



Upper Mississippi River Restoration HREP Monitoring & Performance Evaluation Reports St. Louis District

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Davenport, IA



Performance Evaluation Reports

- St. Louis follows the “Traditional” PER approach
 - Analysis of existing data
 - Comparison of data to project objectives
 - Evaluate performance of constructed features and cost estimates
 - Section 2039 WRDA 2007 guidance
 - Use “PER” Report Template
- Initial “PER” conducted between years 1-5 post-construction
- Final “PER” target is 10 years post-construction
- HIGHLY variable due to budget and resources
- PERs posted at:

<http://www.mvr.usace.army.mil/Missions/Environmental-Protection-and-Restoration/Upper-Mississippi-River-Restoration/Habitat-Restoration/St-Louis-District/>



Construction Completed Projects: PER STATUS

PROJECT	Feasibility Report	Construction Completed	PER Status
Clarksville	1987	1990	Initial Complete (FY1996)
Stump Lake	1987	1999	Initial Complete (FY2014)
Dresser Island	1989	1991	Initial Complete (FY1998)
Pharrs Island	1990	1992	Initial Scheduled (FY2017)
Swan Lake	1993	2001	Initial Complete (FY2010)
Cuivre Island	1994	1999	Final Complete (FY2016)
Batchtown	1996	2016	Initial Scheduled (FY2018)
Calhoun Point	1996	2011	Initial Complete (FY2016)
Stag Island	1998	2000	Initial Scheduled (FY2017)



St. Louis District FY16-17 PER Work

- FY16 Completed PERs:
 - Cuivre Island Final PER
 - Calhoun Point Initial PER
- FY 17 Scheduled PERs:
 - Pharrs Island Final PER
 - Stag Island Final PER
- FY 17 Monitoring Due Outs:
 - Batchtown: Mussel and Fish
 - Pools 25 & 26 Islands: Fish, WQ, Hydrographic
 - CCNWR: pre-const. waterfowl use and veg
 - Piasa & Eagle's Nest: pre-const. UMRR-LTRM
 - Ted Shanks: post-const. tree survey (maybe)



CUIVRE ISLAND FINAL PER FY2016

- Pool 26 (RM 233-239)
- Construction complete 1999
- PER evaluated data through 2012



Objective	Measure	Monitoring	Evaluation
Side Channel Sedimentation	Recommended Plan measure not constructed	LTRM WQ Hydrographic Survey	Project features operating as designed and project objectives have been met. No further monitoring planned.
Overwintering Habitat	Hard Point Dikes	Hydrographic Survey	
Wetland	Wells, Ditches, WCS	Interior Surface Water Elevations Sediment Transect Surveys	
Forest	Reforestation	Tree survey	



CALHOUN POINT INITIAL PER FY2016

- Pool 26 (RM 219-223)
- Construction complete 2011
- PER evaluated data 2006 (pre) - 2014



Select Objectives	Measure	Monitoring	Initial Evaluation
Sedimentation	Riverside Berm, dredging	Sediment Transects	Project is operating as designed
Deepwater Habitat; fish access	Dredging, WCS	Spring EF	Will continue to monitor
Water Level Mngmnt	Pump, WCS	Site manager observation; aerial imagery	Final PER expected in FY2020
Forest	Reforestation	Aerial imagery	
Reduce Turbidity	R. Berm	UMRR-LTRM WQ	



PHARRS ISLAND FINAL PER FY17

- Pool 24 (RM 275-277)
- Construction Completed 1992
- Bullnose Dike and Trail Dike
- Site Inspection
- Veg & WQ Monitoring



PHARRS: VEG SAMPLING SUMMER 2016



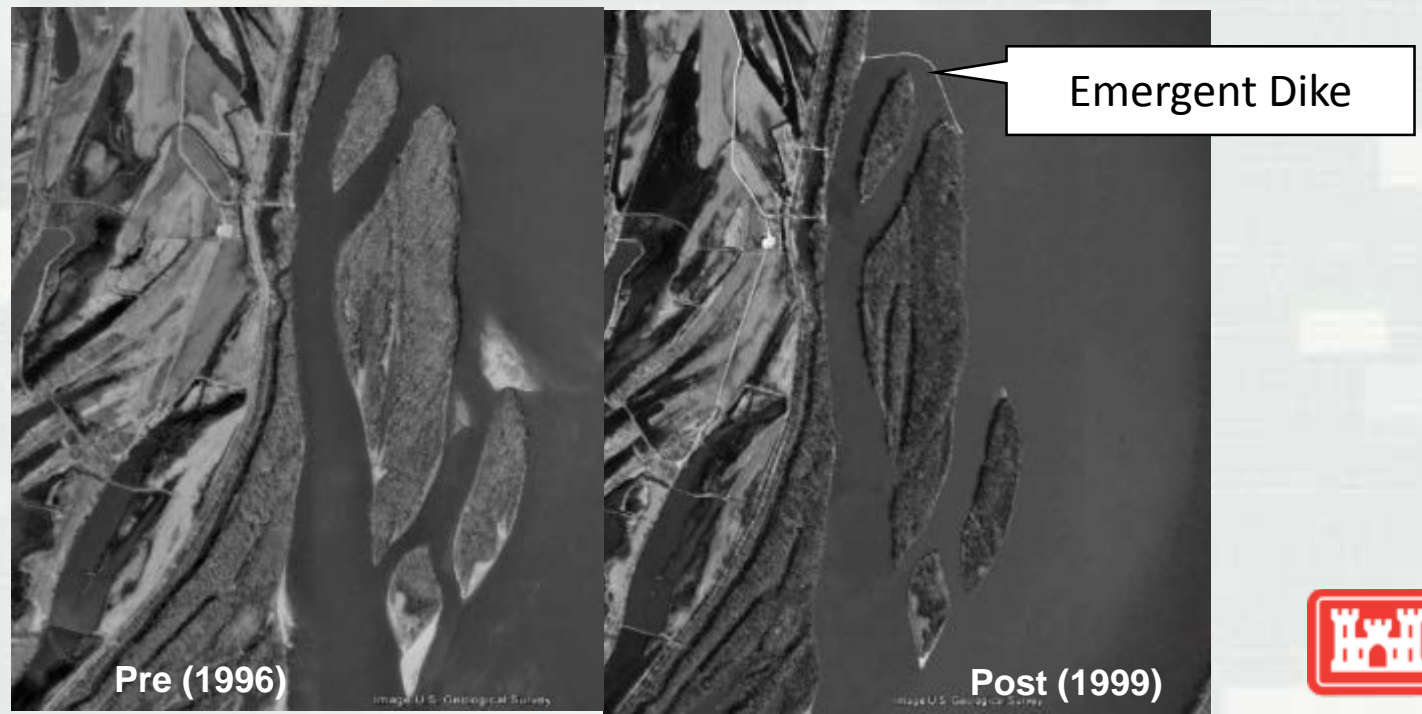
PHARRS SEPTEMBER SITE INSPECTION



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STAG ISLAND – FINAL PER FY17

- Pool 25 (RM 247-249)
- Construction complete 1999
- Emergent Dike
- Hydrographic Surveys
- ISOPACH Analysis
- Site Inspection



STAG SEPTEMBER SITE INSPECTION

