

Jameson Island SWH Mitigation Project



Background

- Construction of Jameson Island was halted (30% complete) in 2007 to pursue an independent review of sediment management activities within the Lower Missouri River Basin.
- The National Academies of Science study was released in 2011.
- MRRP has worked to address all concerns / issues of the Missouri Clean Water Commission (CWC):
 - ▶ Developed a robust water quality monitoring program
 - ▶ Modified stakeholder engagement of SWH projects
- The Missouri River Recovery Program (MRRP) has not constructed shallow water habitat (SWH) in Missouri since 2007



Jameson Island Extension:	
Chute:	27 Acres
Backwater:	3 Acres
Total SWH:	30 Acres

Existing Jameson Island Chute

Big Muddy National Fish and Wildlife Refuge

Proposed Chute Extension

Howard County Levee District

Jameson Island Potential Chute Extension Alternatives



www.morriverrcovery.org

- River Miles
- Structures
- Existing Jameson Chute
- Potential Chute Extension

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Imagery Date 2010

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Chute Extension Timeline

2012

- March 30th – Released DRAFT PIR/FONSI for Public Notice
- April 17th – Held Public Meeting in Arrow Rock, MO (approximately 80 attended)
- May 2nd – Colonel Hofmann addressed Clean Water Commission (CWC)
- May 29th – USACE requested Section 401 certification from Missouri Department of Natural Resources (MDNR)
- June 11th – Held Joint Public Hearing with the CWC on Section 401/404. Site Visit with CWC and MDNR staff.
- July 11th & Sept 25th – CWC extended the Section 401 deadline by 60 days
- November 7th – CWC rescinded the order to stop work on SWH in MO

2013

- March 1st – MDNR waived 401 Certification for Jameson Island
- April 17th – USACE signs FONSI and 404(b)1 evaluation
- May 1st – USACE receives Compatible Use Authorization from NRCS
- July 9th – USACE awards contract for Construction



Coordination with Missouri

- USACE staff worked to modify the project based on comments from MDNR during public testimony.
- USACE further refined the project based on a DRAFT 401 Certification which was withdrawn in January 2013.
- Modifications include:
 - ▶ Mechanically excavating top 3' of material and sidecasting within the cleared zone.
 - ▶ Placing material along the inside bends of chute in areas least prone to erosion.
 - ▶ Reduced width of construction to 75'.
- Project is the Least Damaging Practicable Alternative, is the least cost, and of all the alternatives provides the greatest benefits to the Howard County Levee District.



Current Status

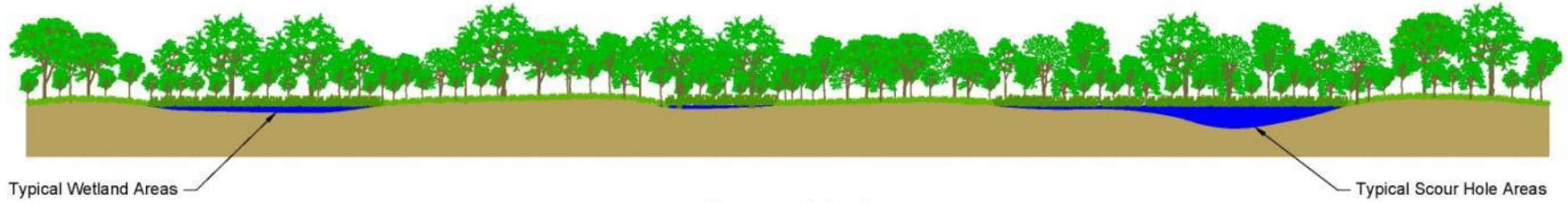
- Notice to Proceed was given on July 24th.
- Contractor has procured rock for closure structure (diverts flow into new chute).
- Contractor is performing clearing and grubbing operations.
- Dredging operation will begin fall 2013.
- USACE will monitor water quality and navigation channel during construction.
- Estimated project completion is early Summer 2014.



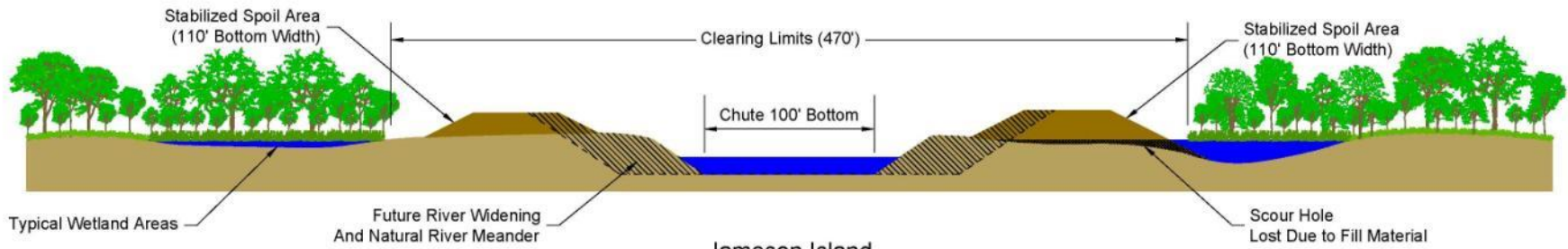
Backup Slides



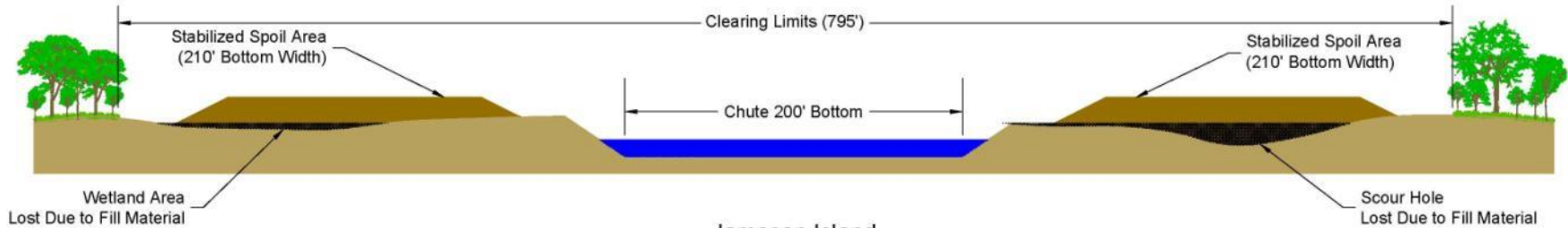
Jameson - Alternatives



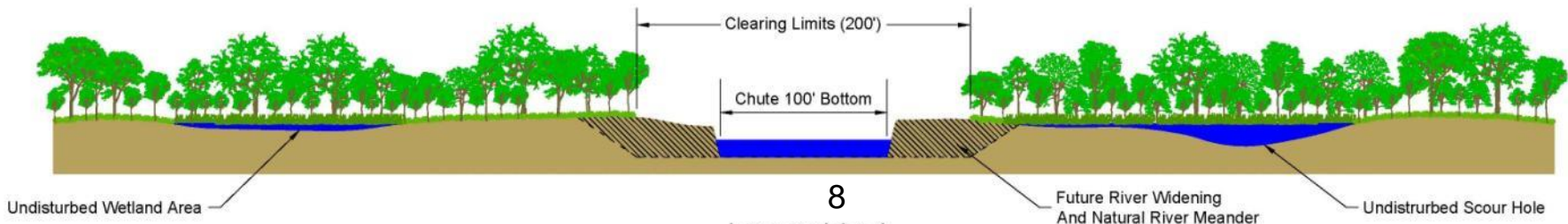
Jameson Island
Typical Existing Conditions



Jameson Island
Alternative 2



Jameson Island
Alternative 3



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Jameson Island
Recommended Alternative 4

Alternatives Matrix

Alternative	Construction Impact to Wetlands	Construction Impact to Riparian Timber	Floodplain Connectivity	Cost:
Alternative #1	None	None	None	\$0.00
Alternative #2	8.9 acres	64.7 acres	Large Temporary Stockpiles	\$4,457,042
Alternative #3	14.9 acres	109.5 acres	Large Permanent Stockpiles	\$8,670,085
Alternative #4	5.0 acres	34.4 acres	No Stockpiles	\$3,539,225

Note: Full analysis of impacts are described in detail in the PIR.



Key Messages

- Alternative 4 is the technically superior alternative. It is the Least Damaging Practicable Alternative, is the least cost, and of all the alternatives provides the greatest benefits to the Howard County Levee District.
- Proposed material to be dredged is river alluvium that was once part of the Missouri River sediment load. We are reintroducing that sediment into the river system.
- Project does not violate the Clean Water Act nor the State of Missouri Clean Water Law.



Overall Benefits of Project

- Flood Risk Management
 - ▶ Alternative 4 provides the greatest flood risk management benefits to the adjacent levee district (Howard County Levee District)
- Recreational Benefits
- Water Quality Benefits
- Missouri River Degradation
 - ▶ Sediment Reintroduction

