

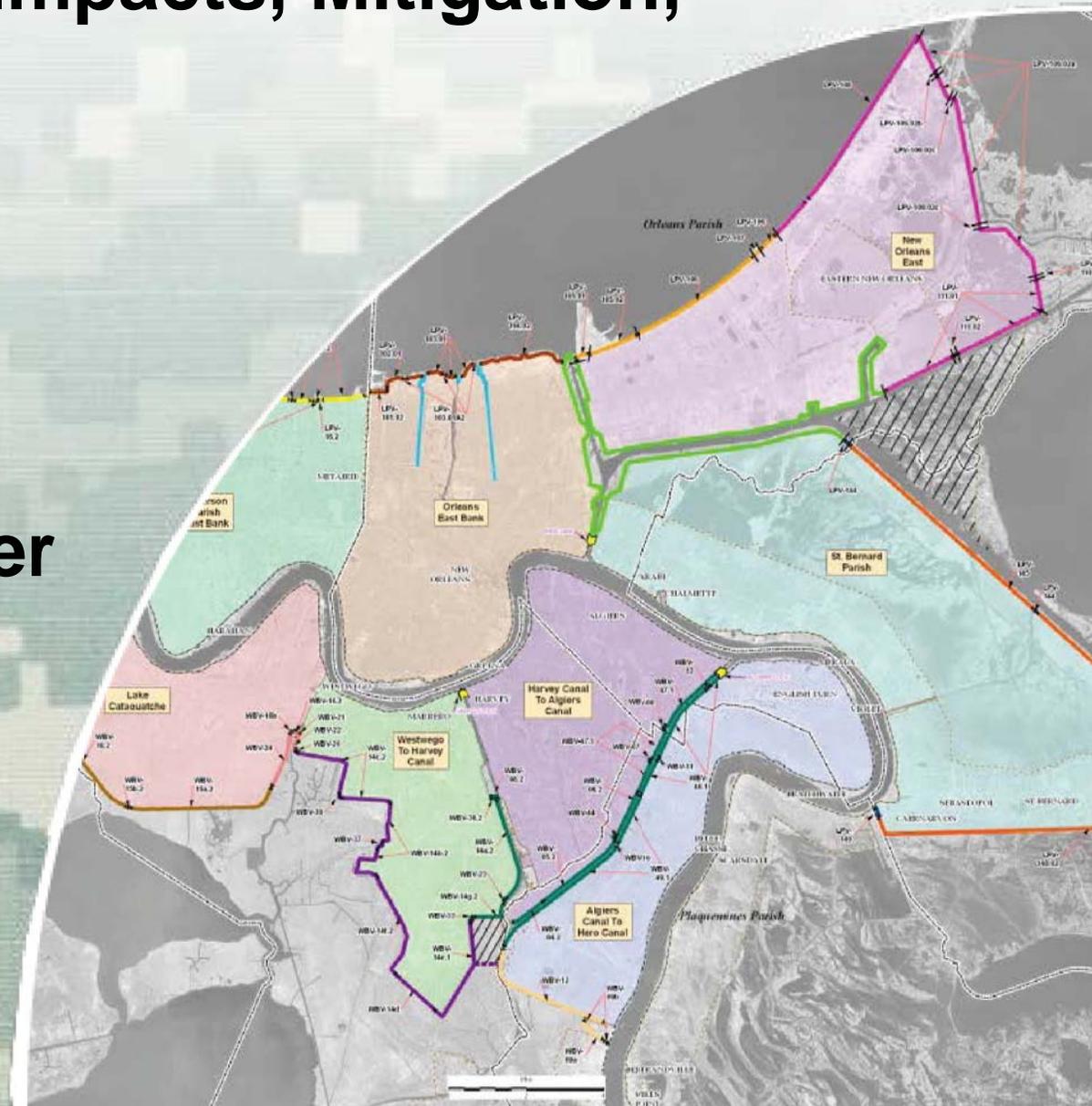
Hurricane and Storm Damage Risk Reduction System Comprehensive Environmental Document

Cumulative Benefits, Impacts, Mitigation, Data Gaps

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Comprehensive Environmental Document (CED)

Milestone Dates

23 Oct 12	USFWS Draft Coordination Act Report received
13 Nov 12	Received H&H analysis to incorporate in draft CED phase I
18 Jan 13	Legal Sufficiency obtained
5 Feb 13	60 day public review for draft CED phase I
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8 Apr 13	End public review
8 May 13	Address public comments
8 May 13	Finalize CED phase I
22 May 13	Release Final CED phase I for 30 day public review

Future: Draft CED phase II (cumulative impacts assessment for all HSDRRS work from Nov 2010 till complete)



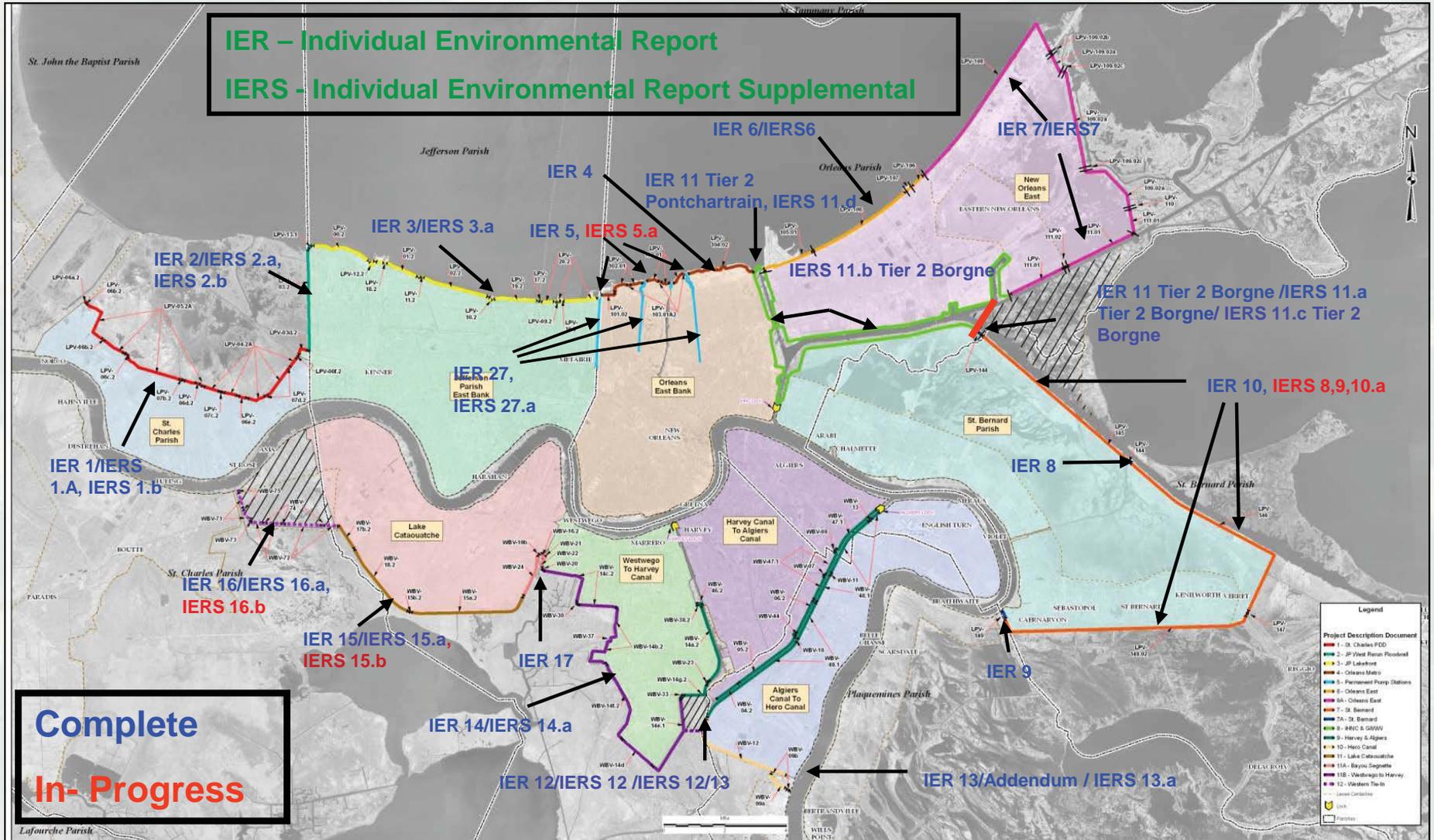
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Individual Environmental Report (IER) Current Status

- 17 Individual Environmental Reports (IERs) completed describing impacts of building the system
- 13 IERs completed describing impacts of excavating clay (borrow) and utilizing borrow stockpile sites
- Supplemental IERs addressing changes in project design
 - ▶ 21 Supplementals have been completed
 - ▶ 4 additional Supplementals are in preparation
- Additional IERs under development
 - ▶ HSDRRS Mitigation IERs recommending a TSP for satisfying compensatory mitigation requirements



Individual Environmental Report (IER) Current Status



Resources / Impacts Analyzed

- Air Quality
- Water Quality
- Terrestrial Habitat
- Aquatic Habitat
- Fish and Wildlife
- Wetlands
- Threatened and Endangered Species
- Recreational Resources
- Aesthetic (Visual) Resources
- Cultural Resources
- Prime and Unique Farmland
- Displacement of Population and Housing
- Impacts to Employment, Business and Industry Activity
- Availability of Public Facilities and Services
- Effects on Transportation
- Disruption of Desirable Community and Regional Growth
- Impacts to Tax Revenues and Property Values
- Changes in Community Cohesion
- Environmental Justice
- Hazardous, Toxic and Radioactive Waste



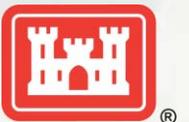
CED Contents

- Describes the components of the 217 mile HSDRRS
- Integrates the results of each IER into a single report
- Evaluates cumulative impacts of HSDRRS and all projects in southeastern Louisiana
- Describes mitigation process and measures
- Provides updated information
- Limited to:
 - ▶ NEPA documents completed by November 15, 2010
 - ▶ Construction implemented by July 2011



Other Regional Projects

- Flood Risk Reduction
 - ▶ New Orleans to Venice, Louisiana Project
 - ▶ Plaquemines Parish Non-Federal Levee Project
 - ▶ Grand Isle and Vicinity Project
 - ▶ MRGO Deep-draft Deauthorization
 - ▶ SELA
 - ▶ IHNC Lock Replacement Project
- Coastal and Wetlands Restoration Projects
 - ▶ CWPPRA
 - ▶ LCA Plan
 - ▶ LACPR
 - ▶ CIAP
 - ▶ State Master Plan



HSDRRS Cumulative Impacts

- Permanent impacts on soils
 - ▶ Loss of prime farmland soils
- Both short-term and permanent impacts
 - ▶ Water quality
 - ▶ Wetlands
 - ▶ Transportation
- Only short-term impacts
 - ▶ Noise
 - ▶ Aesthetics
 - ▶ Wildlife and fisheries
- Beneficial impacts on socioeconomic in the region
 - ▶ Expenditure of ~ \$14 billion
 - ▶ 100-year risk reduction improves confidence of residents and businesses



Impacts on Soils and Water Quality

- Potential loss of 5,181.3 acres of prime farmland soils from HSDRRS
 - ▶ 99% of prime farmland soils impacted at borrow sites
 - ▶ Only 25 of the 48 borrow sites containing prime farmland soils have been utilized for construction
 - ▶ Potential for future impacts from borrow use for other risk reduction projects regionally
- Water quality impacts
 - ▶ Construction stormwater runoff
 - ▶ Hydro-modification
 - ▶ Dredging activities
 - ▶ Increased impervious surfaces
 - ▶ Levee expansion



Impacts on Wetlands & Transportation

- Potential loss of 1,637.2 acres of wetlands and 3,565.4 acres of non-jurisdictional BLH
 - ▶ Including regional loss of wetland and BLH habitats, cumulative impacts not quantifiable
 - ▶ All impacts on wetlands and non-jurisdictional BLH from HSDRRS will be mitigated
- Impacts on transportation
 - ▶ Short-term impacts
 - Temporary road closures
 - Increased construction traffic
 - Increased congestion
 - ▶ Long-term impacts due to pavement damage



CED Data Gaps, Monitoring Commitments, Other Pending Actions

- Transportation Impacts
 - Final Transportation Report, March 2010
- Mitigation Impacts: Mitigation IERs for LPV and WBV are in progress
 - Public review is anticipated in near future
- Air Emissions
- HSDRRS Cumulative Impacts
- Monitoring of Bayou Aux Carpes (IER 12) Area and analysis of data are ongoing.
 - Preliminary augmentation plan will be in WBV mitigation IER
- Monitoring of IHNC (IER 11) and analysis of data
 - Completion anticipated in 2013
- Independent External Peer Review for HSDRRS features / products including IHNC Lake Borgne and other structures
 - Completion estimated by 2014, and 2016 for Permanent Pumps PCCP-01.



CED Data Gaps, Monitoring Commitments, Other Pending Actions cont.

H&H compared the pre-Katrina hurricane protection system levee and structure elevations with high water mark data collected after Hurricane Isaac to assess what areas of the pre-HSDRRS system would / or would not have overtopped during Isaac. This report titled “Hurricane Isaac With and Without 2012 100-year HSDRRS Evaluation” can be downloaded from <http://www.mvn.usace.army.mil/pao/Hurrlsaacwapp.pdf> and IEPR comments from

<http://www.mvn.usace.army.mil/pd/TCN13-003HurrlsaacAssessIEPRFinal.pdf>

*The CED phase I contains a summary in the Preface, the future CED phase II will include a systems hydraulic analysis.

