

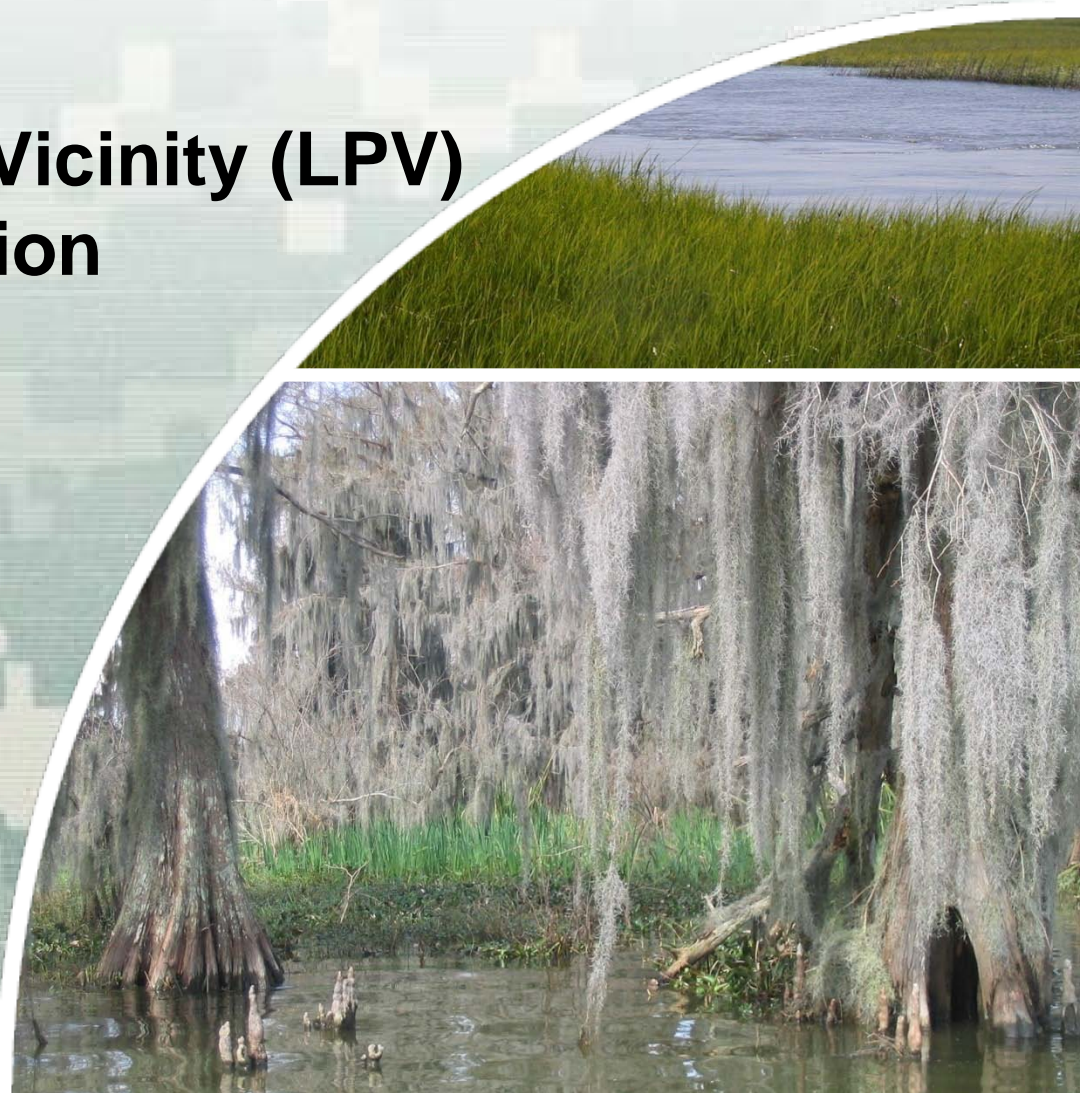
# Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS)

## Lake Pontchartrain & Vicinity (LPV) Environmental Mitigation

Church at New Orleans  
March 15, 2012



US Army Corps of Engineers  
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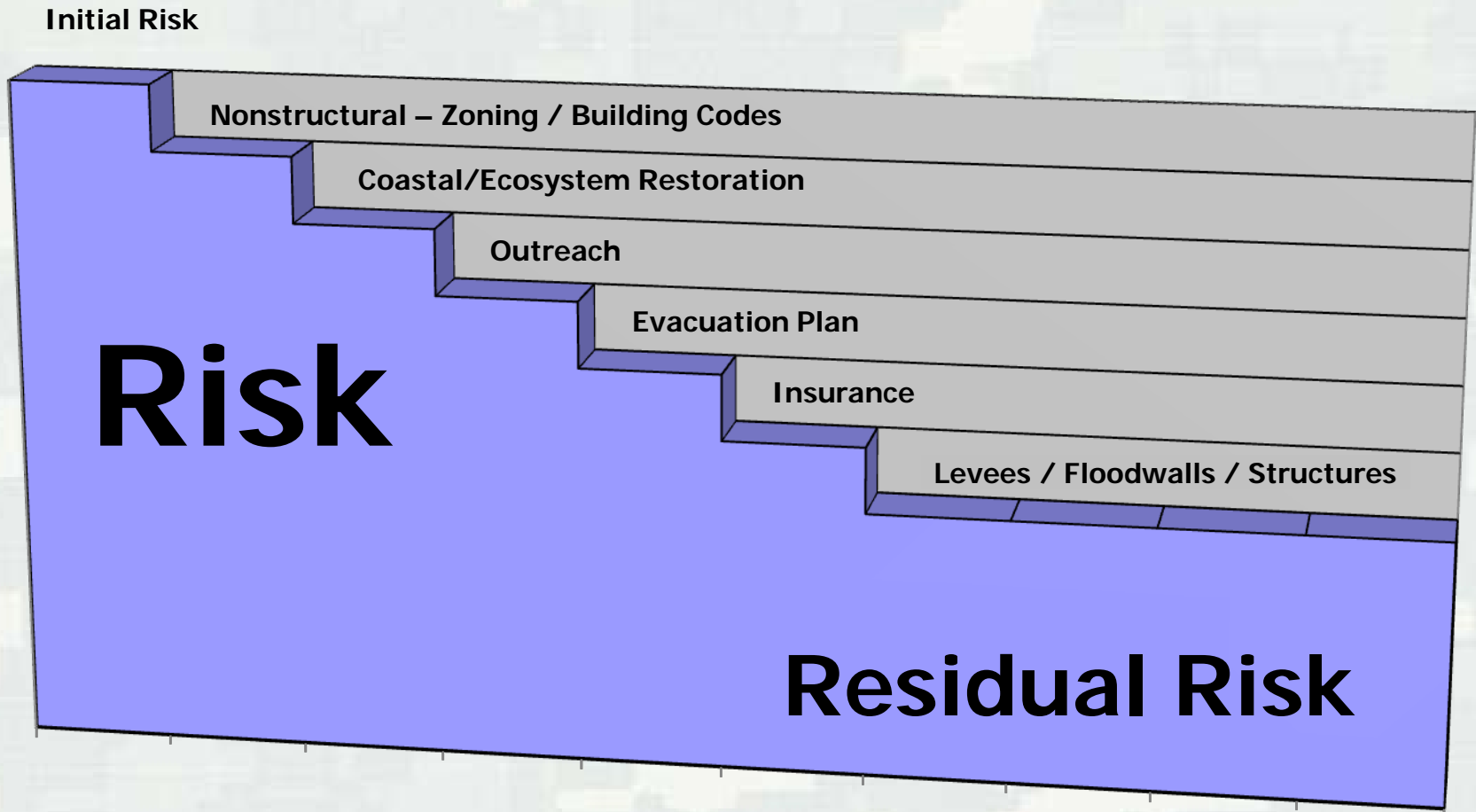


# Meeting Agenda

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



# Risk – Shared Responsibility

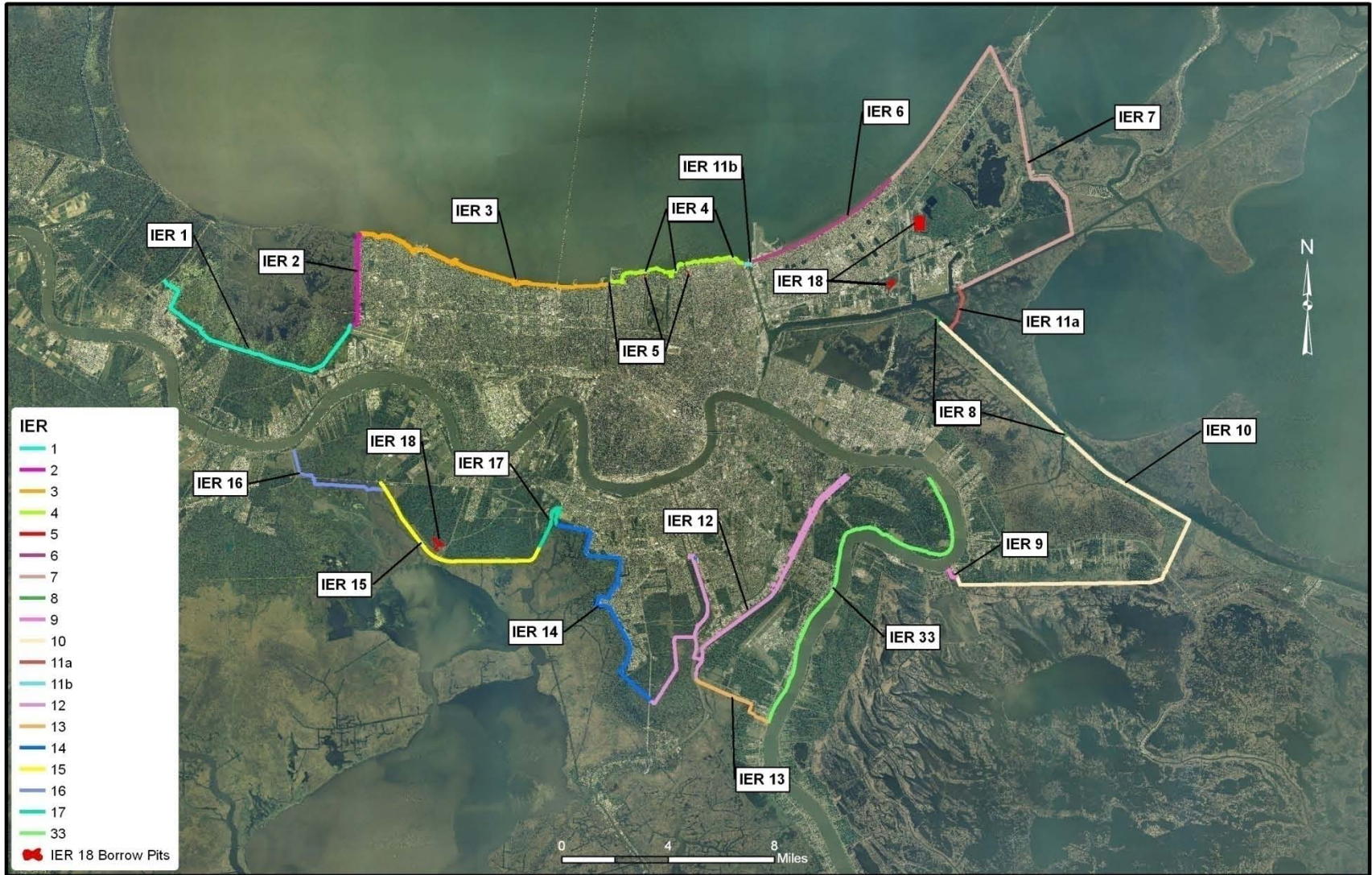


# National Environmental Policy Act (NEPA)

- 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 Mitigation Policies

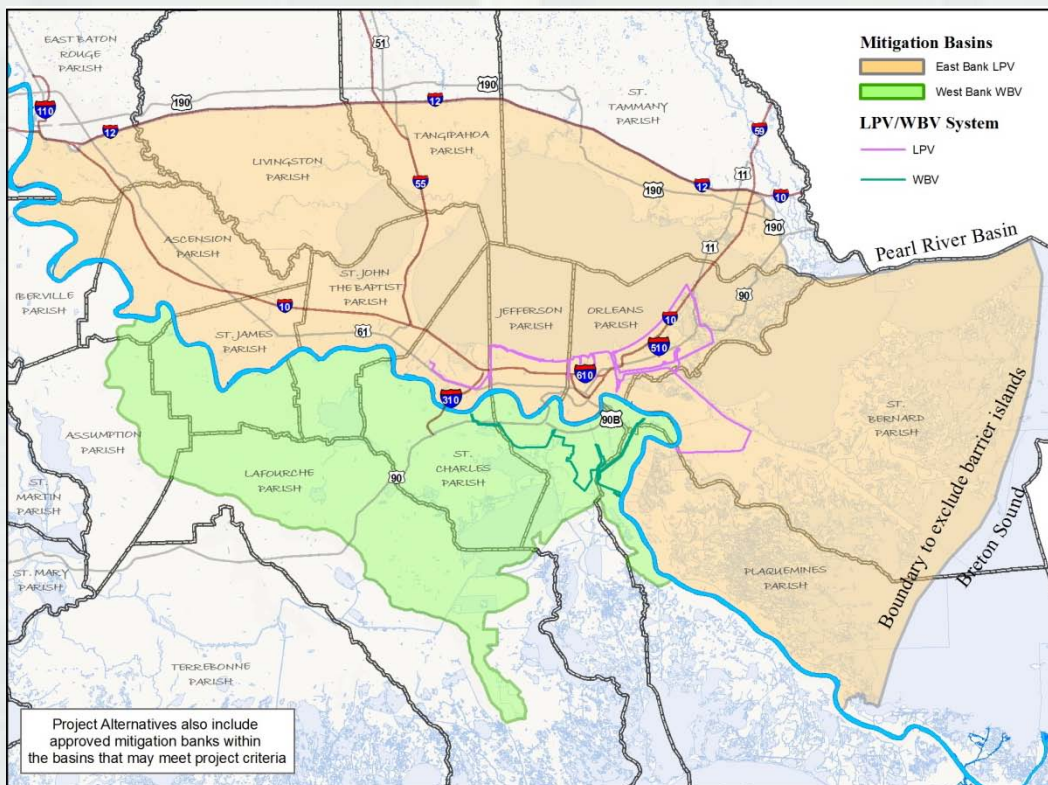
In accordance with Section 2036 of WRDA 2007, mitigation would occur:

- 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

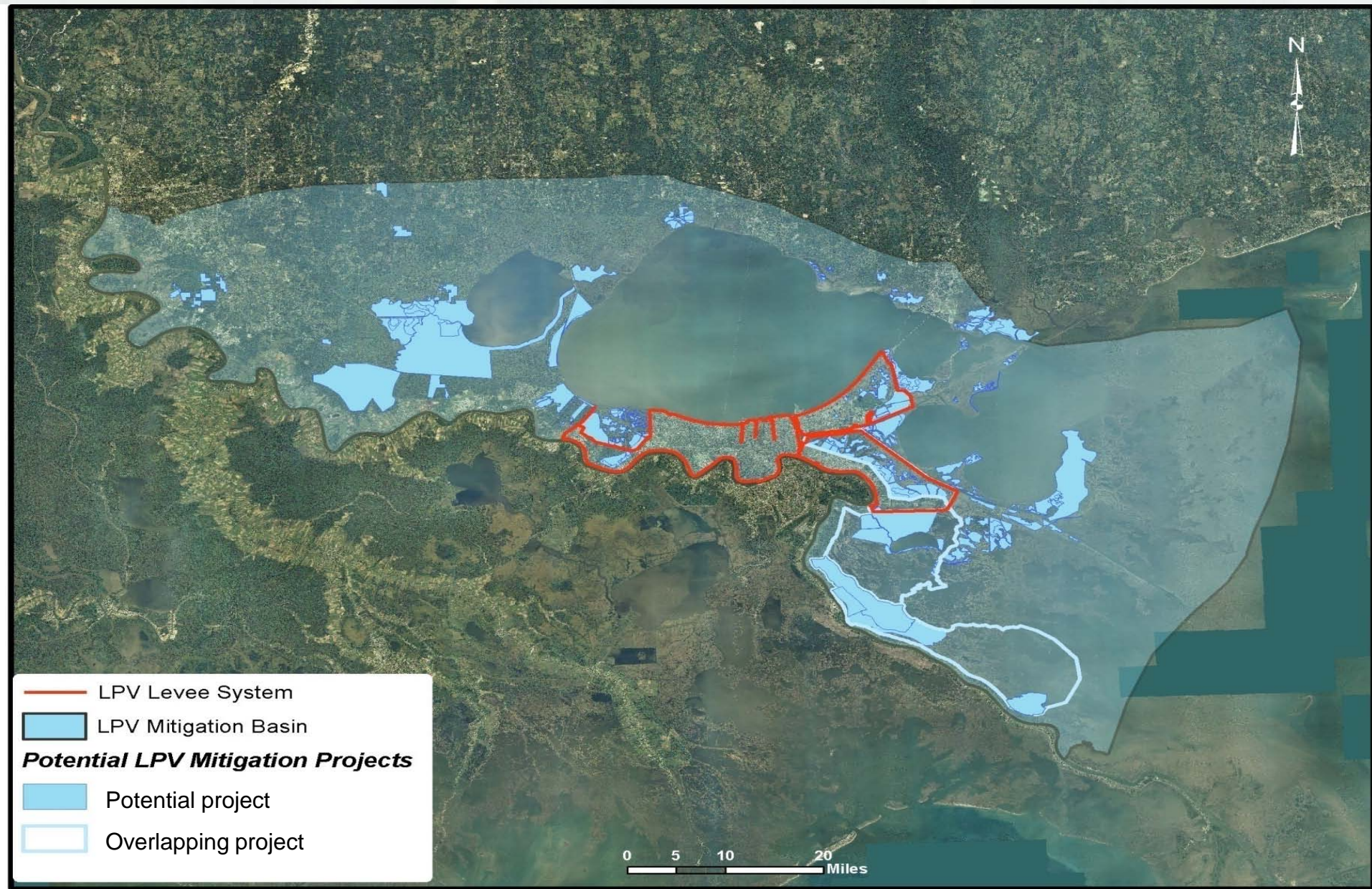
## Lake Pontchartrain & Vicinity Projects – Current Working Estimate

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
<b>Total</b>	<b>1,089</b>	<b>487</b>

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



# Lake Pontchartrain & Vicinity Projects Considered

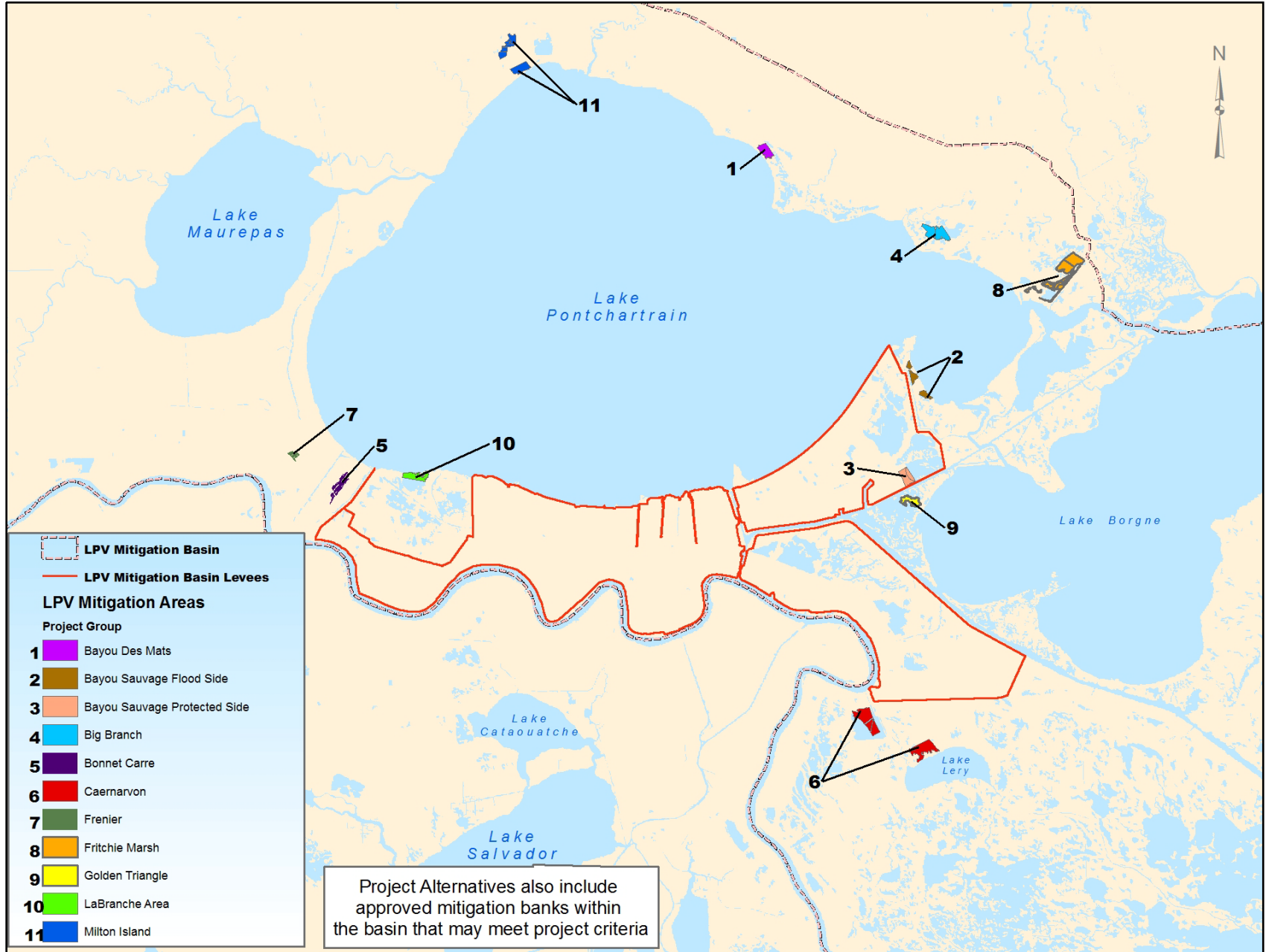


# Initial Screening Criteria Summary

- 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

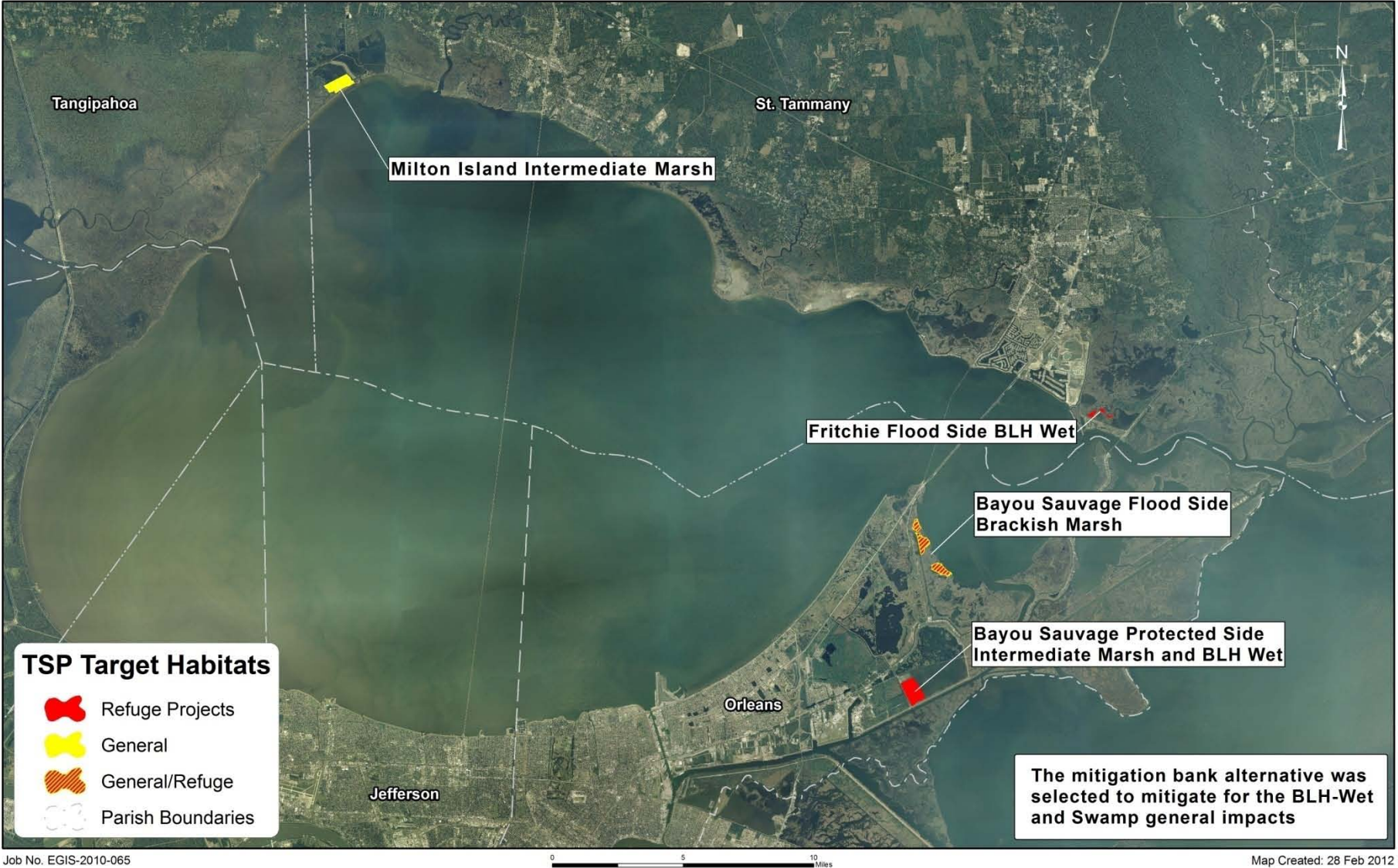


# Mitigation Plan Selection Criteria

- **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](http://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

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



# Resources

[www.nolaenvironmental.gov](http://www.nolaenvironmental.gov)

[www.mvn.usace.army.mil](http://www.mvn.usace.army.mil)

**NOLA Environmental**  
NEW ORLEANS, LOUISIANA  
Environmental Compliance Data Bank  
[www.nolaenvironmental.gov](http://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

### PUBLIC INFORMATION

**Hurricane & Flood Risk Reduction**  
Learn more about the Corps data.  
[data.usace.army.mil](#)

**Emergency Information**  
[Road Closures](#), [Flood Damages](#), [Health Information](#) and [More](#)

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

### TOP HEADLINES

**Document confirms status on Wetlands?**  
[Wetlands](#)

**Corps releases environmental document to public review**  
[EPA to provide update on Wetlands risk reduction project](#)

**Corps seeks public input on Bayou Bienvenue**  
[Bayou Bienvenue](#)

### ASK THE CORPS

The Corps wants to hear from you!  
If you have information on the closing of Industrial Locks on August 1, 2008 for 60 days?  
A. Yes, for information regarding the August set closing of the Deep Harbor Navigation Canal Lock, [please email here](#).

Submit questions or comments to [askusace@usace.army.mil](mailto:askusace@usace.army.mil)

### FEATURED VIDEOS

**Went Closure Complex**  
Learn more about the alternative under consideration to reduce risk on the Wetlands. [Watch it!](#)

**Deverses & Storm Damage Risk Reduction System**  
From needs to planning, national, and [EPA](#) more about system features.

NEW 2008 | [DISCLAIMER](#) | [PUBLIC INQUIRY](#) | [EMERGENCY AND SECURITY](#) | [FOIA](#) | [INFORMATION QUALITY ACT](#) | [ACCESSIBILITY](#)



# Break-Out / Feedback Session

