrated Environmental Assessment for concurrent policy, public, and agency review.

Summarized Financial Data:

	<u>Study</u>
Estimated Federal Cost	\$20,000
Estimated Non-Federal Cost	\$20,000
Total Estimated Project Cost	\$40,000
Allocation thru FY19	\$20,000
Balance to Complete after FY19	\$0
President's Budget FY20	\$0
FY20 Allocation (thru JAN 2020)	\$0
FY21 President's Budget	\$0

FY20 Planned Activities:

Completion of all necessary levels of review for the detailed project report. Approval of the final version of the report and completion of the feasibility phase. Negotiate a multi-party project partnership agreement with the cities of Dayton, Bellevue, Newport, Covington and Ludlow for the implementation phase.

Issues and Other Information:

Under the General Investigations Feasibility Study phase, this project had a total cost of approximately \$880,000. Under the Continuing Authorities Program, and additional \$40,000 will go towards the completion of the Detailed Project Report.

Congressional Interest:

Sen. Mitch McConnell
Sen. Rand Paul
Rep. Thomas Massie