

Plaquemines Parish Risk Reduction

Plaquemines Parish New Orleans to Venice (NOV) & Non-Federal Levee (NFL) Project Status and Mitigation Scoping Meeting

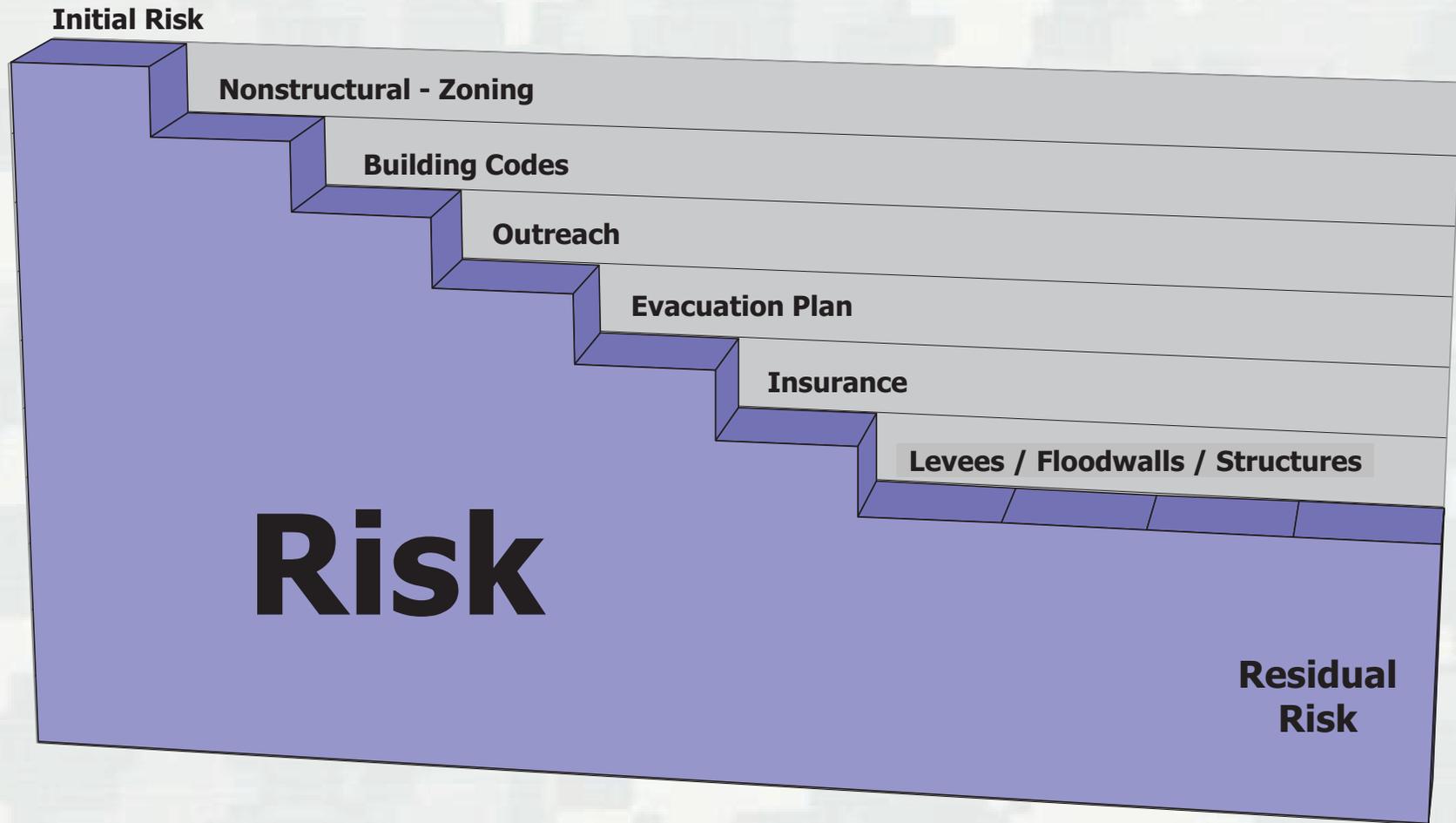
Public Meeting
May 31, 2012
Woodland Plantation



US Army Corps of Engineers
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Risk – Shared Responsibility



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Meeting Agenda

- **Discuss Mitigation Program Objectives**
- **Review Mitigation Project Status**
- **Provide a project update for New Orleans to Venice (NOV) & Non-Federal Levee (PPNFL) projects**
- **Discuss Mitigation Requirements**
- **Allow community to propose mitigation sites**

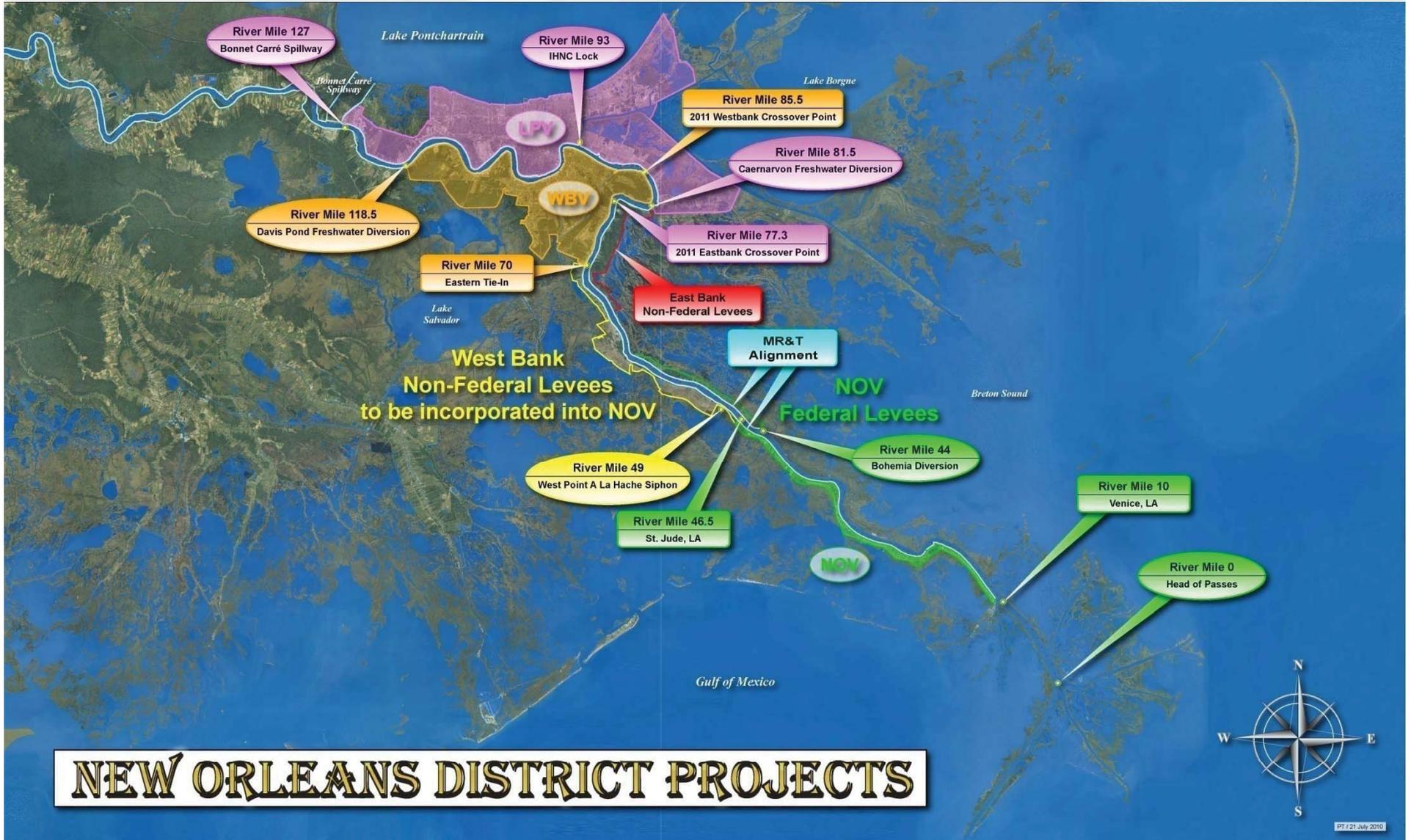


National Environmental Policy Act (NEPA)

- 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!



Plaquemines Parish Risk Reduction



NEW ORLEANS DISTRICT PROJECTS

PT / 21-July 2010

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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

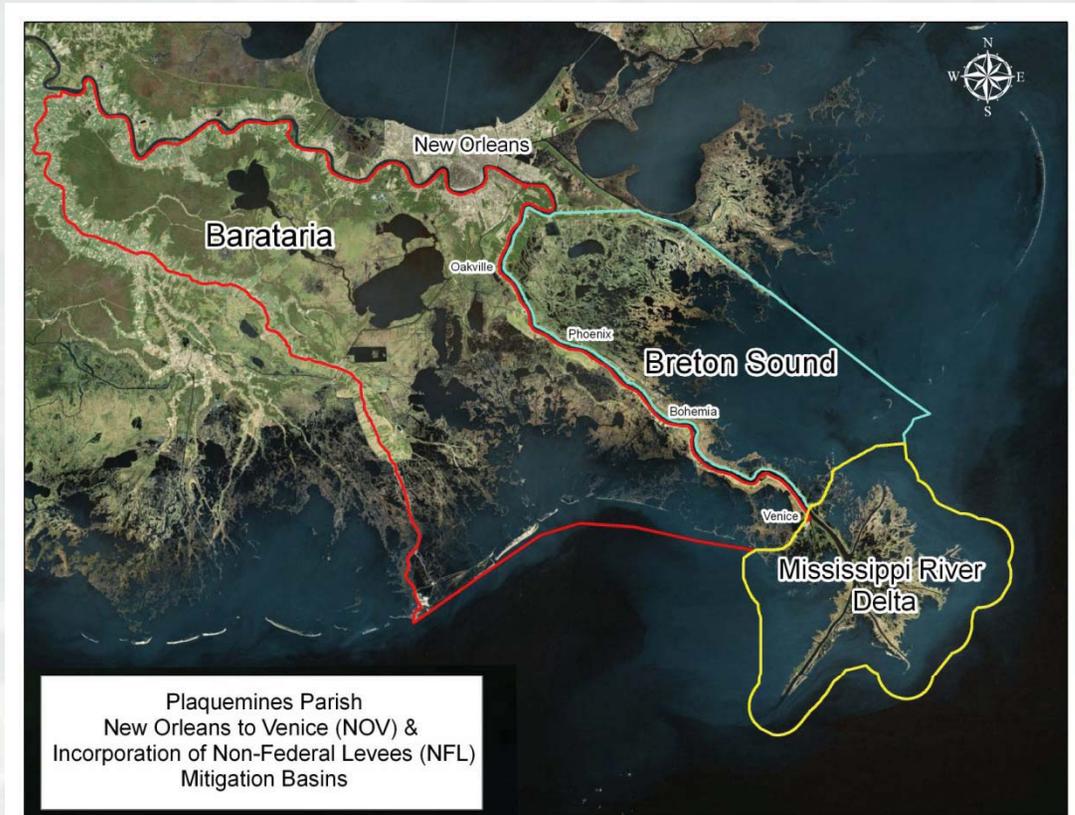


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Mitigation Policies

Generally, mitigation would occur:

- As close as possible to the impacted area
- Within the same hydrologic basin (Barataria, Breton Sound, Mississippi River Delta)
- Within same habitat type
 - Bottomland hardwood
 - Swamp
 - Fresh/Intermediate marsh
 - Saline/Brackish marsh



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Affected Habitat



Bottomland Hardwoods Wet/Dry



Bottomland Hardwoods Dry



Saline Marsh



Intermediate Marsh



Fresh Marsh



Swamp



Brackish Marsh



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Total NOV/NFL Impacts

New Orleans to Venice and Plaquemines Parish Non-Federal Levee projects
Current Estimated Impacts

| Habitat Type | Quantity (acres) | Quality (AAHUs*) | Mitigation Acres |
|---------------------------|------------------|------------------|------------------|
| Bottomland Hardwood Wet | 40 | 27 | 50 |
| Bottomland Hardwood Dry | 9 | 6 | 11 |
| Swamp | 25 | 21 | 44 |
| Fresh Marsh / Wet Pasture | 84 | 33 | 120 |
| Intermediate Marsh | 1 | 0.4 | 1.5 |
| Brackish Marsh | 9 | 5 | 20 |
| Saline Marsh | 108 | 77 | 287 |
| Total | 279 | 171 | 533 |

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



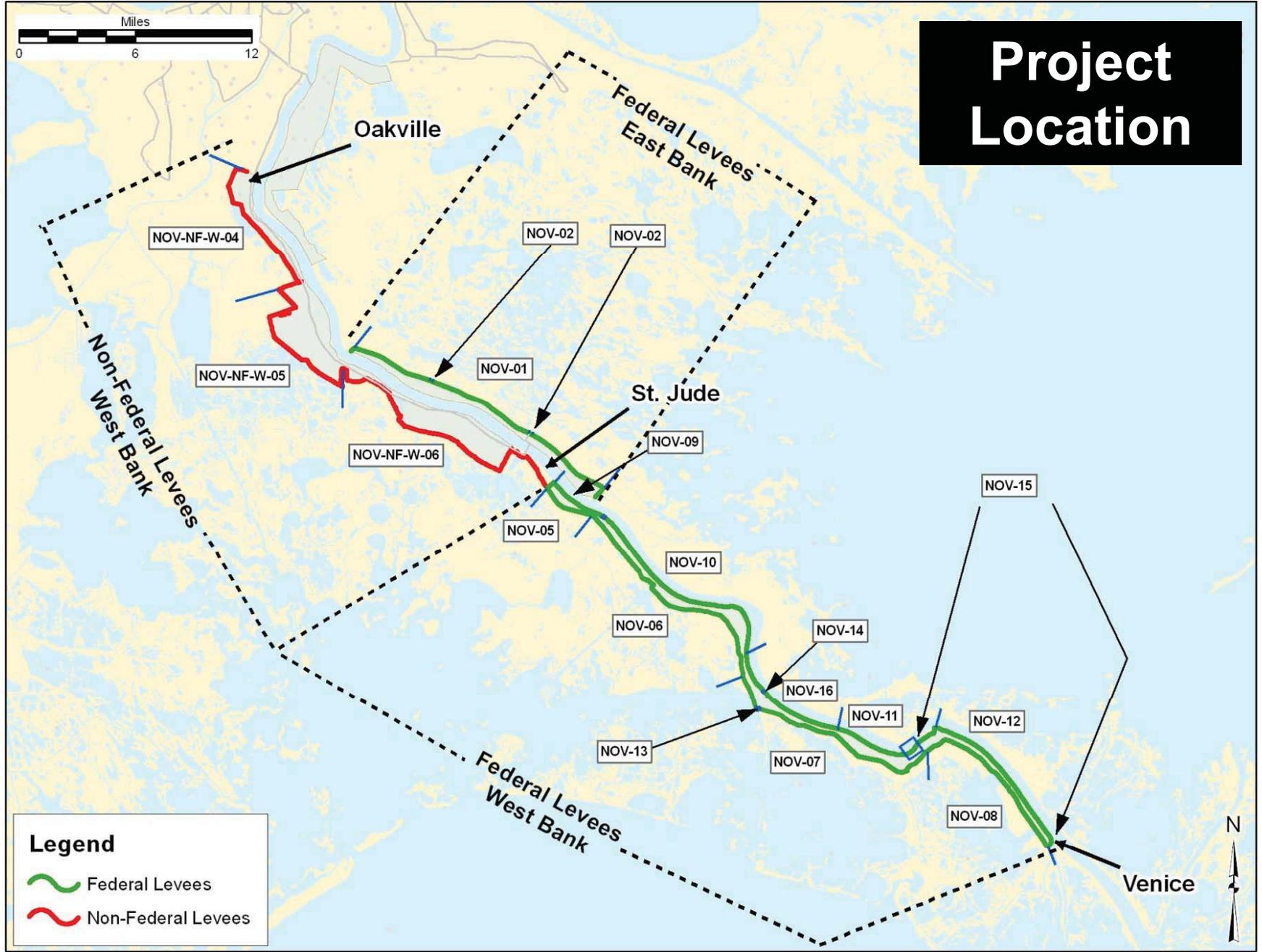
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Plaquemines Parish Non-Federal Levee Project



US Army Corps of Engineers
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Project Location



Authority & Funding

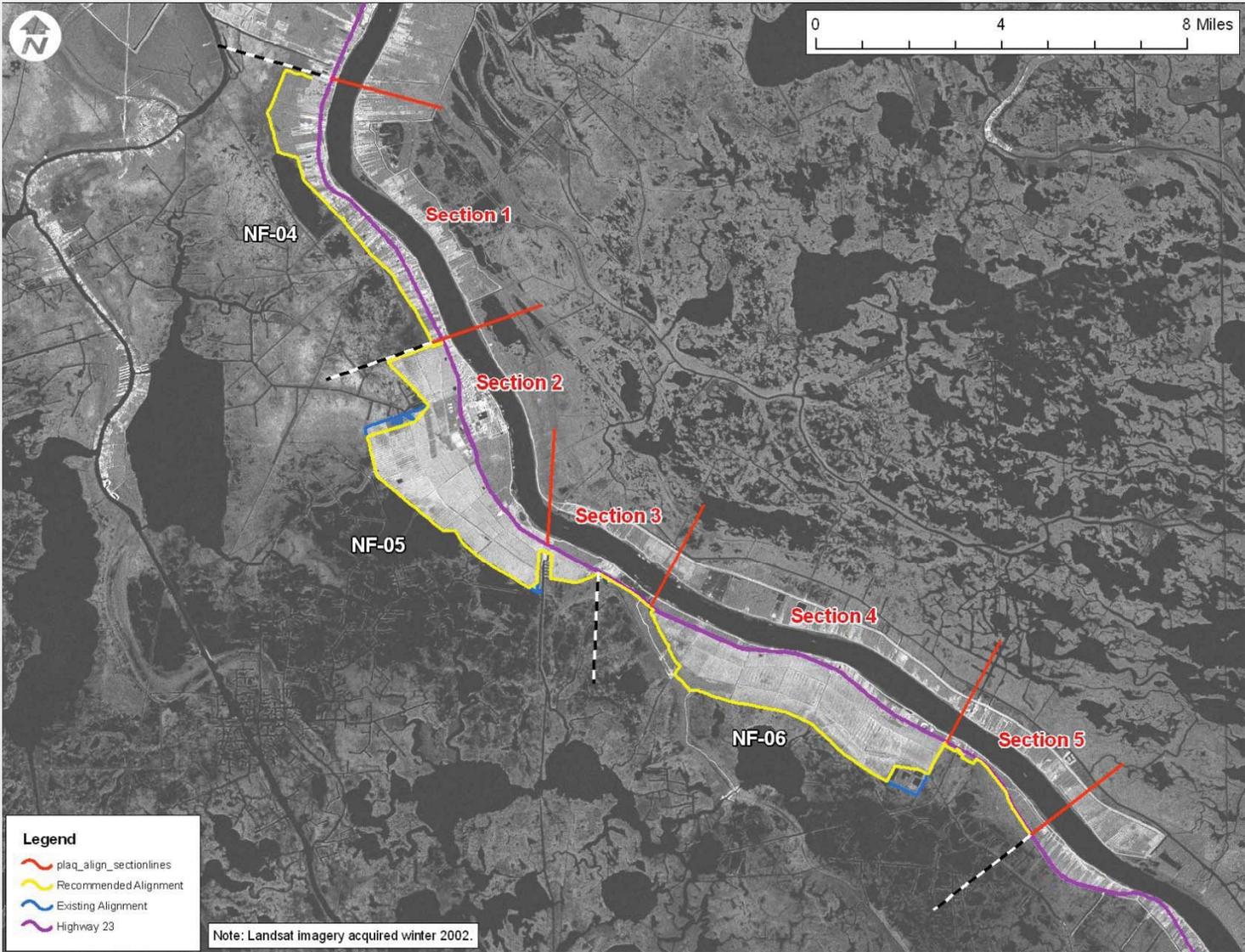
Non-Federal Levees

- Funded for \$671 million as part of Emergency Supplemental Appropriations
 - Includes mitigation



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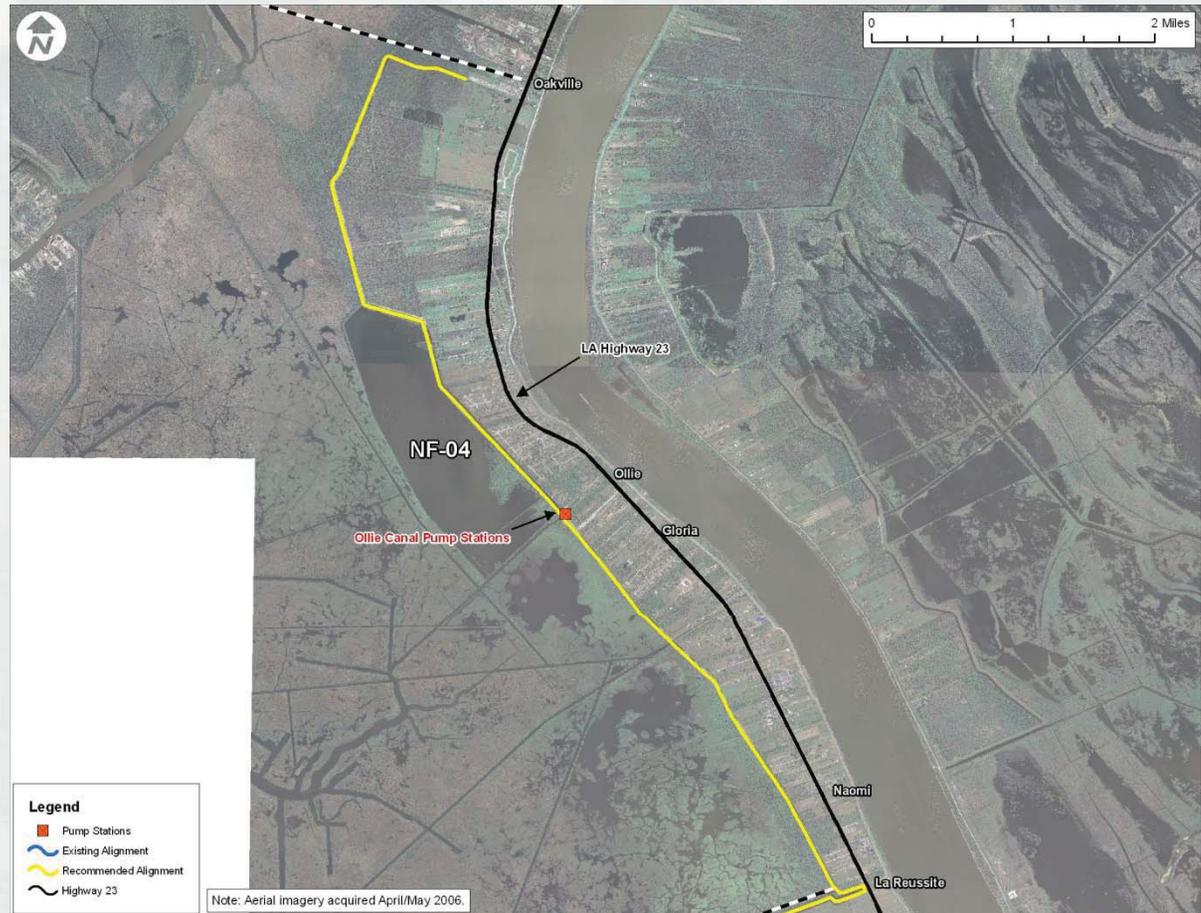
Selected Plan



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NF-04: Oakville to La Reussite

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



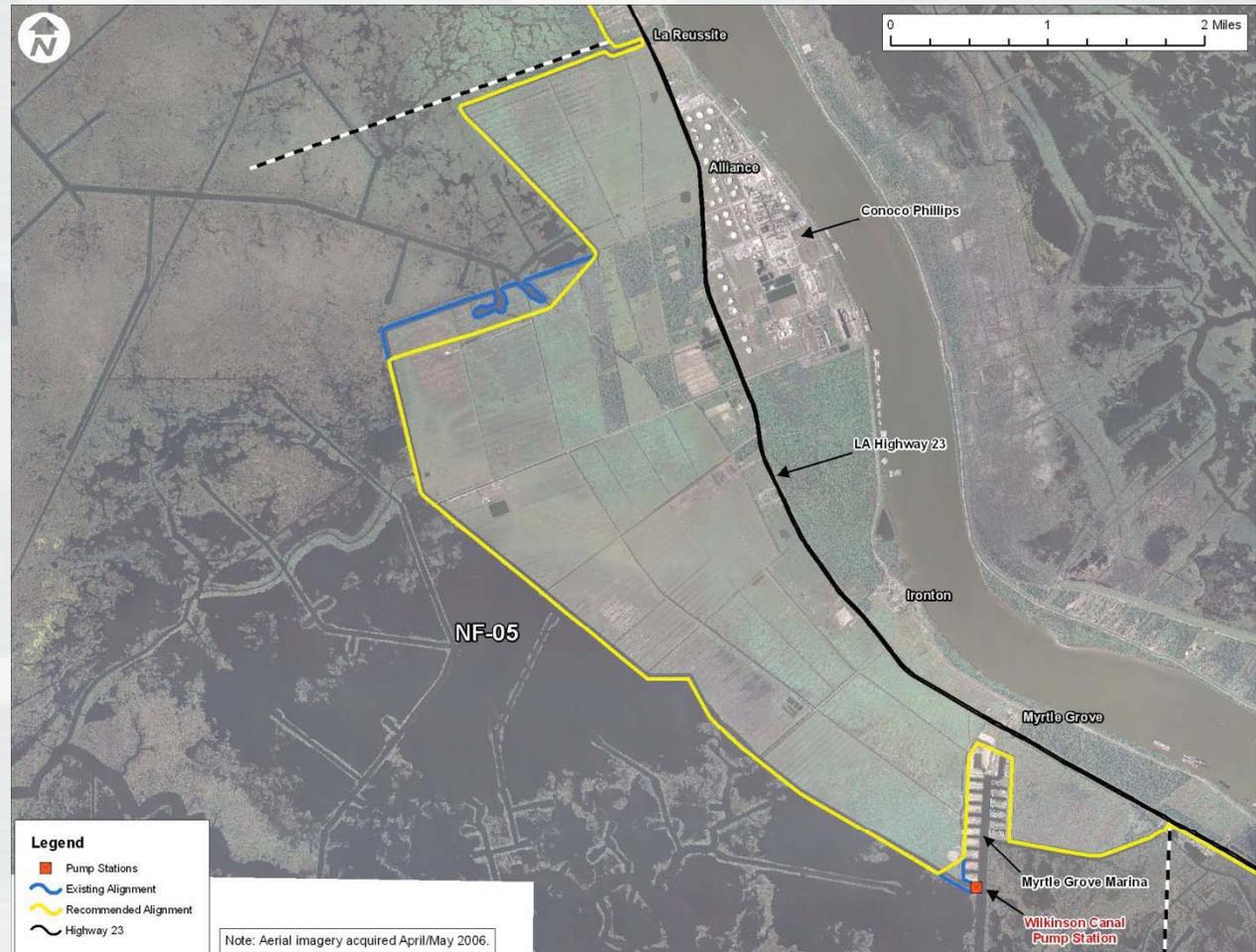
An earthen levee with an enlargement flood side (FS) along the existing NFL alignment. The FS shift, while impacting wetlands, is necessary due to an existing adjacent protected side canal.



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NF-05: La Reussite to Myrtle Grove

- Reach is 11 miles long
- Maximum existing heights EL 8 ft
- Replace Wilkerson Canal Pump Station
- Proposed plan raises to EL 9 ft to 11.5 ft (2 percent storm surge)
- Phillips 66 Alliance Refinery is a major landowner and employs ~ 700
- Reduces risk for:
 - Alliance
 - Ironton



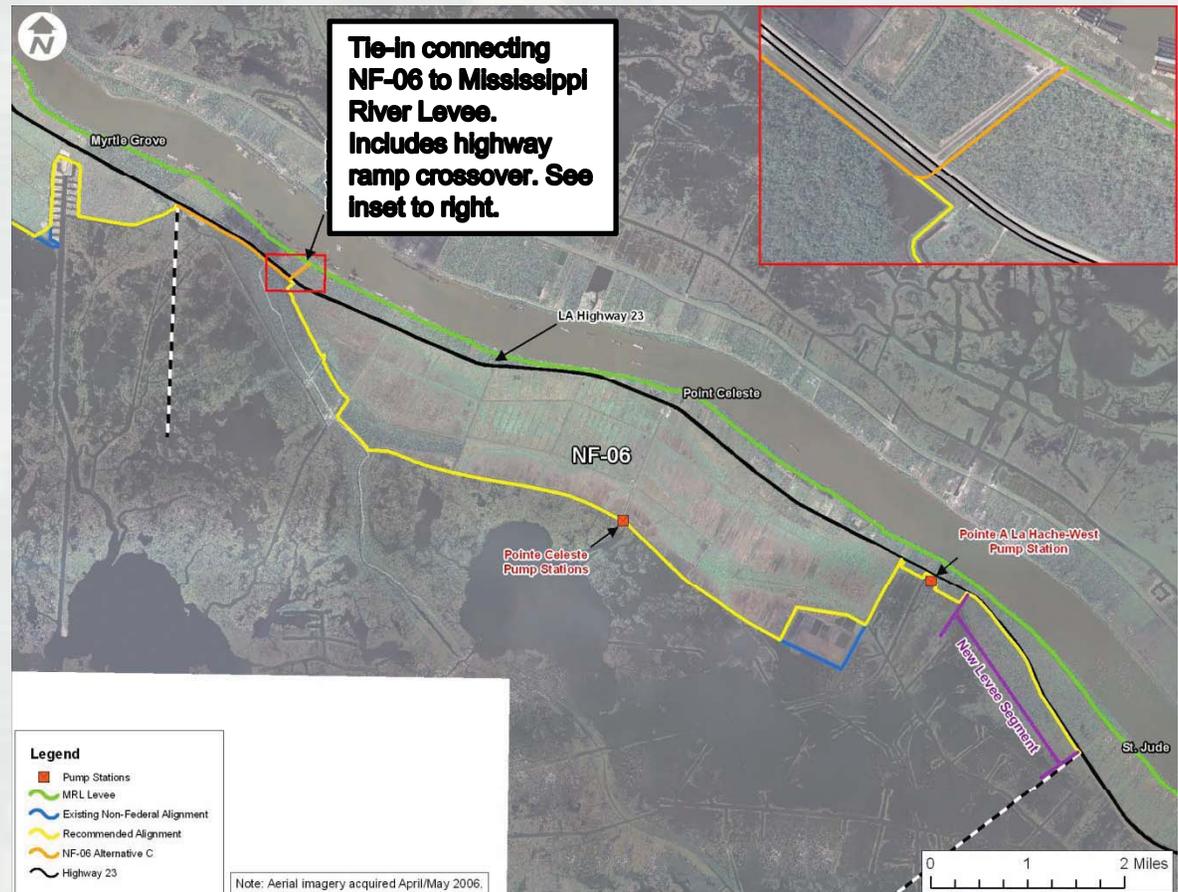
An earthen levee with a protected side (PS) enlargement along the existing NFL alignment except in one area where deep channels form sharp and unusual bends in the existing NFL alignment and a PS shift would have been unacceptable from an engineering perspective.



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NF-06: Myrtle Grove to St Jude

- Reach is 14 miles long
- Maximum existing heights EL 6 ft
- Proposed plan raises to EL 12 ft (2 percent storm surge)
- A floodwall with a tie-in to the MRL levee is proposed

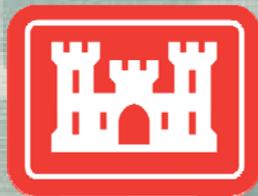


An earthen levee with an enlargement flood side (FS) along the existing NFL alignment. The FS shift, while impacting wetlands, is necessary due to an existing adjacent protected side canal.



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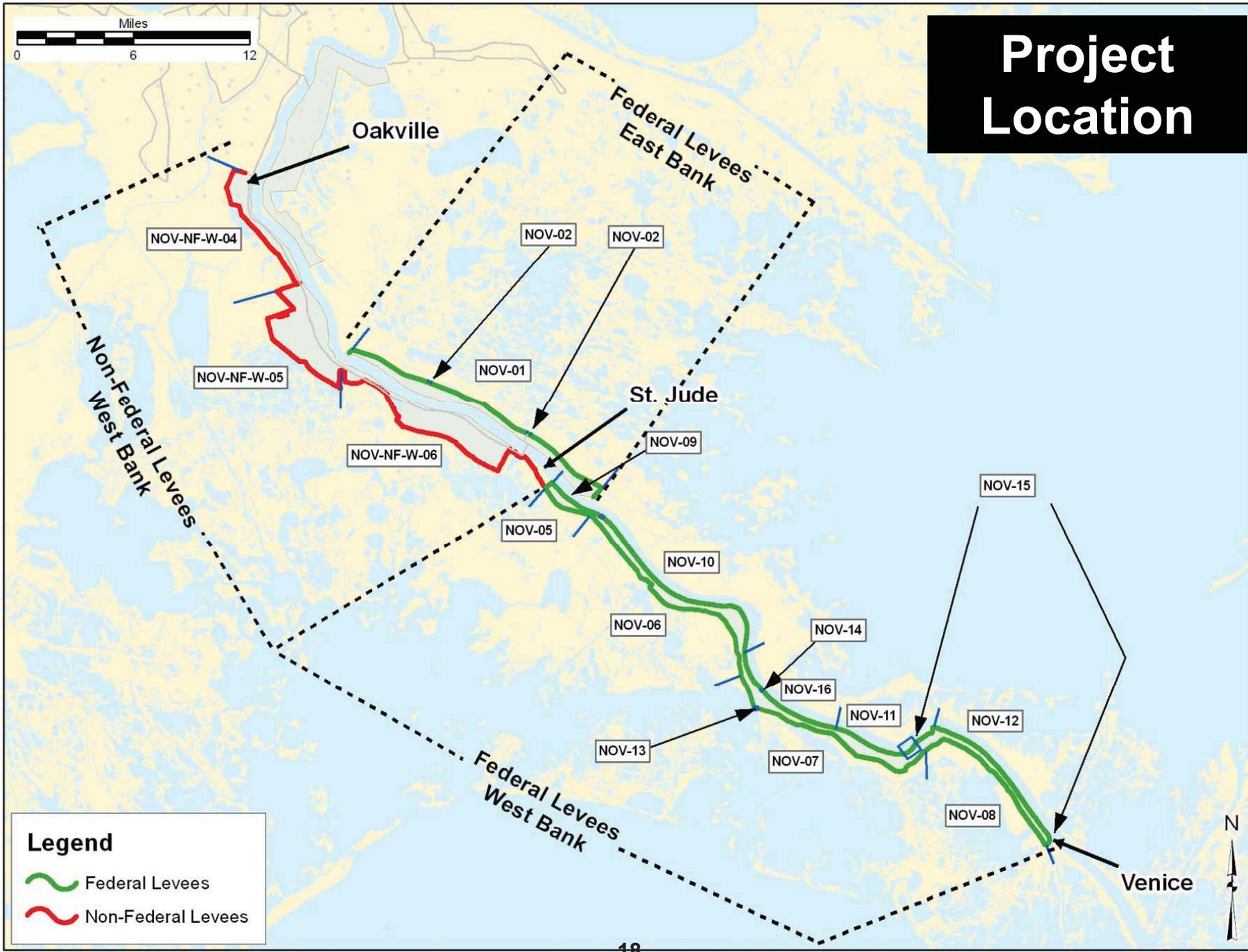
New Orleans to Venice, LA (NOV) Plaquemines Parish Federal Levee Project



US Army Corps of Engineers
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Project Location



Authority & Funding

New Orleans to Venice

- Authorized by Flood Control Act of 1962.
- Approximately 85 percent complete in 2005 with an estimated completion date of September 2018.
- Funded for \$786 million as part of Emergency Supplemental Appropriations
 - Includes repairs made after 2005 hurricane season

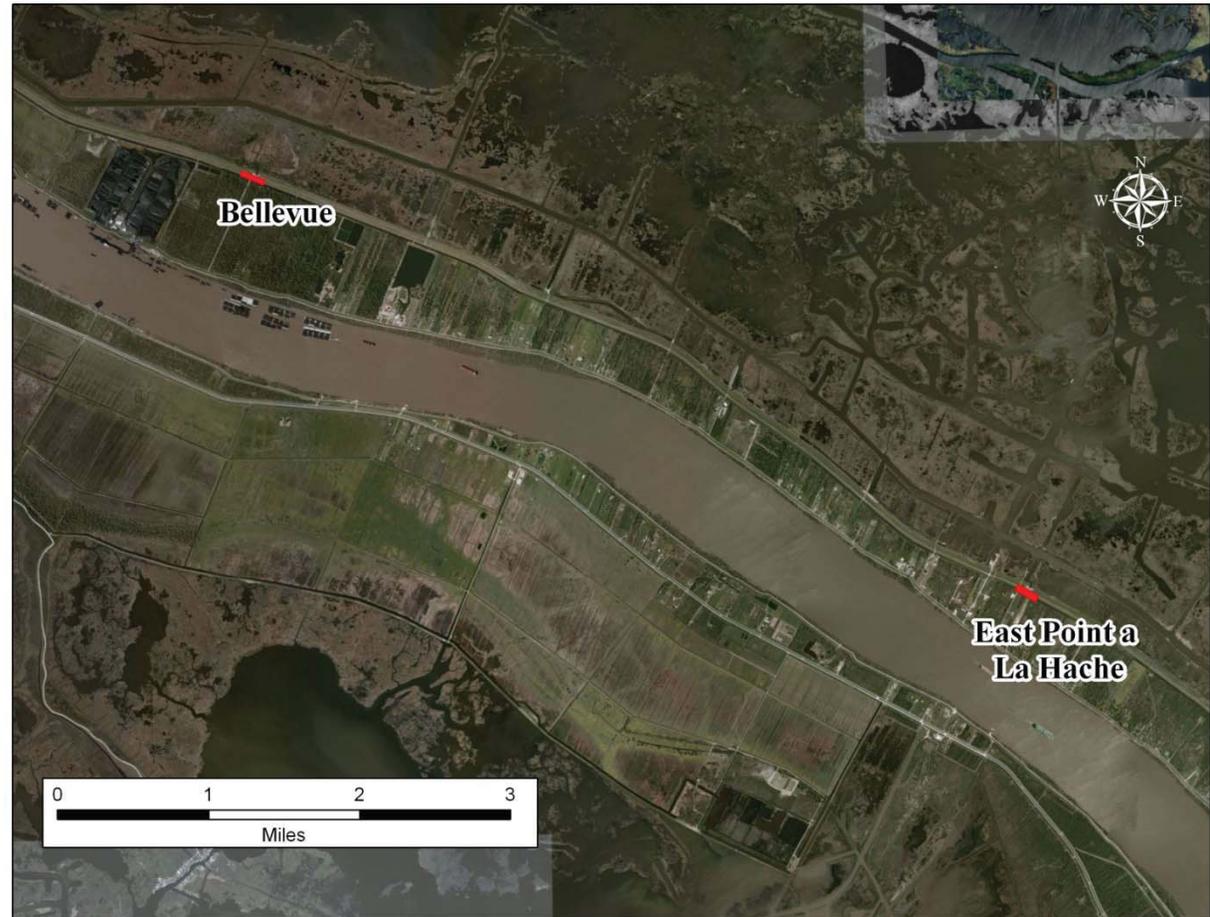


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New Orleans to Venice Eastbank Floodwalls

NOV 02

- Fronting Protection for Bellevue and East Pointe à La Hache Pump Stations
- Fronting protection on 0.08 mile for the Bellevue and 0.05 mile for the East Pointe à La Hache floodwalls



Fronting protection features will be constructed for Bellevue and East Pointe à La Hache pump stations.



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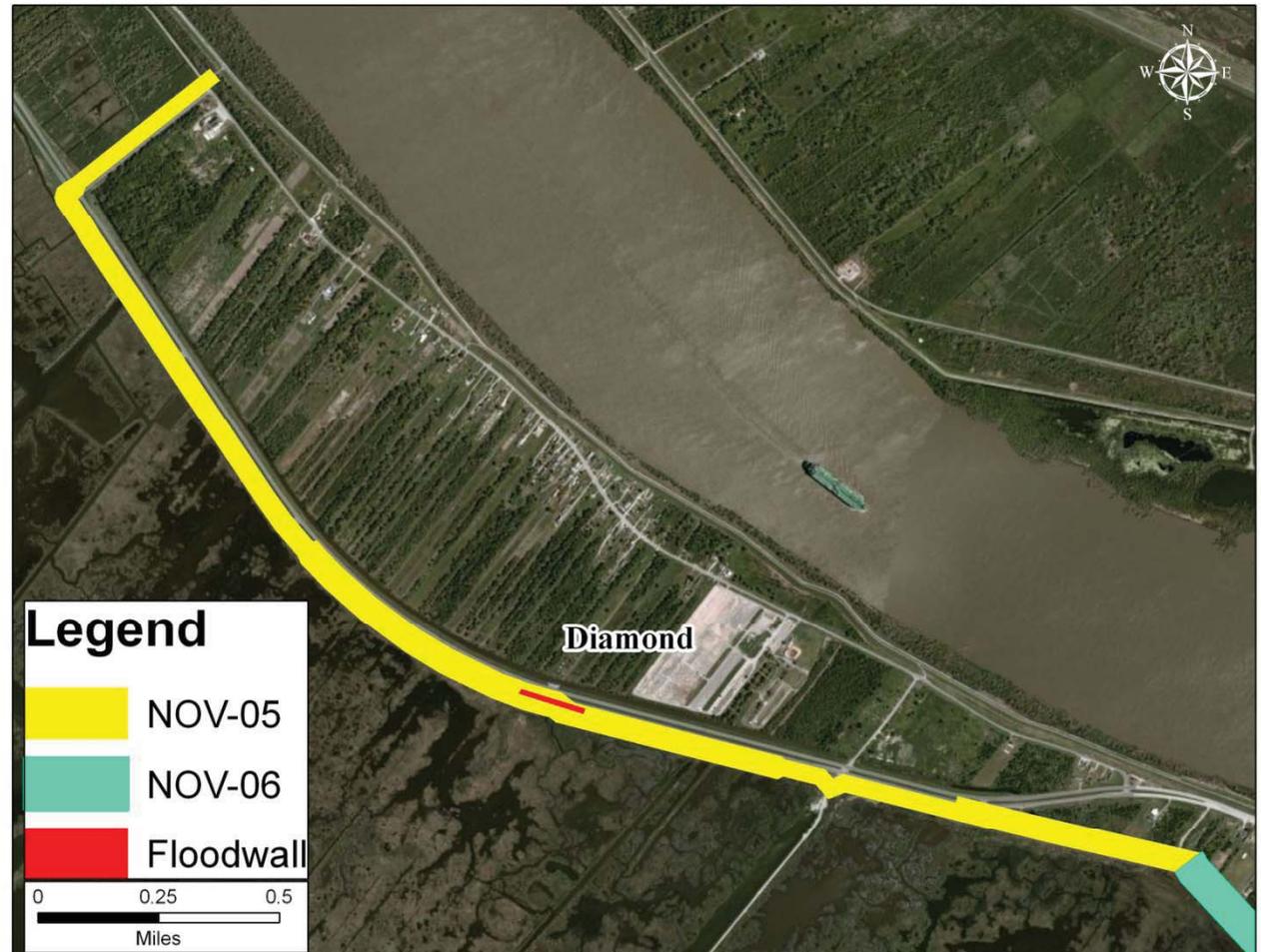
New Orleans to Venice Westbank Back Levee

NOV 05

St. Jude to City

Price:

- Reach is 3.2 miles long
- Existing EL 7 to 11 ft
- Proposed plan raises to EL13 ft
- Includes fronting protection at Diamond Pump Station



Earthen levee will be raised to EL13 ft and fronting protection features will be constructed at the Diamond Pump Station.



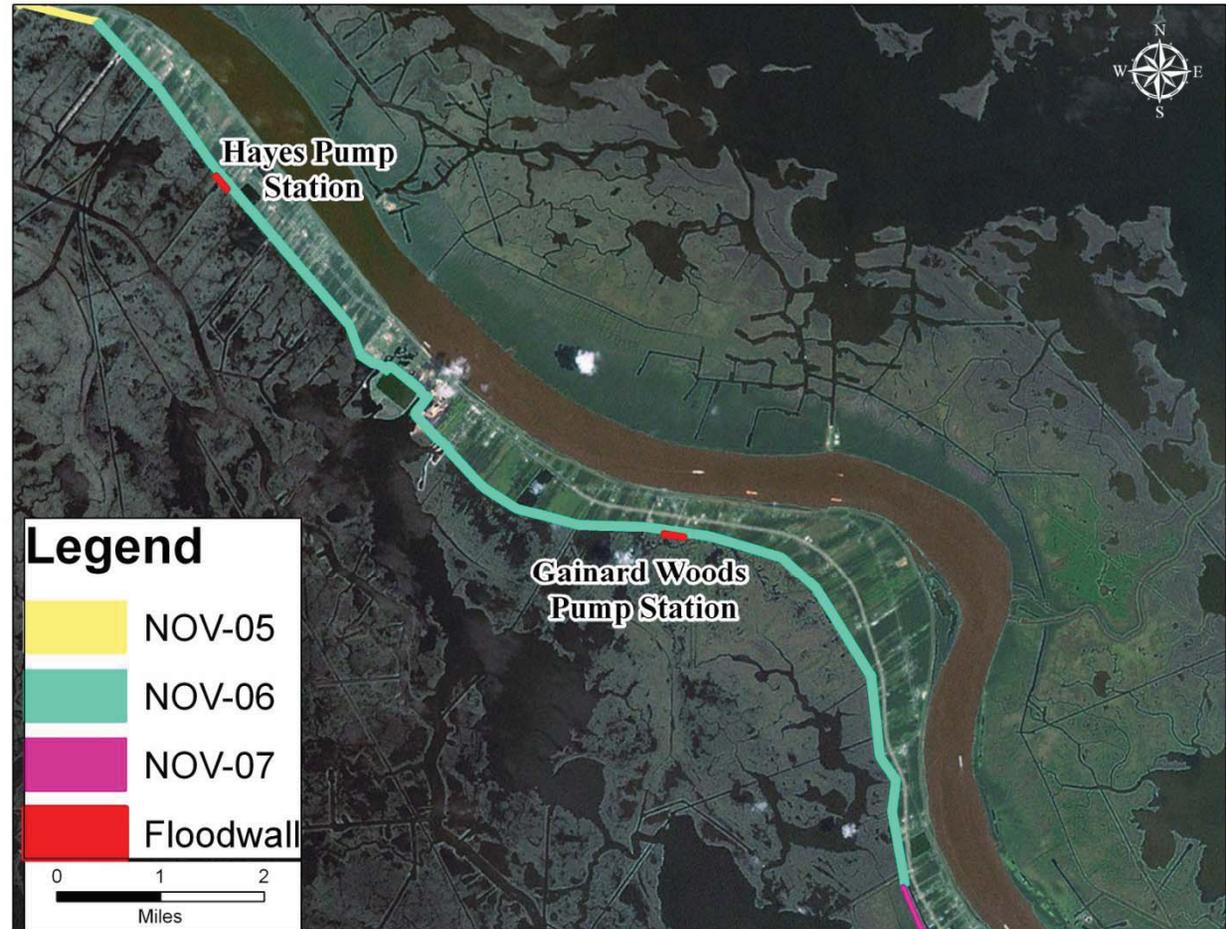
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New Orleans to Venice Westbank Back Levee

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 (EL 13 ft)
- Proposed plan raises levee to EL13 ft
- Includes fronting protection at Hayes and Gainard Woods pump stations



Earthen levee will be raised to EL13 ft and fronting protection features will be constructed at the Hayes and Gainard Woods Pump Stations.



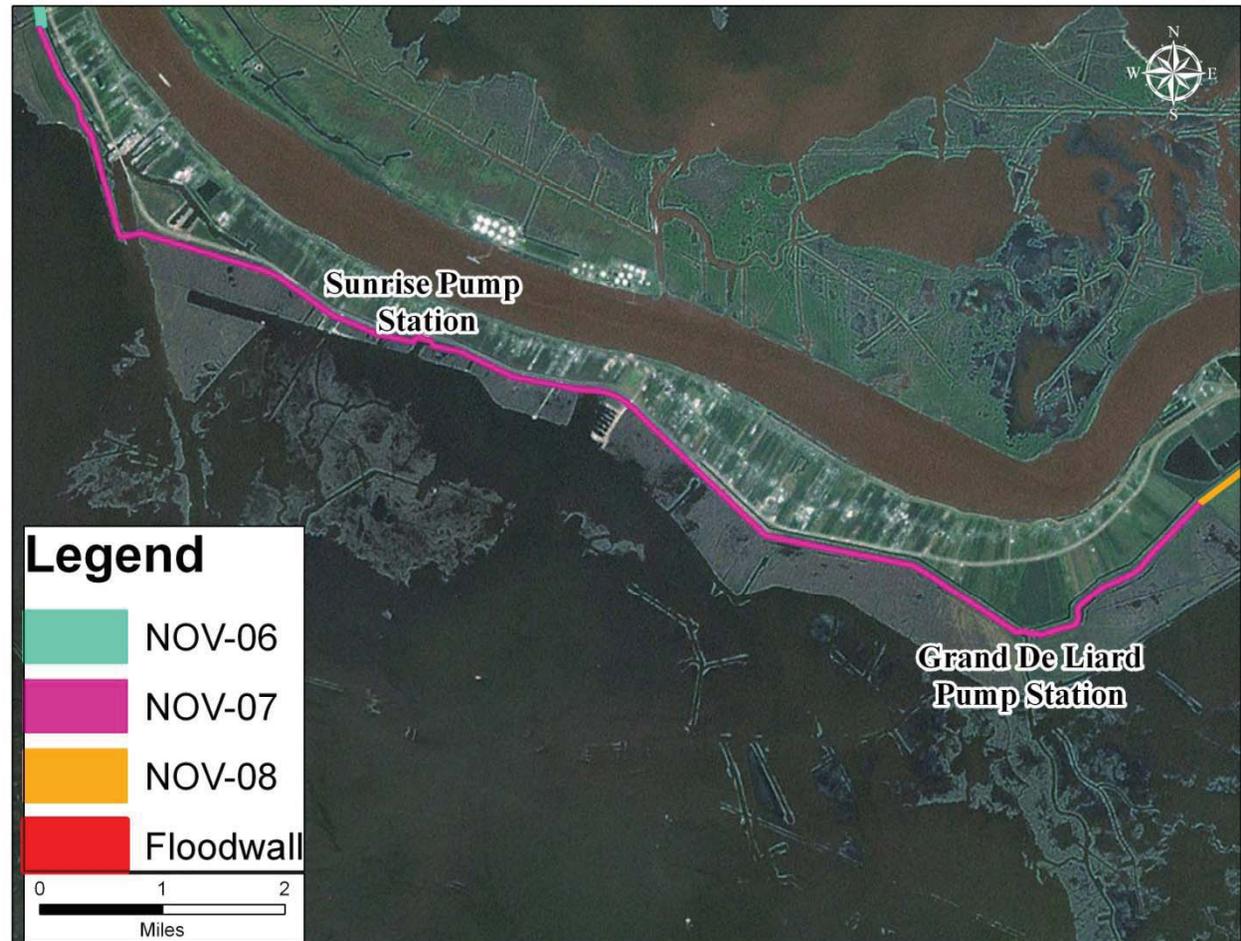
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New Orleans to Venice Westbank Back Levee

NOV 07

Port Sulphur to Fort Jackson:

- Reach is 11.8 miles long
- Existing EL 11 to 15 ft
- Proposed plan raises levee to EL13.5 ft
- Includes fronting protection at Sunrise and Grand Liard pump stations



Earthen levee will be raised to EL13.5 ft and fronting protection features will be constructed at the Sunrise and Grand DeLiard Pump Stations.



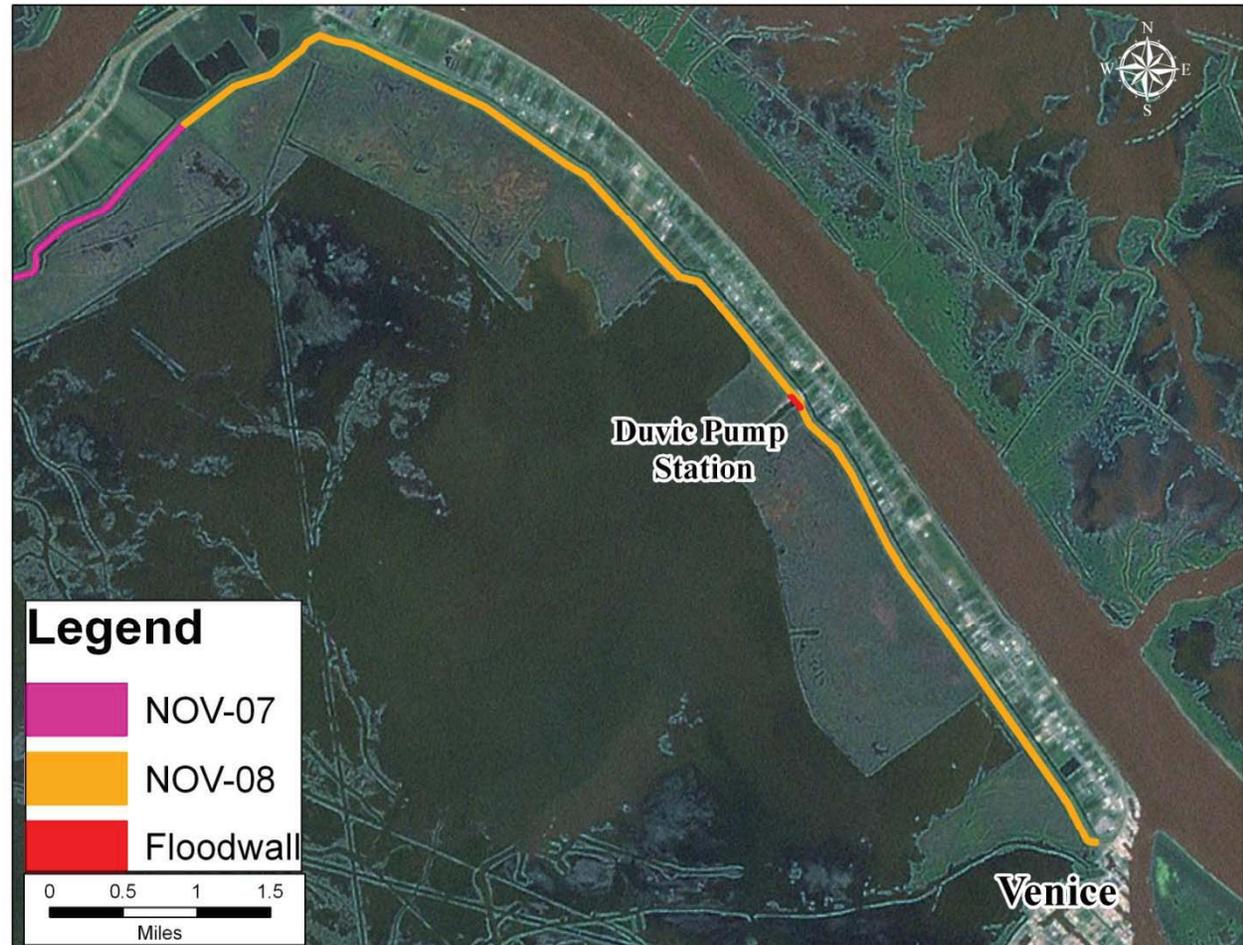
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New Orleans to Venice Westbank Back Levee

NOV 08

Fort Jackson to
Venice:

- Reach is 8.9 miles long
- Existing elevation is near design grade (EL 13.5 ft)
- Proposed plan is to restore stability berms, if needed
- Includes fronting protection at Duvic Pump Station



Earthen levee will be raised to EL13.5 ft and fronting protection features will be constructed at the Duvic Pump Station.



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New Orleans to Venice Westbank Empire Floodgate

NOV 13

Empire
Floodgate:

- Existing floodgate is EL 14.6 ft and the design grade is EL 19 ft



Empire Floodgate will be raised to EL 19 ft.



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New Orleans to Venice Westbank Mississippi River Levee Empire Lock

NOV 14

Empire Lock

- Existing is EL14.6 ft
- Proposed plan would construct a new sector gate at EL 21.5 ft within or in front of the existing lock and tie into the existing levee



New sector gate at Empire Lock will be constructed to EL 21.5 feet with a tie-in to the existing Mississippi River Levee.



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NOV/NFL Tentative Timeline

| <u>Milestones</u> | <u>NOV</u> | <u>NFL</u> |
|---|------------|------------|
| • Draft SEIS/EIS to Public | Mar 2011 | Feb 2011 |
| • Sign Record of Decision | Oct 2011 | Oct 2011 |
| • Execute Project Partnership Agreement | Jun 2012 | Jun 2012 |
| • Advertise 1 st Contract | Jul 2012 | Jul 2012 |
| • Award 1 st Contract | Aug 2012 | Aug 2012 |
| • Construction Complete (Last Contract) | 2016 | 2017 |



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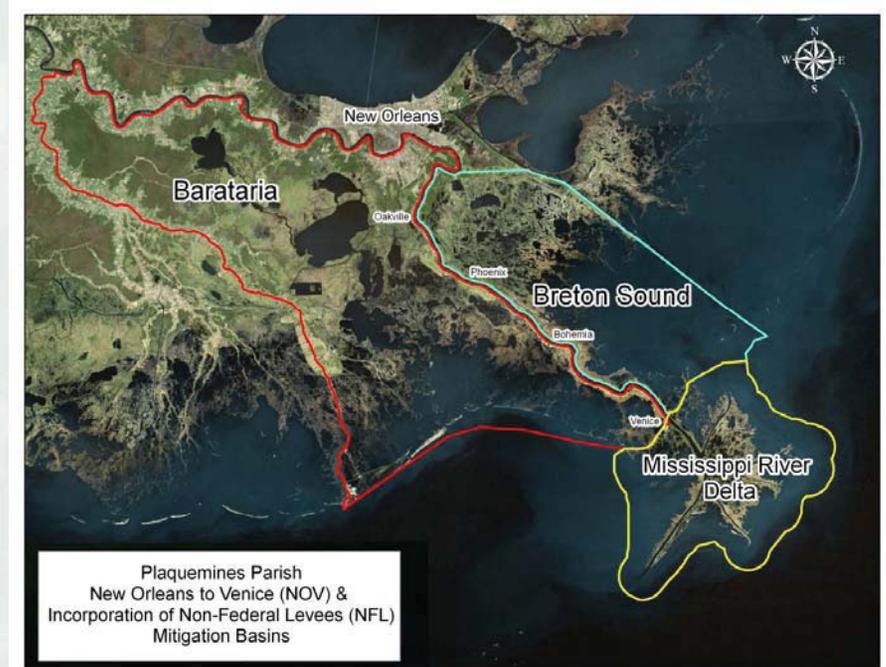
*AAHU (Average Annual Habitat Unit) is a numerical value representing the quality of a habitat.



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Mitigation Criteria

- Sites located within NOV/NFL Mitigation Basin (Barataria, Breton Sound, Mississippi River Delta)
- Sites that you feel “should be” or “need to be restored”
- Sites that are currently owned by “willing sellers”
- Sites that are at least 100 acres in size unless adjacent to existing State or Federally Managed
- Sites that are identified in the State’s 2012 Coastal Master Plan
- Mitigation banks are under consideration



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Mitigation Criteria

Bottomland Hardwood / Swamp Sites

- Agricultural lands (pastures, fields, fruit trees, etc)
- Areas that could be classified as wetlands
- Swamp sites can exist on protected or unprotected side
- Bottomland Hardwood sites on protected side are preferred due to salinity concerns



Bottomland Hardwoods Wet/Dry



Bottomland Hardwoods Dry



Swamp

Mitigation Criteria

Marsh Sites

- Open Water Habitats on the unprotected side of back levees
- Historical marsh sites that have subsided or were washed away by storm surges
- All salinity ranges will be considered
- Marsh creation favored over marsh nourishment
- Sites near construction impacts are welcomed



Mitigation Tentative Timeline

- Initial Screening of Potential Sites Jan 2012 (Ongoing)
- Project Status Public Meeting May 2012 (Ongoing)
- Assemble Alternative Plans Jun 2012
- Identify Tentatively Selected Plan Aug 2012
- Release Environmental Documents Sep 2012
- Start Real Estate Acquisition Sep 2012
- Issue Construction Contract Jul 2013
- Notification of Completion
to Non-Federal Sponsor Post-Construction





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



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>



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Ground Rules

- Speakers will have a maximum of 3-minutes to speak
- Speakers may not yield unused portions of their time to another
- A speaker may not comment a second time until all community members have been called on to speak a first time
- All comments and/or questions (written or verbal) become part of the administrative record



Discussion



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