



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

# *New Orleans East 100-year Hurricane Protection System*

**Individual Environmental Report  
Public Meeting  
October 25, 2007**

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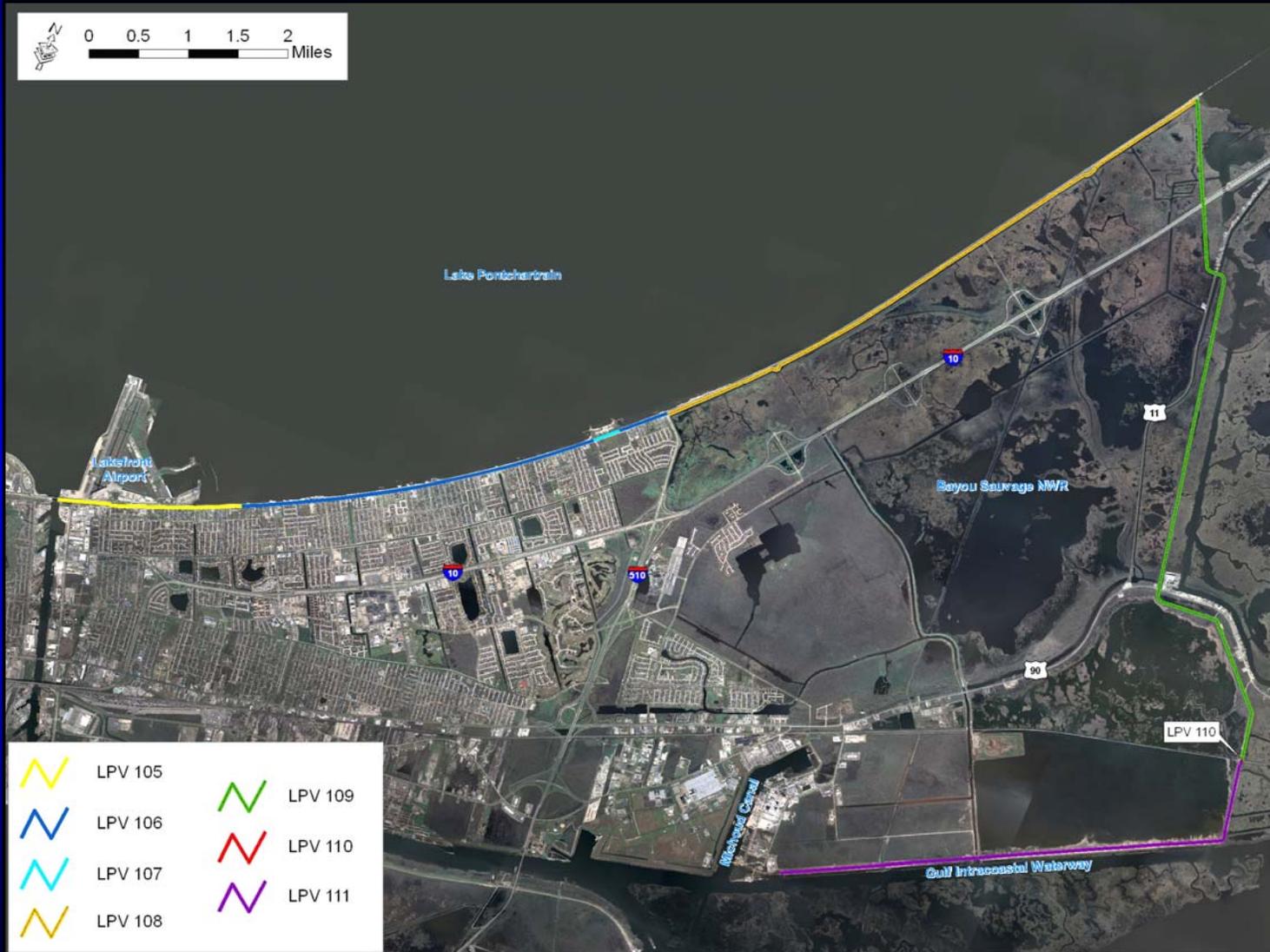
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# New Orleans East Levees IER #6 and IER #7



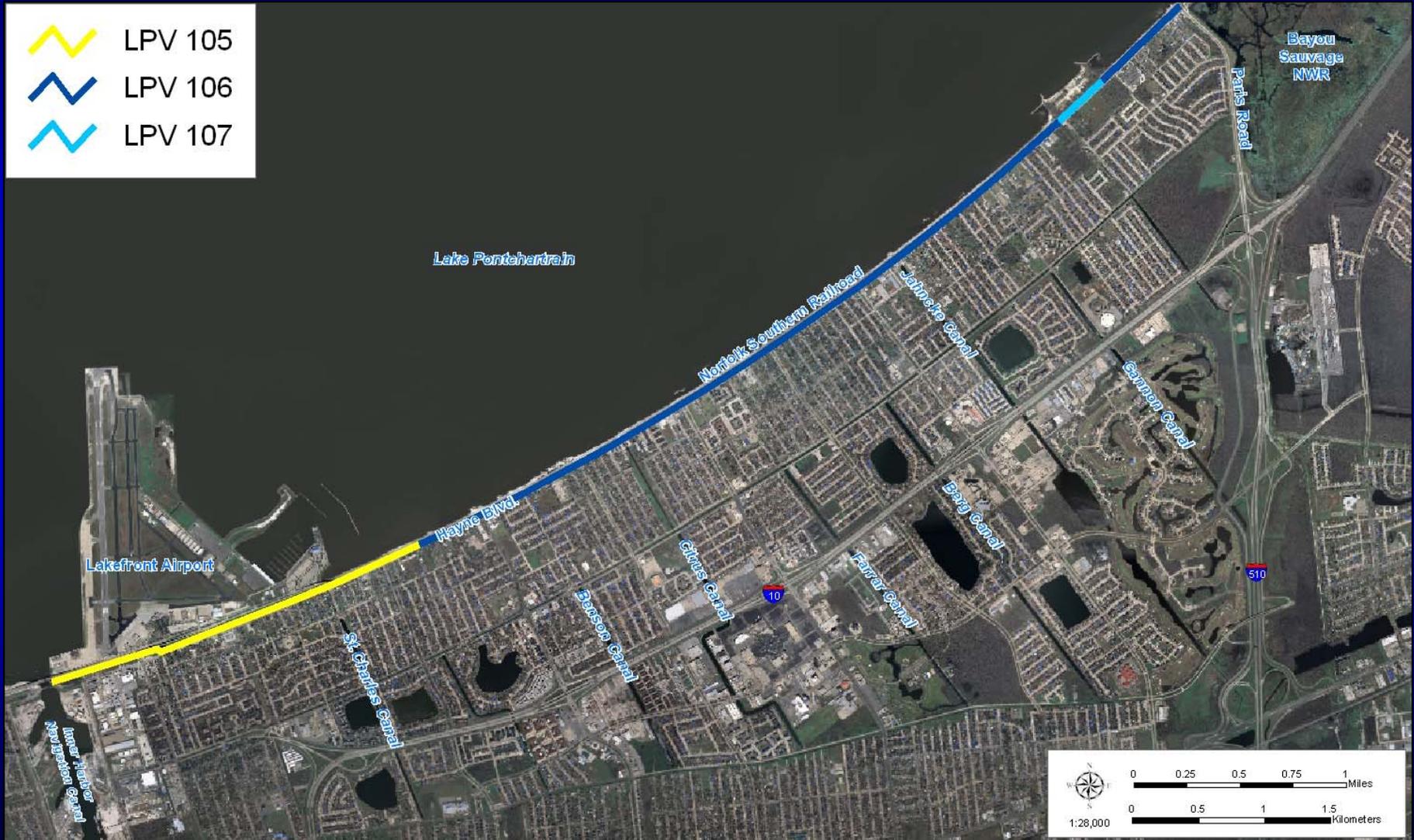
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# IER#6 – Proposed Action Alignment

- LPV 105
- LPV 106
- LPV 107



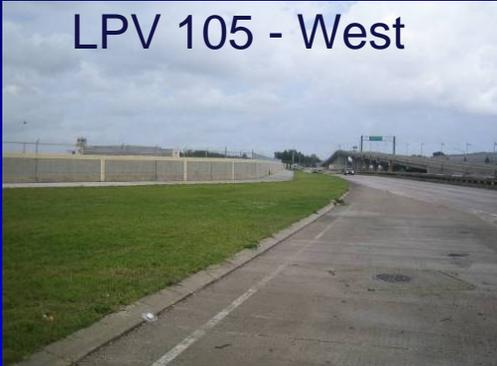
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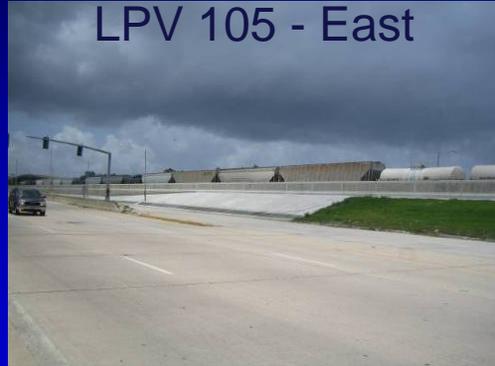
# IER#6 - Summary of Proposed Action and Alternatives

LPV 105 - West



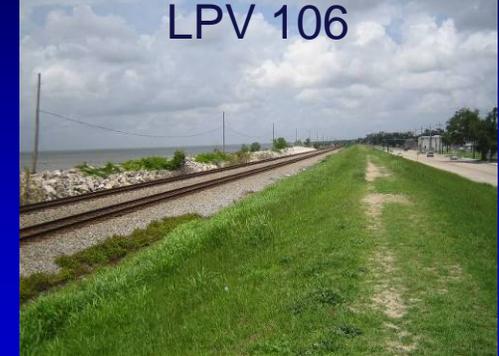
- ◆ Proposed Action: Construct new T-wall or levee 300 ft south of existing alignment; floodgate at Downman Rd.
- ◆ Alternative 1: Construct new T-wall on current alignment
- ◆ Alternative 2: retrofit existing wall on current alignment

LPV 105 - East



- ◆ Proposed Action: Replace floodwall and levee with T-wall following existing alignment
- ◆ Alternative 1: Replace existing levee and floodwall with earthen levee

LPV 106



- ◆ Proposed Action: Replace levee with T-wall and additional foreshore protection
- ◆ Alternative 1: Raise levee and additional foreshore protection

LPV 107



- ◆ Proposed Action: Construct new T-wall and floodgate 12 ft north of existing alignment
- ◆ Alternative 1: Construct new T-wall and floodgate in current alignment
- ◆ Alternative 2: Construct new T-wall in current alignment; no floodgate
- ◆ Alternative 3: Modify/retrofit existing floodwall and floodgate
- ◆ Alternative 4: Replace floodwall and floodgate with levee



# IER #6: LPV 105 Proposed Action



## West of Downman Road

◆ Proposed Action: Construct new T-wall or levee 300 ft south of existing alignment; floodgate at Downman Rd.

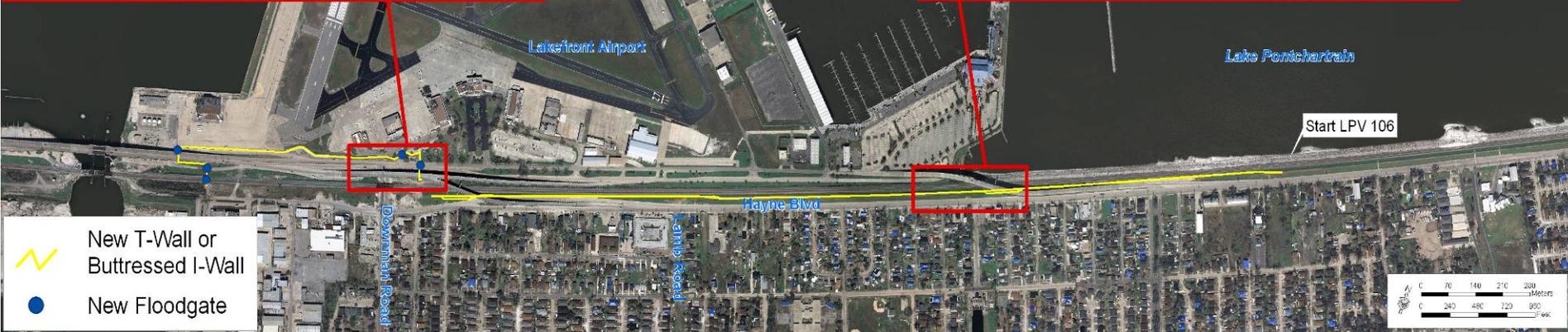
## East of Downman Road

◆ Proposed Action: Replace floodwall and levee with T-wall

# IER #6: LPV 105 Alternatives



Alternative Scale	Action
1	Replace I-Wall with T-Wall; Replace or Modify Floodgates
2	Incorporate existing I-Wall into new structure; Replace or Modify Floodgates
3	Replace levee/floodwall cap with levee east of Alabama St.



## West of Downman Road

- ◆ **Alternative 1: Construct new T-wall on current alignment**
- ◆ **Alternative 2: Retrofit existing wall on current alignment**

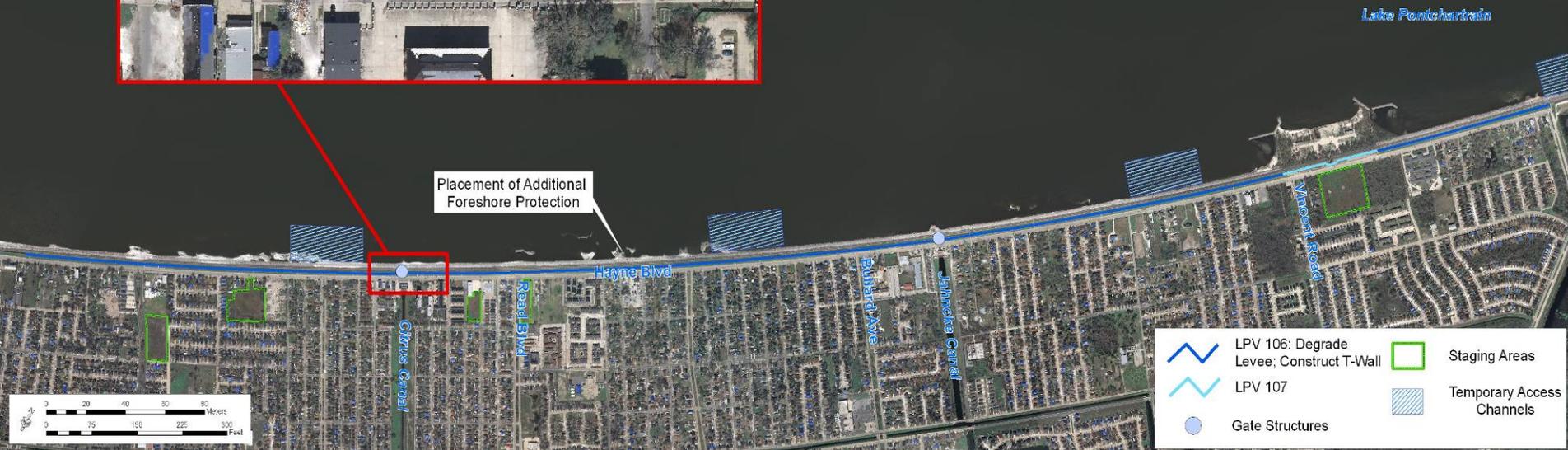
## East of Downman Road

- ◆ **Alternative 3: Replace existing levee and floodwall with earthen levee east of Alabama Street**

# IER #6: LPV 106 Proposed Action



Alternative Scale	Action
1	Raise levee and additional foreshore protection



- ◆ **Proposed Action: Replace levee with T-wall and additional foreshore protection**
- ◆ **Alternative 1: Raise levee and additional foreshore protection**

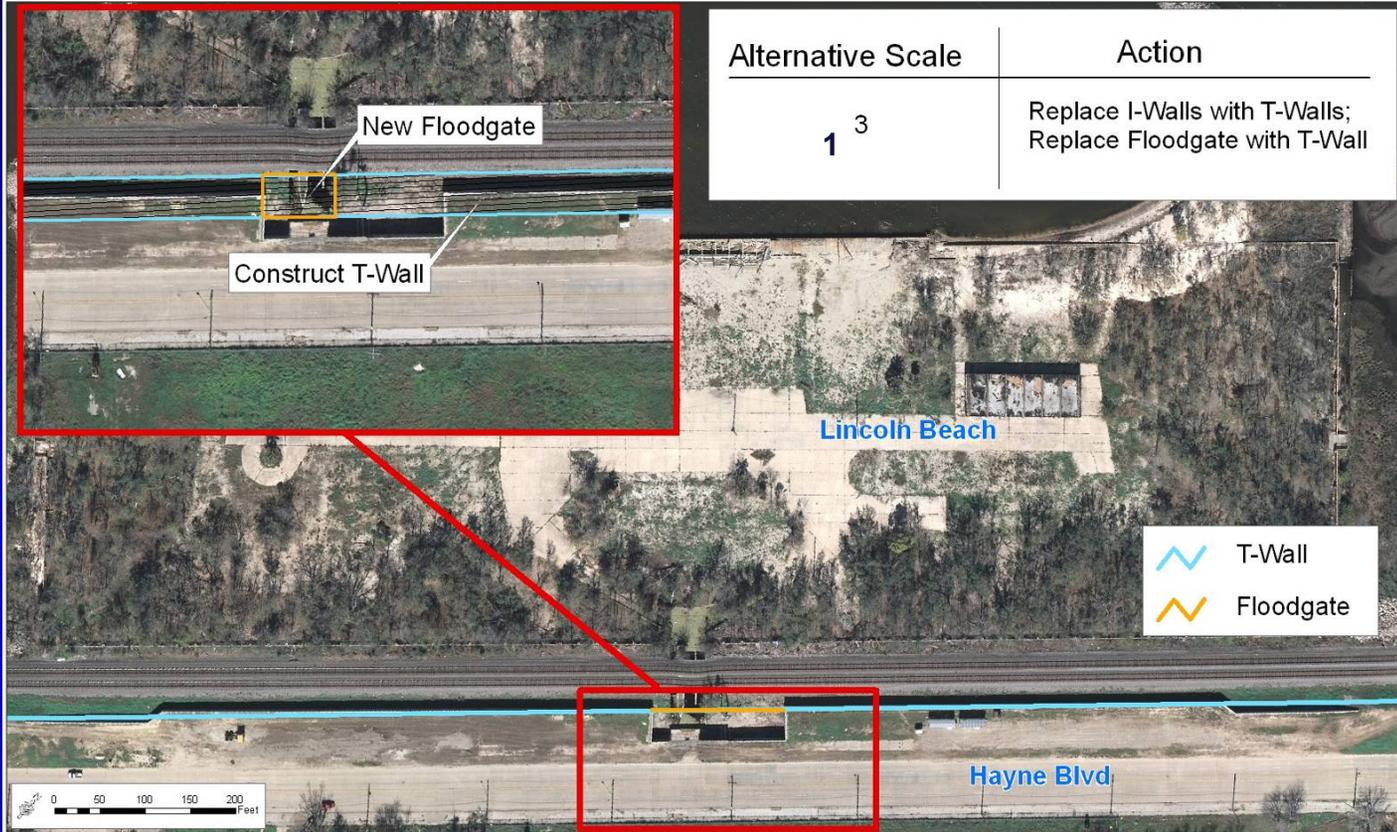


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## IER #6: LPV 107 Proposed Action



- ◆ **Proposed Action: Construct new T-wall and floodgate 12 ft north of existing alignment**
- ◆ **Alternative 1: Construct new T-wall in current alignment; no floodgate**

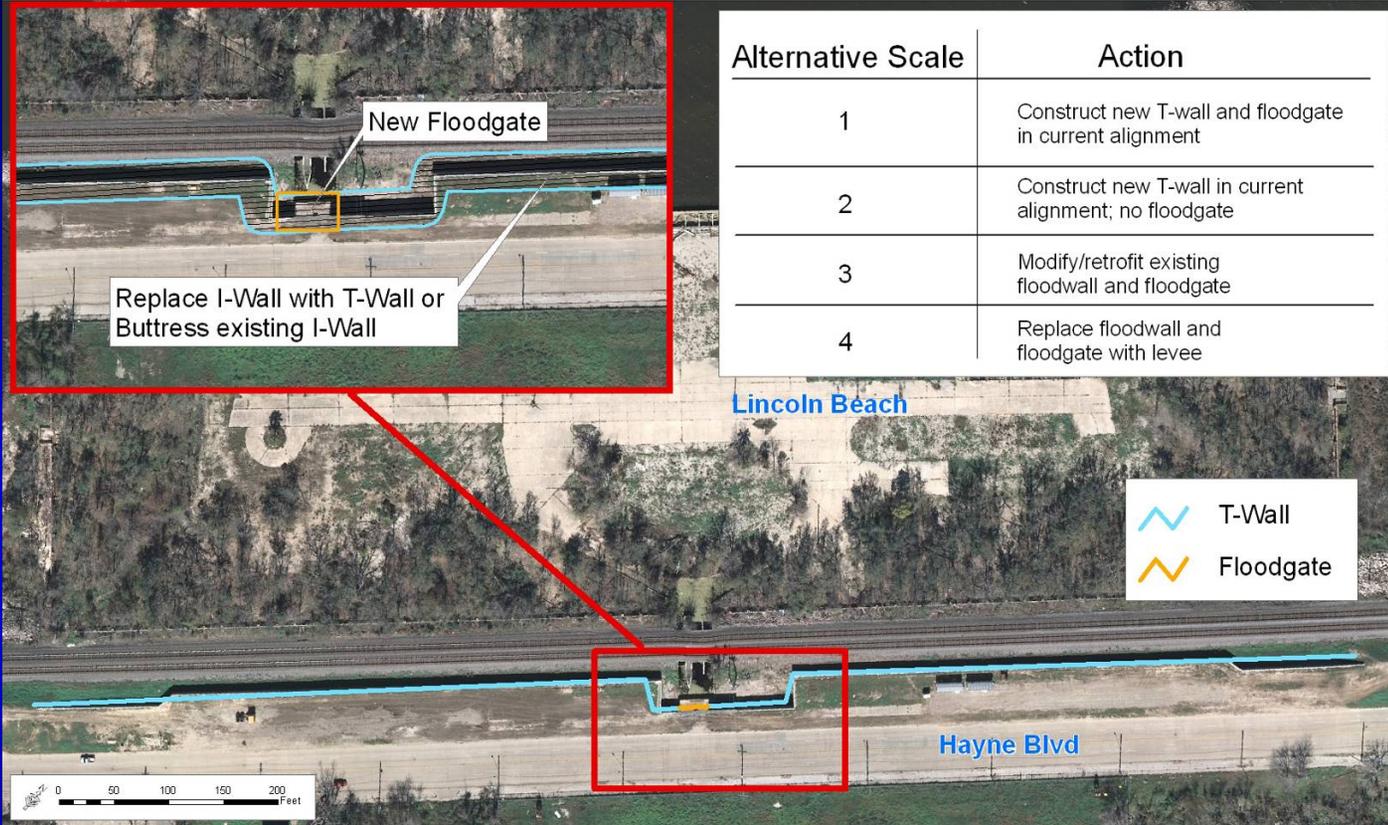


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## IER #6: LPV 107 Alternative Alignment



- ◆ **Alternative 1: Construct new T-wall and floodgate in current alignment**
- ◆ **Alternative 2: Construct new T-wall in current alignment; no floodgate**
- ◆ **Alternative 3: Modify/retrofit existing floodwall and floodgate**
- ◆ **Alternative 4: Replace floodwall and floodgate with levee**

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# *Impacts to the Natural Environment*

- ◆ **Geology**
  - Localized vibration effects
- ◆ **Vegetation**
  - Loss of maintained turf grasses
- ◆ **Wetlands**
  - Temporary impacts to intertidal marsh
- ◆ **Lake Pontchartrain**
  - Increased suspended sediments and sediment oxygen demand
  - Disturbance to submerged aquatic vegetation
- ◆ **Air**
  - Increased emissions
- ◆ **Fisheries**
  - Disturbance to Essential Fish Habitat
  - Loss of less motile fish and invertebrate species
- ◆ **Threatened and Endangered Species**
  - Modification to Gulf Sturgeon Critical Habitat





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# *Impacts to the Human Environment*

- ◆ **Aesthetics**
  - Loss of green space associated with levee
- ◆ **Recreation**
  - Loss of levee access
- ◆ **Noise**
  - Greater than 65 decibels within 1000 ft of construction
- ◆ **Transportation**
  - Temporary closures to westbound lanes of Hayne Boulevard
  - Temporary penetration of runway protection zone of Lakefront Airport
- ◆ **Social and Economic**
  - Temporary increase in local spending, income and employment
  - Permanent protection of properties and infrastructure





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# IER7 - Proposed Action Alignment

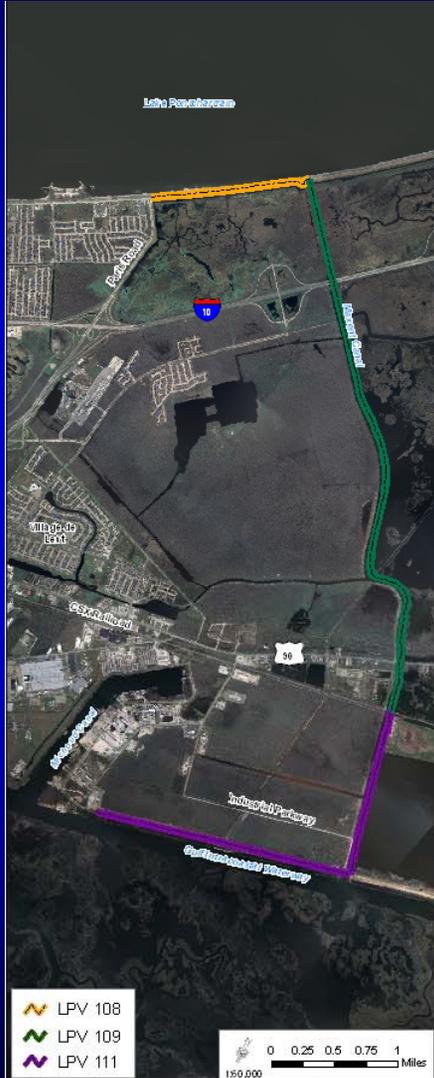


- ◆ **LPV 108**
  - Raise Levee
  - Remove I-wall at Collins Pipeline
  - Additional Foreshore Protection
- ◆ **LPV 109**
  - Raise Levee
  - Reconstruct US 90 and US 11 Floodgates
  - Raise I-10
- ◆ **LPV 110**
  - Reconstruct CSX Railroad Floodgate
- ◆ **LPV 111**
  - Raise Levee
  - Reconstruct T-wall at Pump Station No. 15

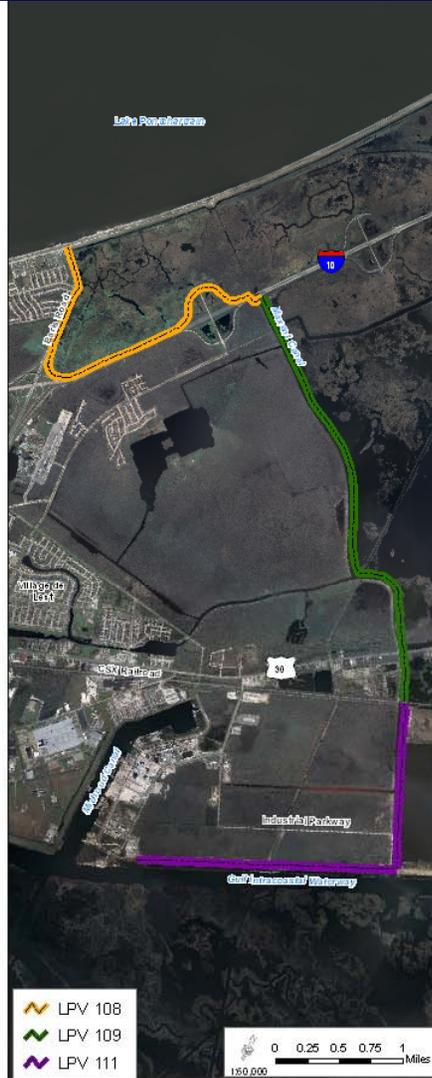


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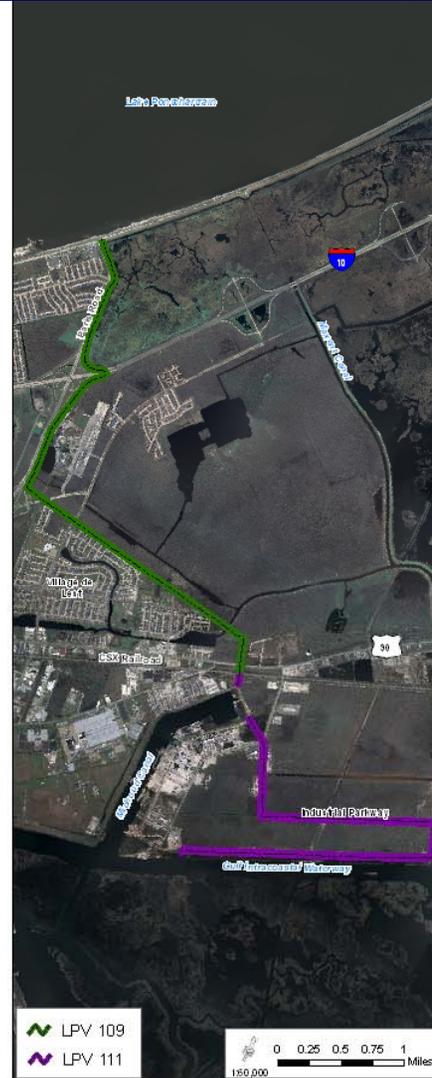
# IER7 - Alternative Alignments



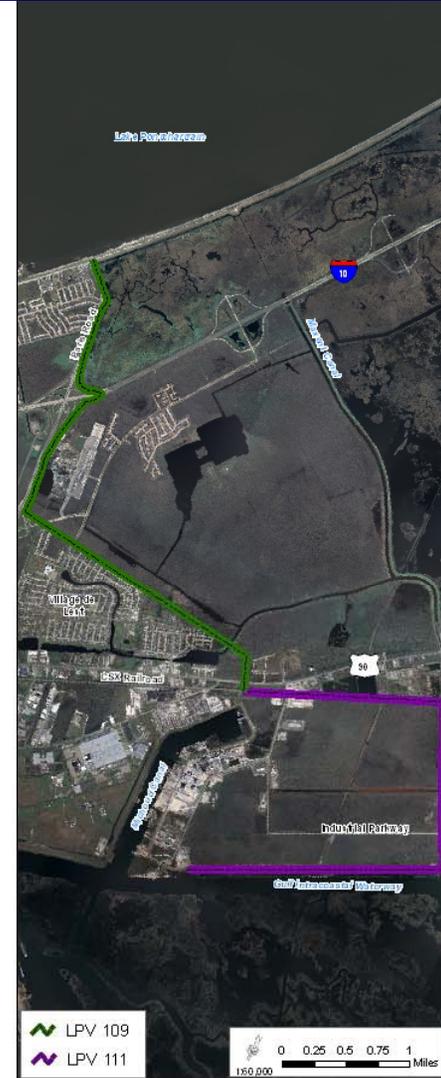
Lake Pontchartrain - Maxent Canal - GIWW



Paris Road - I-10 - Maxent Canal - GIWW



Paris Road - Village de Lest - Industrial Parkway - GIWW



Paris Road - Village de Lest - CSX Railroad - GIWW



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# *Impacts to the Natural Environment*

- ◆ Geology
  - Localized vibration effects
- ◆ **Vegetation**
  - **Temporary impact to maintained turf grasses on levee slopes**
- ◆ **Wetlands**
  - **Loss of freshwater and brackish marsh within Bayou Sauvage NWR**
- ◆ Lake Pontchartrain
  - Increased suspended sediments and sediment oxygen demand
  - Disturbance to submerged aquatic vegetation
- ◆ Air
  - Increased emissions
- ◆ Fisheries
  - Disturbance to Essential Fish Habitat
  - Loss of less motile fish and invertebrate species
- ◆ Threatened and Endangered Species
  - Modification to Gulf Sturgeon
  - Critical Habitat





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# *Impacts to the Human Environment*

## ◆ Aesthetics

- Temporary impacts from construction activity

## ◆ Recreation

- Temporary disturbance during construction

## ◆ Noise

- Greater than 65 decibels within 1000 ft of construction

## ◆ Transportation

- Equipment and vehicular access to construction areas from I-10, US 90, US 11 and Industrial Parkway

## ◆ Social and Economic

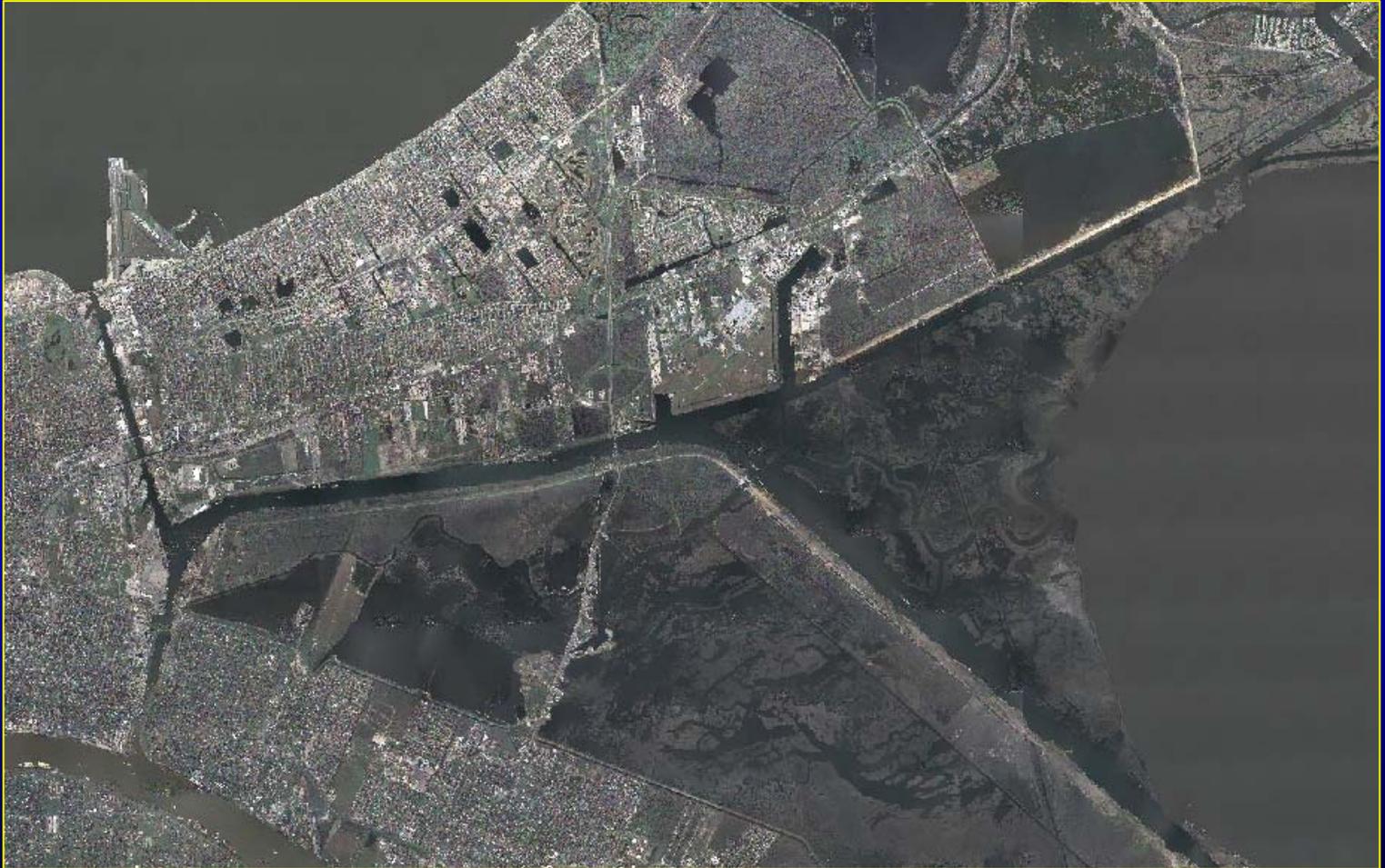
- Temporary increase in local spending, income and employment
- Permanent protection of properties and infrastructure





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# *Improving Hurricane Protection on the Inner Harbor Navigation Canal IER #11*



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# *Alternatives*

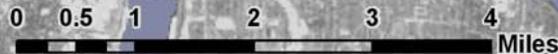
**1. No Action**

**2. Raise buildings in flood zone**

**3. Raise levees and floodwalls**

**4. Construct channel and/or water body structures**

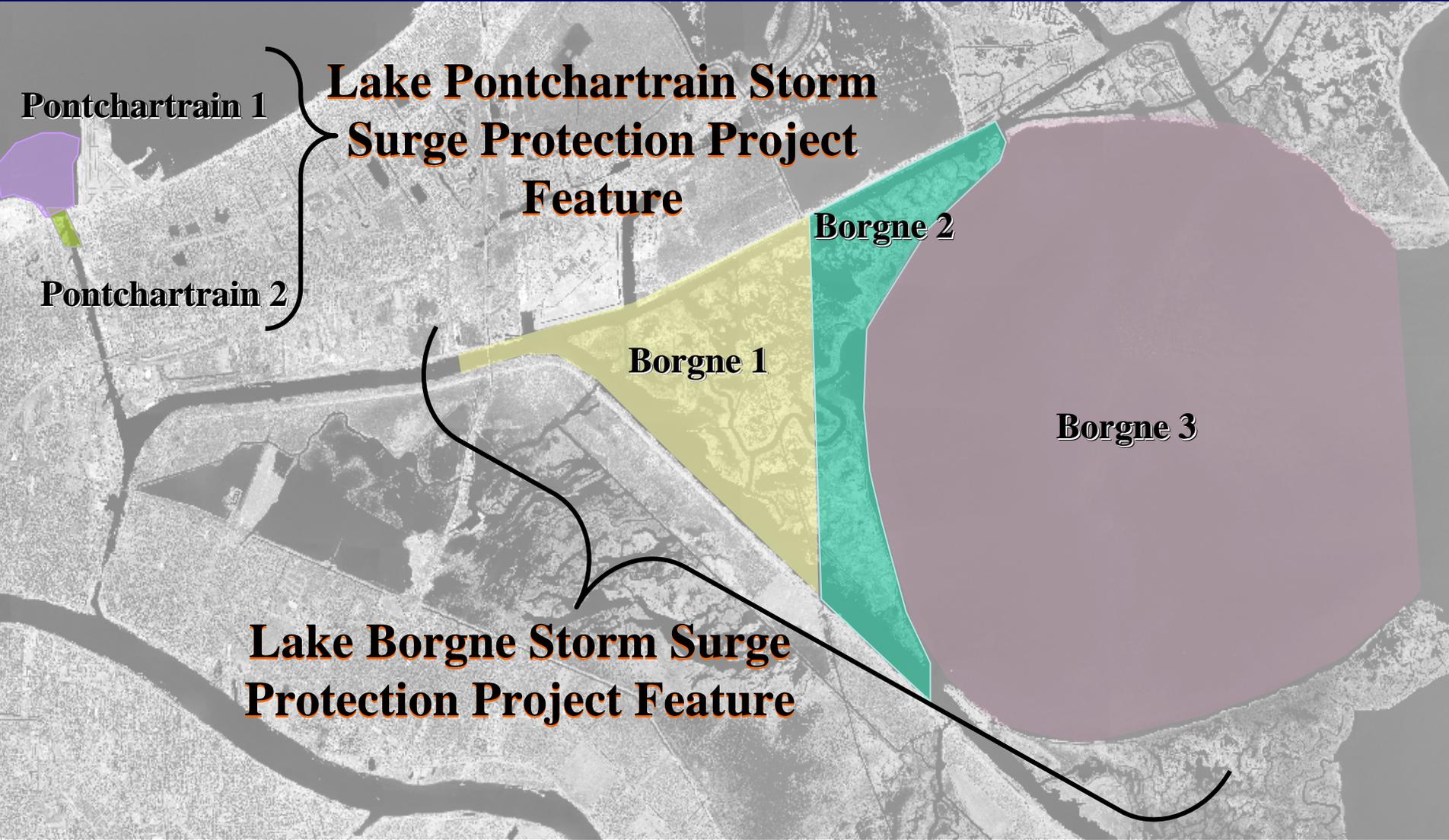
**5. Construct wetlands**





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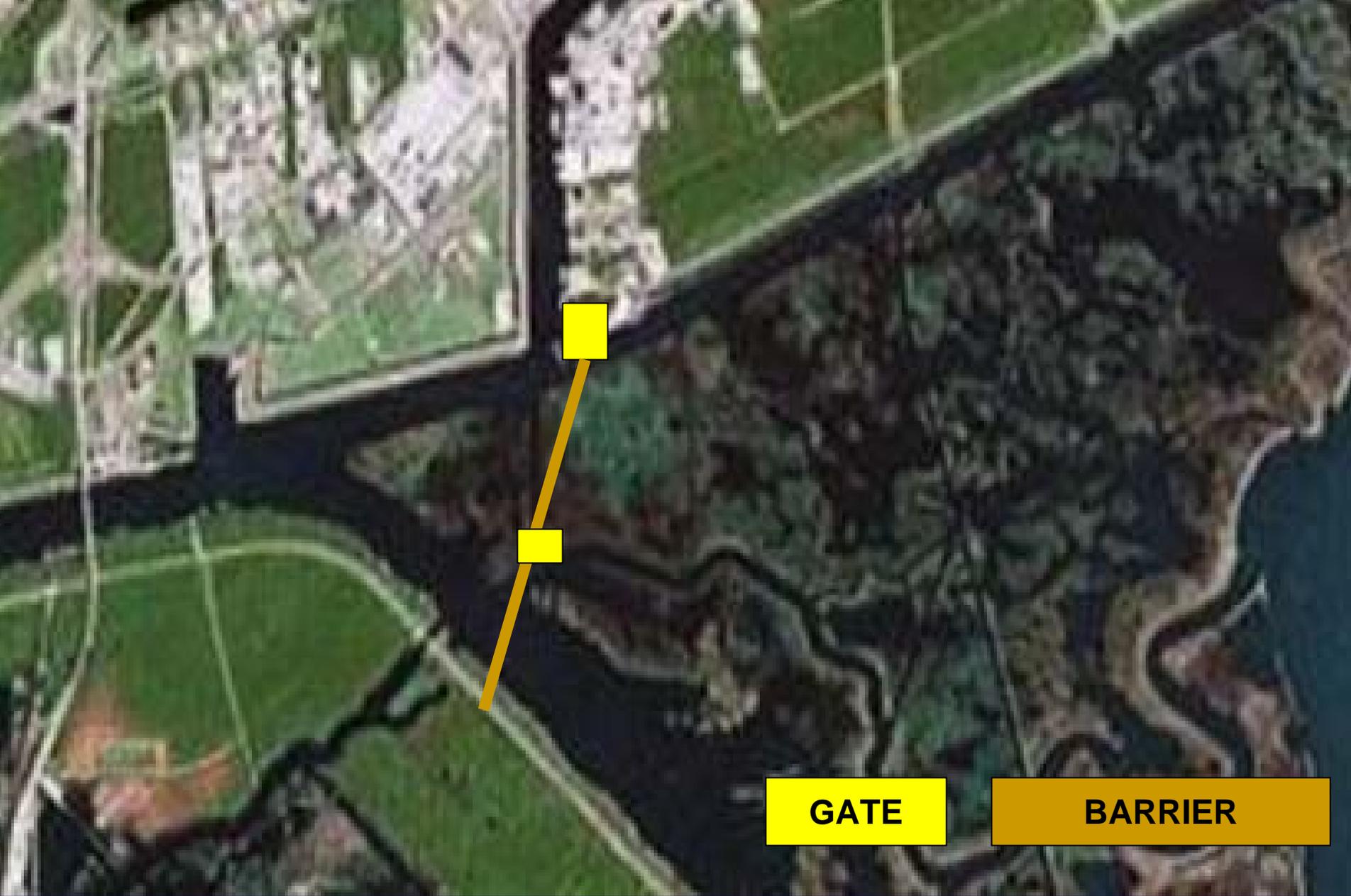
## *Alternative 4: Project Features and Location Ranges*





**GATE**

**BARRIER**



**GATE**

**BARRIER**

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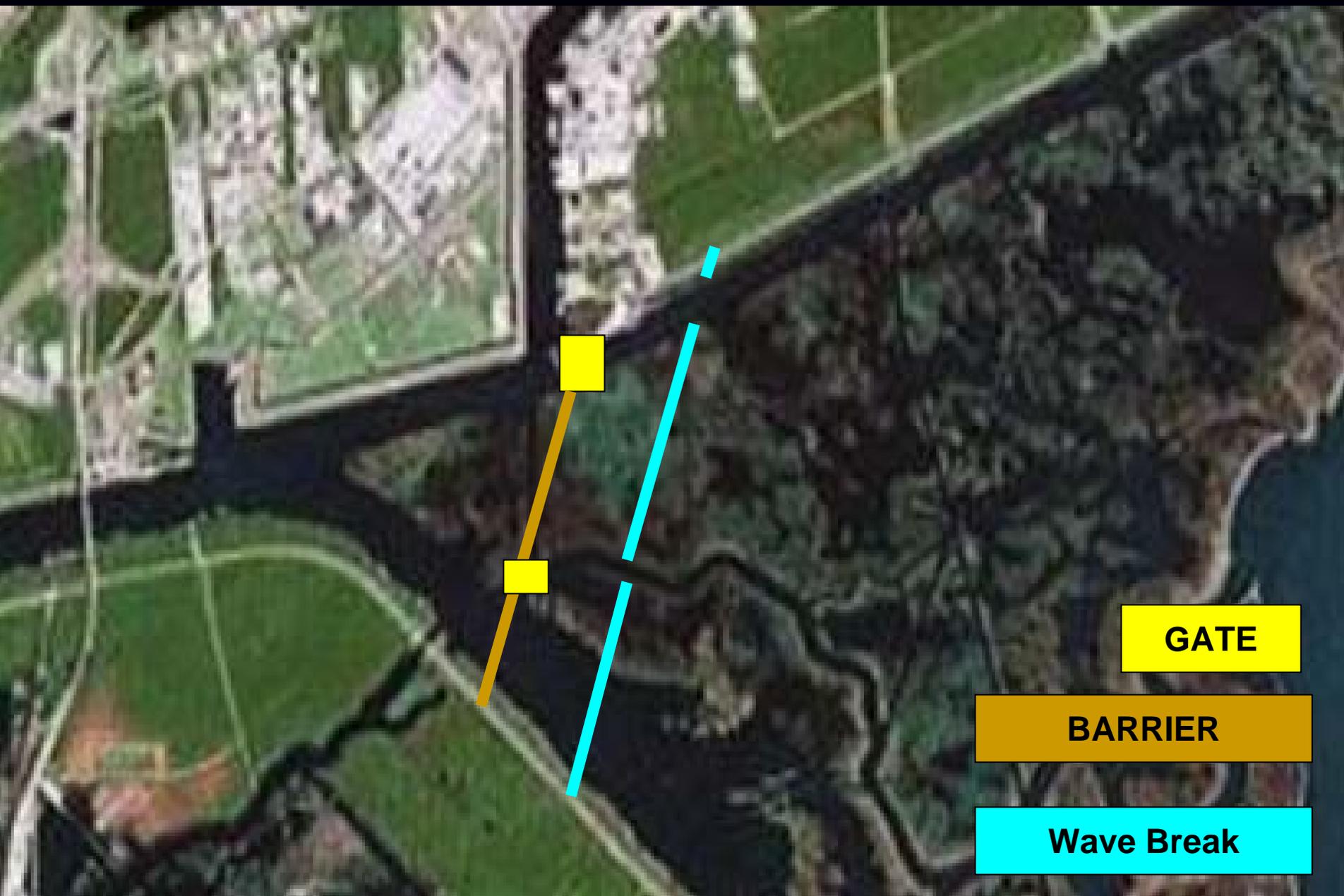
**GATE**

**BARRIER**



**GATE**

**BARRIER**



**GATE**

**BARRIER**

**Wave Break**



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# *Alternatives and Preliminary Impacts to Significant Resources*

## **No Action: Bring to authorized grade**

**Socio economic impacts:** lack of adequate hurricane protection would result in flooding from some hurricanes.

## **Non-structural: Raise buildings.**

**Socio economic impacts:** damages to buildings would be reduced but study area would be subject to flooding

## **Raise levees and floodwalls to 100 year flood protection level**

**Possible HTRW contamination and water quality impacts from sediment disturbance and construction activities, must maintain navigation so footprint would impact businesses and adjacent households, tree removals.**

## **Construct channel and/or water body structures for storm surge protection**

**Various acreages of wetland and habitat impacts, salinity changes, shoreline erosion, short-term construction impacts to water quality, fisheries impacts, T&E impacts, tree removals.**

## **Construct wetlands**

**Socio economic, impacts to flow and corresponding impacts to wetlands, salinity, sedimentation, fisheries impacts, short-term construction impacts to water quality, T&E impacts.**



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# *Opportunities for Public Input*

- ◆ **Monthly Public Meetings throughout New Orleans Metro Area**
  - **Make sure to sign in tonight to get on our meeting notification mailing list**
- ◆ **Comments can be submitted at any time at [www.nolaenvironmental.gov](http://www.nolaenvironmental.gov)**
- ◆ **Individual Environmental Reports (IER) 30-day Public Review**

## Tentative Start Dates

- **IER 6: New Orleans Lakefront Levee to Citrus Lakefront Levee, N.O. Airport Floodwall to Paris Road**
  - » **Begins December 15, 2008**
- **IER 7: New Orleans East Lakefront Levee to New Orleans East Back Levee, Paris Road to Eastbank of Michoud Canal**
  - » **Begins December 15, 2008**
- **IER 11: Improved Protection on IHNC**
  - » **Begins January 15, 2008**



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**Questions and comments regarding Hurricane Protection Projects  
should be addressed to:**

**Gib Owen**

**PM-RS**

**P.O. Box 60267**

**New Orleans, LA 70160-0267**

**E-mail: [mynenvironmental@usace.army.mil](mailto:mynenvironmental@usace.army.mil)**

**Telephone: 504-862-1337**

**Your comments are welcome anytime now until the close  
of the IER Public Review Period**



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PROJECTS

MEETINGS

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RELATED LINKS

## Environmental Processes and NEPA Compliance

[What is NEPA?](#)

### FEATURED PROJECT



USACE-MVN Emergency Alternative Arrangements  
West Bank & Vicinity & Lake Pontchartrain & Vicinity  
Hurricane Protection Projects

[USACE NEPA Questions & Answers](#)

[USACE Alternative Arrangements NEPA Process](#)

[USACE Alternative Arrangements NEPA Process Appendix](#)

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 Protection 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). This process was implemented in order to expeditiously complete environmental analysis for the 100-year level of Hurricane and Storm Damage Reduction effort authorized and funded by the Administration and the Congress. The proposed actions are located in southern Louisiana area and relate to the Federal effort to rebuild the Hurricane and Storm Damage Reduction system in the New Orleans Metropolitan area as a result of Hurricanes Katrina and Rita. [\[Learn More\]](#)

#### UPCOMING EVENTS:

[Public Meeting](#): July 26, 2007 7:00 pm, St. Charles Sub Basin ~ Ramada Inn 100 James Drive St. Rose, LA 70087

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

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