# GREAT LAKES PANEL AIS/GLMRIS UPDATE

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June 26, 2018

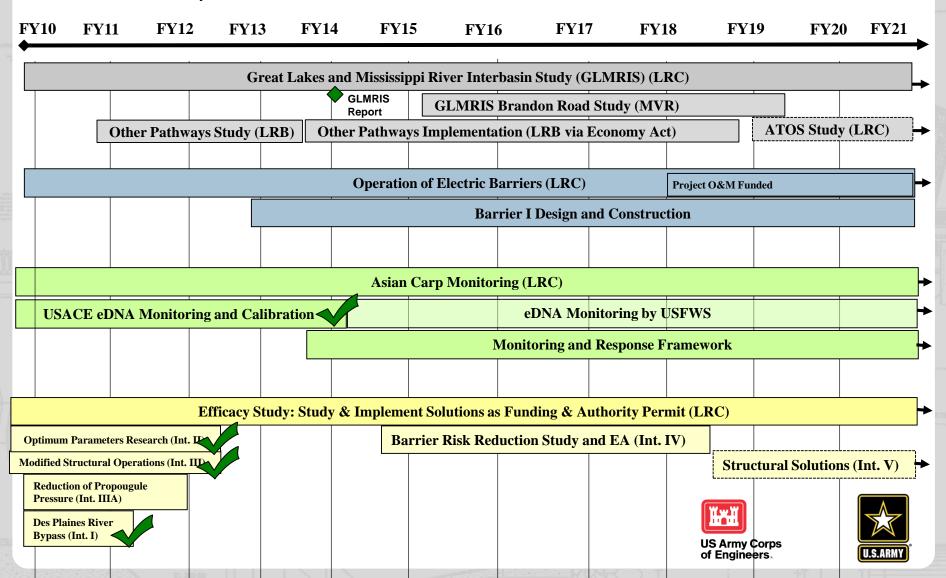
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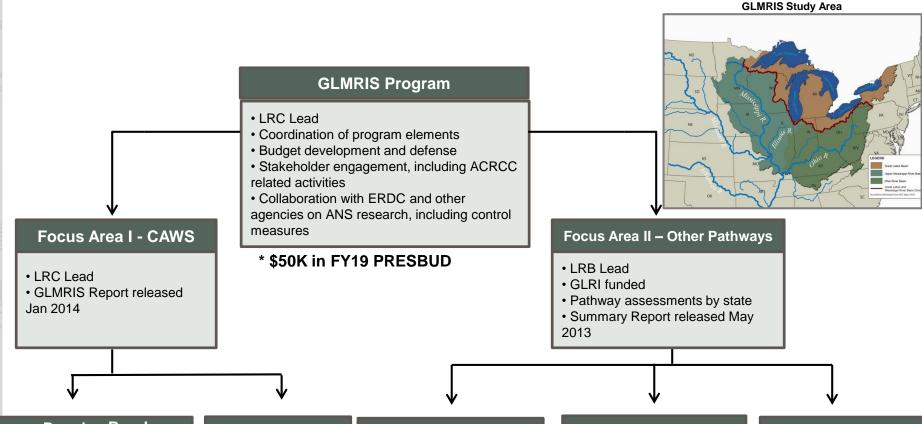


 Executed in coordination with the Federal response led by the U.S. Fish and Wildlife and through the Asian Carp Regional Coordinating Committee

Activities funded by USACE and USEPA GLRI



## THE GREAT LAKES AND MISSISSIPPI INTERBASIN STUDY (GLMRIS) OVERVIEW



#### **Brandon Road**

- MVR Lead
- One-way control point identified in three alternatives in GLMRIS Report
- Chief's Report Aug 2019

\* \$150K in FY19 PRESBUD

#### **ATOS**

- LRC Lead
- Aquatic Transfer of Other Species

\$0 in FY19

**PRESBUD** 

- Upstream and
- Downstream transfer
- Not yet funded

#### Eagle Marsh, IN

- LRL Lead
- Highest risk pathway outside
- Control implemented by NRCS with USACE support
- Phase I completed Nov 2015

#### Ohio - Erie Canal, OH

- LRB Lead
- Control implemented by State of Ohio with USACE support
- Complete by Sep 2018

#### Little Killbuck Creek, OH

- LRB Lead
- Control implemented by State of Ohio
- Complete by Sep 2018



US Army Corps of Engineers.

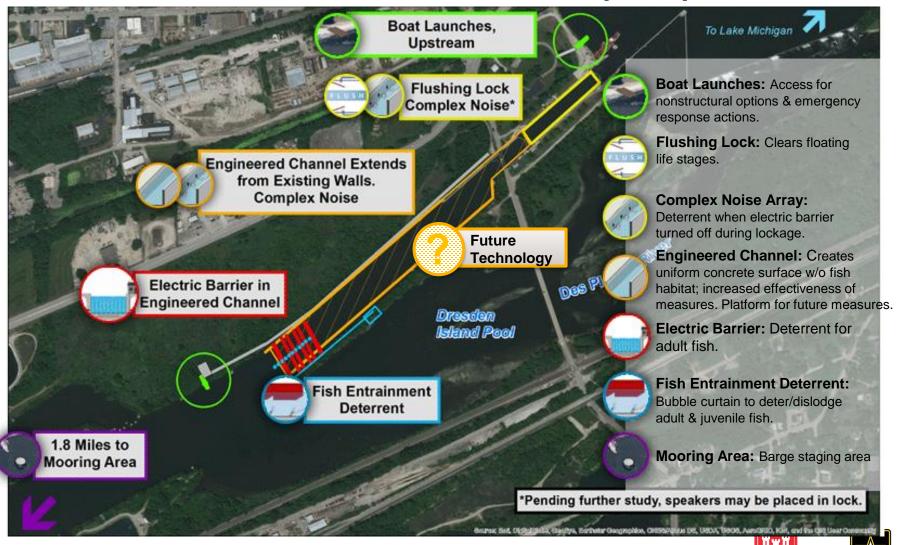


### BRANDON ROAD BOTTOMLINE UP FRONT

- The Corps is working aggressively on the Brandon Road Study and is seeking opportunities to complete the Chief's Report sooner than August of 2019.
- Utilizing risk informed decision making the Corps will defer engineering analysis to the Preconstruction Engineering and Design phase in order to expedite completion of the Chief's Report.
- Implementation of a project requires, under section 221 of the Flood Control Act of 1970, as amended, a non-federal sponsor with authority and capability to provide the items of local cooperation for the project.
- The state of Illinois has provided a letter of intent to serve as the non-federal sponsor working in partnership with the GL states, and other stakeholders.
- A regional partnership is crucial to achieving an implementable and sustainable project.
- Rock Island District has held discussions with HQ regarding the path forward to complete the study. A final recommendation and schedule for completing a Chief's Report is pending further discussion with the non-federal sponsor.

US Army Corps of Engineers.

## BRANDON ROAD STUDY TENTATIVELY SELECTED PLAN (TSP)



### **PUBLIC COMMENTS OVERVIEW**

Source of All Comments							
Campaign	9,200+						
Web Submitted	1890						
Public Meetings	75						

Three major campaign letters – 9,200+ supported TSP and/or Ultimate Separation

Comment	
Count	Percentage
958	50.7%
563	29.8%
406	21.5%
239	13.1%
241	12.8%
197	10.4%
168	8.9%
108	5.7%
106	5.6%
75	4.0%
71	3.8%
46	2.4%
39	2.1%
31	1.6%
30	1.6%
17	0.9%
17	0.9%
5	0.0%
	958 563 406 239 241 197 168 108 106 75 71 46 39 31 30 17 17

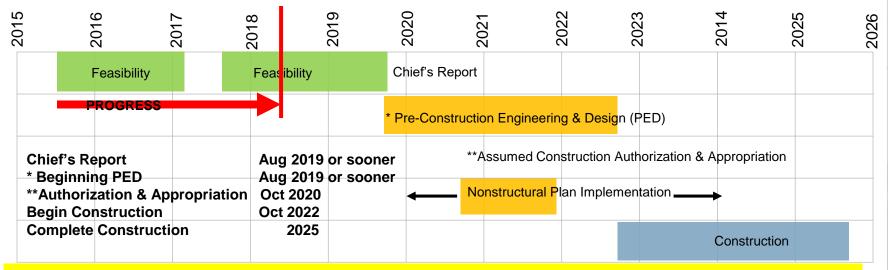


Do Nothing

Supports Non-Structural Measures Only

Supports TSP Lock Closure / Ultimate Separation

### PROJECT SCHEDULE



\* PED is able to begin after submittal of Chief's Report to ASA(CW) and Design Agreement is signed pending funding

### **Key Schedule Drivers**

- Completion of Chief's Report
  - Non-federal sponsor
  - Internal & external reviews
- Non-federal sponsor/cost share agreements (DA/PPA)
- Availability of PED funds in FY19/20
- Complex innovative designs increase PED duration
- Construction authorization & appropriation







### **GLMRIS-BRANDON ROAD**

### CHANGES IN BRANDON ROAD LOCK OPERATIONS DUE TO TENTATIVELY SELECTED PLAN (TSP)

#### **Estimated TSP Navigation Impacts Due to**

- TSP construction activities
- TSP's operation, maintenance and repair, rehabilitation and replacement

#### **TSP Construction Activities**

- Align Illinois Waterway (IWW) Maintenance Closures With TSP Construction
- Reduces annual navigation impacts from \$26.2M/yr to \$4.8 M/yr
- Why? Business closures & associated traffic reductions no longer attributed to TSP construction closures but instead planned IWW
  maintenance closures.

#### TSP's operation, maintenance and repair, rehabilitation and replacement

- Changes to standard BR Lock operations due to TSP are attributed to the flushing lock.\*
- Navigation would experience reduced efficiencies due to lock flushing (15 minutes) and the associated operational changes (increased transit time).

	Transit Time	=	Processing Time Time for lockage process (approach, entry, chambering, exit & turnback times)	+	Delay Time Time between vessel arrival at lock & when lock is ready to begin processing vessel
No New Federal Action	2.10 hours	=	1.09 hours	+	1.01 hours
TSP	4.54 hours	=	1.27 hours	+	3.27 hours
Time Increases due to TSP (TSP – No New Federal Action)	2.44 hours	=	0.18 hours	+	2.26 hours

<sup>\*</sup>The following ANS controls are not expected to impact navigation during operation of TSP: nonstructural measures, engineered channel, fish entrainment mitigation, acoustic fish deterrents (complex noise) and electric barrier. The TSP electric barrier is assumed to not impact navigation. The electric barrier is assumed to be off when vessels approach the downstream approach channel and are within the approach channel and the lock.

### **GLMRIS SPECIES**

### **GREAT LAKES**

Blueback herring Threespine stickleback Ruffe Sea Lamprey Tubenose goby Grass kelp Red algae Diatom Fishhook waterflea Bloody red shrimp Reed sweetgrass Viral Hemorrhagic Septicemia Virus

### **MISSISSIPPI RIVER**

Scud Bighead Carp Silver Carp

### ANS established in the GREAT LAKES BASIN with potential to transfer into the MISSISSIPPI RIVER BASIN



ANS established in the MISSISSIPPI RIVER BASIN with potential to transfer into the GREAT LAKES BASIN





### **AQUATIC INVASIVE SPECIES STRATEGY FUNDING**

 The strategy is funded through USACE and EPA GLRI funding; USEPA supports critical needs at the barrier, GLMRIS & efficacy requirements with GLRI allocations

	FY16	FY17	FY18	FY19
GLMRIS Program	\$300K	\$300K	\$300K	\$50K
GLMRIS Research GLRI (EPA)	\$99K	\$1.62M	\$1.54M	TBD
GLMRIS GLRI FA2	\$273K	\$1.525M	\$240K	TBD
GLMRIS Brandon Rd	\$700K	\$2.3M	\$1.55M	\$150K
GLMRIS Brandon Rd GLRI	\$500K	\$0	\$0	TBD
GLMRIS ATOS	\$0	\$0	\$0	\$0
Barrier CG	\$30.162M*	\$12M**	\$0	\$0
Barrier O&M	\$0	\$0**	\$16.7M	\$18.9M
Regular O&M	\$11.3M	\$10.8M	\$16M	\$17.2M
Efficacy	\$0K	\$500K	\$0***	\$500K
Monitor/Response	\$700K	\$700K	\$700K	\$700K
Barrier GLRI (EPA)	\$0K	\$4.8M	\$981K	TBD

<sup>\*</sup>Funded to completion amount is \$266M (CG) thru FY17, includes funds to conduct O&M activities

#### **Funding Notes**

- GLMRIS and GLMRIS BR underfunded in FY19 PRESBUD; will require FY19 Work Plan to meet objectives
- GLMRIS ATOS capacity was \$400K in FY19 but was not supported
- GLRI funds are sole source of GLMRIS research efforts; GLRMIS BR not funded for R&D





<sup>\*\*</sup>CG Funds ILO O&M Funding due to FY17 Appropriations: FY17 PRESBUD = \$12M O&M, FY17 Approps = \$12M CG

<sup>\*\*\*</sup>Efficacy budget (\$500K) not supported in the FY18 submission

### **QUESTIONS?**

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