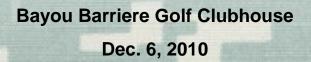
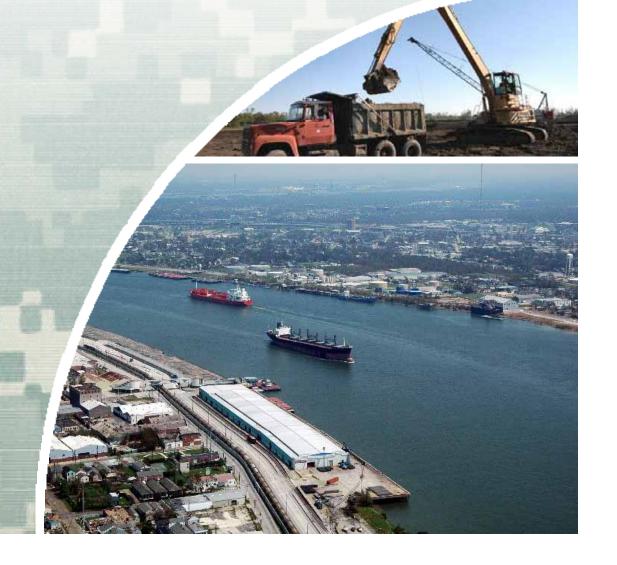
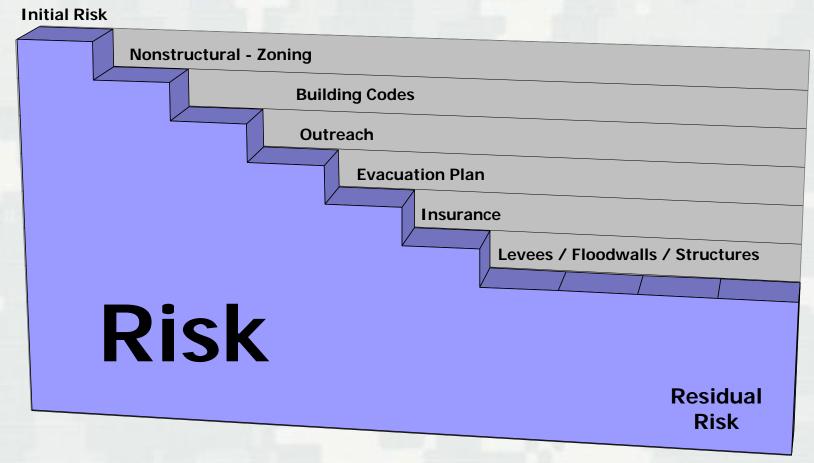
Hurricane & Storm Damage Risk Reduction System Mississippi River Levees Co-Located Work Individual Environmental Report 33







Risk – Shared Responsibility





National Environmental Policy Act: NEPA

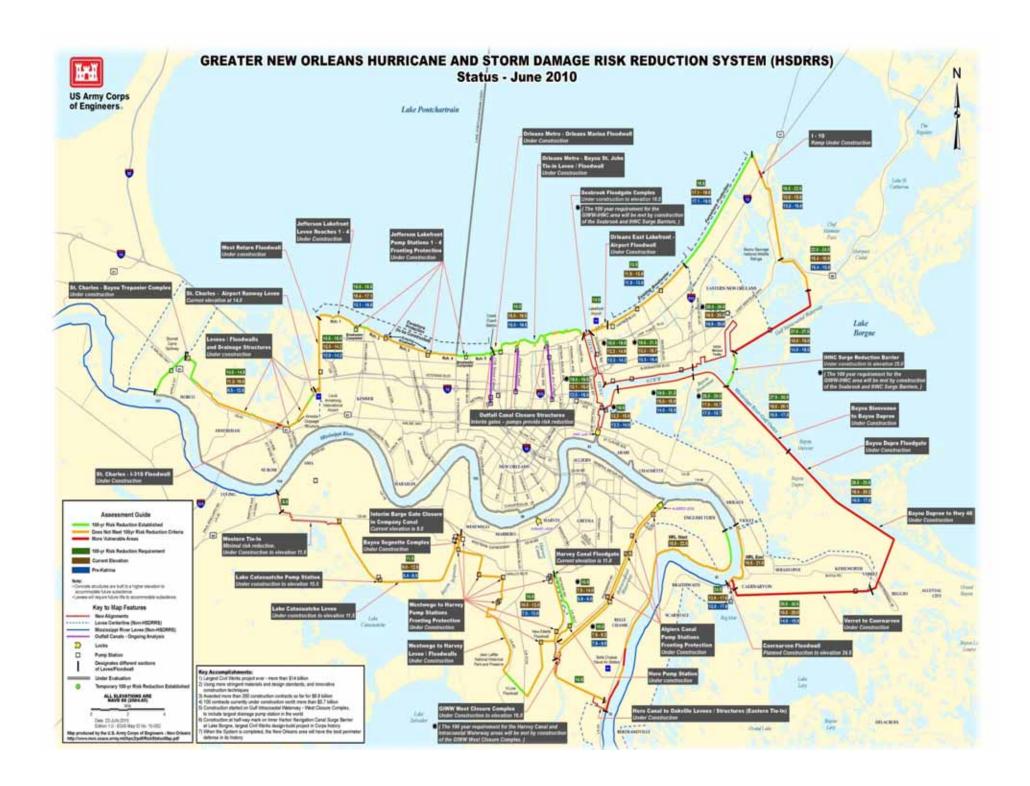
- Required of all major federal actions
- Analyze potential impacts to the human and natural environment and investigate reasonable alternatives
- Public involvement is KEY!
- Goal: more informed decision making through public involvement
- Analysis documented in Individual Environmental Reports (IER)
- Corps has made alternative arrangements to expedite project timelines



Meeting Purpose

- Describe methods and impacts associated with construction of higher and stronger risk reduction features in the Belle Chasse subbasin
- Accept feedback on the proposal to raise the Mississippi River Levees in Plaquemines and Orleans parishes from English Turn to Oakville, LA as part of the West Bank & Vicinity hurricane system





Greater New Orleans Levees Overview

- The Hurricane and Storm Damage Risk Reduction System (HSDRRS) is made up of the Lake Pontchartrain & Vicinity (LPV) and West Bank & Vicinity (WBV) projects
- LPV reduces hurricane risk on eastbank of Mississippi
 - ► St. Bernard, St. Charles, Jefferson, New Orleans metro, New Orleans East, lower/upper 9th Ward
- WBV reduces hurricane risk on westbank of Mississippi
 - ► Algiers, Belle Chasse, Jefferson, St. Charles



Greater New Orleans Levees Overview

- Mississippi River Levees protect against a riverine flood event
- In southeast Louisiana
 Mississippi River Levees are an integral part of the hurricane system
- In the Greater New Orleans area, Mississippi River Levees serve to reduce risk from <u>both</u> riverine and hurricane flood risks



Many Mississippi River levee stretches include gravel topped crowns and concrete slope paving on the flood or protected side.



Levees Along the Mississippi River

- Mississippi River Levees and Hurricane System levees coincide in the following areas:
 - Lake Pontchartrain & Vicinity:
 Caernarvon Freshwater Diversion (RM 81.5) to Bonnet Carre Spillway (RM 127)
 - West Bank & Vicinity: Eastern Tie-In (RM 70) to Davis Pond Freshwater Diversion (RM 118.5)
- Mississippi River Levees and Hurricane System levees are colocated in the following areas:
 - WBV: River Mile 85.5 (near English Turn to Eastern Tie-In (RM 70)
 - In this reach, the height of the levee for hurricane purposes needs to be higher than that required for river purposes



The Corps is constructing a 700 ft. demonstration section in Belle Chasse at the intersection of the river with F. Edward Hebert Blvd.



West Bank & Vicinity



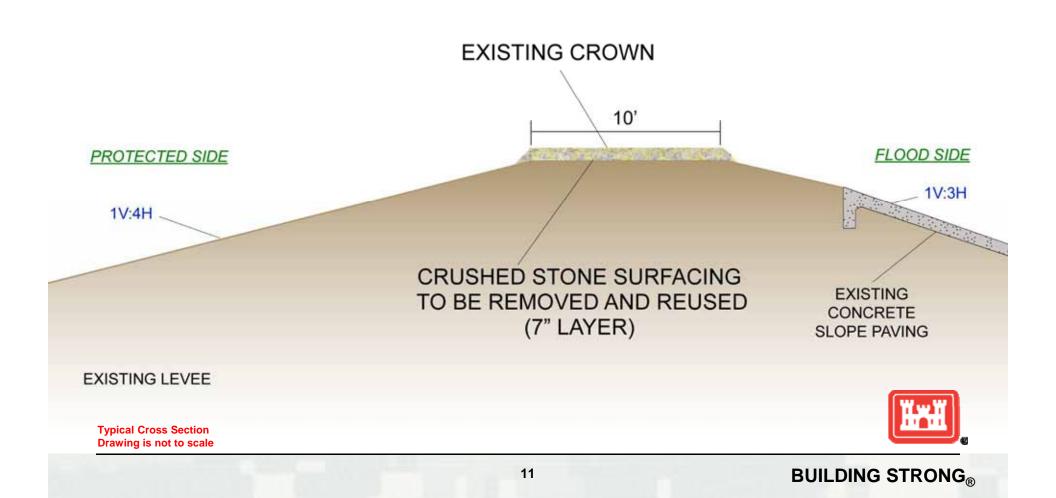
Co-located Levees

Individual Environmental Report 33 proposed action:

- Raise levees using all-earthen clay cap in the two upstream contract reaches
- Raise levees using a stabilized soil clay cap in the downstream reaches
- Build the higher and stronger levees within existing right-ofway
- Minimize potential environmental and cultural resources impacts
- Risk reduction measures in place in hurricane season 2011



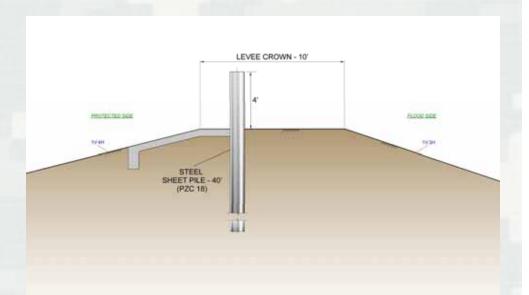
Existing Levee Conditions



Alternatives Considered

Criteria Used to identify Proposed Action:

- 1. Risk and Reliability
- 2. Time/Constructability
- 3. Total Project Cost
- 4. Human and Natural Environmental Impacts
- **5. Operations and Maintenance Impacts**

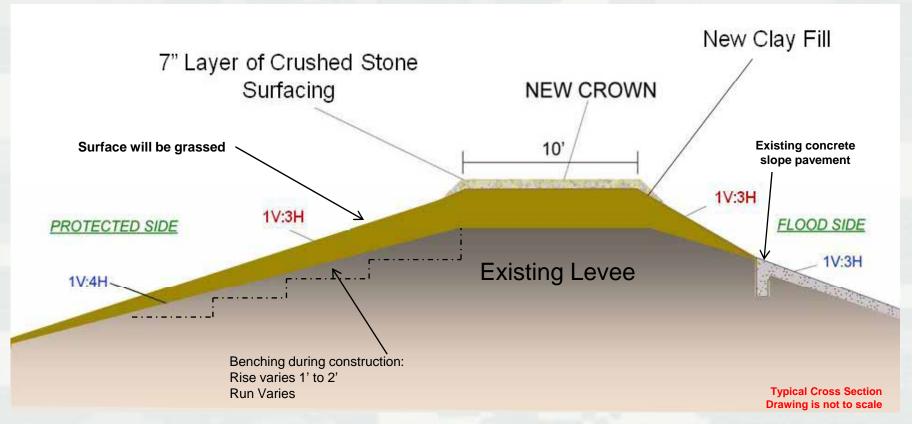


In addition to the proposed action, a Steel Sheetpile Barrier, was evaluated as a method to reduce risk to the Belle Chasse basin.



Proposed Action

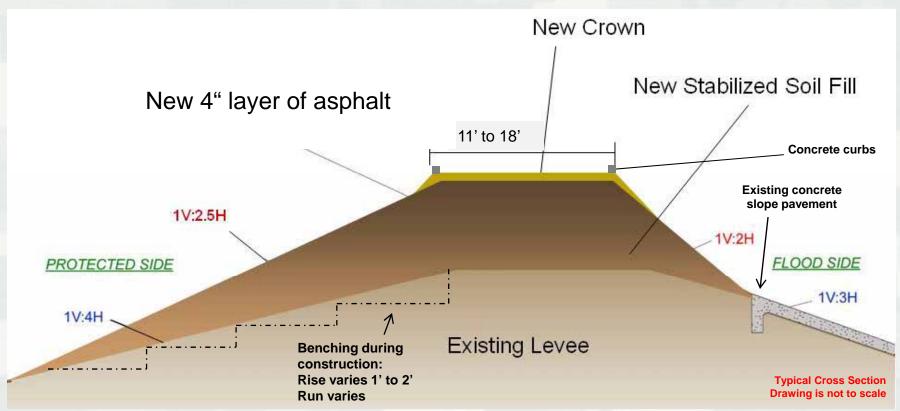
(Upstream)
Clay Cap Alternative



- Crown width 10 ft
- New centerline of levee may be shifted
- Any shift in levee would not be so great as to exceed existing right-of-way either side
- Existing side slopes shown are approximate
- Side slopes of new fill added (all-clay) may vary from those shown

Proposed Action

(Downstream) Stabilized Clay Cap Alternative



- Crown width varies 11'-18'
- New centerline of levee may be shifted
- Any shift in levee would not be so great as to exceed existing right-of-way either side
- Existing side slopes shown are approximate
- Side slopes of new fill added (either lime stabilized soil, fly-ash and/or bed-ash stabilized soil) may vary from those shown



Construction

Clay Cap (Upstream)

- Typical levee lift
- Aesthetically identical to existing levees

Stabilized Clay Cap (Downstream)

- Clay is mixed with either lime or ash and then placed on the existing levee
- Less aesthetically pleasing





Soil Mixing and Haul Routes

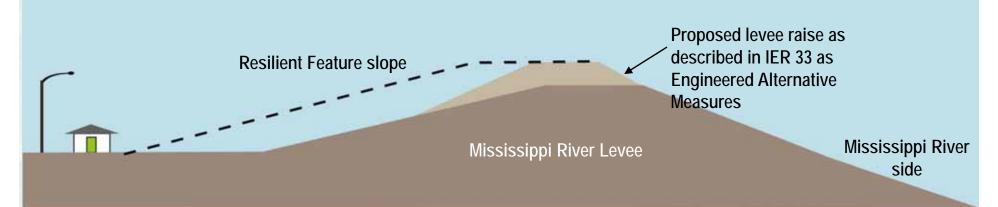
- Clay will be hauled to Walker Rd and mixed with either lime or ash
- Staging areas are within existing right-of-way
- Haul routes:
 - Hwy 406
 - River Rd.
 - Patterson Rd.
 - F. Edward Hebert Blvd.
 - Main St. (not through residential area)
 - Avenue G
 - Hwy 23
 - Walker Rd





Resilient Features

Conceptual



Resilient features involve more gradual levee slopes, berms, and possibly armoring to reduce the damages to levees from large storm events. Furthermore, resilient features would require additional rights-of-way and potential relocation of real estate, facilities, and utilities.



West Bank & Vicinity



Eastern Tie In

Connects to the Hero Canal Levee and the Mississippi River Levees in Oakville



Eastern Tie-In

Plan approved in IER 13 and includes construction of:

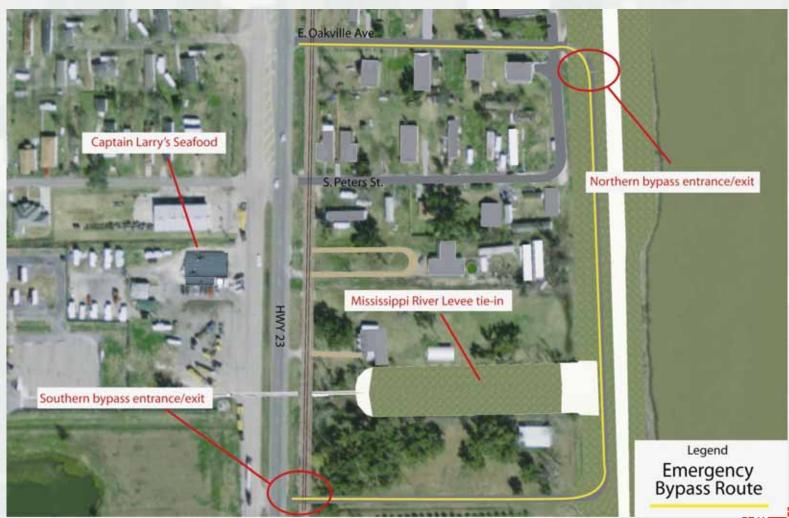
- 56 ft stoplog gate across the Hero Canal
- Two pump stations
- Earthen levees will connect to the Mississippi River Levee
- Three swing gates at Hwy 23
- A concrete T-wall built to elevation 14 ft on the southern edge of Capt. Larry's Seafood Restaurant Parking lot
- Emergency Bypass Road



Construction of the Hero Canal levee began earlier this year.



Emergency Bypass Road



The Emergency Bypass Road will be maintained at all times during construction.

Currently Available for Public Review

- IER 33 Co-located Mississippi River Levees
 - Public review through Dec. 25, 2010
- Comments can be submitted by:
 - Calling 504-862-1544
 - E-mailing <u>mvnenvironmental@usace.army.mil</u>
 - Or at any time at <u>www.nolaenvironmental.gov</u>



Comprehensive Environmental Document (CED)

Purpose of the CED: Discuss Cumulative benefits and impacts of the Hurricane and Storm Damage Risk Reduction System, Mitigation, Data Gaps

Draft CED Release Date April 2011. Draft CED document will address cumulative impacts and benefits, operations and maintenance and other data gaps that have been finalized at that time.

Future CED documents. Additional documents will be prepared to update cumulative impacts and provide information about additional commitments (i.e. long term monitoring and analysis at Bayou aux Carpes and Inner Harbor Navigation Canal) or IER documents in preparation as the monitoring or additional NEPA documents are completed.

A CED Specific Public Scoping Meeting was held on 2 September 2009. Information from that scoping meeting can be found under Project/CED or under the meeting data on www.nolaenvironmental.gov



Upcoming Public Meetings

Tuesday, Dec. 7, 2010

LPV Mitigation and St. Charles Parish construction update public meeting
American Legion Post 366
12188 River Rd
St. Rose, LA 70087
Open House 6:00 to 6:30 p.m.
Presentation 6:30 p.m.

Thursday, Dec. 9, 2010

WBV Mitigation, status of Company Canal/Bayou Segnette construction and IER 15 Supplemental public meeting
Westwego Tassin Senior Center
701 4th St.
Westwego LA 70094
Open House 6:00 to 6:30 p.m.
Presentation 6:30 p.m.

Monday, Dec. 13, 2010

Atchafalaya Basin Floodway System Master Plan Update public meeting - Opelousas Opelousas High School 1014 Judson Walsh Dr. Opelousas, LA 70525

Tuesday, Dec. 14, 2010

Atchafalaya Basin Floodway System Master Plan Update public meeting - Port Allen West Baton Rouge Community Center 749 N. Jefferson St. Port Allen, LA 70767

Wednesday, Dec. 15, 2010

Causeway Construction New Orleans Marriott Metairie at Lakeway 3838 N. Causeway Blvd Metairie, LA 70002 Open House 5:00 to 8:00 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 <u>www.nolaenvironmental.gov</u>

Questions and comments may be submitted to Telephone: 504-862-2201

E-mail: AskTheCorps@usace.army.mil





Social Web Networking Communities

and what they mean to you

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.

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.



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, search New Orleans District.

Resources

www.nolaenvironmental.gov



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

