

Greater New Orleans Hurricane & Storm Damage Risk Reduction System

Mitigation Listening Session

Aug. 31, 2009

US Army Corps of Engineers

7400 Leake Avenue



US Army Corps of Engineers
BUILDING STRONG[®]



Meeting Purpose

Provide community members the opportunity to suggest specific ways the Corps may consider mitigating impacts construction of the Greater New Orleans Hurricane and Storm Damage Risk Reduction System may cause to the area's wetlands systems.

Mitigation Purpose

Federal laws such as, the National Environmental Policy Act of 1969 requires wetland impacts to be avoided if possible and, if impacts are unavoidable, impacts are to be minimized and mitigated.

Current estimate is construction of the hurricane system will impact about 4,000 acres of wetlands in the metro area.



Agenda

- **Welcome & Introductions**
- **USACE Overview of Impacts**
- **Questions of Clarity**
- **Community Presentations**
 - **10 min maximum**

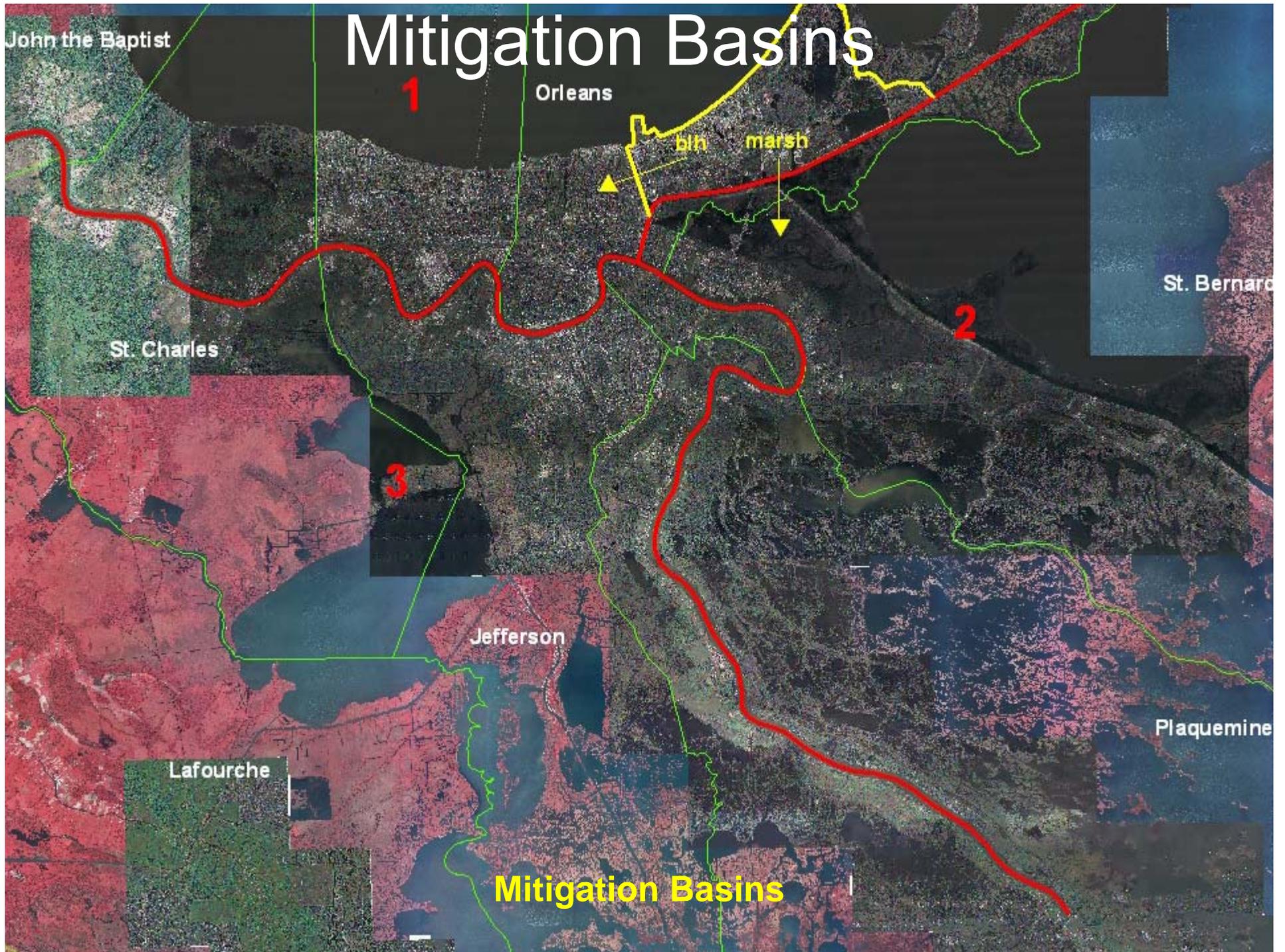


Total Impacts from HSDRRS work and original WBV construction

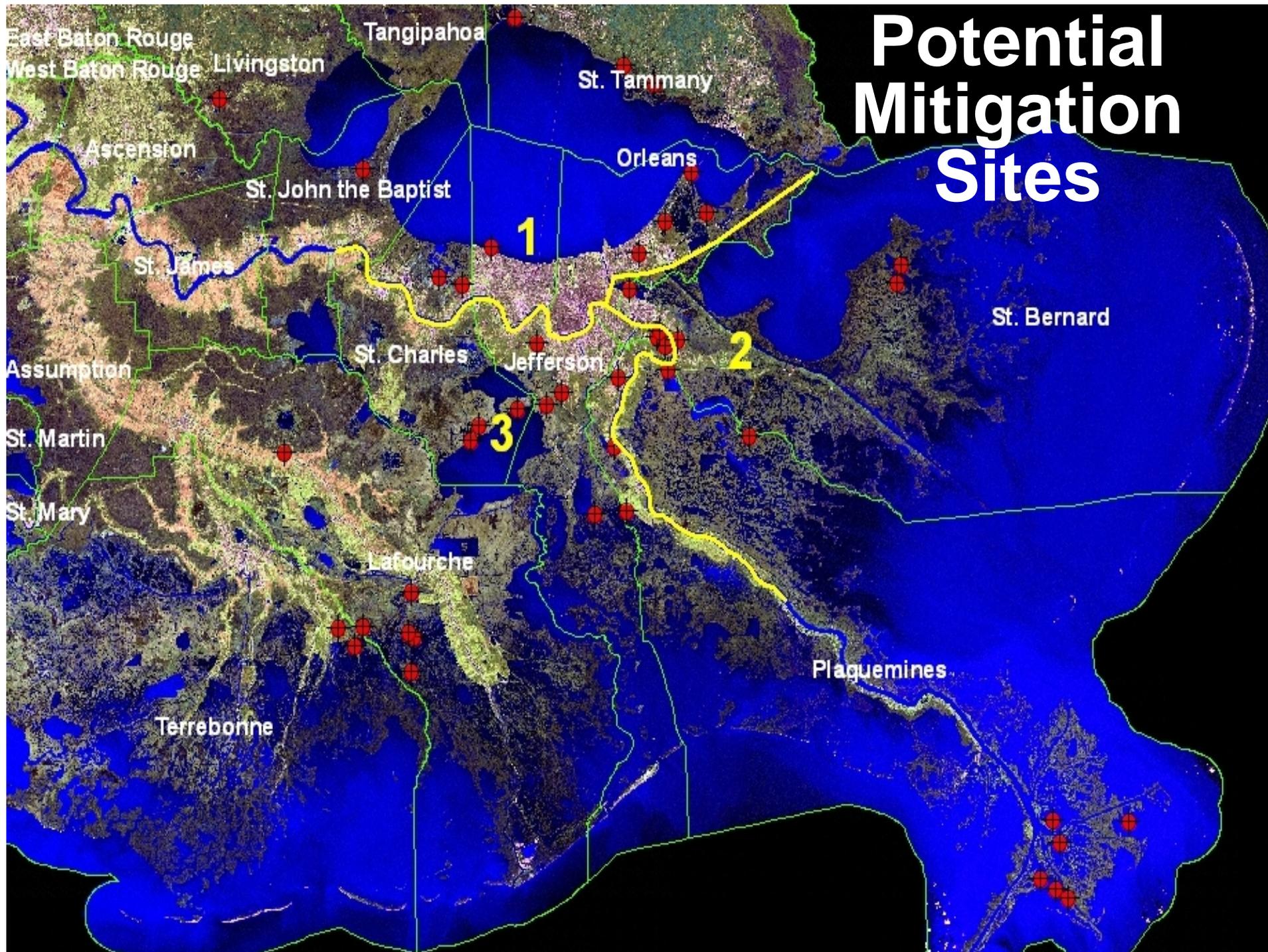
Habitat Type	Acres	Average Annual Habitat Units
Bottomlands Hardwoods non-wet	1317	410.6
Marsh	853.7	435.3
Swamp	276.4	170.1
Bottomlands Hardwood wet	2206	1176



Mitigation Basins



Potential Mitigation Sites



Community Presentations



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 - 5/4
- Draft IER 13 Comment Period extended to 5/18
- Draft IER 5 Public Comment Period 5/4 - 4/3
- 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

More...

Upcoming

- 05/11/2009 - Public Meeting IER 8, 9, 10 and borrow)
- 05/12/2009 - Draft IER 10 Public Comment Period Ends

More...

Newly Available

NEW NOLA Environmental Basic Data Viewer

- News Release 04 May 09 Draft IER 5
- IER 5 - Phase 2 Final Report: Operating Scenario Analysis

More...

FEATURED PROJECT

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

<http://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

PUBLIC INFORMATION

Floodwall:

Building Micro-Sigger, stronger, better. The U.S. Army Corps of Engineers is working to work speedily to complete the Hurricane and Storm Damage Risk Reduction System (HSDRS) by 2012. To this end, the Corps is using valuable lessons learned to construct more resilient levees and floodwalls.

See to yourself >>>

TOP HEADLINES

- Document confirms action on Waterway Plans
- CASA MIAMI environmental document for public review
- Sign to speed up date on Waterway risk reduction projects
- CASA Banks Submits Final Report on Risk and Resilience

ASK THE CORPS

The Corps wants to hear from you!

Q. Do you have information on the closing of Industrial Locks on August 1, 2009 for 60 days?

A. Yes, for information regarding the August 1st closing of the lower Harbor Navigation Canal Lock, please email ask@usace.army.mil.

Submit questions or comments to ask@usace.army.mil

FEATURED VIDEOS

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

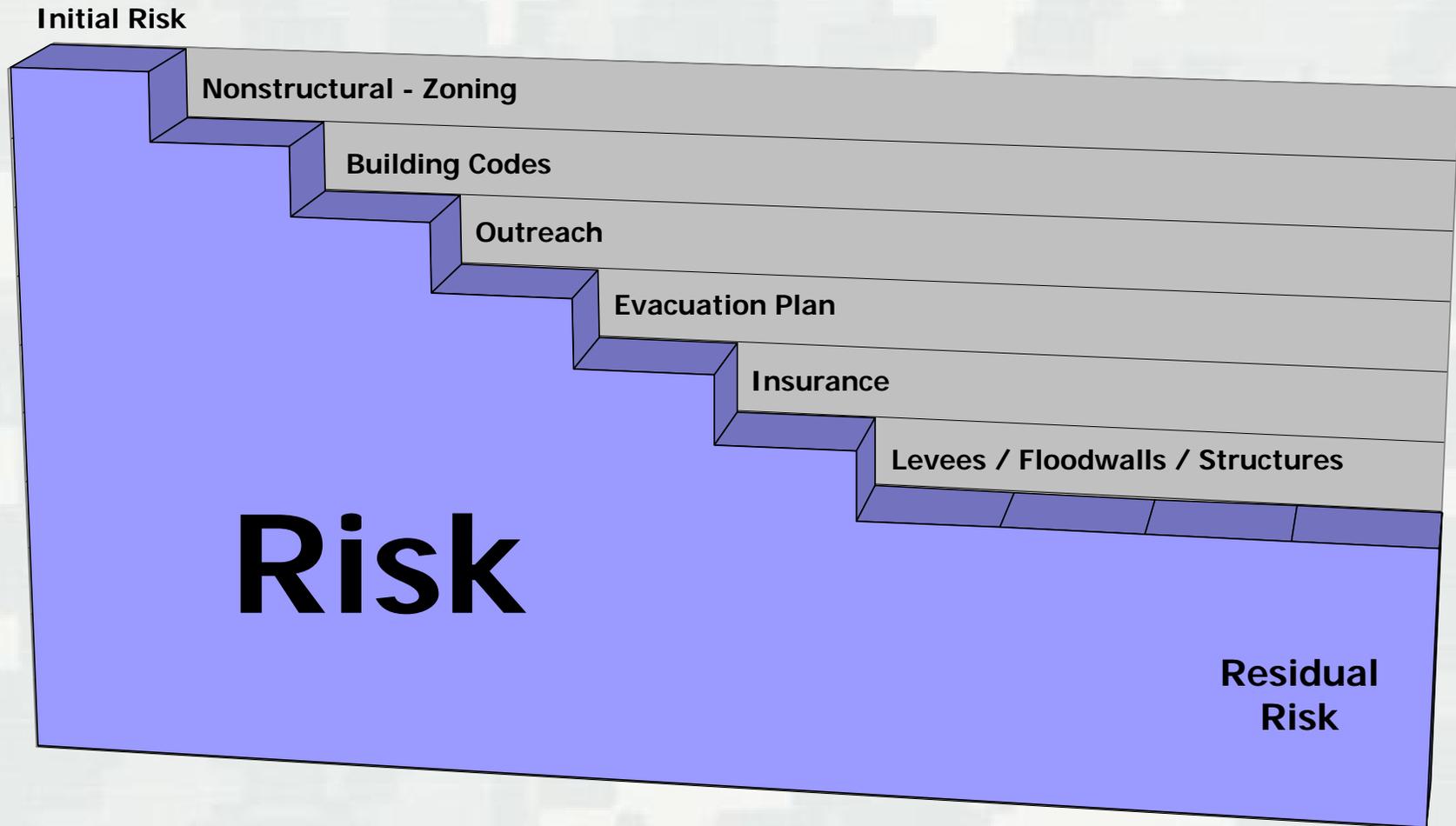
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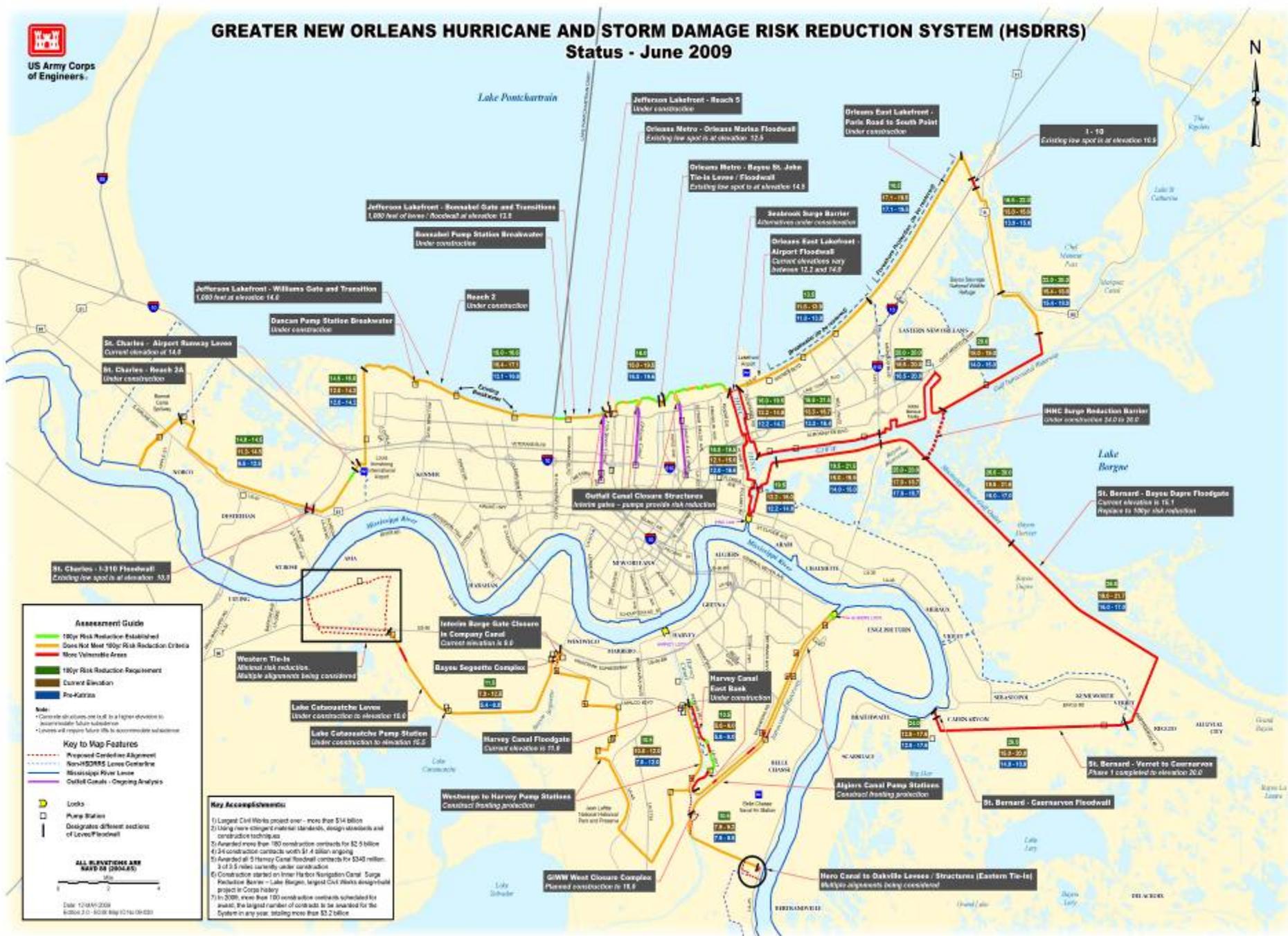
Buying Down Risk





US Army Corps of Engineers

GREATER NEW ORLEANS HURRICANE AND STORM DAMAGE RISK REDUCTION SYSTEM (HSDRRS) Status - June 2009



Assessment Guide

- 180yr Risk Reduction Established
- Does Not Meet 180yr Risk Reduction Criteria
- More Vulnerable Areas
- 180yr Risk Reduction Requirement
- Current Elevation
- Pre-Katrina

Key to Map Features

- Proposed Centerline Alignment
- Non-HSDRRS Levee Centerline
- Mississippi River Levee
- Outfall Canals - Ongoing Analysis
- Locks
- Pump Station
- Designates different sections of Levee/Floodwall

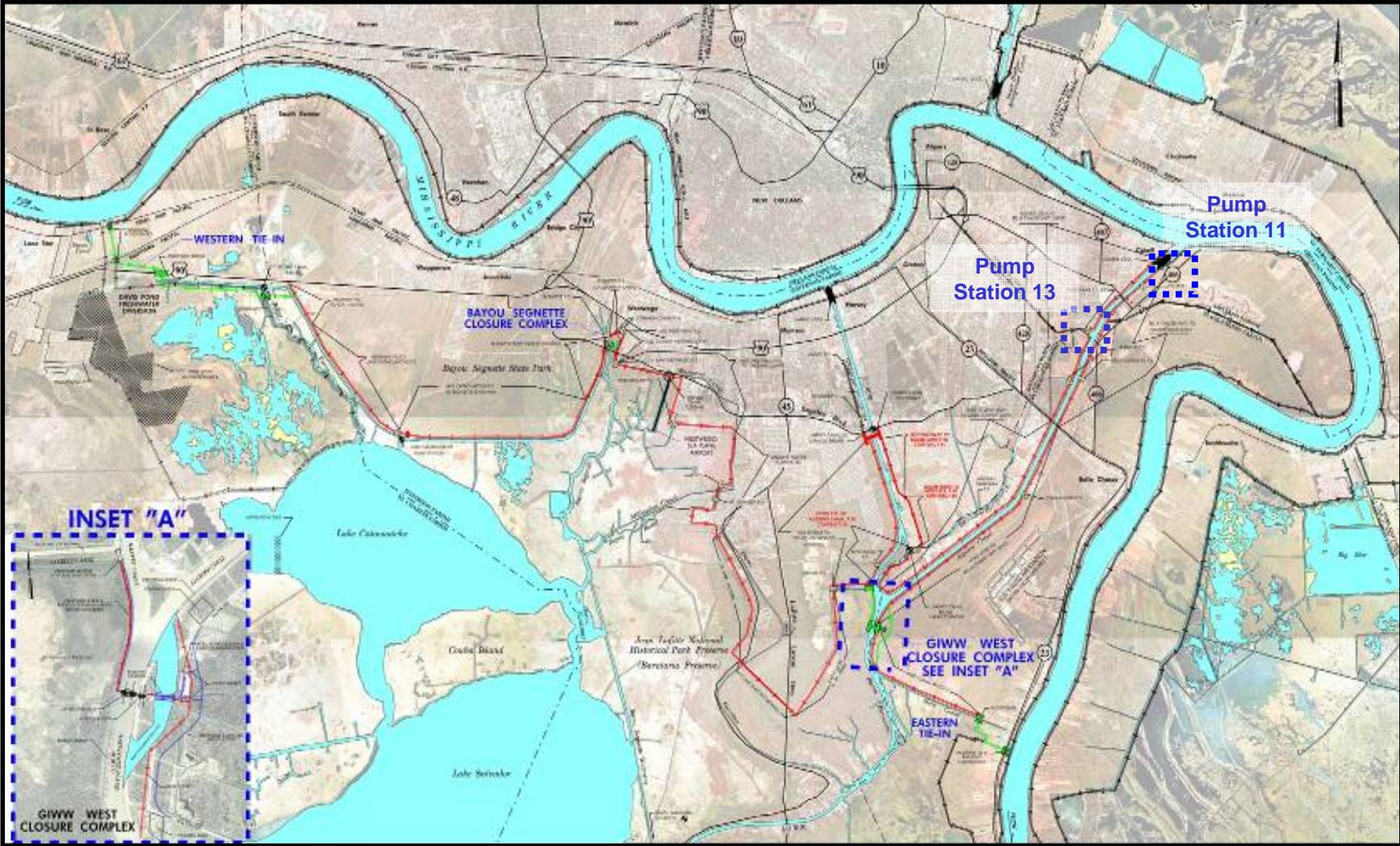
ALL ELEVATIONS ARE NAVD 83 (DMSAS)

Date: 12/04/08
6:20:43.00 - 6:20:48.00 May 12/16/08-020

Key Accomplishments

- 1) Largest Civil Works project ever - more than \$14 billion
- 2) Using more stringent material standards, design standards and construction techniques
- 3) Awarded more than 180 construction contracts for \$2.5 billion
- 4) 24 construction contracts worth \$1.4 billion ongoing
- 5) Awarded all 5 Harvey Canal floodwall contracts for \$342 million
- 6) 3 of 5 miles currently under construction
- 7) Construction started on Lower Harbor Navigation Canal Surge Protective Barrier - Lake Borgne, largest Civil Works design/build project in Corps history
- 8) In 2008, more than 100 construction contracts scheduled for award, the largest number of contracts to be awarded for the System in any year, totaling more than \$3.2 billion

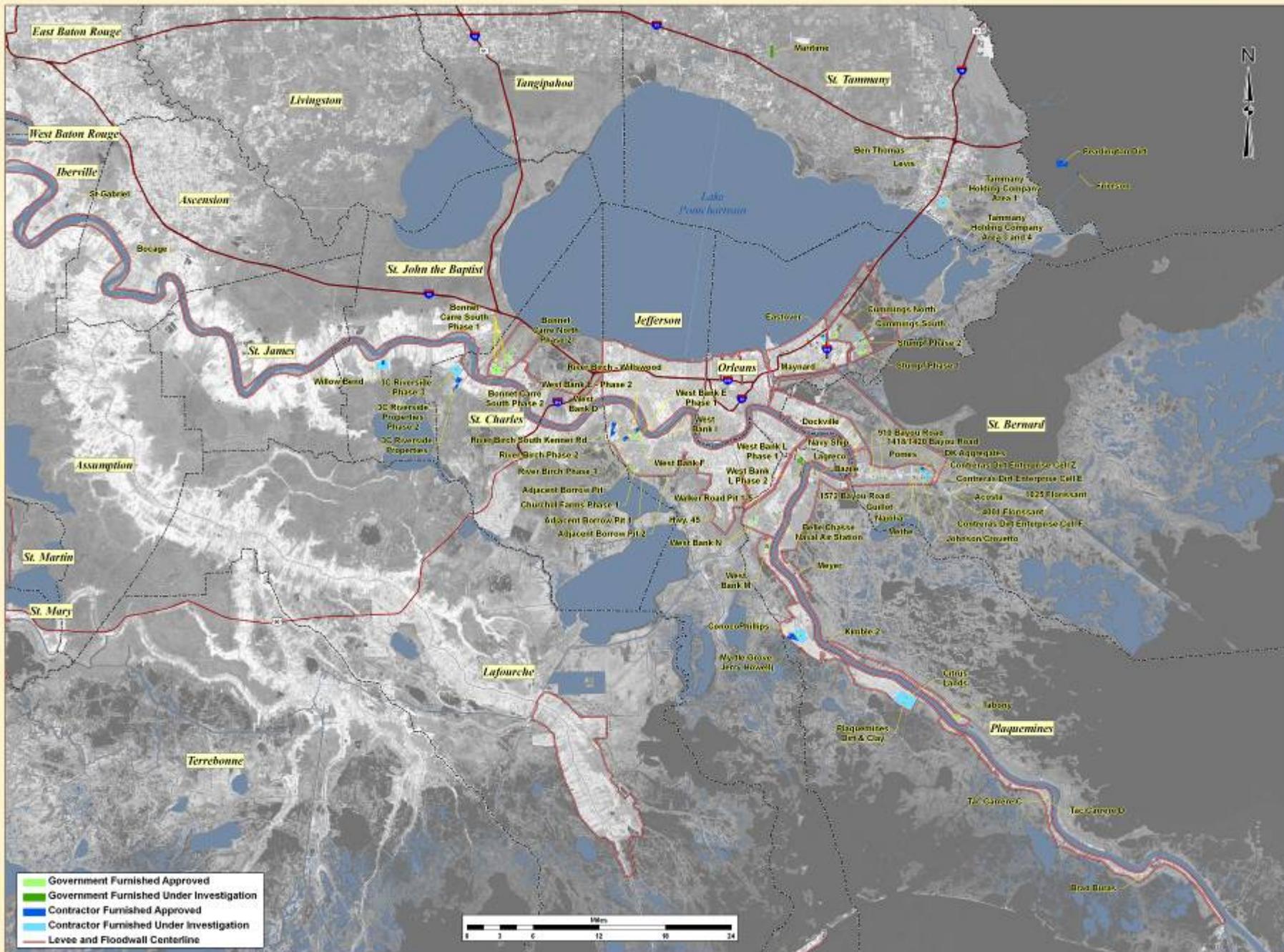
Westbank and Vicinity Risk Reduction



- Current or approved alignments
- Proposed or recommended alignments



Greater New Orleans Hurricane and Storm Damage Risk Reduction System Borrow Areas



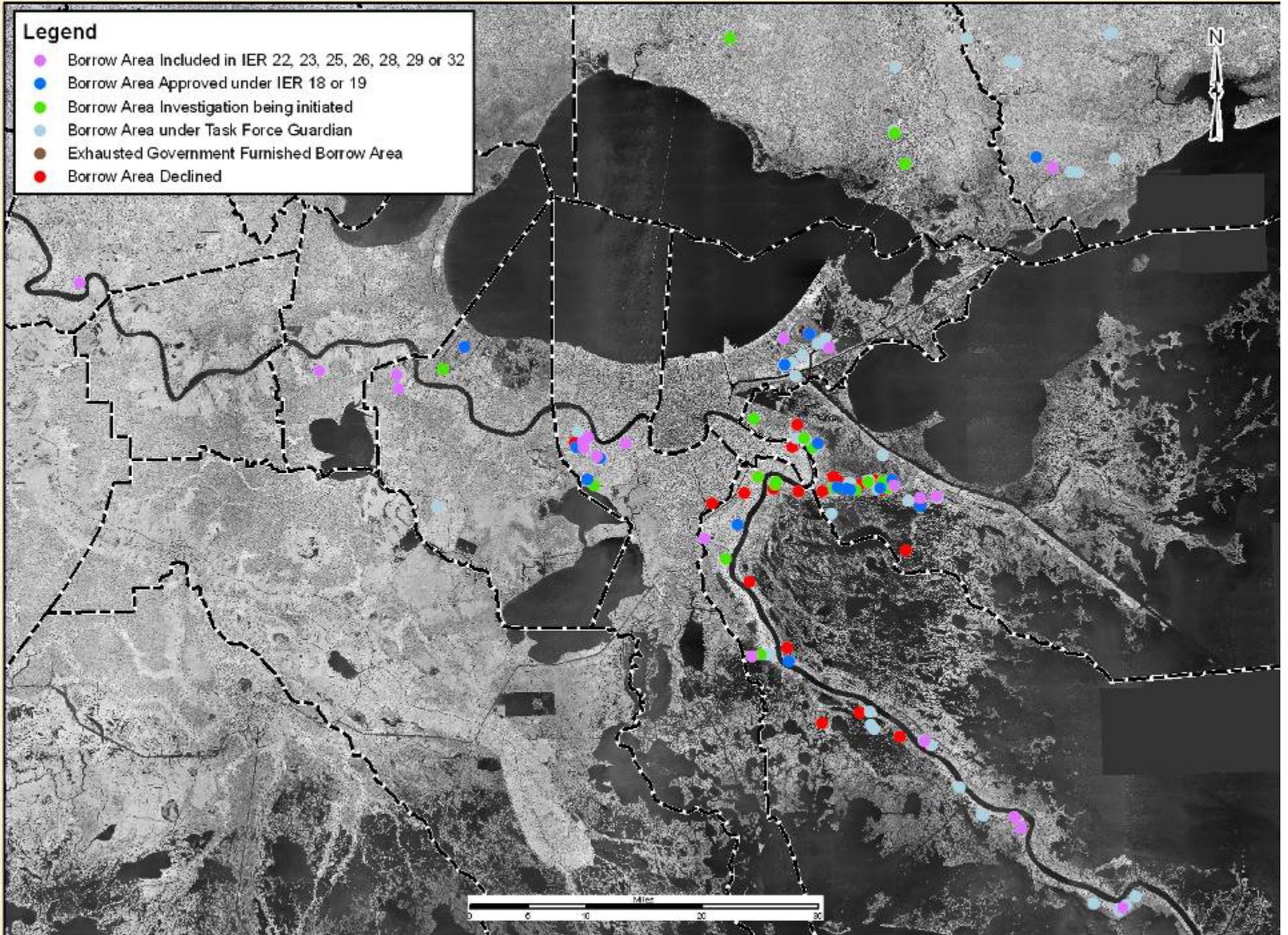
Updated on 7/23/2009

Job No. EGIS-09-037

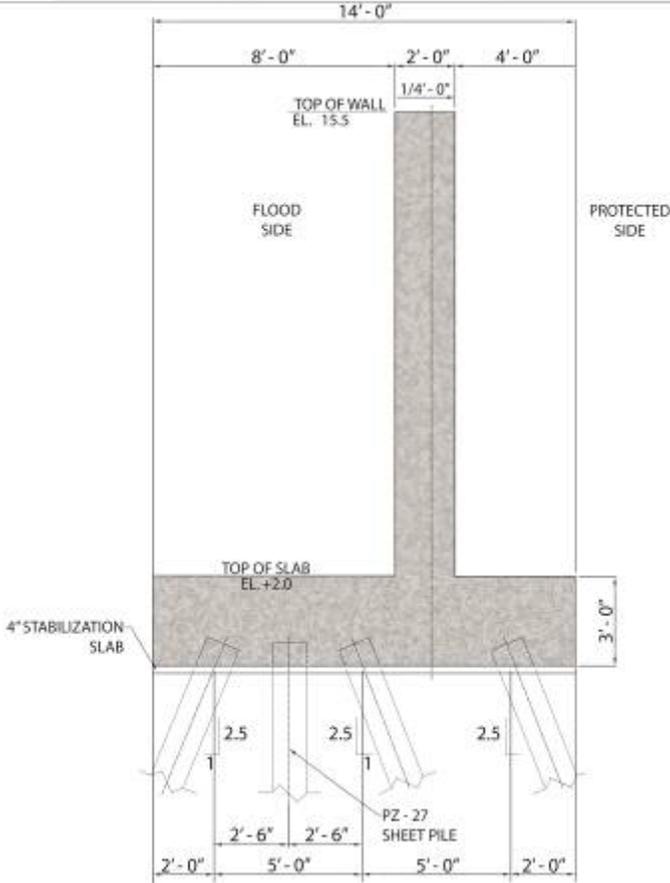
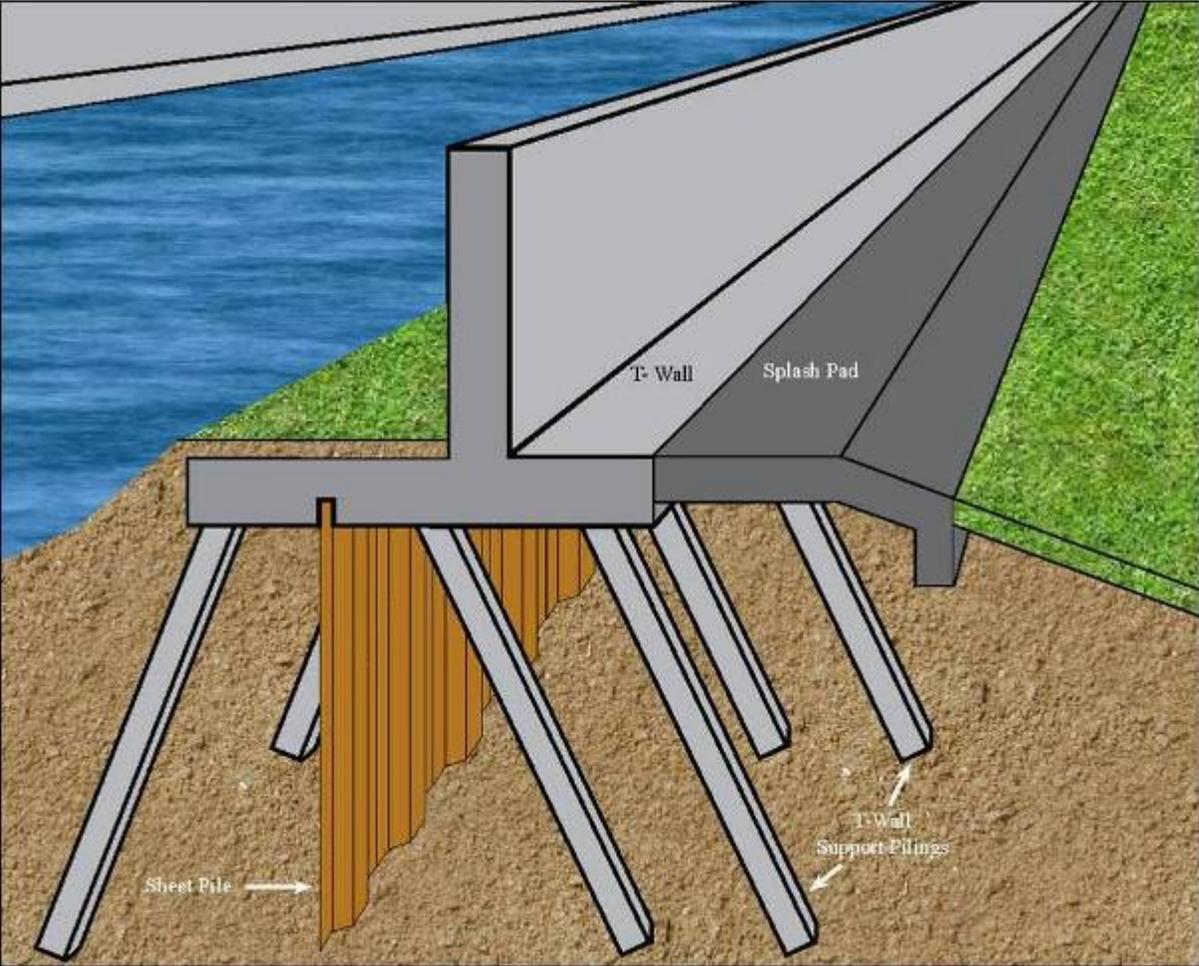
BORROW AREAS

Legend

- Borrow Area Included in IER 22, 23, 25, 26, 28, 29 or 32
- Borrow Area Approved under IER 18 or 19
- Borrow Area Investigation being initiated
- Borrow Area under Task Force Guardian
- Exhausted Government Furnished Borrow Area
- Borrow Area Declined



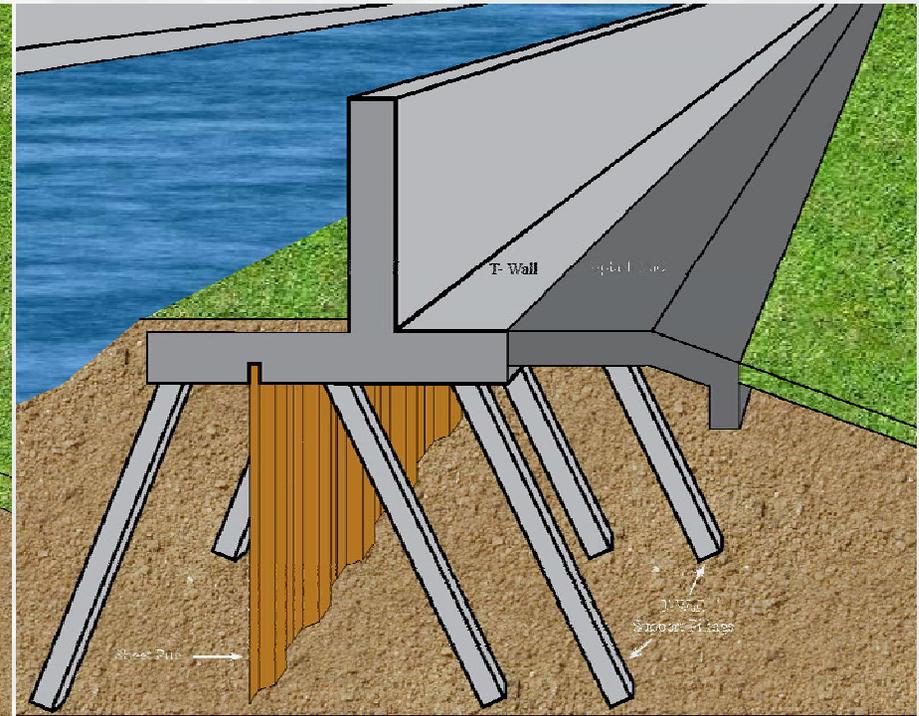
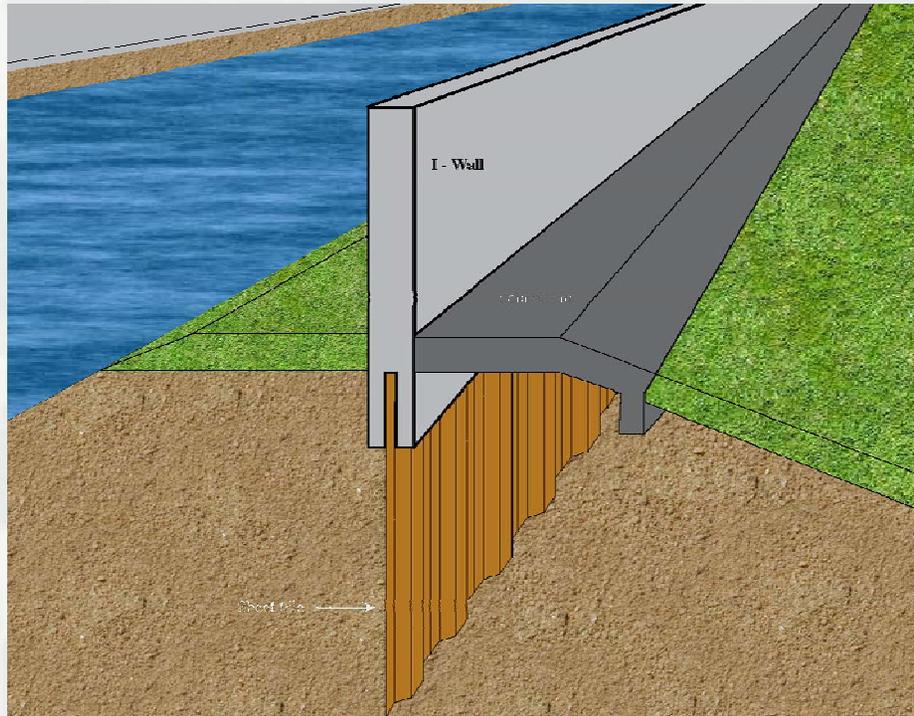
T- Wall



Floodwall Improvements

I-Wall

T-Wall

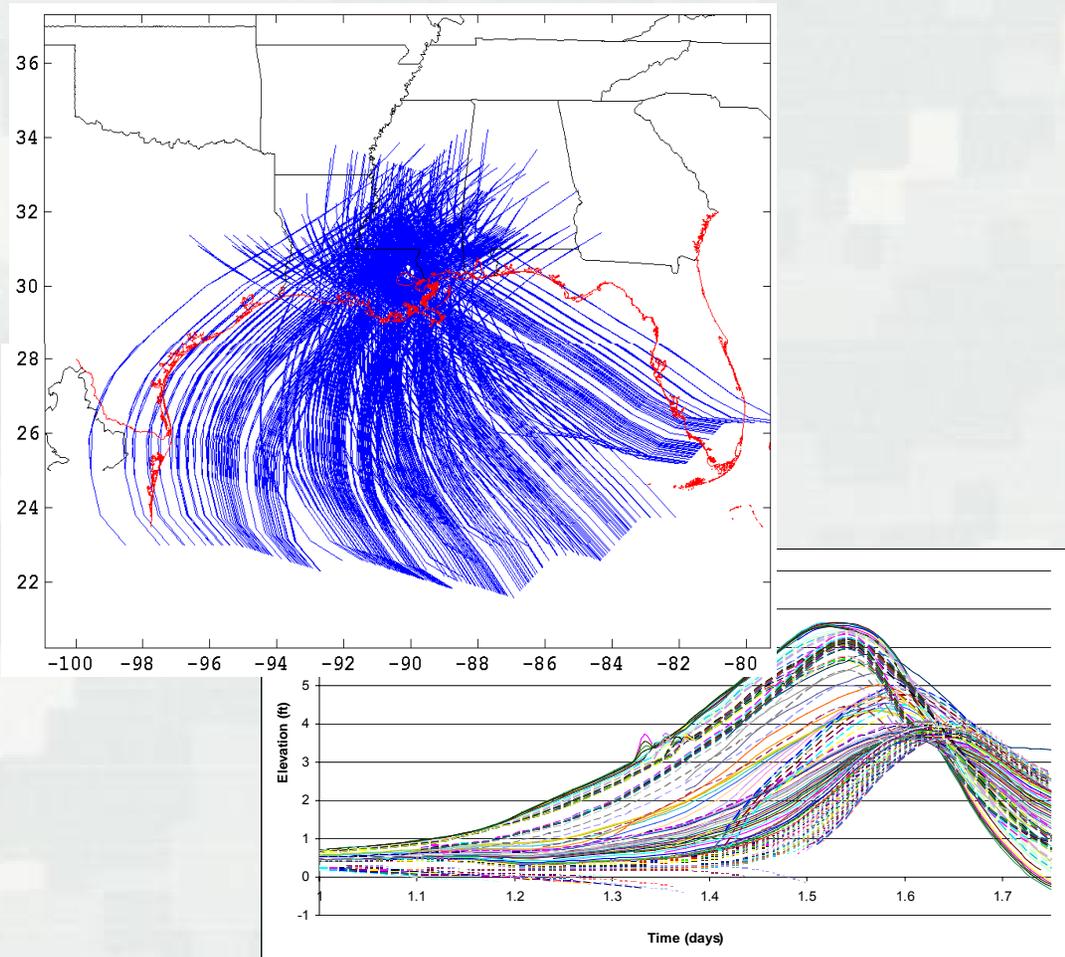


Pre-Hurricane Katrina

Post-Hurricane Katrina



Hurricane Paths Considered in the Risk Analysis



- 3 HPS Geometries
 - Pre-Katrina
 - Current (1 June 07)
 - 100-year LOP (~2011)
 - 152 storm hydrographs
 - 350+ features
 - Floodwalls
 - Levees
 - Pumps Stations
- **62,928 Hurricane**
- **Hydrographs**

