

GLMRIS

GREAT LAKES AND MISSISSIPPI RIVER INTERBASIN STUDY



AQUATIC NUISANCE SPECIES



ECOSYSTEMS



NAVIGATION



RECREATION



FLOOD RISK MANAGEMENT



WATER USE

GLMRIS - Next Steps...

- Strategic control of ANS transfer is a shared responsibility
 - ▶ Success of any ANS control strategy is directly linked to effective implementation of both structural and nonstructural measures
 - ▶ Multi-agency – federal, state, local – and public responsibility
- GLMRIS Report
 - ▶ Range of alternatives to prevent ANS 2-way transfer between the GL & MR basins, via **aquatic pathways**
 - ▶ Nonstructural measures
 - Active management; biologic controls
 - Monitoring
 - Education and outreach
 - Laws and regulations
 - ▶ Structural alternatives
 - New/novel ANS control technologies
 - Hydrologic separation
 - “Hybrids” – combination of both



GLMRIS - Brandon Road

- GLMRIS Report provides basis for further investigations
- Scope of work
 - ▶ Viability of establishing a one-way control point to prevent upstream transfer of ANS
 - ▶ Range of options
 - No additional action
 - Nonstructural measures
 - Various combinations of technologies
 - ▶ Determination of federal interest and benefit to the nation
 - ▶ Recommendation – Decision document
- Goals
 - ▶ Reduce risk of one-way ANS transfer to the maximum extent feasible
 - ▶ Minimize impacts to existing uses/users
- Results can inform future action



Why Brandon Road?

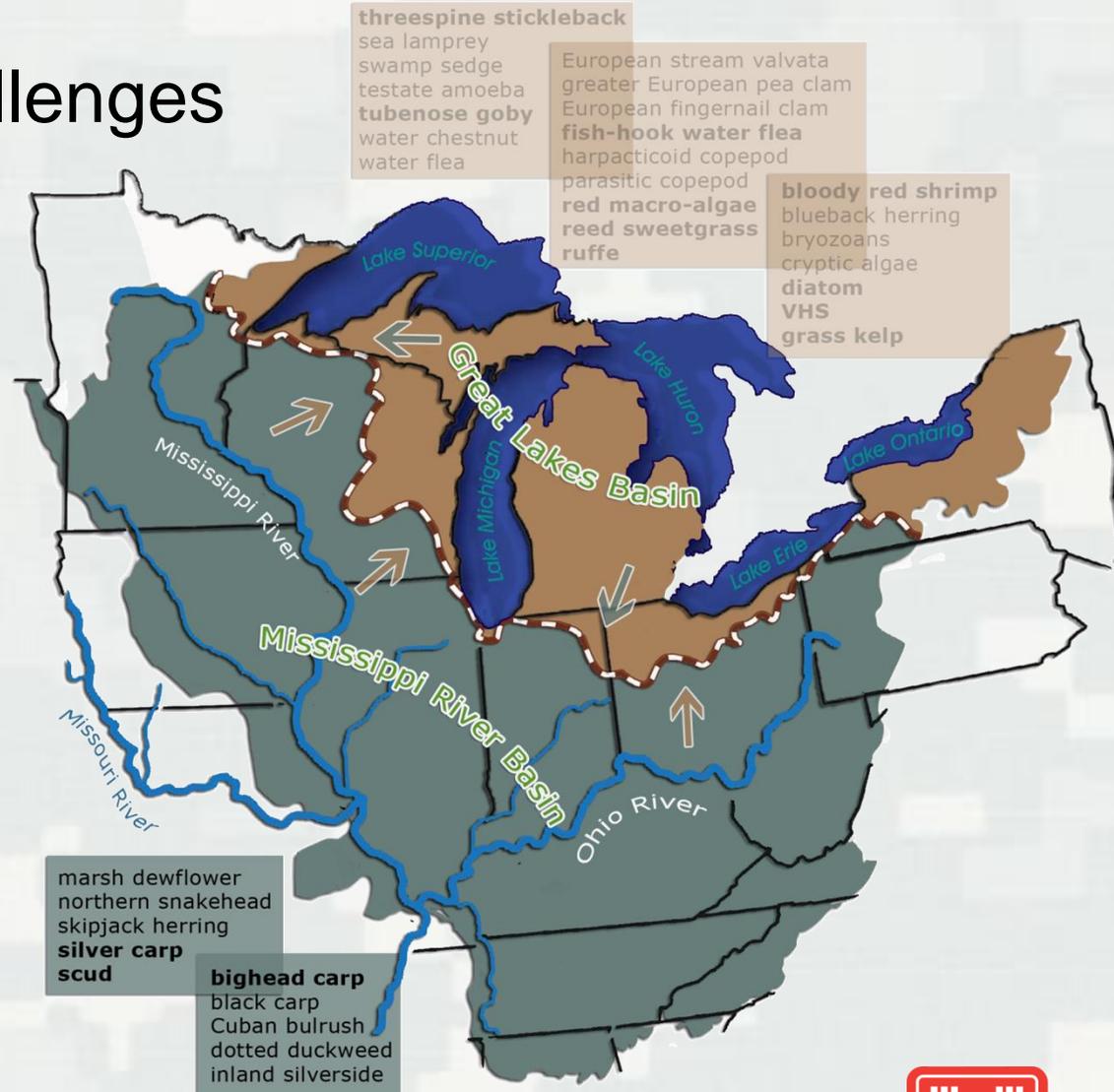
- **Effective** – Control point can address upstream transfer of Mississippi River species through all CAWS pathways
 - ▶ Avoids bypass via Lower Des Plaines
 - ▶ Provides mechanical ‘fail-safe’ for controls
 - ▶ Most rapidly-achievable structural option
- **Relevant** - Identified in GLMRIS
 - ▶ Included in 3 of 6 structural alternatives
- **Valuable** - Opportunity to enhance effectiveness of existing technologies, demonstrate new concepts
 - ▶ Adaptive management → phased approach toward 2-way risk reduction
 - ▶ Serves as a control point for species of particular public & stakeholder concern: Asian carp
 - ▶ Adds defense in depth to existing controls at Romeoville
- **Minimum Impacts** - A project at Brandon Road control point will seek to minimize adverse impacts to existing waterway uses and users
- **Responsive** - Incorporates stakeholder input
 - ▶ Communicated urgency for action
 - ▶ Location-specific interest



Technologies: Opportunities & Challenges

- Implementation of structural controls at Brandon Road site
 - ▶ Addresses one-way (upstream) transfer of ANS
 - ▶ Does not address
 - Other aquatic pathways
 - Non-aquatic pathways
- Enhances knowledge on ANS control technologies
 - ▶ Swimmers
 - ▶ Floaters
- Hull-fouling “hitchhikers” may remain uncontrolled
 - ▶ Exploring other technologies; biocides

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



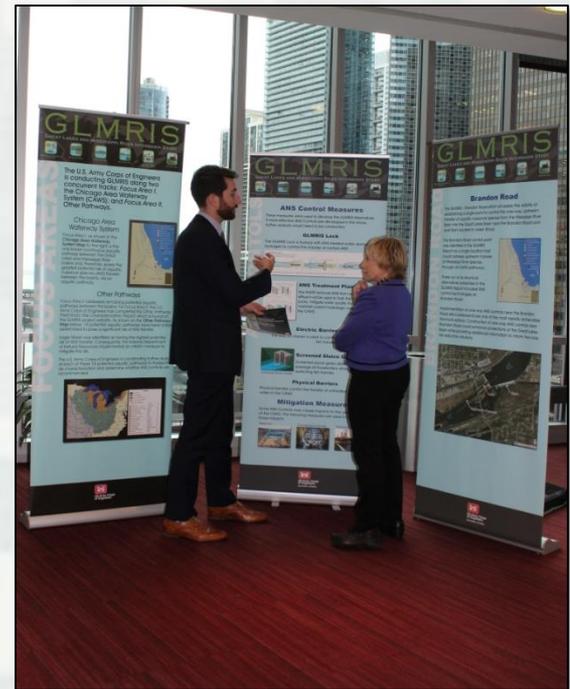
Anticipated Outcomes

- Scoping the development of a feasibility-level decision document
 - ▶ Envisioned to support an agency decision
 - Congressional authorization and appropriations required for future implementation
 - ▶ Could serve as the basis for potential future action
- Environmental Impact Statement
- *Potential* Interim Products
 - ▶ Updates on analyses from GLMRIS Report
 - ▶ Engineering technical effort
 - ANS flushing lock
 - Engineered channel
- Dedicated stakeholder outreach
 - ▶ Executive Steering Committee
 - ▶ Engagements on demand
 - ▶ Regular updates through GLMRIS website
 - Quarterly newsletter
 - Social media



Current Activities

- Scoping activities, costs and timelines for Interim Report
 - Engineering, economic, and environmental analyses
 - Agency requirements to comply with statutes and policies
- NEPA Public Scoping
 - ▶ Purpose – comment on scope of effort at Brandon Road site
 - ▶ Public meetings
 - Lemont, IL – Saturday, 06-Dec, 1-4 PM
 - Chicago, IL – Tuesday, 09-Dec, 3-6 PM
 - New Orleans, LA – Thursday, 08-Jan, 3-6 PM
 - ▶ Comment period, closes on January 30, 2015
 - ▶ Comments may be offered through:
 - Public meetings
 - Website
 - Mail or Hand delivery



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Brandon Road

As a next step in the Great Lakes and Mississippi River Interbasin Study (GLMRIS), the Assistant Secretary of the Army (Civil Works) has directed the U.S. Army Corps of Engineers (USACE) to proceed with a formal evaluation of potential [aquatic nuisance species \(ANS\) control technologies](#).

The GLMRIS - Brandon Road effort will assess the viability of establishing a single point to control the one-way, upstream transfer of aquatic nuisance species from the Mississippi River basin into the Great Lakes basin near the Brandon Road Lock and Dam located in Joliet, Illinois.

[Download PDF Map](#) 3.4 MB

The [GLMRIS Report](#), released in January 2014, describes alternatives to prevent aquatic inter-basin transfer of ANS between the Great Lakes and Mississippi River watersheds. Implementation of one-way ANS controls near the Brandon Road site is believed to be one of the most rapidly achievable structural options. Construction of one-way ANS controls near Brandon Road is expected to enhance protections for the Great Lakes basin while providing additional information to inform two-way risk reduction solutions.

USACE is scoping the development of a feasibility-level decision document to support an agency decision that could provide the basis for further possible action. In accordance with the [National Environmental Policy Act \(NEPA\)](#), an environmental impact statement (EIS) will be developed concurrently with the technical evaluations of possible controls at the Brandon Road site.



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