



Bayou Sauvage Flood Side Marsh Restoration



Project Location

This proposed project is located in the far eastern section of Lake Pontchartrain, immediately east of Interstate 10, fronting the community of Irish Bayou in Orleans Parish, Louisiana.

Project Features

This alternative consists of 302 acres of brackish marsh restoration that would be achieved by placing dredged material in open water to elevations conducive for wetland development, followed by planting of marsh vegetation. Features also include the temporary placement of sheet pile along Irish Bayou to contain dredged material and the construction and rehabilitation of rock dikes along the shoreline of Lake Pontchartrain.

Borrow Plan

The borrow plan is to obtain material from Lake Pontchartrain, requiring a buffer of 2,000 ft between the existing shoreline and the borrow area limit.

For more information, please visit www.nolaenvironmental.gov.

U.S. ARMY CORPS OF ENGINEERS – NEW ORLEANS DISTRICT

7400 LEAKE AVE., NEW ORLEANS, LA 70118

WWW.MVN.USACE.ARMY.MIL

www.facebook.com/usacenola

www.twitter.com/teamneworleans

www.flickr.com/teamneworleans



FACT SHEET: LPV HSDRRS Mitigation

Updated: 09 AUGUST 2012

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Project purpose

The Corps is making a concerted effort to avoid and minimize environmental impacts to the maximum extent practical while developing the Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS). When habitat losses occur, the Corps will offset such losses through compensatory environmental mitigation. Compensatory environmental mitigation is an important part of HSDRRS construction and could include habitat restoration or enhancement.

Project location

Generally, impacts generated from the Lake Pontchartrain & Vicinity (LPV) hurricane project will be mitigated in the Lake Pontchartrain Basin, between I-12 and the Mississippi River. **See map on reverse.**

Project features

The HSDRRS mitigation project team has evaluated over 400 potential mitigation features in cooperation with the environmental resource agencies and the non-federal sponsor and has identified a tentatively selected plan. Currently, the plan will compensate for four habitat categories impacted during development of the risk reduction system: wet and dry bottomland hardwood forests, swamps and marshlands.

*Current estimated habitat impacts from constructing LPV HSDRRS projects

Habitat Type	Quantity (Acres)	Quality (AAHUs**)
<i>Bottomland Hardwood Wet</i>	352	134
<i>Bottomland Hardwood Dry</i>	70	21
<i>Swamp</i>	197	108
<i>Intermediate Marsh</i>	186	87
<i>Brackish Marsh</i>	251	127
Total	1,056	477

*To compensate for these impacts, the mitigation acreage may be larger than the impact acreage. Impacts last updated in June 2012.

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

Project status

The Corps' ongoing mitigation efforts include periodic Individual Environmental Report (IER) status meetings. There have been five meetings thus far, three in May 2010, one in December 2010, and one in March 2012. The New Orleans District is currently working to complete the NEPA compliance on the mitigation plan.

Upcoming major milestones include: Release IER for Public Review (Dec 2012), Submit Project Decision Document (PDD) to Division Office (Feb 2013).

For more information, please visit nolaenvironmental.gov.

U.S. ARMY CORPS OF ENGINEERS – NEW ORLEANS DISTRICT

7400 LEAKE AVE, NEW ORLEANS, LA 70118

WWW.MVN.USACE.ARMY.MIL

www.facebook.com/usacenola

twitter.com/teamneworleans

www.flickr.com/teamneworleans



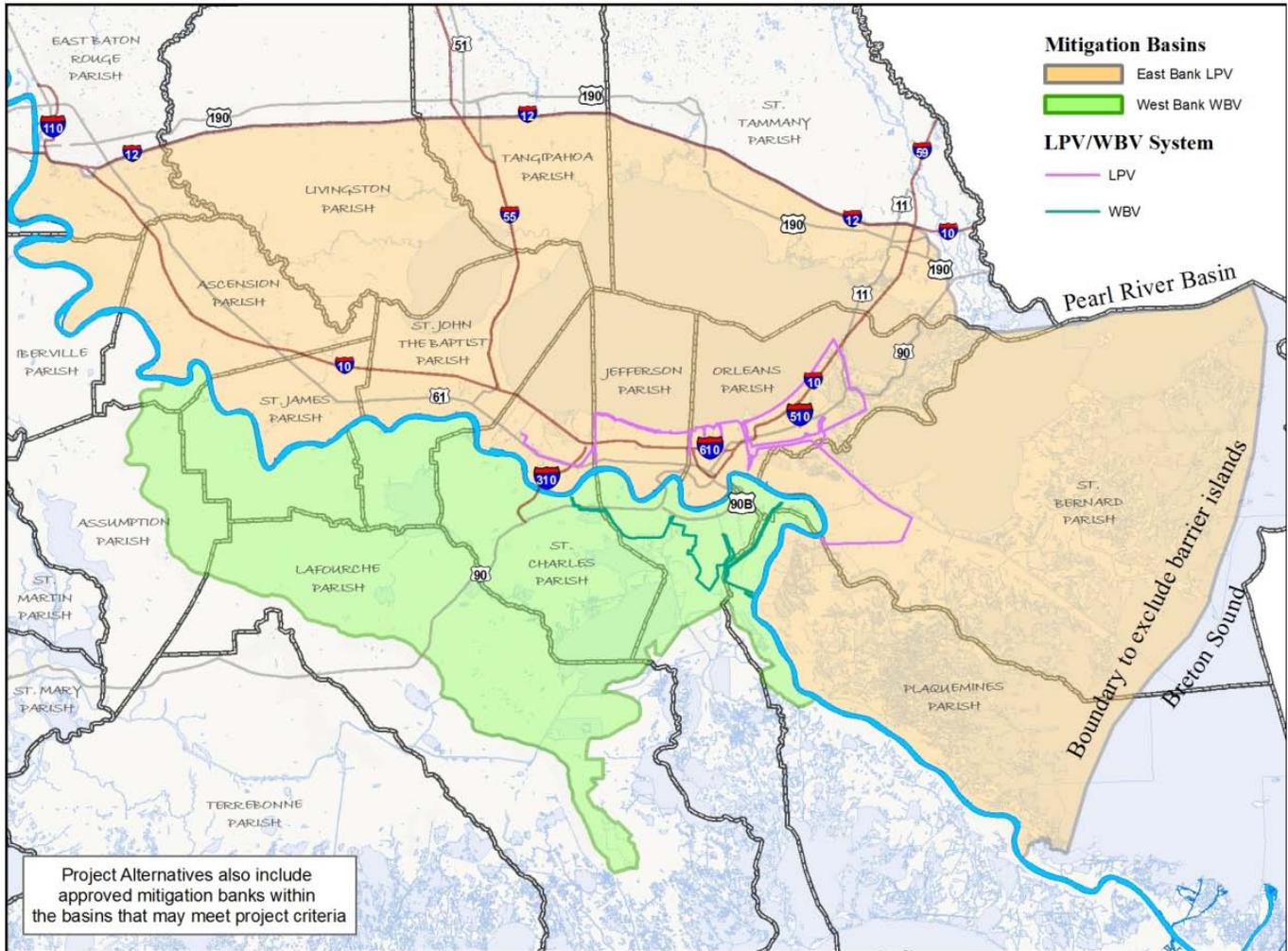
FACT SHEET: LPV HSDRRS Mitigation

Updated: 09 AUGUST 2012

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Lake Pontchartrain & Vicinity and West Bank & Vicinity Project Map



U.S. ARMY CORPS OF ENGINEERS – NEW ORLEANS DISTRICT

7400 LEAKE AVE, NEW ORLEANS, LA 70118

WWW.MVN.USACE.ARMY.MIL

www.facebook.com/usacenola

twitter.com/teamneworleans

www.flickr.com/teamneworleans

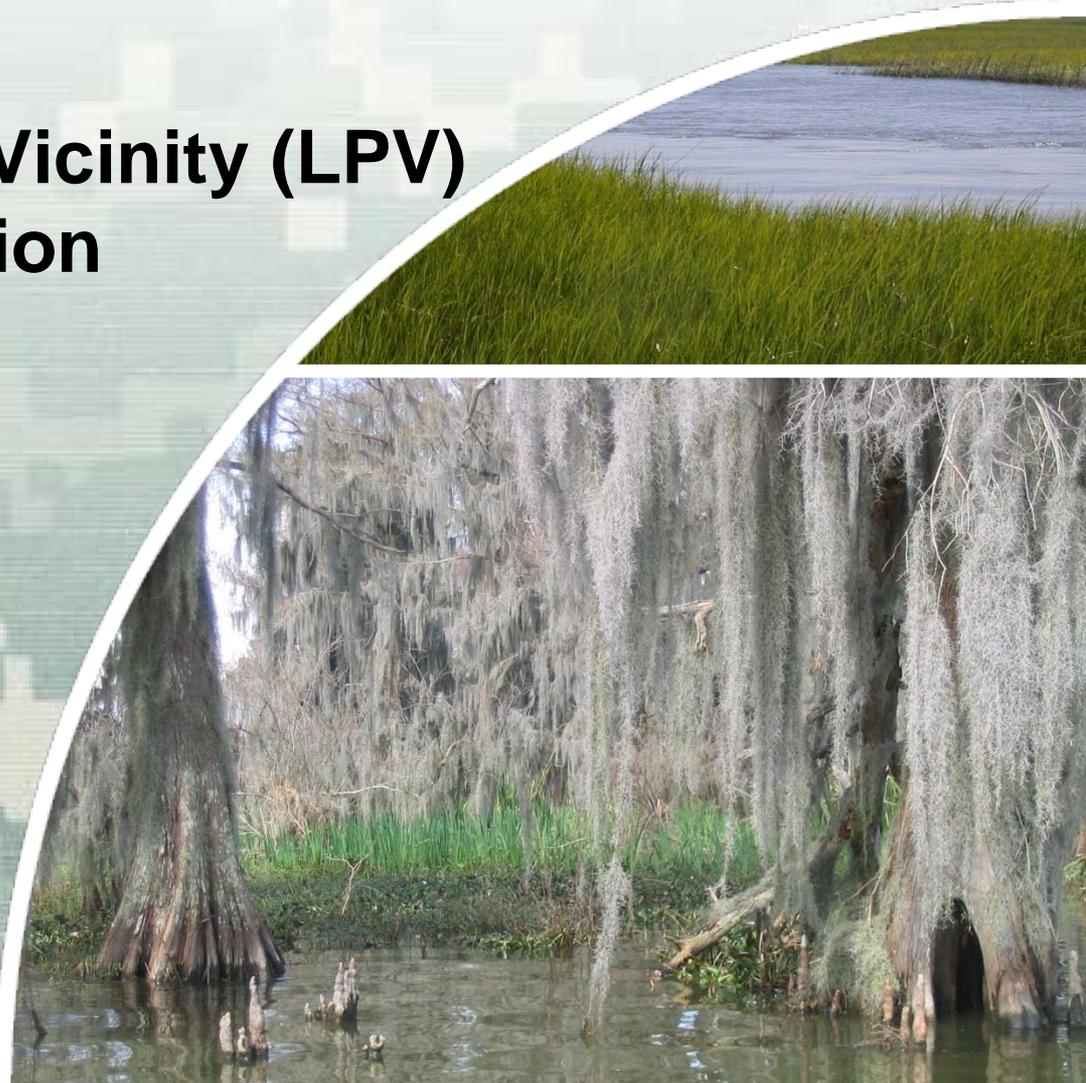
Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS)

Lake Pontchartrain & Vicinity (LPV) Environmental Mitigation

Church at New Orleans
March 15, 2012



US Army Corps of Engineers
BUILDING STRONG®

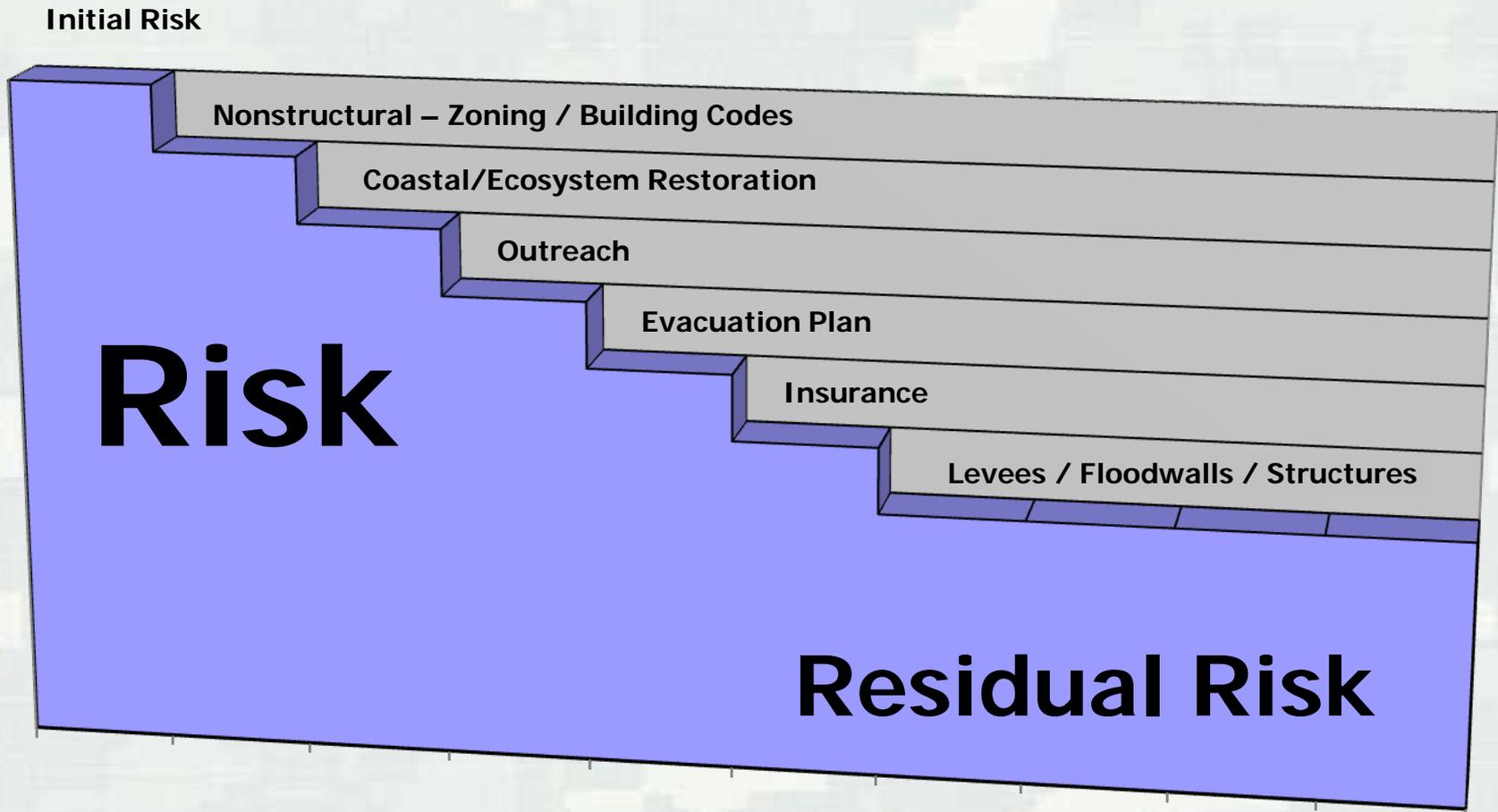


Meeting Agenda

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



Risk – Shared Responsibility

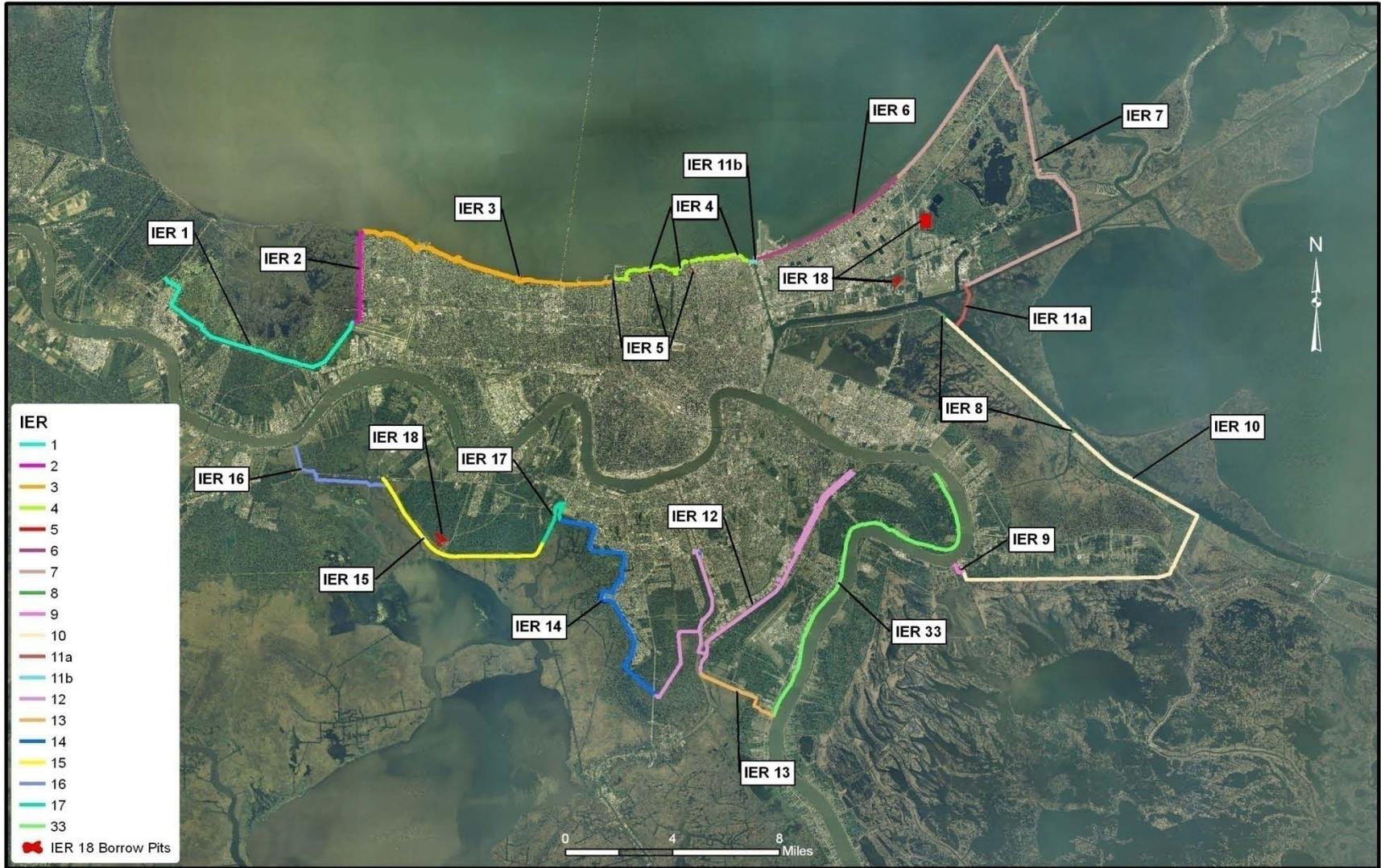


National Environmental Policy Act (NEPA)

- 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 Affected Habitats



Bottomland Hardwoods Wet



Bottomland Hardwoods Dry



Swamp



Intermediate Marsh



Brackish Marsh



Total Impacts

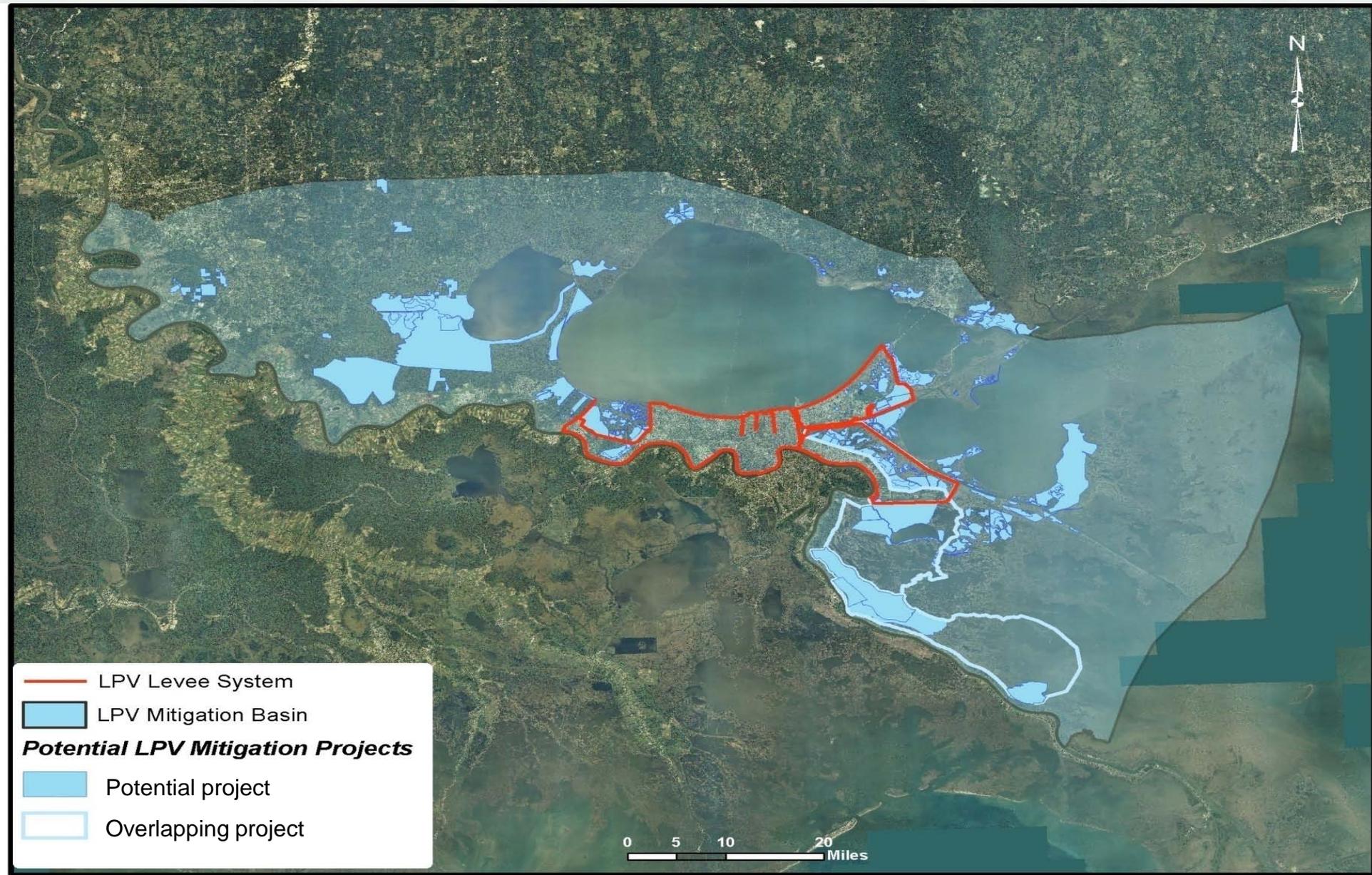
Lake Pontchartrain & Vicinity Projects – Current Working Estimate

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

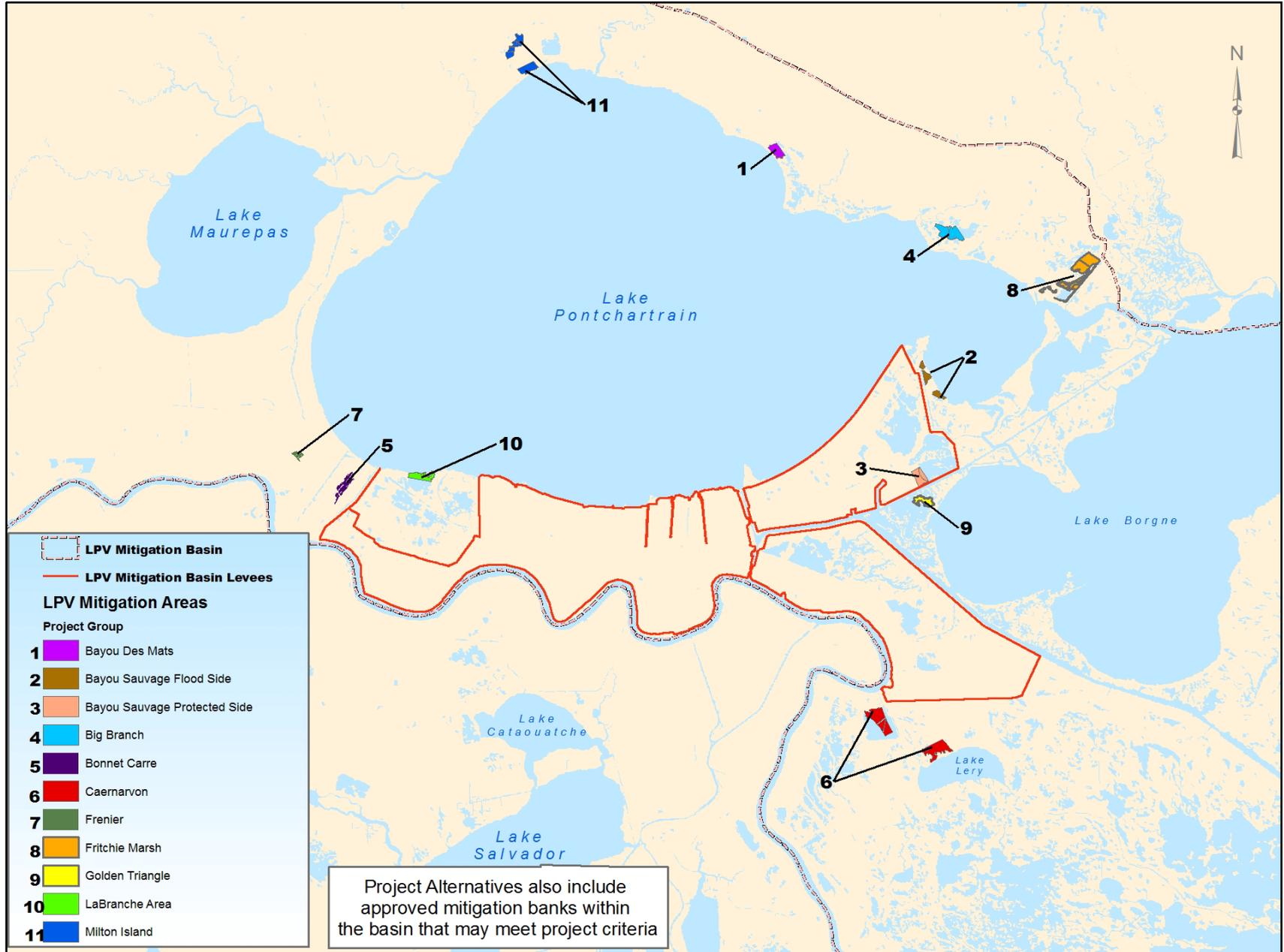


Initial Screening Criteria Summary

- 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

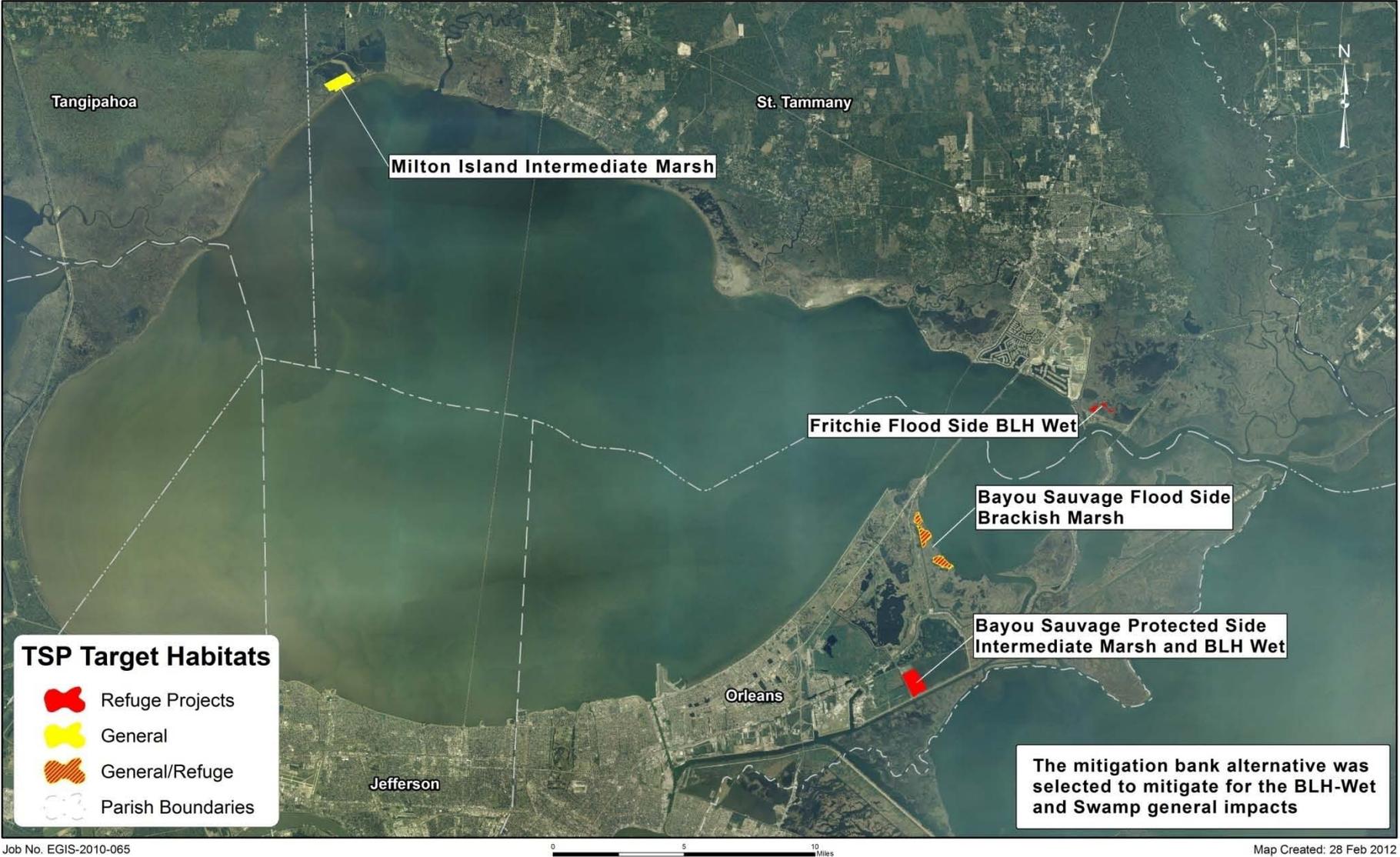


Mitigation Plan Selection Criteria

- **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)





**US Army Corps
of Engineers®**
Team New Orleans

JOIN OUR SOCIAL NETWORK



[Facebook.com/usacenola](https://www.facebook.com/usacenola)



[Flickr.com/TeamNewOrleans](https://www.flickr.com/photos/teamneworleans/)



[Twitter.com/TeamNewOrleans](https://www.twitter.com/TeamNewOrleans)



[YouTube.com/TeamNewOrleans](https://www.youtube.com/channel/UC...)



Resources

www.nolaenvironmental.gov

www.mvn.usace.army.mil

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 404 Public Notice Comment Period 4/24 - 5/23
- Orleans Parish Pump Station Stormproofing EA #474 Drafts Public Comment Period 4/17 - 5/23
- Jefferson Parish Pump Station Stormproofing EA #475 Drafts Public Comment Period 4/14 - 5/20
- Draft IER 10 Public Comment Period 4/13 - 5/12

Upcoming

- 05/11/2009 - Public Meeting (IER 8, 9, 10 and borrow)
- 05/17/2009 - Draft IER 10 Public Comment Period Ends

Newly Available

NEW NOLA Environmental Basic Data Viewer

- News Release 06 May 09 Draft IER 5
- IER 5 - Phase 2 Final Report: Operating Scenario Analysis

FEATURED PROJECT

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

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 them bigger, stronger, better. The U.S. Army Corps of Engineers is continuing to work expeditiously to complete the Hurricane and Storm Damage Risk Reduction System (HSDRRS) by 2015. To this end, the Corps is using valuable lessons learned to construct more resilient levees and floodwalls.

[See the plan!](#)

PUBLIC INFORMATION

- Hurricane & Flood Risk Reduction: Learn more about the Corps data.[data.usace.army.mil](#)
- Emergency Information: For site releases, health information and more.
- NOLA Environmental: Did you miss a meeting? No problem! Find presentations, summaries and more.

TOP HEADLINES

- Document confirms status on Westgate II
- Corps releases environmental document to public review
- Corps to provide update on Westgate risk reduction project
- Corps seeks public input on Westgate and...

ASK THE CORPS

The Corps wants to hear from you! Do you have information on the closing of Industrial Locks on August 4, 2009 for 60 days? A: Yes, for information regarding the August set closing of the Lower Harbor Navigation Canal Lock, please email ask@usace.usace.army.mil. Submit questions or comments to ask@usace.usace.army.mil.

FEATURED VIDEOS

- West Closure Complex: Learn more about the alternative under consideration to reduce risk on the Westbank. [Watch it.](#)
- Deverses & Storm Damage Risk Reduction System: From levees to pumping stations, find out more about system features.

NEW 2008 | DISCLAIMER | PUBLIC INQUIRY | ENERGY AND SECURITY | FOIA | INFORMATION QUALITY ACT | ACCESSIBILITY



Break-Out / Feedback Session





FACT SHEET: LPV HSDRRS Mitigation

Updated: June 2013

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Project purpose

The Corps is making a concerted effort to avoid and minimize environmental impacts to the maximum extent practical while developing the Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS). When habitat losses occur, the Corps will offset such losses through compensatory environmental mitigation. Compensatory environmental mitigation is an important part of HSDRRS construction and could include habitat restoration or enhancement.

Project location

Generally, impacts generated from the Lake Pontchartrain & Vicinity (LPV) hurricane project will be mitigated in the Lake Pontchartrain Basin, between I-12 and the Mississippi River. **See map on reverse.**

Project features

The HSDRRS mitigation project team has evaluated over 400 potential mitigation features in cooperation with the environmental resource agencies and the non-federal sponsor and has identified a tentatively selected plan. Currently, the plan will compensate for four habitat categories impacted during development of the risk reduction system: wet and dry bottomland hardwood forests, swamps and marshlands.

*Current estimated habitat impacts from constructing LPV HSDRRS projects

Habitat Type	Quantity (Acres)	Quality (AAHUs^{**})
<i>Bottomland Hardwood Wet</i>	261	125
<i>Bottomland Hardwood Dry</i>	284	62
<i>Swamp</i>	197	108
<i>Fresh / Intermediate Marsh</i>	186	87
<i>Brackish Marsh</i>	251	127
Total	1,179	509

*To compensate for these impacts, the mitigation acreage may be larger than the impact acreage. Impacts last updated in June 2012.

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

Project status

The Corps' ongoing mitigation efforts include periodic Individual Environmental Report (IER) status meetings. There have been five meetings thus far, three in May 2010, one in December 2010, and one in March 2012. The New Orleans District is currently working to complete the NEPA compliance on the mitigation plan.

Upcoming major milestones include: Release Programmatic IER for Public Review (July 2013).

For more information, please visit nolaenvironmental.gov.

U.S. ARMY CORPS OF ENGINEERS – NEW ORLEANS DISTRICT

7400 LEAKE AVE, NEW ORLEANS, LA 70118

WWW.MVN.USACE.ARMY.MIL

www.facebook.com/usacenola

twitter.com/teamneworleans

www.flickr.com/teamneworleans



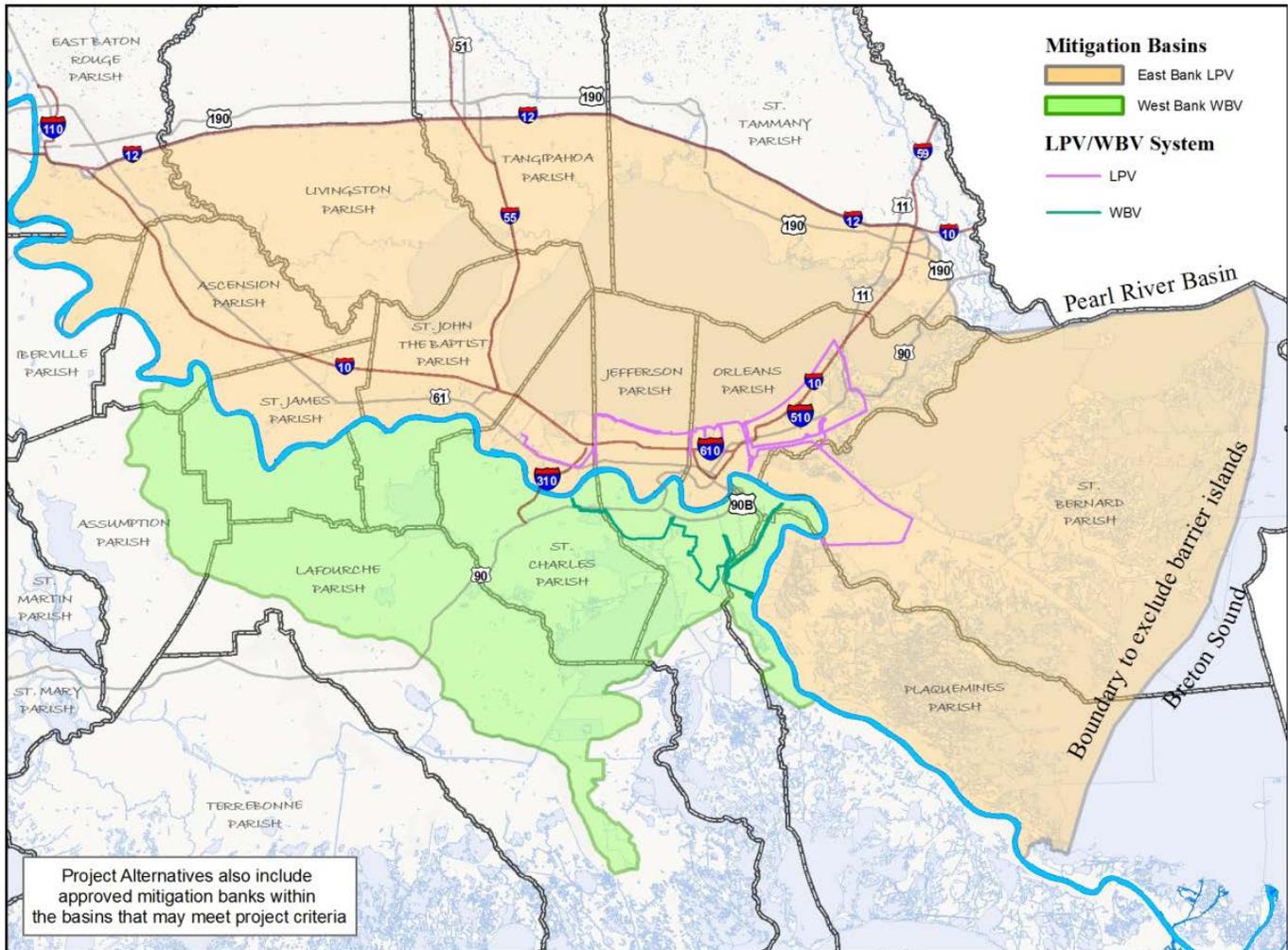
FACT SHEET: LPV HSDRRS Mitigation

Updated: June 2013

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Lake Pontchartrain & Vicinity and West Bank & Vicinity Project Map



U.S. ARMY CORPS OF ENGINEERS – NEW ORLEANS DISTRICT

7400 LEAKE AVE, NEW ORLEANS, LA 70118

WWW.MVN.USACE.ARMY.MIL

www.facebook.com/usacenola

twitter.com/teamneworleans

www.flickr.com/teamneworleans



U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Bayou Sauvage Refuge Protected Side Intermediate Marsh and Bottomland Hardwood (Wet)



Project Location

This proposed project is located within an impounded, open water area on the Bayou Sauvage National Wildlife Refuge in Orleans Parish, Louisiana. It is immediately north of the Gulf Intracoastal Waterway and is approximately 2.75 miles east of Michoud Slip. It is adjacent to an existing outfall canal near Industrial Parkway Road in New Orleans East.

Project Features

This alternative consists of 155 acres of bottomland hardwood (wet) restoration that would be accomplished by placing fill material to elevation conducive to the successful establishment of planted native hardwood species. The 142 acres of intermediate marsh restoration would be achieved by placing dredged material in open water adjacent to the bottomland hardwood site to an elevation conducive for wetland development, followed by planting of wetland vegetation.

Borrow Plan

All dredge material will be obtained from a borrow site within Lake Borgne that was recently cleared under the Mississippi River Gulf Outlet 3rd and 4th Supplemental Environmental Impact Statement and Record of Decision. It is located within the north lobe of Lake Borgne and northeast of the mouth of Bayou Bienvenue.

For more information, please visit www.nolaenvironmental.gov.