

Plaquemines Parish Risk Reduction

Plaquemines Parish Non-Federal Levee EIS & New Orleans to Venice SEIS

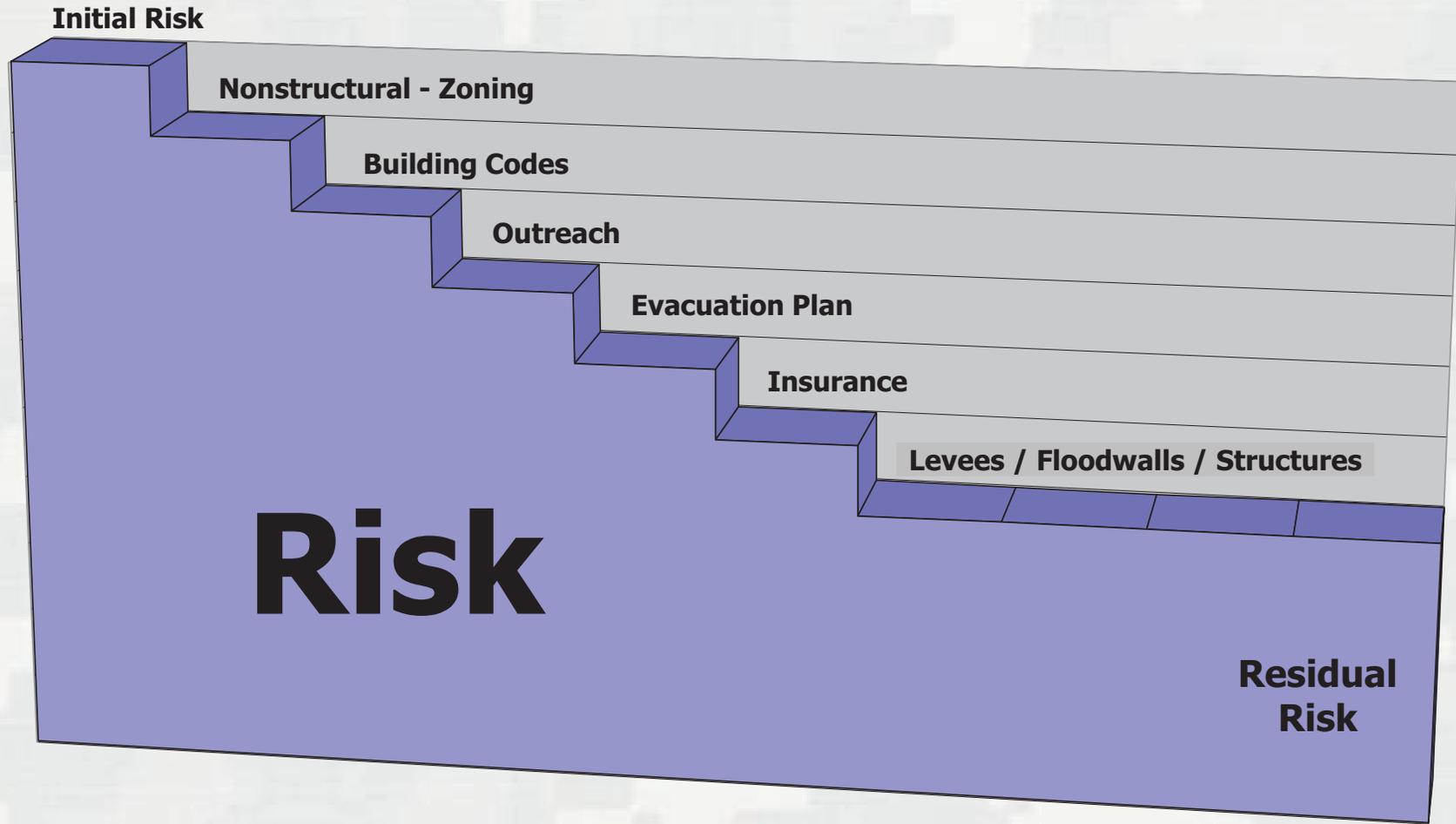
Public Meeting
April 5, 2011
Buras Auditorium



US Army Corps of Engineers
BUILDING STRONG[®]



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 environmental documents

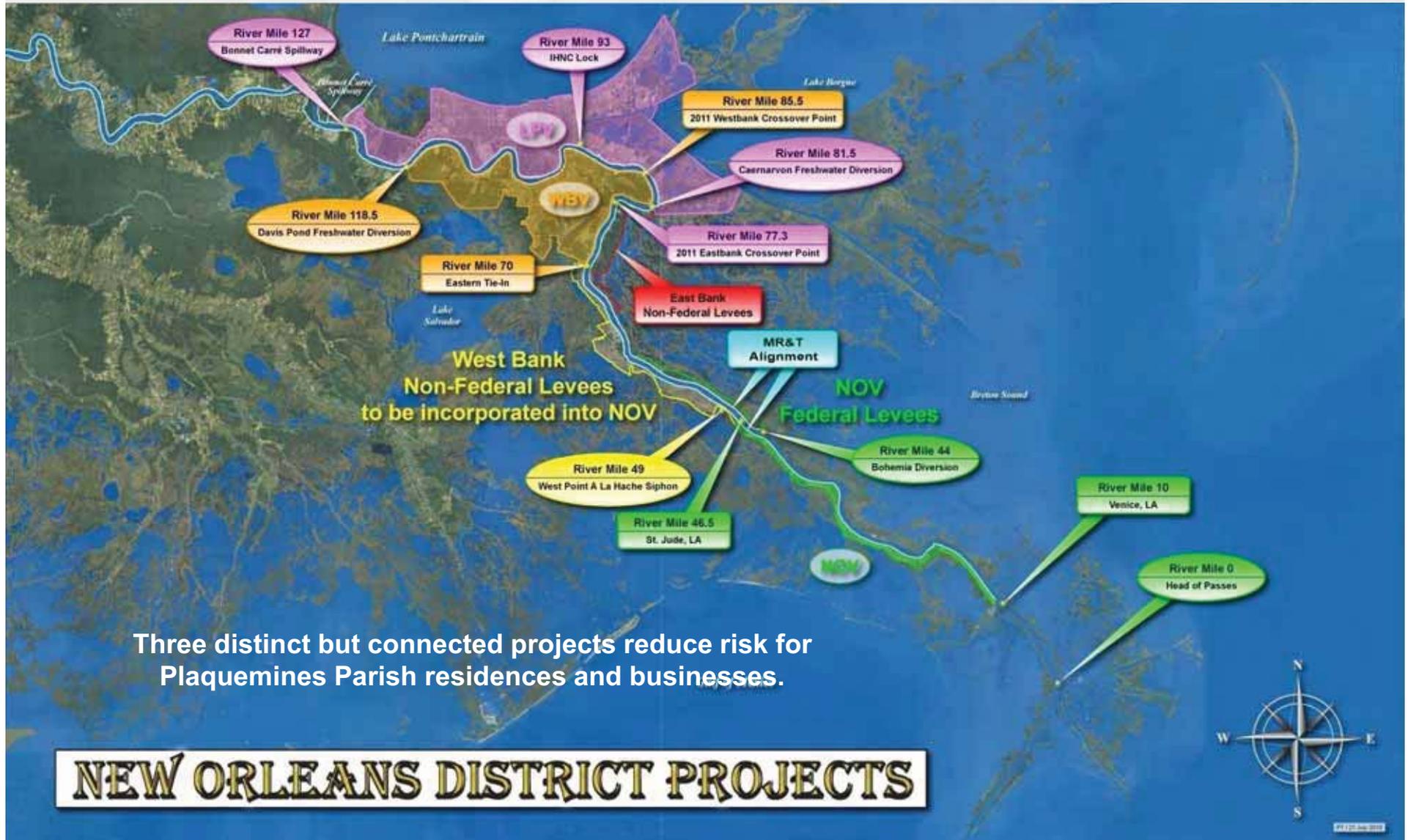


Meeting Purpose

- Describe and accept feedback on the proposal to improve the current Non-Federal Levees (Oakville to St. Jude) to the 2 percent level of risk reduction
- Describe and accept feedback on the proposal to raise the New Orleans to Venice levees, (Phoenix to Bohemia on the east bank and St. Jude to Venice on the west bank) to the 2 percent level of risk reduction



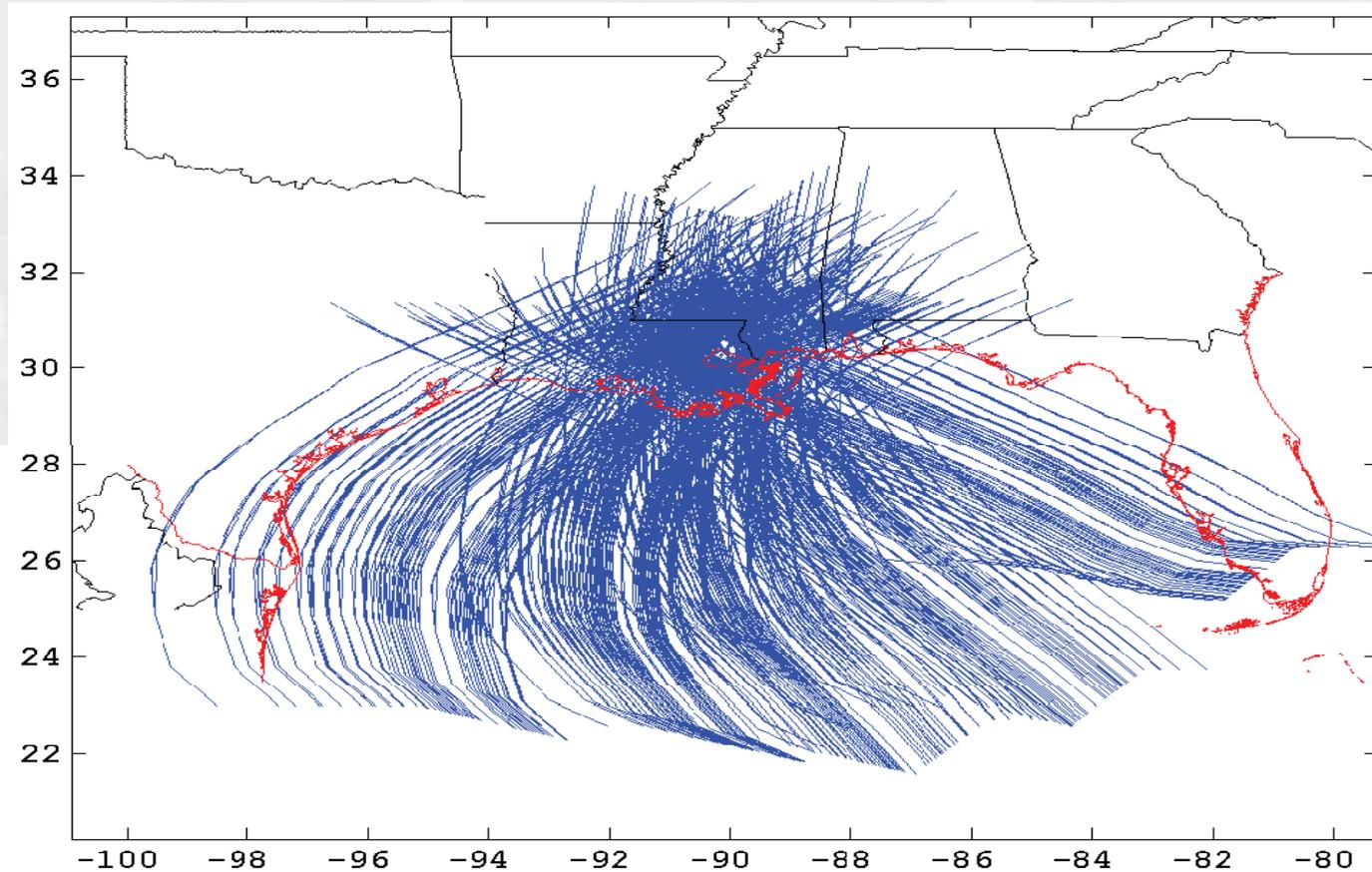
Plaquemines Parish Risk Reduction



Three distinct but connected projects reduce risk for Plaquemines Parish residences and businesses.

NEW ORLEANS DISTRICT PROJECTS

Design Hurricane



- The 50-year level of risk reduction actually means reducing risk from a storm surge that has a 2 percent chance of being equaled or exceeded in any given year.
- The 2 percent chance is based on the combined chances of a storm of a certain size and intensity (pressure) following a certain track that results in a 50-year surge event.

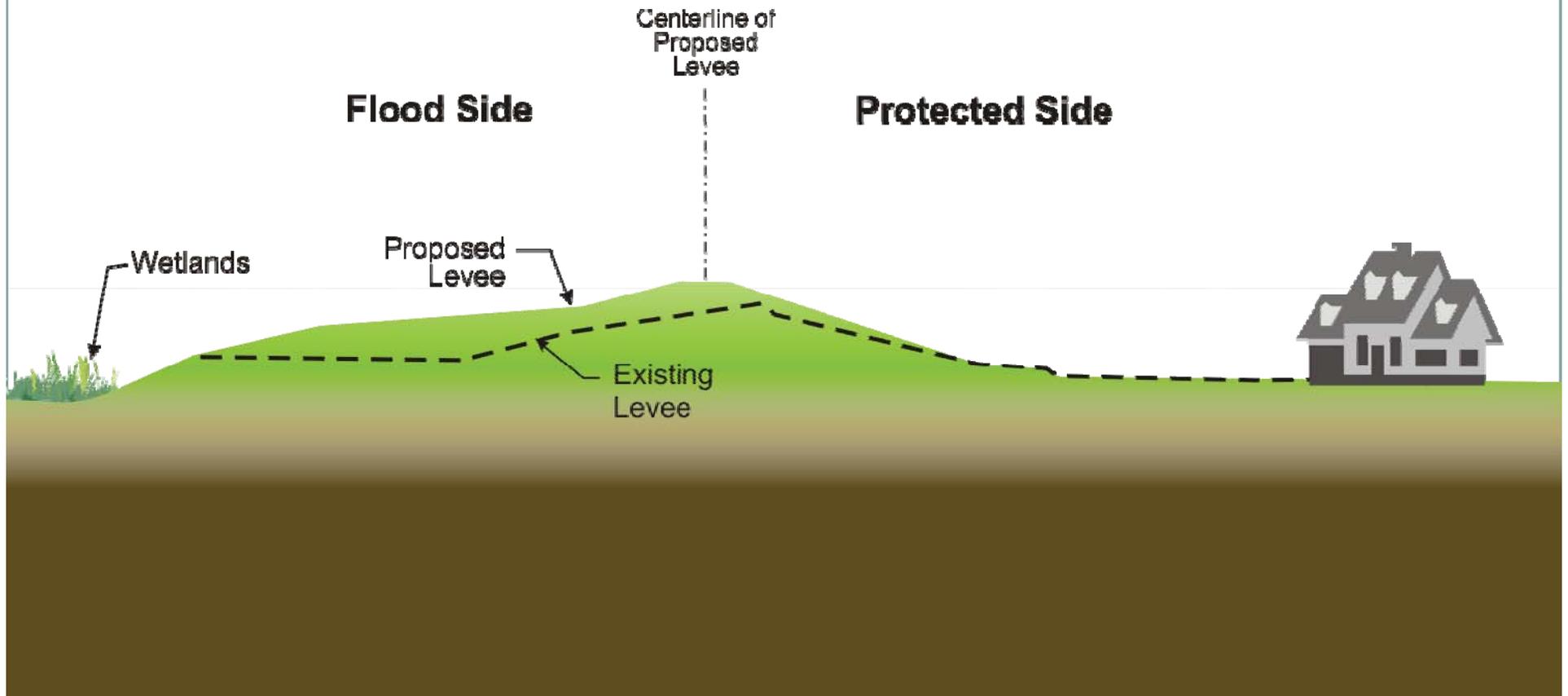


Alignments

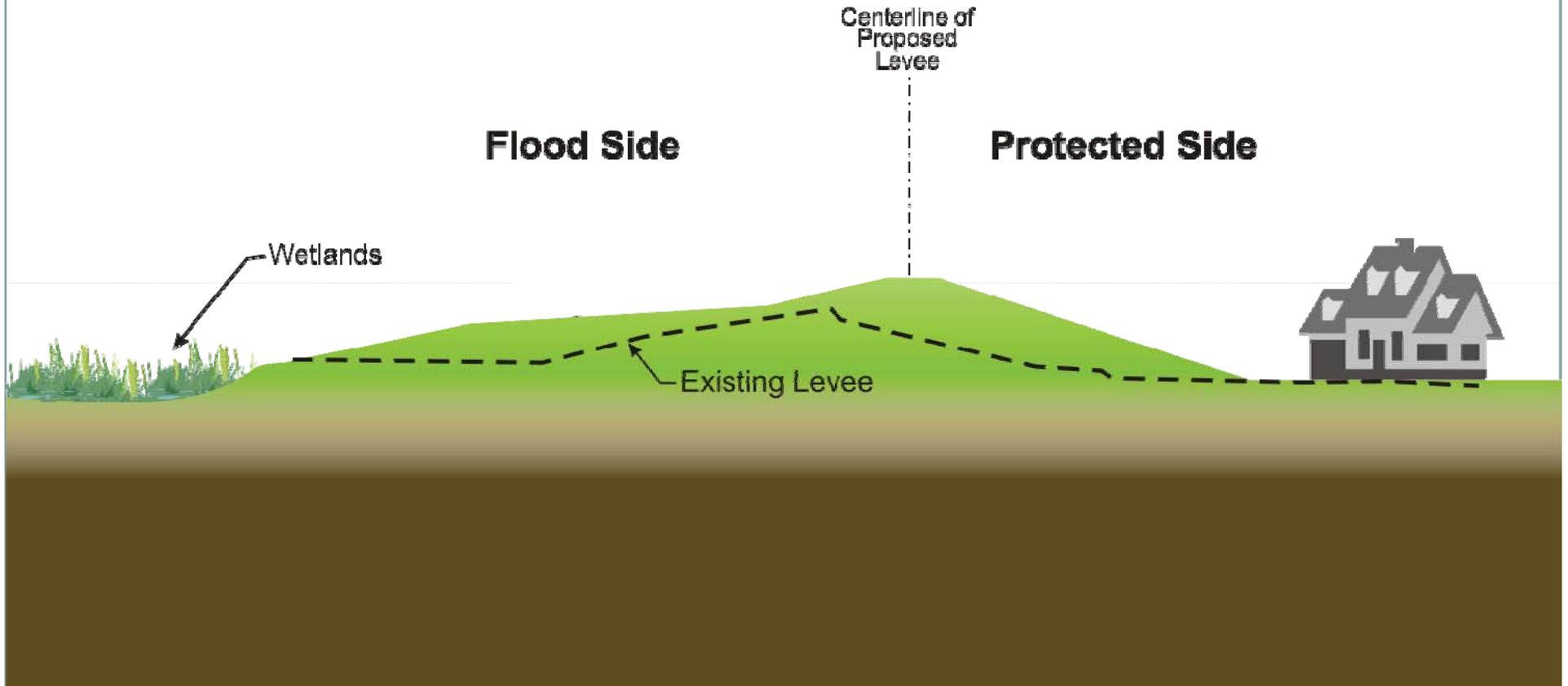
- The following standard set of levee alignment alternatives and scales within these alignments were initially considered for each of the reaches of the project area.
 - Existing alignment with straddle (toe-to-toe widening occurs equally on the protected and flood sides of the levee).
 - Flood-side shift (all toe-to-toe growth occurs on flood side of levee).
 - Protected-side shift (all toe-to-toe growth occurs on protected side of levee).
 - Floodwall



Flood Side Shift



Protected Side Shift



Plaquemines Parish Non- Federal Levee Project

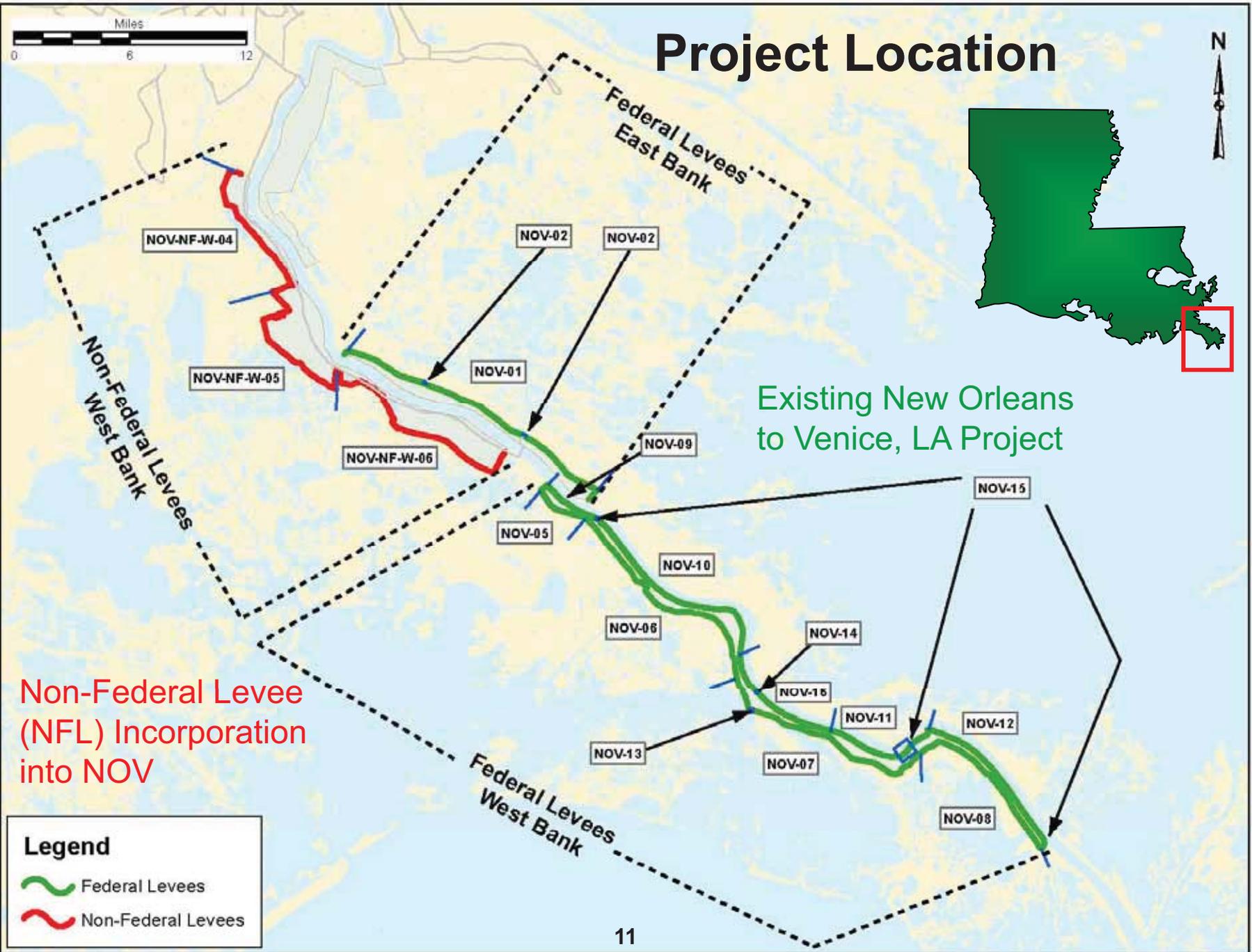
Julie LeBlanc, P.E.
Senior Project Manager



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Project Location



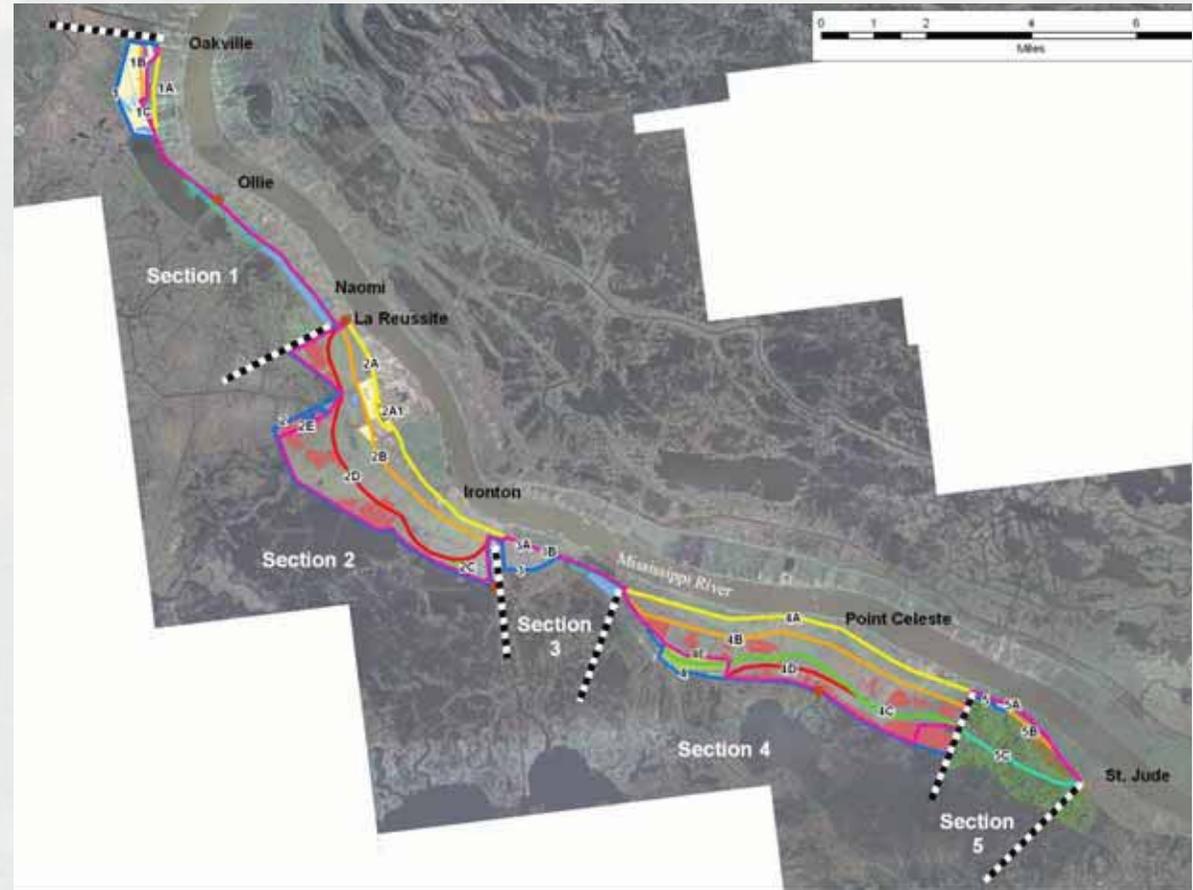
Non-Federal Levees Authority & Funding

- **Authorized by:**
 - Emergency Supplemental Appropriations Act (PL109-234) for Flood Control and Coastal Emergencies of 2006
 - Incorporate the levees into the existing New Orleans to Venice hurricane risk reduction project
- \$671 million has been allocated for the proposed action including mitigation.



Alternatives Development

- A total of 22 proposed alignments were identified that would meet project objectives.
- Congressional authorization did not allow deviating from the current alignment in the absence of an engineering reason.
- Corps moved forward with only investigating levee modifications that would not deviate from the existing alignment in the absence of an engineering reason.



Tentatively Selected Plan



Section 1: Oakville to La Reussite

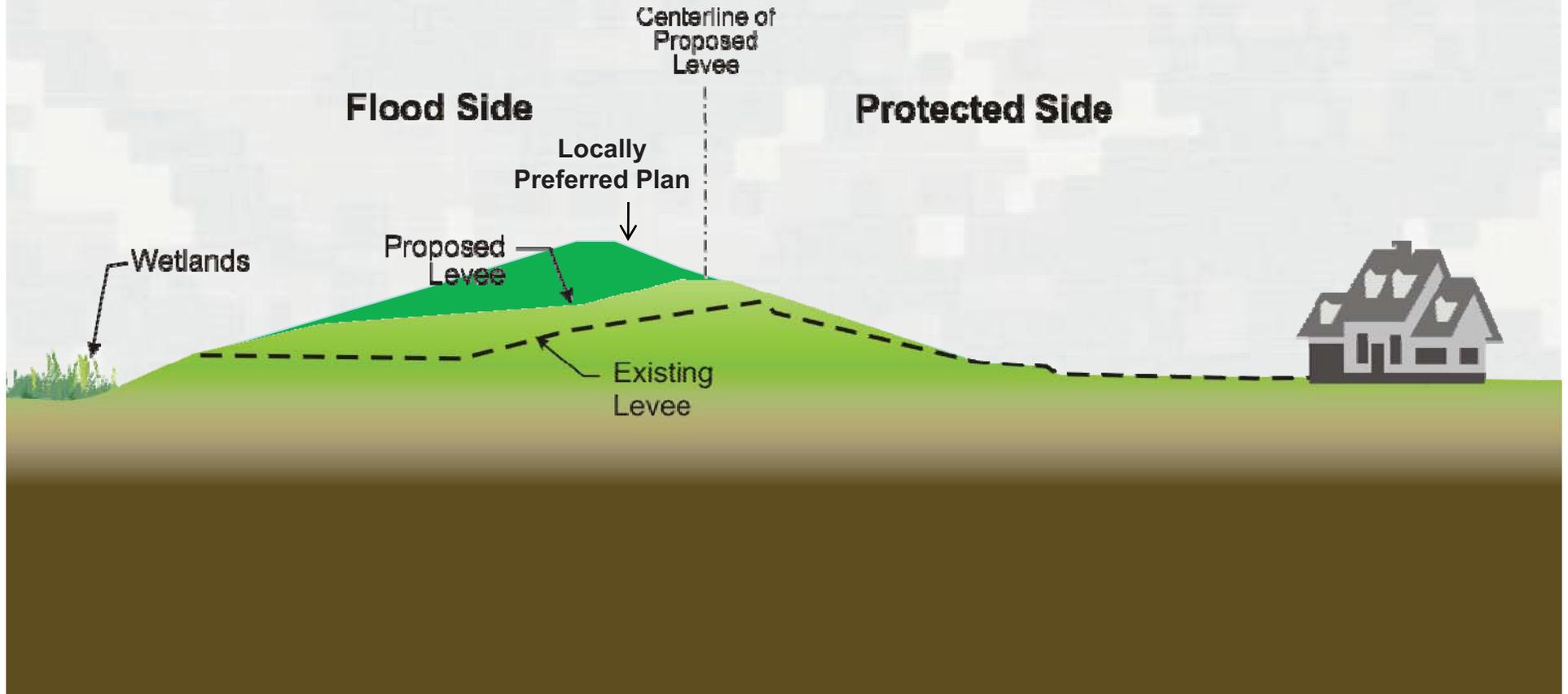
- Reach is 8 miles long
- Maximum existing heights 9 ft
- Proposed plan raises elevation to 7.5 ft to 9 ft (2 percent storm surge)
- Locally Preferred Plan raises elevation to 10.5 ft EL to 12.5 ft (1 percent storm surge)
- Reduces risk for
 - Oakville
 - Jesuit Bend
 - Ollie
 - Naomi
 - La Reussite



An earthen levee with an enlargement flood side (FS) along the existing NFL alignment. The FS shift, while impacting wetlands, is necessary due to an existing adjacent protected side canal.



Locally Preferred Plan (LPP)

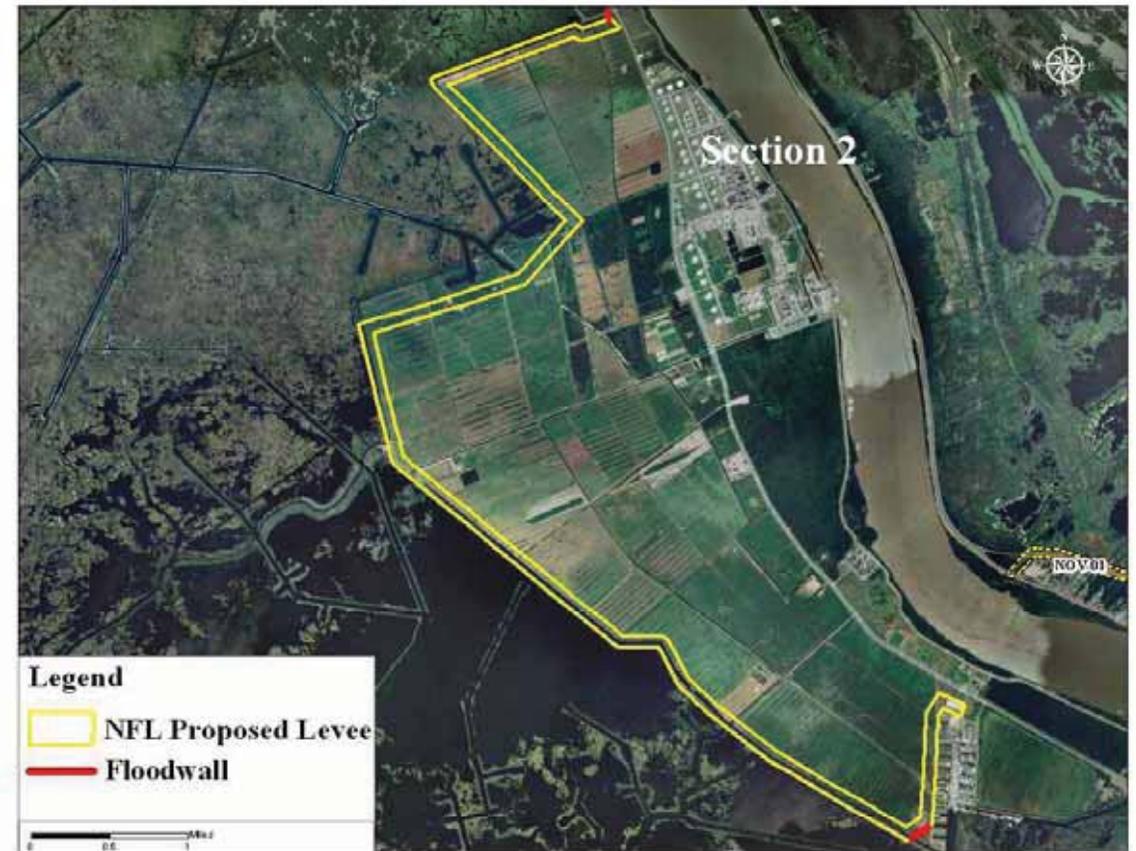


**Locally Preferred Plan raises elevation to 10.5 ft to 12.5 ft
(1 percent storm surge)**



Section 2: La Reussite to Myrtle Grove

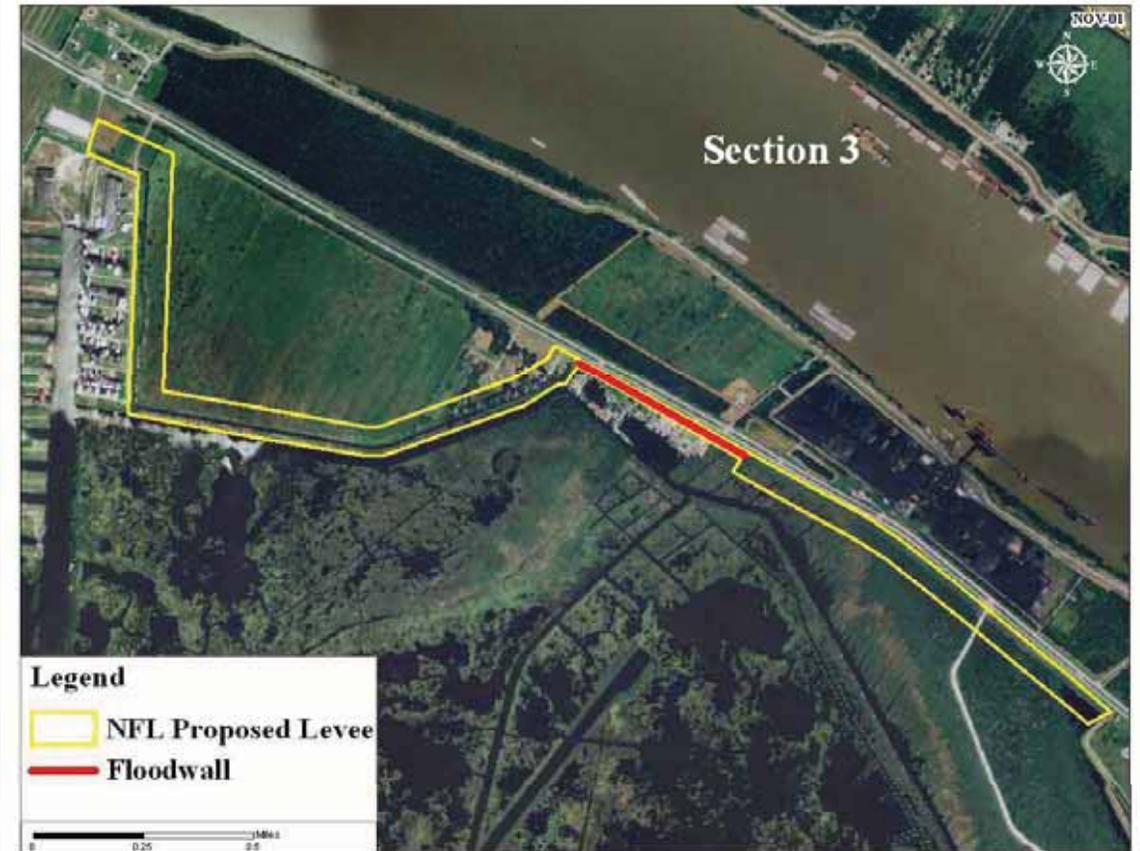
- Reach is 11 miles long
- Maximum existing heights 8 ft
- Replace Wilkerson Canal Pump Station
- Proposed plan raises elevation to 9 ft to 11 ft (2 percent storm surge)
- Conoco Phillips is a major landowner and employs ~ 700
- Reduces risk for
 - Alliance
 - Ironton
 - Myrtle Grove



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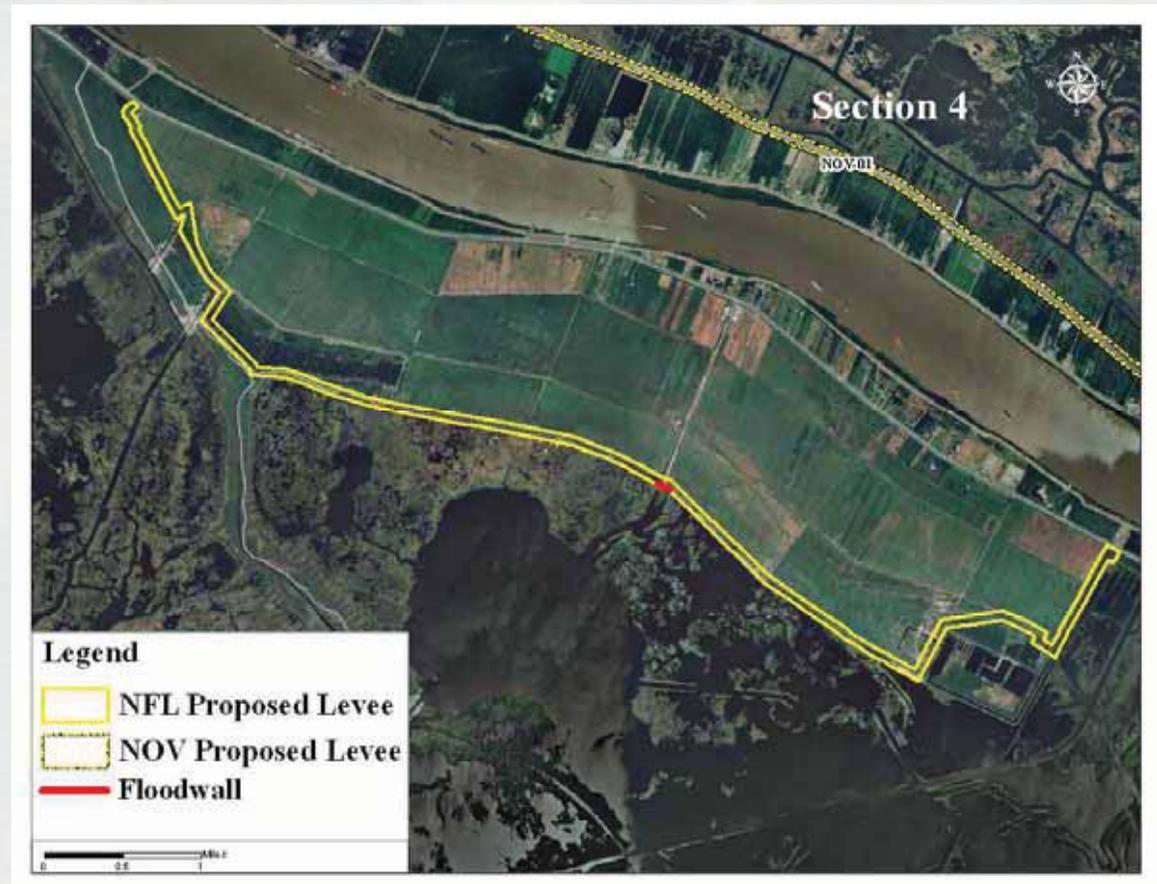
Section 3: Myrtle Grove to Citrus Lands

- Reach is 3 miles long
- Maximum existing heights elevation 6 ft
- Proposed plan raises elevation to 11.5 ft to 12 ft (2 percent storm surge)
- An earthen levee with a PS enlargement along the existing NFL alignment.
- It is possible that a tie-in to the MRL may be required near the end of Section 3, depending on the cost of construction prior to that point.
- Reduces risk for
 - Myrtle Grove



Section 4: Citrus Lands to Point Celeste

- Reach is 8 miles long
- Maximum existing heights 6 ft
- Proposed plan raises elevation to 12 ft to 13 ft (2 percent storm surge)
- Reduces risk for
 - Citrus Lands
 - Pont Celeste



Section 5: Point Celeste to St. Jude

- Reach is 3 miles long
- 1 mile of levee exists
- 2 miles of levee would be new construction
- Maximum existing heights – elevation 4 ft
- Proposed plan raise to elevation 13 ft
- Reduces risk for
 - Point Celeste
 - St. Jude



Borrow

Non-Federal Levees

- Earthen levee construction requires a specific type of clay material which compacts well and prevents seepage.
- Approximately 29,048,000 cubic yards of clay would be required to upgrade the entire Non-Federal Levee
- Approximately additional 2.4 million cubic yards would be needed for the Locally Preferred Plan
- Corps proposes to use borrow sites already identified and environmentally cleared for use in other Corps projects



New Orleans to Venice, LA (NOV) Plaquemines Parish Federal Levee Project

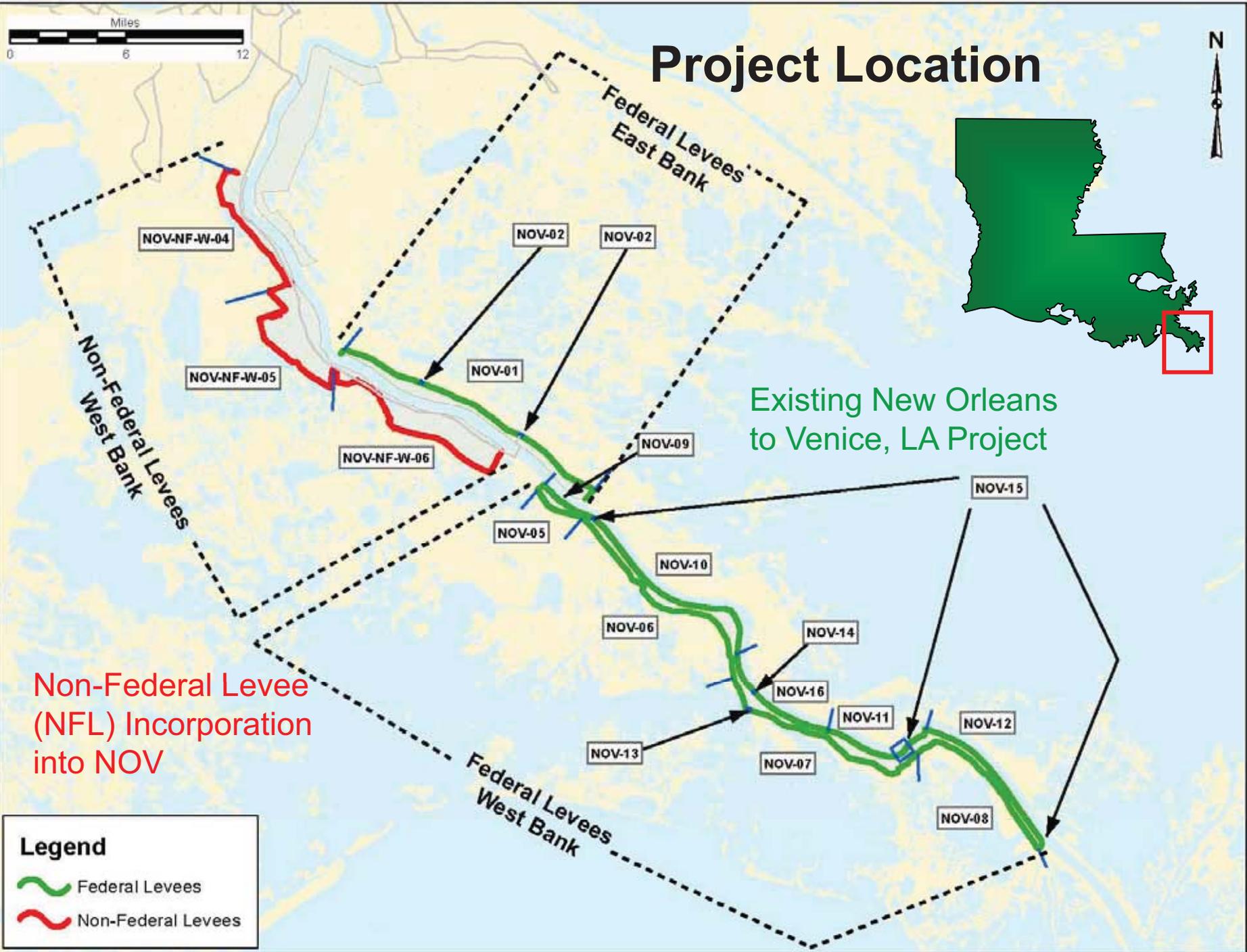
Paul Eagles, P.E.
Senior Project Manager



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Project Location



Non-Federal Levee (NFL) Incorporation into NOV

Legend

-  Federal Levees
-  Non-Federal Levees

New Orleans to Venice Authority & Funding

- **Authorized by Flood Control Act of 1962.**
- **Approximately 85 percent complete in 2005 with an estimated completion date of September 2018.**
- **Funded for \$769 million in 2006 - 2008**
 - **Includes repairs made after 2005 hurricane season**



New Orleans to Venice East Bank Back Levee and Floodwalls

NOV 01

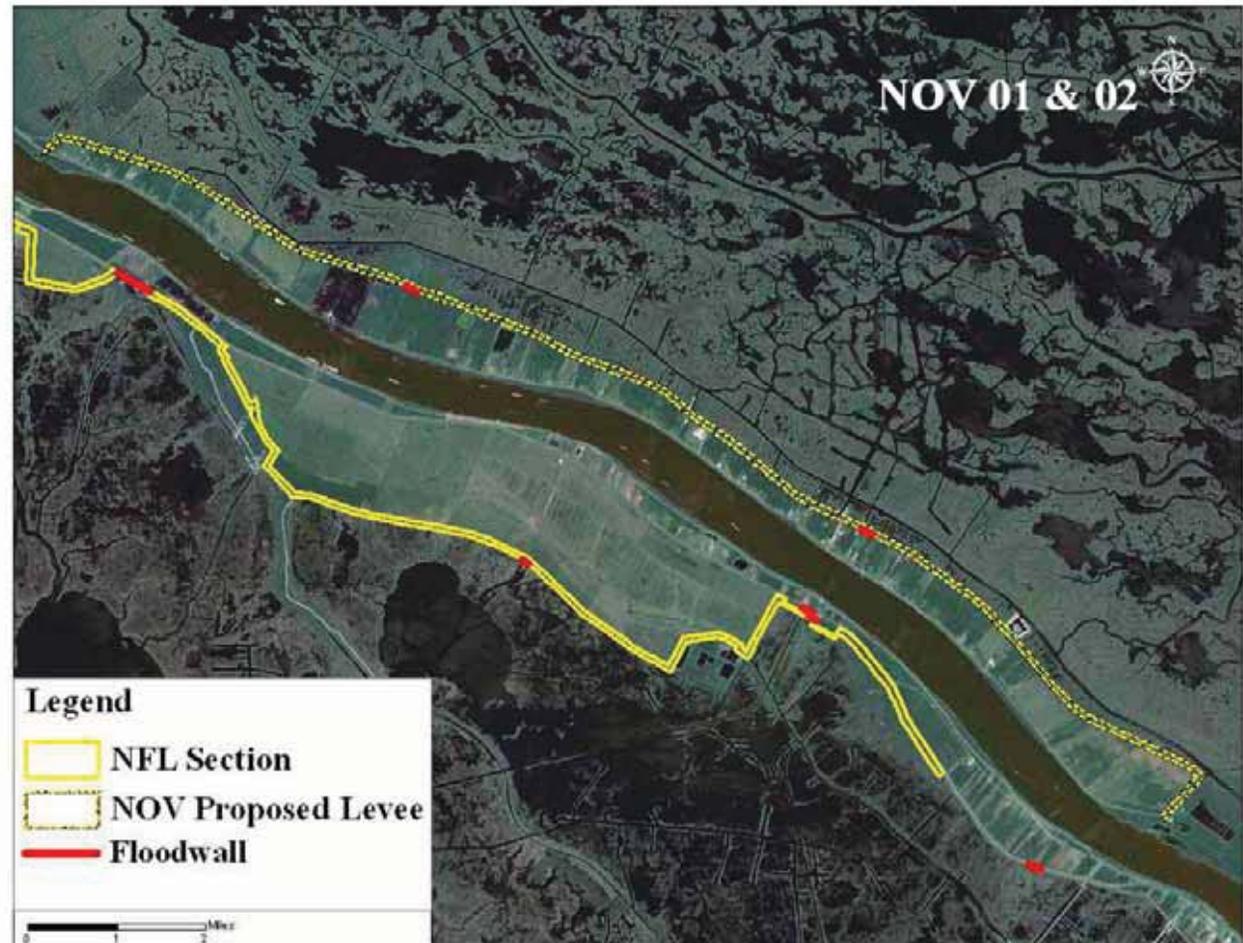
Phoenix to Bohemia

- Reach is 15.8 miles long
- Existing elevation 14-15 ft
- Proposed plan elevation 19.5 – 20.5ft

NOV 02

Fronting Protection for Bellevue and East Pointe á La Hache Pump Stations

- Fronting protection on 0.08 mile for the Bellevue and 0.05 mile for the East Pointe á La Hache floodwalls



New Orleans to Venice West Bank Back Levee

NOV 05

St. Jude to City Price

- Reach is 3.2 miles long
- Existing elevation 7-11 ft
- Proposed plan raises elevation to 13 ft
- Includes fronting protection at Diamond Pump Station



New Orleans to Venice West Bank Back Levee

NOV 06

City Price to Empire

- Reach is 12.2 miles long
- Several short sections of T-wall and I-wall on the back levee
- Existing elevation is near design grade
- Proposed plan raises elevation to 13 ft
- Includes fronting protection at Hayes and Gainard Woods Pump Stations



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New Orleans to Venice West Bank Back Levee

NOV 07

Port Sulphur to Fort Jackson

- Reach is 11.8 miles long
- Existing elevation – 11-15 ft
- Proposed plan raises elevation to 13.5 ft
- Includes fronting protection at Sunrise and Grand Liard Pump Stations



New Orleans to Venice West Bank Back Levee

NOV 08

Fort Jackson to Venice

- Reach is 8.9 miles long
- Existing elevation is near design grade
- Proposed plan is to restore stability berms, if needed
- Includes fronting protection at Duvic Pump Station



New Orleans to Venice West Bank Mississippi River Levee

NOV 09

St. Jude to City Price

- Reach is 2.5 miles long
- Existing elevation 14.5 – 17.5 ft
- Proposed plan raises elevation to 18.5 ft

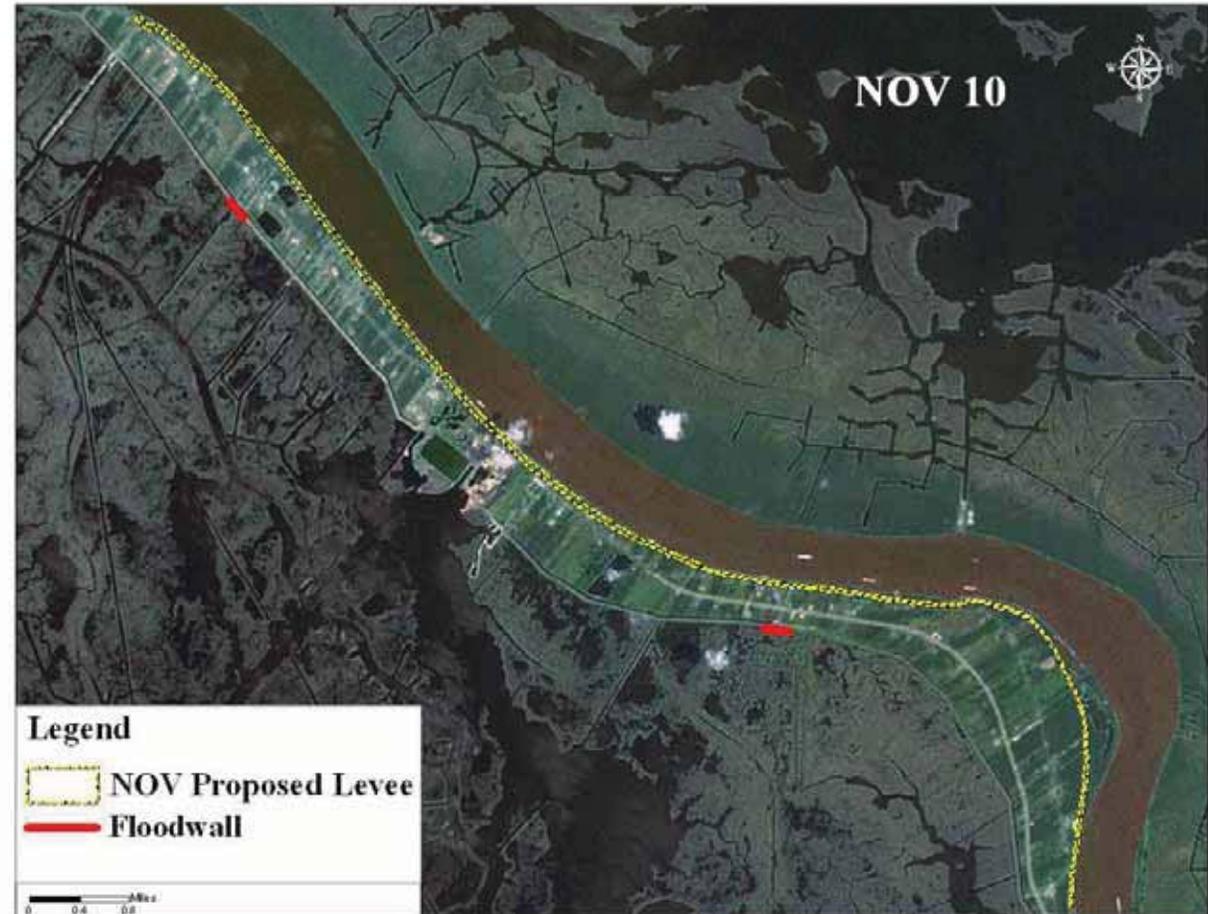


New Orleans to Venice West Bank Mississippi River Levee

NOV 10

City Price to Empire

- Reach is 12.2 miles long
- Existing elevation 14.5 – 17.5 ft
- Proposed plan raises elevation to 18 ft



New Orleans to Venice West Bank Mississippi River Levee

NOV 11

Buras to Fort Jackson

- Reach is 5.2 miles long
- Existing elevation 11-15 ft
- Proposed plan raises elevation to 17.5 ft



New Orleans to Venice West Bank Mississippi River Levee

NOV 12

Mississippi River Levee
from Fort Jackson to
Venice

- Reach is 8.2 miles long
- Existing elevation is 17 ft
- Proposed plan would restore the levee to increase the stability and widen and/or raise the stability berm if necessary



New Orleans to Venice West Bank Empire Floodgate

NOV 13

Empire Floodgate

- Existing elevation of the floodgate is 14.6 ft and the design grade is at 19.0 ft.



New Orleans to Venice West Bank Mississippi River Levee Empire Lock

NOV 14

Empire Lock

- Existing elevation is 14.6 ft
- Proposed plan would construct a new sector gate at elevation 21.5 ft within or in front of the existing lock and tie into the existing levee



New Orleans to Venice West Bank Mississippi River Levees Floodwall Replacement at Childress and Venice

NOV 15

Floodwall Replacement at Childress and Venice

- Existing elevation is 17 ft
- Proposed plan would replace the floodwalls at Childress with earthen levee
- Proposed plan would replace the existing floodwall in Venice with a new concrete T-wall



New Orleans to Venice West Bank Mississippi River Levee

NOV 16

Mississippi River Levee
in Buras area

- Reach is 6.6 miles long
- Existing elevation is 17 ft
- Proposed plan raises elevation to 18 ft



Borrow

New Orleans to Venice

- **Approximately 22,946,000 cubic yards of clay would be required to upgrade the entire Federal Levee**
- **Corps proposes to use borrow sites already identified and environmentally cleared for use in other Corps projects**



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

- New Orleans to Venice Supplemental Environmental Impact Statement
 - Public review through May 8, 2011

- Comments on IERs may be submitted by:
 - Calling 504-862-1544
 - E-mailing mvnenvironmental@usace.army.mil
 - Or at any time at www.nolaenvironmental.gov



Upcoming Public Meetings

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.



Comments on Non-Federal and New Orleans to Venice EIS/SEIS May Be Submitted to:

U.S. Army Corps of Engineers
Mr. Christopher Koepfel
4155 East Clay Street
Vicksburg, MS 39183
Telephone: (601) 631-5410
E-mail: Christopher.D.Koepfel@usace.army.mil

- Comments on the Non-Federal Levees are due April 18, 2011
- Comments on the New Orleans to Venice project are due by May 8, 2011





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.

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.

flickr



Explore...

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>

