

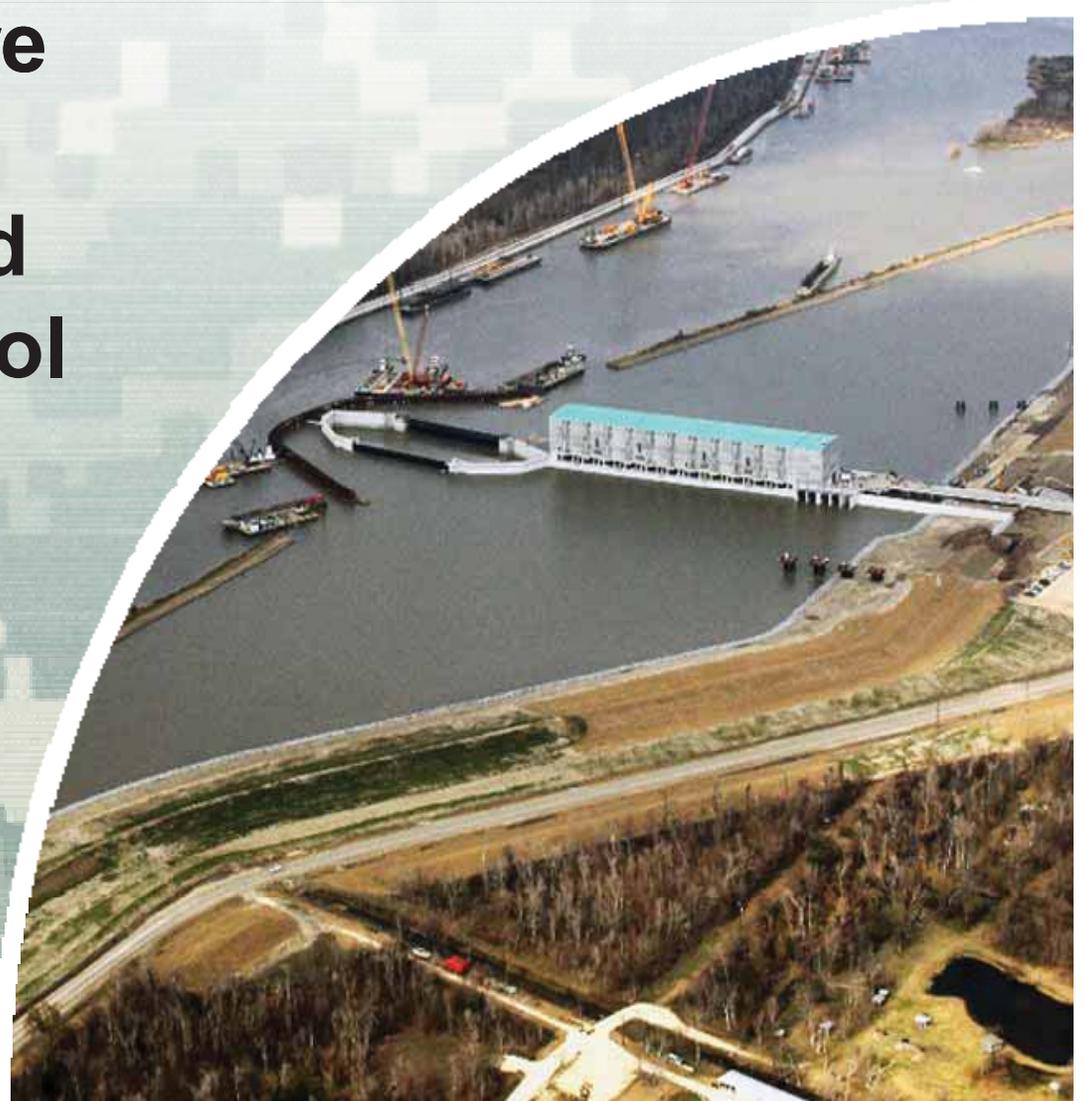
# Greater New Orleans Hurricane & Storm Damage Risk Reduction System

## GIWW West Closure Complex Operating Plan and Master Water Control Manual

Public Meeting  
March 16, 2011  
Visitation of Our Lady

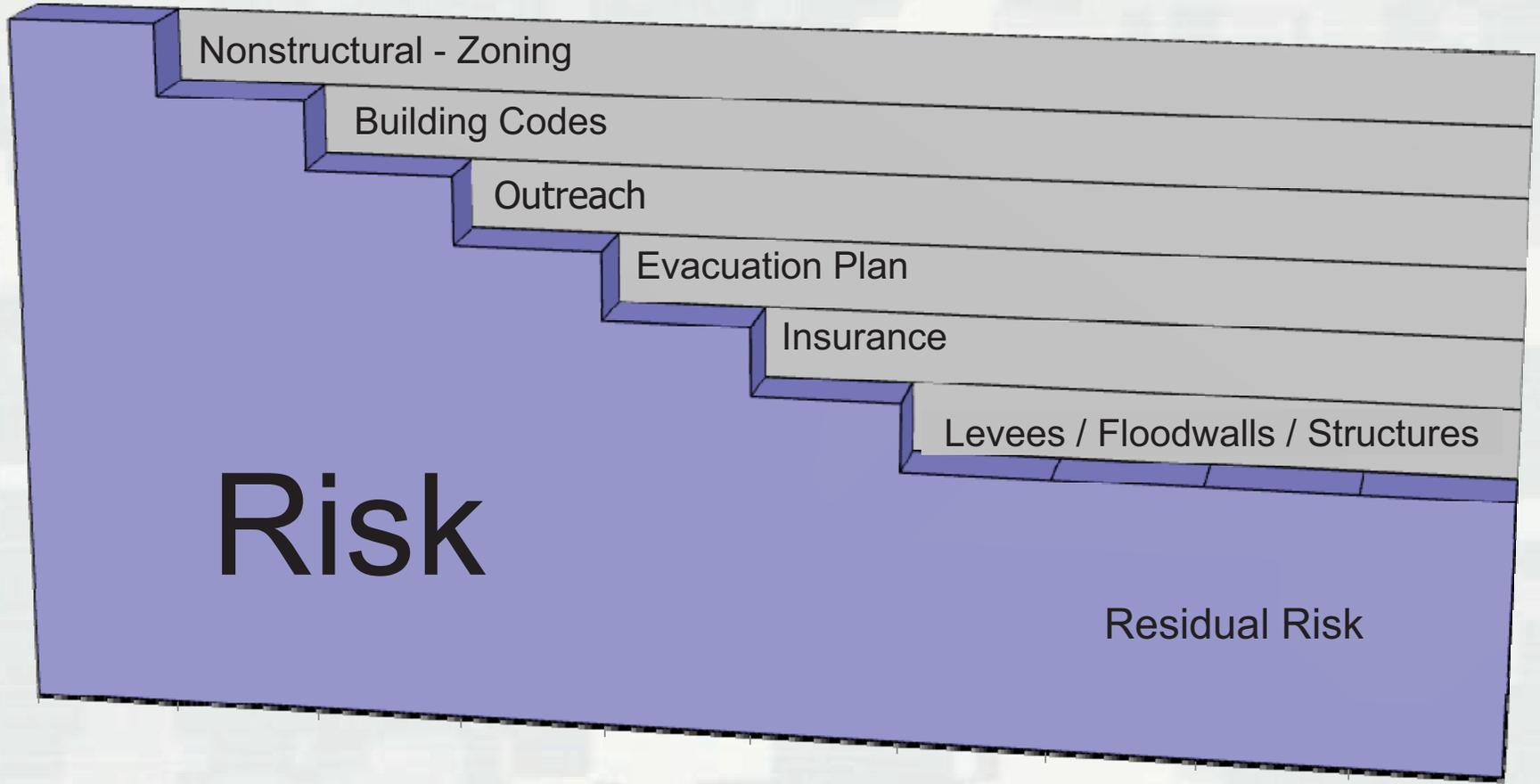


US Army Corps of Engineers  
**BUILDING STRONG**®



# Risk – Shared Responsibility

Initial Risk



# Meeting Purpose

- Discuss the proposed operating plan for the GIWW West Closure complex: The interim plan for the 2011 season and the permanent plan for 2012 and future years.
- Obtain comments and feedback to improve and or modify the plan where appropriate.



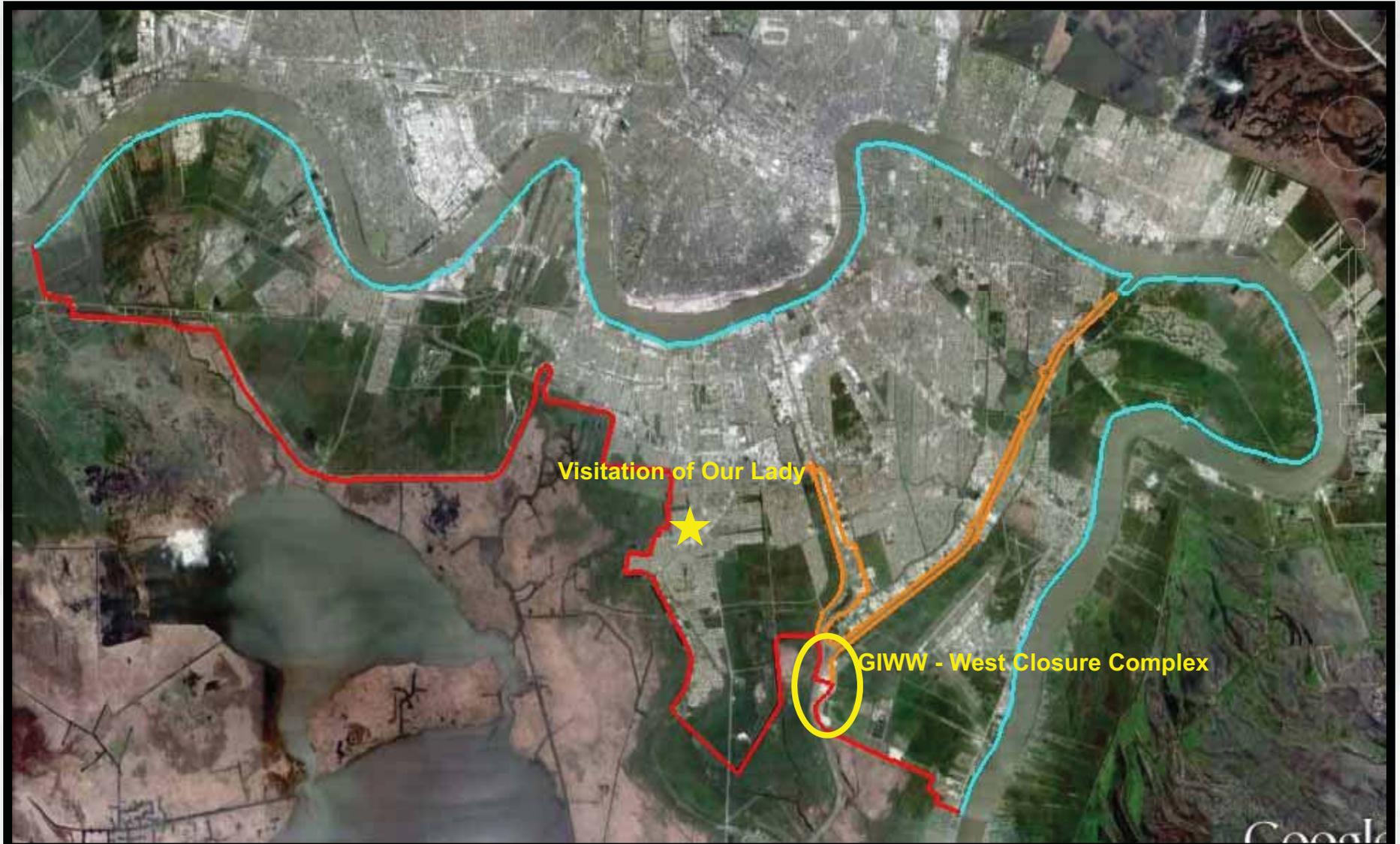
# Agenda

- **Construction status**
- **Discuss interim operating plan for 2011**
- **Discuss permanent operating plan and Water Control Manual for 2012 and future years**





# West Bank Hurricane & Storm Damage Risk Reduction System



# Construction Progress



# Pre- Construction July 2009

November  
2010



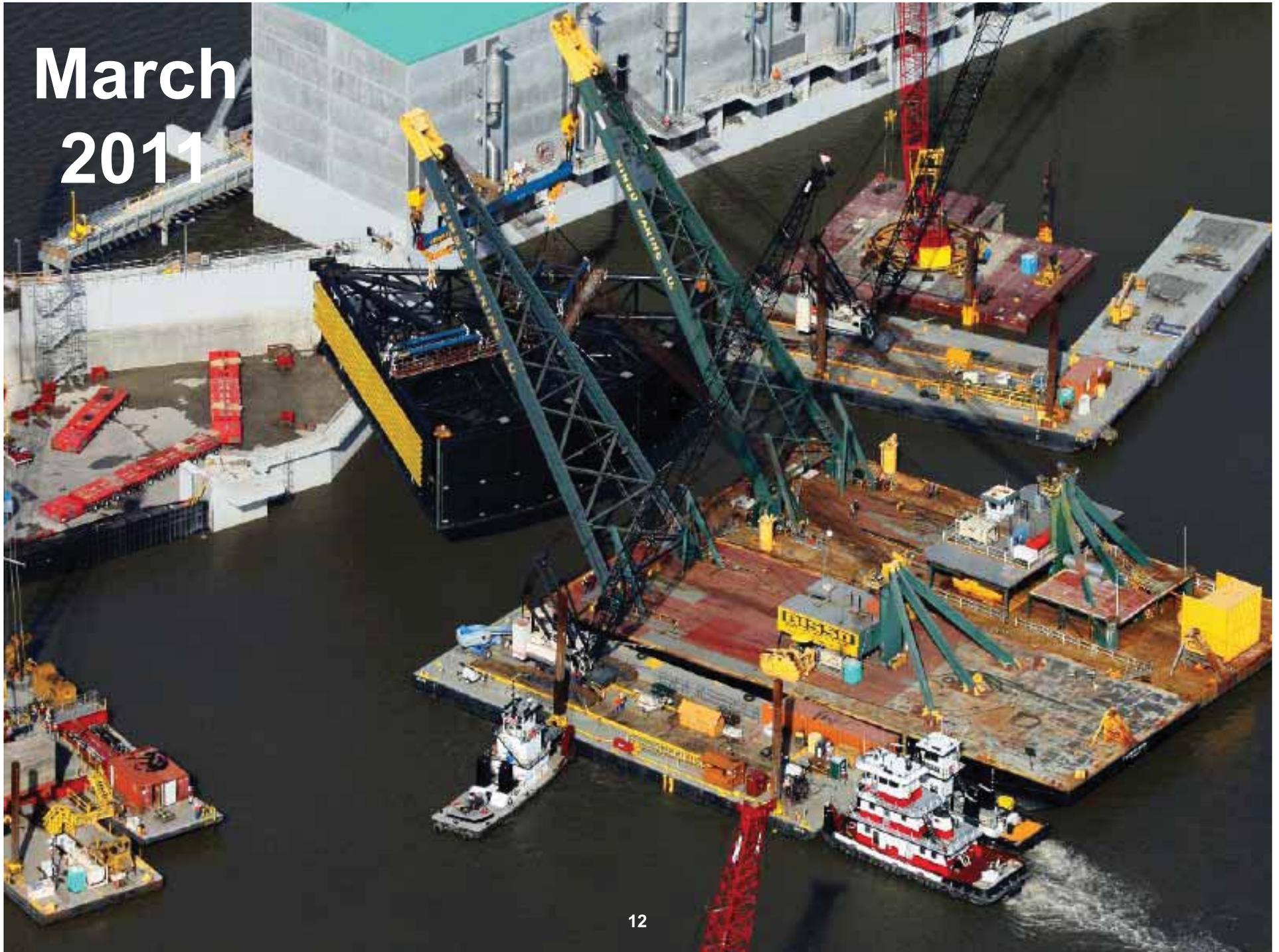
January  
2011



**February  
2011**



March  
2011



March  
2011

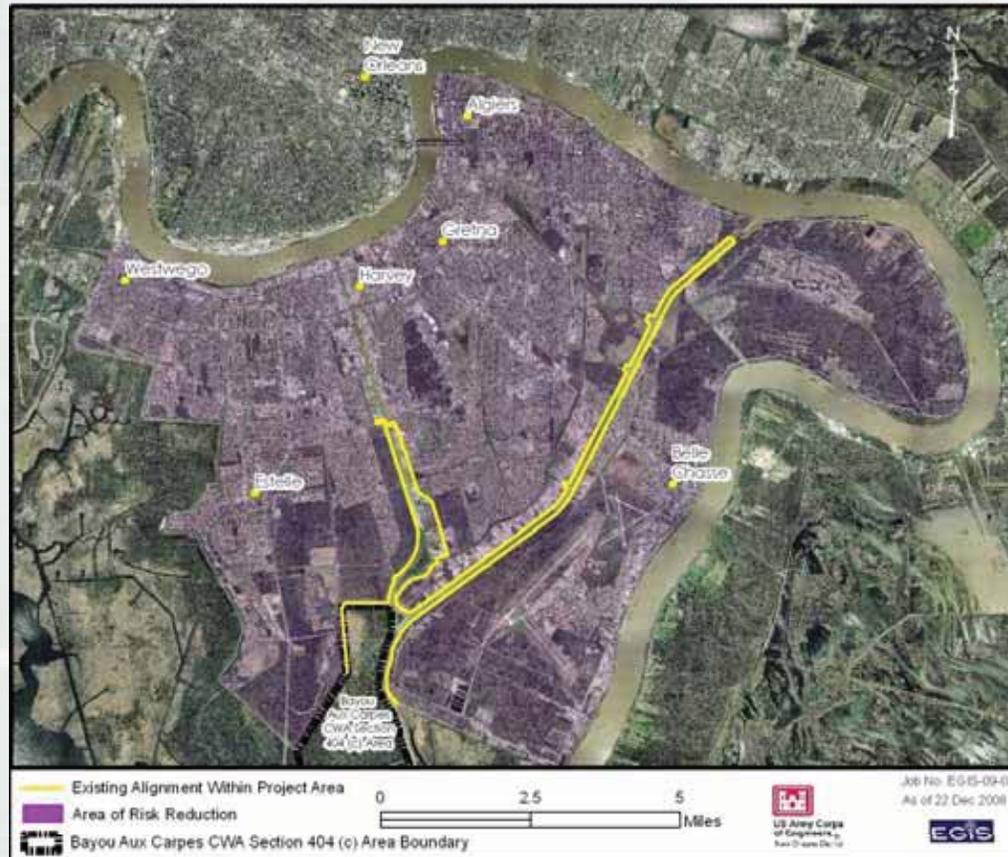


# Lake Salvador “Geocrib Site” Beneficial Use

# Proposed Operating and Water Control Plan



# Key Messages



- The **PRIMARY FUNCTION** of GIWW West Closure Complex is Hurricane Storm Damage Risk Reduction for 250,000 residents included in the West Bank and Vicinity Project: It will be operated to assure that it performs this function.



# Key Messages

- Both commercial and recreational navigation, has been considered in the design and construction of the project and will be considered in the operation of the complex.
- Navigation interests must be aware that the structure will likely close for tropical events and must prepare accordingly.
- Once closed, the navigable gates will not be opened until the threat has passed.



# Key Messages

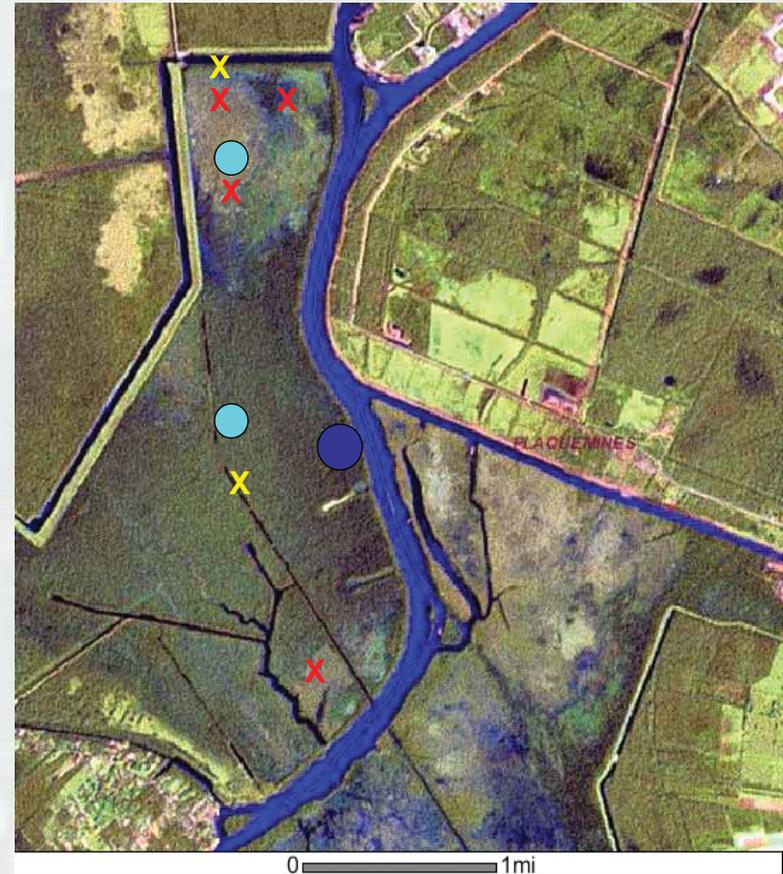
- Effects to Lafitte / Crown Point have been numerically modeled and effects measured for various storm paths and intensities. The results show the impacts to be on the order of .1 to .2 feet. WCC will be operated to avoid additional adverse effects to the greatest extent possible.



# Key Messages

## Bayou aux Carpes CWA 404(c) Water Monitoring Stations

- Existing Coast-wide Reference Monitoring System (CRMS) site (0184) Continuous salinity and water level
- Continuous water level
- ✕ Herbicide/pesticide sampling (after major rain fall)
- ✕ Quarterly pore water sampling (nutrients, ions), marsh mat characterization, and soil descriptions



When modeling is complete, adaptive management techniques will be used to operate the Old Estelle Water Control Structure to enhance the 404c area by diverting fresh water from rainfall events into the 404c area.



# Key Messages

- Joint Gulf Intracoastal Constructors / USACE team will be on-site to operate the WCC for the 2011 Hurricane Season.
- The Commander of the New Orleans District will be the decision maker for the operation of the structure, both gates and pumps.
- Proposed plan is GIC will provide technical expertise on-site for the actual operation of the components: GIC will not be involved in the decision making process for when the gates will be closed nor when the pumps will be operated.



# Stakeholder Input

- Navigation: USACE, USCG and Navigation Industry through GICA, AWO and HCIA
- Hurricane Risk Reduction: SLFPA-W, OCPR, NWS & USACE
- Interior Drainage: Jefferson, Orleans and Plaquemines
- Environmental: EPA, NPS, Other Federal and State Environmental Agencies, NGOs



# Notification and Communication

- Web sites –Corps and Non-Corps
- Local television and radio media outlets
- Gulf Coast Joint Hurricane Team communication network
- Local Government Liaisons (LGL) to Parishes
- USCG Marine Safety Broadcast
- COE Navigation Bulletin



# Off-Season Activities

- Complex staffed throughout the year to perform routine maintenance and exercise equipment to assure readiness
- Activities will include:
  - Regular monthly exercising of pumps and engines
  - Bi-Monthly closing of gates
  - Fuel system maintenance
  - Other regular system scheduled maintenance



# Pre-Season Activities

- Activities will include:
  - Large scale pump readiness test and regular bi-weekly exercising of pumps and engines
  - Dive inspections of gates
  - Monthly closing of gates
  - Complete fueling of station
  - Communications and data input checks
  - Other regular system scheduled maintenance



# Within NWS 5 Day Warning Cone

- Activities to ensure readiness
- Exercise gates, pumps and all systems, etc.
- NOTE: Even if not in NWS warning cone, any storm entering the gulf will initiate some readiness actions
- Early communications with stakeholders initiated



# Within NWS 3 Day Warning Cone

- Continue readiness activities
- Dive team called up to report and gate inspection performed
- Continue consultations with stakeholders
- Begin review information which could indicate need to close WCC gates



# Within NWS 3 Day Warning Cone 48 hours

- Continue readiness activities
- Continue consultations with stakeholders
- Begin review information which could indicate need to close gates
- Communicate gate closure probabilities to all parties through communication networks



# Within NWS 3 Day Warning Cone 24 hours

- Continue readiness activities
- Continue consultations with stakeholders
- Continue review and analysis of information which could indicate need to close gates
- Communicate gate closure probabilities to all parties through communication networks
- Decision to close structure likely



# Gate Closure Decision

- Decision to close will be made by the MVN Commander with information input from:
  - National Weather Service
  - US Coast Guard
  - Emergency Operation Center
  - SLFPA-W, Office of Coastal Protection and Restoration
  - Parish Governments
  - Navigation Industry
- Wide variances in effects based upon storm path, speed intensity, expected rainfall, etc., require the flexibility to make the closure decision within a range of water elevations
- Proposed plan is to allow for closure when water surface elevation at the WCC is between 2.5' and 3.8' ft
- Minimum advance notice of closure is 12 hours



# Within NWS 3 Day Warning Cone 12 hours

- Gates closed
- Pump down detention basin to elevation 0 in anticipation of rainfall



# During the Event

- Continually monitor rainfall using radar and input from stations along the canals
- Operate pumps to maintain a level in the detention basin at the WCC below elevation 2
- Ensure pump operations do not lower detention basin elevations anywhere below elevation 0



# Post Event 12 hours

- Once surge threat has receded below elevation 3.8 ft at the WCC, re-establish equilibrium between flood and protected sides using either pumps and or sluice gates
- Ensure that if detention basin is higher than flood side, equilibrium is achieved without opening main navigation gates
- Channel evaluated and declared open by Coast Guard, allow navigation passage



# Currently Available for Public Review

- Remediation to the Outfall Canals - IER 27a Supplemental
  - Public Review through April 12, 2011
- Temporary Closure of the Hero Canal - IER 13a Supplemental
  - Public Review through April 14, 2011
- New Orleans to Venice Environmental Impact Statement
  - Public review through April 18, 2011
- Comments can be submitted by:
  - Calling 504-862-1544
  - E-mailing [mvnenvironmental@usace.army.mil](mailto:mvnenvironmental@usace.army.mil)
  - Or at any time at [www.nolaenvironmental.gov](http://www.nolaenvironmental.gov)



# Upcoming Public Meetings

Tuesday, Mar. 22, 2011

HSDRRS - Western Tie-In construction status  
Cytec's Tom Call Pavilion  
10800 River Road, Waggaman LA  
Open House 6:00 p.m.  
Presentation 6:30 p.m.

Thursday, Mar. 24, 2011

HSDRRS – IER 13 Supplemental – Hero Canal  
St. Paul's Benevolent Association Hall  
128 E. St. Peter St.  
Oakville, LA 70037  
Open House 6:00 p.m.  
Presentation 6:30 p.m.

Tuesday, Apr. 5, 2011

Plaquemines Parish Non-Federal Levee and NOV EIS/SEIS  
Buras Auditorium  
35619 Hwy 11  
Buras, LA 70041  
Open House 6:00 p.m.  
Presentation 6:30 p.m.

Wednesday, Apr. 6, 2011

Plaquemines Parish Non-Federal Levee and NOV EIS/SEIS  
Belle Chasse Middle School  
13476 Hwy 23  
Belle Chasse, LA 70037  
Open House 6:00 p.m.  
Presentation 6:30 p.m.

Thursday, Apr. 7, 2011

Plaquemines Parish Non-Federal Levee and NOV EIS/SEIS  
Rev. Percy M. Griffin Community Center  
15535 Hwy 15  
Davant, LA 70046  
Open House 6:00 p.m.  
Presentation 6:30 p.m.

Tuesday, May 3, 2011

Jefferson Parish east bank construction  
Congregation Gates of Prayer  
4000 West Esplanade Ave  
Metairie, Louisiana 70002  
Open House 6:00 p.m.  
Presentation 6:30 p.m.

Monday, May 9, 2011

St. Charles Parish east bank construction  
St. Charles of Borromeo Catholic Church Auditorium  
13396 River Rd.  
Destrehan, LA 70047  
Open house is from 6 to 6:30  
Presentation begins at 6:30 p.m.



# Opportunities for Public Input

- Regular public meetings throughout the Hurricane and Storm Damage Risk Reduction System (HSDRRS) Area
- Make sure to 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  
New Orleans District

# Social Web Networking Communities

*and what they mean to you*

## twitter



is an online messaging and social networking system that allows people to share their daily life experiences minute-by-minute, hour-by-hour, and/or day-by-day via their computer or mobile phone. Team New Orleans is joining in and taking on the opportunity to tweet with the public and offer reports on developments, additions, changes, and upcoming public meetings and events that will affect local communities. Check it out by going to [twitter.com/teamneworleans](http://twitter.com/teamneworleans).

Flickr is an online community platform for global photo management and sharing applications via the web. Team New Orleans has become a part of the movement and is using Flickr to visually explain our projects.

Check out our photos at [www.flickr.com/photos/37671998@N05](http://www.flickr.com/photos/37671998@N05).

## flickr



## facebook

is a global social networking Web site that links people from across the world and is currently ranked as the most popular of its kind. Team New Orleans is following in the trend and is using Facebook to update the

public about projects, events, activities and public meetings.

Become friends with Team New Orleans by visiting [www.facebook.com](http://www.facebook.com), search New Orleans District.



# Resources

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

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 [EIR 2 Public Comment Period 5/6 - 6/4](#)
- Draft [EIR 13 Comment Period extended to 5/18](#)
- Draft [EIR 5 Public Comment Period 5/4 - 4/3](#)
- Draft [EIR 16 Public Comment Period 5/1 - 5/30](#)
- Draft [EIR 6 Public Comment Period 4/24 - 5/23](#)
- [EIR 6 - The Clean Water Act Section 404 Public Notice Comment Period 4/24 - 5/23](#)
- [Orleans Parish Pump Station Stormwater EA #474 Drafts Public Comment Period 4/17 - 5/23](#)
- [Jefferson Parish Pump Station Stormwater EA #475 Drafts Public Comment Period 4/24 - 5/20](#)
- Draft [EIR 10 Public Comment Period 4/13 - 5/12](#)

**Upcoming**

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

**Newly Available**

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

<http://www.mvn.usace.army.mil>

**US Army Corps of Engineers**  
New Orleans District

**PUBLIC INFORMATION**

[Learn more about what the Corps is doing to reduce risk.](#)

**Emergency Information**  
[Food Safety](#), [Disaster Preparedness](#), [Health Information and More](#)

**NOLA Environmental**  
Did you miss a meeting? No problem! Find presentations, brochures and more.

**TOP HEADLINES**

[Document confirms action on Hurricane 2009](#)

[SANTA BARBARA Environmental Assessment for public review](#)

[EIR 10 public update on WaterBANK web](#)

[SANTA BARBARA Submittal: Inlay on Drafts and Comments](#)

**ASK THE CORPS**

The Corps wants to hear from you! Do you have information on the closing of Industrial Lock on August 1, 2009 for 60 days?

A. Yes, for information regarding the August 1st closing of the lower Harbor Navigation Canal Lock, please visit <http://www.usace.army.mil>

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

**FEATURED VIDEOS**

[Meet Closure Complex](#)  
Learn more about the alternatives under consideration to reduce risk on the WaterBank. [Watch it.](#)

[Hurricane & Storm Damage Risk Reduction System](#)  
From levees to coastal stations, find out more about system features.

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