

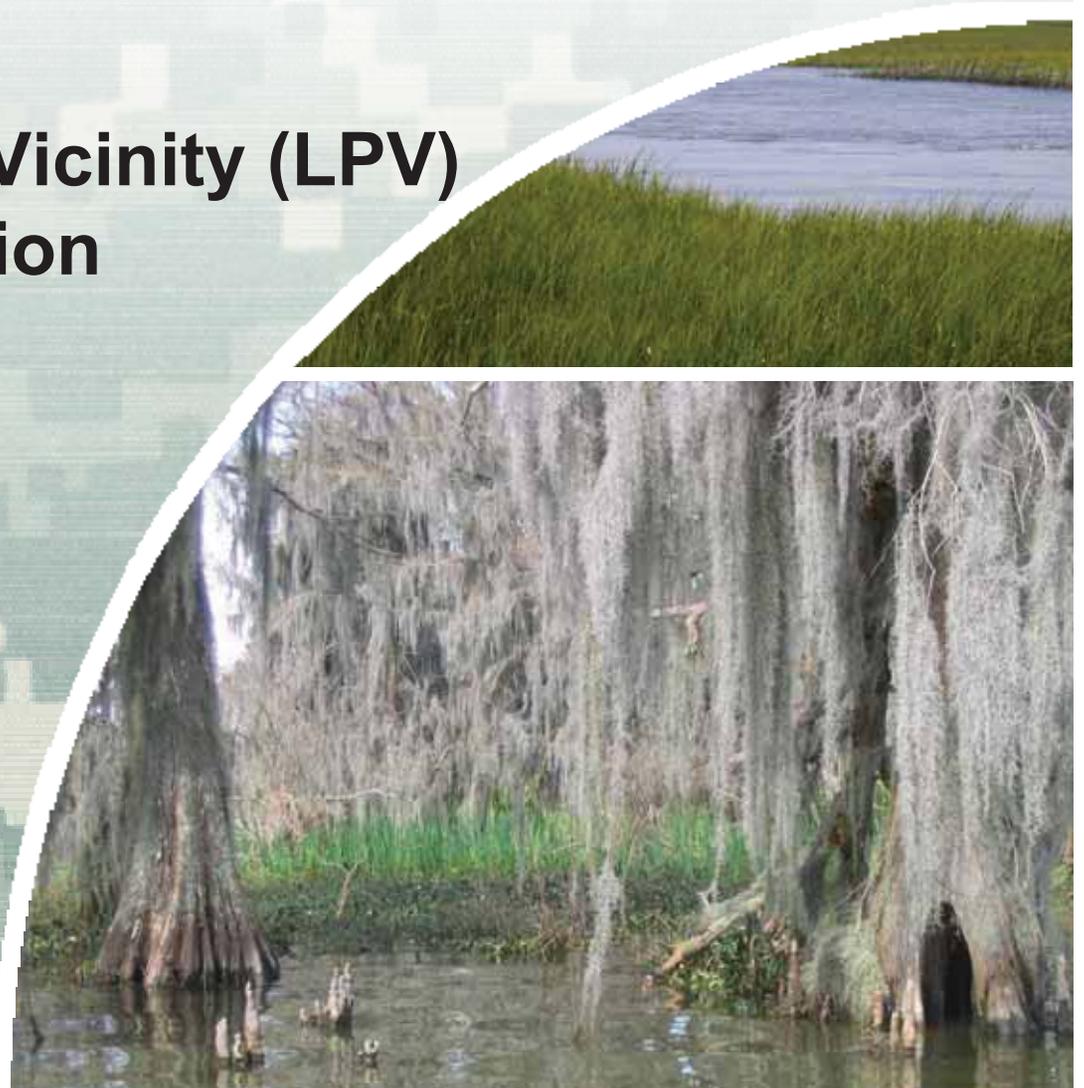
Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS)

Lake Pontchartrain & Vicinity (LPV) Environmental Mitigation

Church at New Orleans
March 15, 2012



US Army Corps of Engineers
BUILDING STRONG[®]



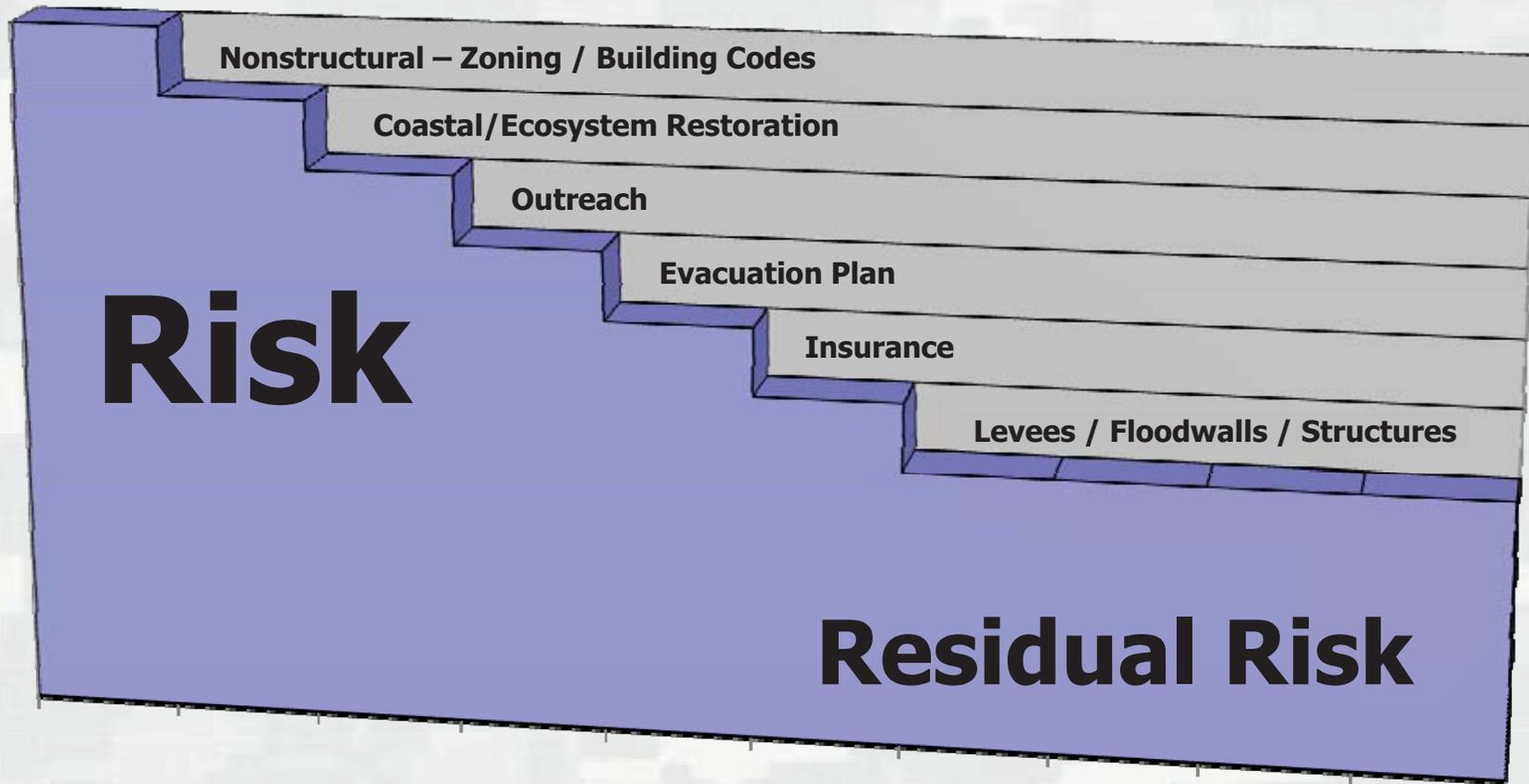
Meeting Agenda

- Discuss Mitigation Program objectives
- Review proposed mitigation project sites
- Break-Out / Feedback Session



Risk – Shared Responsibility

Initial Risk



National Environmental Policy Act (NEPA)

- Alternatives for all major federal actions must be analyzed
- Impacts to the human and natural environment are quantified
- Impacts are discussed in environmental documents
- Public Involvement is KEY. We want to hear from you!



Individual Environmental Report Projects



Environmental Mitigation

- Avoid impacts to natural resources
- Minimize impacts to the greatest extent possible
- Compensate for unavoidable impacts
- Mitigation plans will be discussed in environmental documents
- Mitigation is fully funded



LPV Mitigation Policies

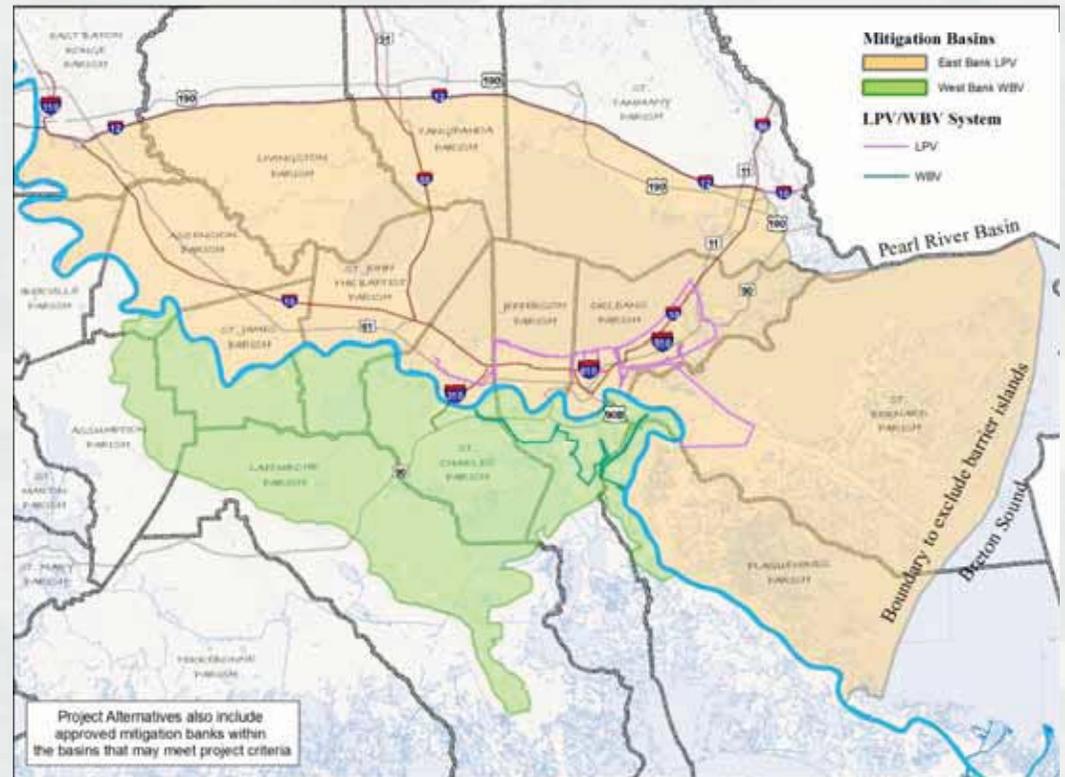
In accordance with Section 2036 of WRDA 2007, mitigation would occur:

- Within the same watershed/hydrologic basin (Barataria or Lake Pontchartrain)
- Mitigate in-kind - within same habitat type
 - Bottomland hardwood
 - Swamp
 - Fresh/Intermediate marsh
 - Brackish marsh

Options under consideration

(not organized in order of priority):

- Corps constructed projects on public lands
- Corps constructed projects on private lands
- Mitigation Banks



LPV Affected Habitats



Bottomland Hardwoods Wet



Bottomland Hardwoods Dry



Swamp



Intermediate Marsh



Brackish Marsh



Total Impacts

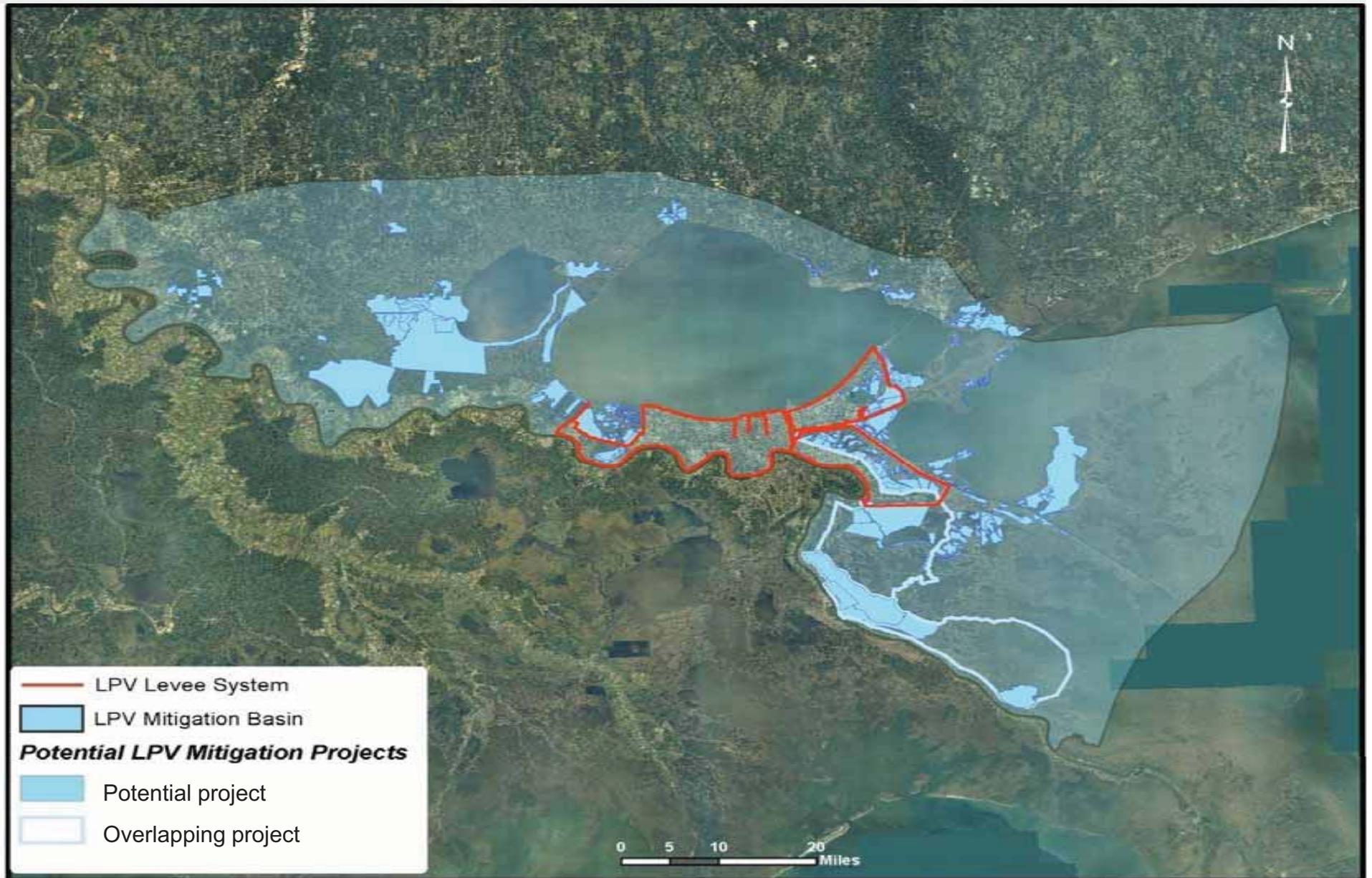
Lake Pontchartrain & Vicinity Projects – Current Working Estimate

Habitat Type	Quantity (acres)	Quality (AAHUs*)
Bottomland Hardwood Wet	260	125
Bottomland Hardwood Dry	149	24
Swamp	210	115
Intermediate Marsh	206	92
Brackish Marsh	264	131
Total	1,089	487

*AAHU (Average Annual Habitat Unit) is a numerical value representing the quality of a habitat.



Lake Pontchartrain & Vicinity Projects Considered

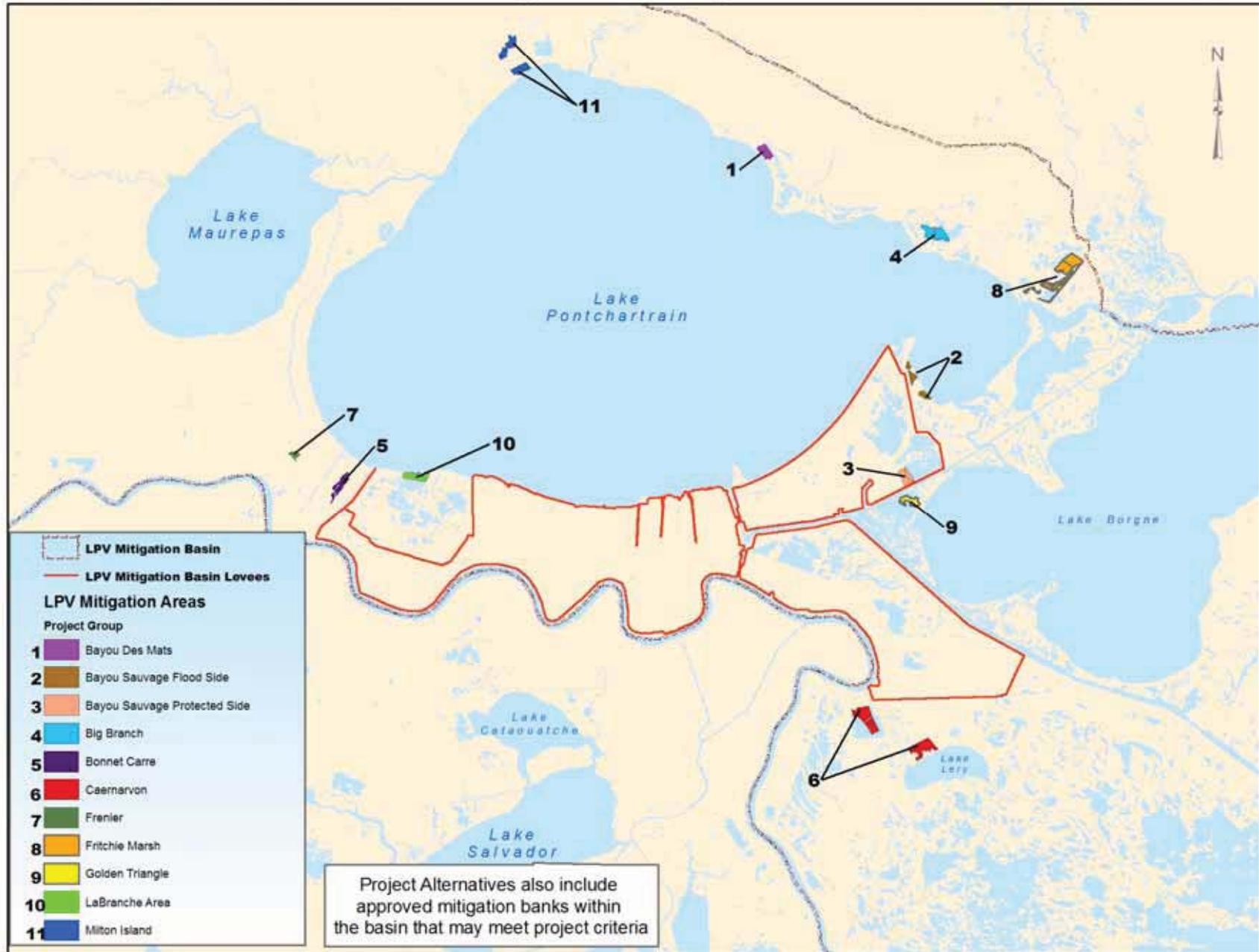


Initial Screening Criteria Summary

- Compliance with laws, regulations and policies
- Avoid Hazardous Toxic and Radioactive Waste (HTRW)
- Within LPV Mitigation Basin (Lake Pontchartrain)
- Must address 100% of mitigation need in kind by habitat type
- Technically viable (e.g. correct salinity)
- Must restore, establish, or enhance habitat (i.e. no preservation projects)
- No conflicts with other projects constructed or planned for construction
- Not dependent upon another project
- Can be easily scaled to meet changing mitigation requirements
- Addresses multiple mitigation requirements in one project area
- Addresses opportunities to expand existing resource-managed areas



LPV Mitigation Project Areas



Mitigation Plan Selection Criteria

- **Risk & Reliability:**

e.g. Sustainability, Implementability, Uncertainty, Adaptability

- **Environmental:**

Environmental Impacts

- **Watershed & Ecological Site Considerations:**

e.g. Fragmentation, connectivity, habitat linkage, location in watershed, consistency with watershed plans

- **Time:**

Duration to contract award & time to physical construction complete/initial planting

- **Cost Effectiveness:**

Average annual cost per average annual habitat unit

- **Other Cost Considerations:**

Cost included Construction, Engineering & Design, Construction Supervision and Administration, Real Estate, and Operation and Maintenance



Lake Pontchartrain & Vicinity Mitigation Project Tentatively Selected Plan



LPV Mitigation Tentative Timeline

Initiated Study	May 2010	(Completed)
5 Scoping Meetings	May 2010	(Completed)
Initial Screening of Measures	Sep 2010	(Completed)
Project Status Public Meetings	Dec 2010	(Completed)
Refine Measures	Apr 2011	(Completed)
Assemble Alternative Plans	Aug 2011	(Completed)
Identify Tentatively Selected Plan	Nov 2011	(Completed)
Public Meeting	Mar 2012	
Release Individual Environmental Report	Oct 2012	
Division Approval of Mitigation Plan	Mar 2013	
Final Design of Mitigation Projects	Mar 2013	
Start Real Estate Acquisition	Mar 2013	
Award Construction Contract	Nov 2013	
Physical Construction Complete/Initial Planting	Apr 2016	



Upcoming Documents for Public Review

- **IER Supplement 11.d, Improved Protection on the Inner Harbor Navigation Canal, Seabrook Gate**
 - Public Review anticipated March/April 2012



Upcoming Public Meetings

LCA-Mississippi River Hydrodynamic and Delta Management Study Scoping

All meetings include an Open House from 6:00 to 6:30 p.m.

Presentation and Formal Comment Submission 6:30 to 8:00 p.m.

Tuesday, April 10, 2012

Louisiana Dept. of Natural Resources,
LaSalle Building
LaBelle Room – 1st Floor
617 North Third Street
Baton Rouge, LA 70802

Thursday, April 12, 2012

Port of New Orleans, Auditorium
1350 Port of New Orleans Place
New Orleans, LA 70160

Tuesday, April 17, 2012

Larose Civic Center
307 East 5th Street
Larose, LA 70373

Thursday, April 19, 2012

Boothville-Venice Elementary School
#1 Oiler Drive
Boothville, LA 70038

Tuesday, April 24, 2012

Waveland City Hall
407 Hwy 90
Waveland, MS 39576

Thursday, April 26, 2012

St. Bernard Parish Council Chambers
8201 W. Judge Perez Drive
Chalmette, LA 70043



Opportunities for Public Input

- Regular public meetings throughout the Hurricane and Storm Damage Risk Reduction System (HSDRRS) Area
- Sign in tonight to get on our meeting notification mailing list!
- Construction Impact Hotline: 1- 877- 427- 0345
- Comments can be submitted at any time at:

www.nolaenvironmental.gov

Questions and comments may be submitted to:

Telephone: 504 - 862 - 2201

[E-mail: AskTheCorps@usace.army.mil](mailto:AskTheCorps@usace.army.mil)





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Resources

www.nolaenvironmental.gov

NOLA Environmental
NEW ORLEANS, LOUISIANA
Environmental Compliance Data Bank
www.nolaenvironmental.gov

PROJECTS | MEETINGS | LIBRARY | DATA VIEWER | GET INVOLVED | RELATED LINKS

Welcome to NOLA Environmental! This site has been set up to share with the public the efforts being made by the U.S. Army Corps of Engineers and other federal and state agencies in south Louisiana regarding the environmental compliance for proposed federal and state Hurricane Risk Reduction Projects. Additional information pertaining to other federal and state agencies hurricane recovery efforts in southeast Louisiana will also be posted on the site as it becomes available.

The U.S. Army Corps of Engineers, Mississippi Valley Division, New Orleans District implemented Alternative Arrangements on March 13, 2007 under the provisions of the Council on Environmental Quality Regulations for implementing the National Environmental Policy Act (40 CFR § 1506.11). Learn more...

Announcements

- [Draft IER 7 Public Comment Period 5/6 - 6/4](#)
- [Draft IER 13 Comment Period extended to 5/18](#)
- [Draft IER 5 Public Comment Period 5/4 - 6/3](#)
- [Draft IER 16 Public Comment Period 5/1 - 5/30](#)
- [Draft IER 6 Public Comment Period 4/24 - 5/23](#)
- [IER 6 - The Clean Water Act Section 316 Public Notice Comment Period 4/24 - 5/23](#)
- [Orleans Parish Pump Station Stormprooing EA #474 Drafts Public Comment Period 4/17 - 5/23](#)
- [Jefferson Parish Pump Station Stormprooing EA #475 Drafts Public Comment Period 4/24 - 5/20](#)
- [Draft IER 10 Public Comment Period 4/13 - 5/12](#)

Upcoming

- [05/11/2009 - Public Meeting IER 6, 9, 10 and IER 10](#)
- [05/17/2009 - Draft IER 10 Public Comment Period Ends](#)

Newly Available

NEW NOLA Environmental Data Viewer

- [News Release 06 May 09 Draft IER 5](#)
- [IER 5 - Phase 2 Final Report: Operator Scenario Analysis](#)

FEATURED PROJECT

USACE-MvH Emergency Alternative Arrangements Greater New Orleans Hurricane and Storm Damage Risk Reduction System Projects

www.mvn.usace.army.mil

U.S. Army Corps of Engineers New Orleans District - Microsoft Internet Explorer provided by USACE, New Orleans District

US Army Corps of Engineers
NEW ORLEANS DISTRICT

Floodwalls

Building flood walls, stronger better. The U.S. Army Corps of Engineers is planning to start immediately to complete the Hurricane and Storm Damage Risk Reduction System (HSDRRS) by 2012. To that end, the Corps is using valuable resources learned to construct more resilient levees and floodwalls.

[Go to project info](#)

Public Information

Hurricane & Flood Risk Reduction
Learn more about what the Corps is doing to reduce risk on the Waterway. [More Info](#)

Emergency Information
Road closures, bridge repairs, flight information, etc. [More Info](#)

Info Environmental
Did you miss a meeting? No problem! Find presentations, programs and [More Info](#)

TOP HEADLINES

- [Document confirms action on Westbank Hazard](#)
- [Corps releases environmental document to public review](#)
- [Corps to conduct update on Westbank risk reduction projects](#)
- [Corps seeks public input on Westbank risk reduction projects](#)

ASK THE CORPS

The Corps wants to hear from you!

Q: Do you have information on the closing of industrial locks on August 2, 2009 for the delta?

A: Yes, for information regarding the August 2nd closing of the lower-lower Mississippi (industrial locks, areas and locks).

Submit questions or comments to publicaffairs@no.usace.army.mil

FEATURED VIDEOS

- [West Closure Complex](#)
Learn more about the alternative under consideration to reduce risk on the Waterway. [More Info](#)
- [Hurricane & Storm Damage Risk Reduction System](#)
From design to construction, find out more about system features.

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Break-Out / Feedback Session

