US ARMY CORPS OF ENGINEERS, NEW ORLEANS DISTRICT UPDATE TO CPRAB

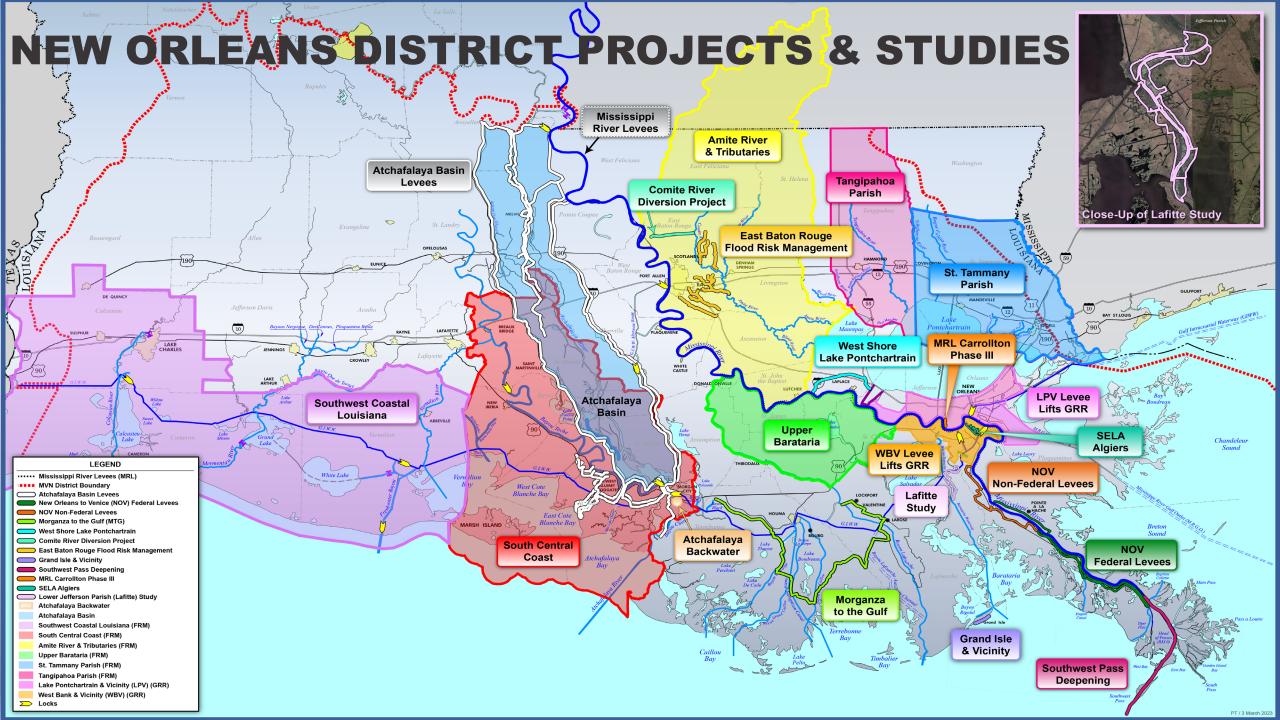
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District Engineer and Commander
US Army Corps of Engineers
New Orleans District
February 21, 2024















PERMANENT CANAL CLOSURES AND PUMPS



PHASE II: DELIVER THE PROJECT AS DESIGNED

Mission: Multi-year effort to ensure all 17 pumps are sustainable, reliable and fulfill the 35-year design requirements.

- 1. ONGOING: Finalizing the path forward.
- 2. MOVING OUT: Pumps Disassembled and Applying Recoating.







To prevent increased risk during hurricane season, onsite work that impacts interior drainage will be limited to outside of hurricane season (Dec 1 to May 31).



PERMANENT CANAL CLOSURES AND PUMPS



U.S. ARMY Cooperation, Collaboration and Communication



PCCP DESIGN PUMPING CAPACITY

The PCCPs were designed to match the existing or potential discharge capacity of the local interior drainage pump stations on the outfall canals. The drainage capacity of the PCCPs at 17th Street and London Avenue exceed the discharge capacity to support adaptability to future conditions.

- Design capacity: 12,600 cfs
- Max. local discharge: 10,330 cfs

- 2. PCCP at Orleans Ave. Canal . Design capacity: 2,700 cfs
- . Max local discharge 2700 cfs 10-vear rain event: 2.450 cfs
- 3. PCCP at London Ave. Canal
- . Design capacity: 9,000 cfs
- . Max. local discharge: 7,980 cfs

PHASE II MILESTONES

information becomes available, changes to schedule are anticipated)



1 DEC 23: Close of hurricane season. Phase II on-site activities initiated.

- Begin repair of basement cracks.
- · Initiate structure and canal surveys.
- Dewater 17th Street Pump #1

- Mobilize equipment to 17th St. and London Ave. Continue dewatering operations. Begin 35-year design corrective action at 17th St. and London Avenue.

Continue 35-year design corrective actions at 17th St. and London Ave. Outfall Canal PCCP

O MAR 24

- Hydro-seed Bermuda grass and apply tree treatment for London greenspace restoration. Conduct additional pump station surveys

Continue pump corrective actions at the 17th St. and London Ave. Outfall Canal PCCP

- Ensure stations are ready to perform as
- needed during 2024 Hurricane Season Demobilization of repair personnel and
- 1 JUN 24: Start of of hurricane season.

SNAPSHOTS OF ACTIVITY



Our Commitment

- ☐ Ensure open and transparent communication throughout the process
- ☐ Provide regular and recurring updates to partners, stakeholders and the public

- 1 PCCP at 17th Street Canal

- 10-year rain event: 9,334 cfs

PERMANENT CANAL CLOSURES AND PUMPS (PCCP) PHASE II

. 10-year rain event: 5,211 cfs

Delivering reliable and sustainable pump stations that meet design specifications

In March 2023, the U.S. Army Corps of Engineers initiated a two-phased approach to deliver reliable and sustainable pumps that meet the 35-year design requirements. Phase I was an interim approach to ensure the pump stations would perform as needed during the 2023 Humicane Season by rehabilitating and restoring London Avenue Pump #1, inspecting each of the 16 remaining pumps across the three locations, undertake interim or immediate repairs if necessary and to conduct scientific and engineering assessments to understand the underlying cause for advanced compsion of the pumps. Concurrently, USACE initiated Phase II for long-term repairs so the stations will meet the full 35-year design specifications. Phase I was completed by June 1, 2023.

The U.S. Army Corps of Engineers New Orleans District, in collaboration with the construction contractor, PCCP Joint Venture, began on-site Phase II work on December 1, 2023, USACE continues to work closely with PCCP JV, Coastal Protection and Restoration Authority and the Flood Protection Authority-East to finalize the most appropriate course of action for ensuring all 17 pumps will meet their 35-year design life. Physical construction during the multi-year Phase II will occur outside of hurricane season to reduce the risk of pumps being offline during a tropical weather event. USACE will provide regular and recurring updates throughout the process to ensure our partners, stakeholders and public can make their own risk-informed decisions using the most accurate and up-to-date information available.

PCCP INDIVIDUAL PUMP STATUS



London Ave. Outfall Canal Orleans Ave. Outfall Canal (four 1.800 cfs and two 900 cfs (three 900 cfs pumps): 100% pumps): 6,360 of 9,606 cfs of 2,700 cfs design capacity design capacity available.



- Pump online: Bay dewatered
- Pump in place repair underway Pump removed for repair

PUMP WORK UNDERWAY

- Corrective action to ensure all 17 pumps will fulfill the 35-year design requirements are underway.
 - . Pumps #1 and #4 at the 17th Street PCCP are being dissassembled and moved to repair facilities.
- . Pumps #2 and #5 are being prepared for dewatering to begin long-term corrective action process.
- USACE is collaborating with PCCP JV to finalize scope of work for long-term path forward.
- · USACE and PCCP JV intent is to complete permanent repairs to as many pumps as possible prior to the start of the 2024 Hurricane Season. The remaining pumps will be evaluated to ensure reliability during hurricane

- . Green-space restoration consists of seeding and fertilizing impacted area, treating 18 trees, and planting two additional trees. Two trees have been grass will be seeded and fertilized in spring of 2024.
- · Repairs to basement cracks at the cracks do not impact the structural integrity or operability of the stations. Repairs will improve safety conditions
- . All gracks have been prepared for filling with hydraulic cement. Approximately 10-percent of the cracks are fully

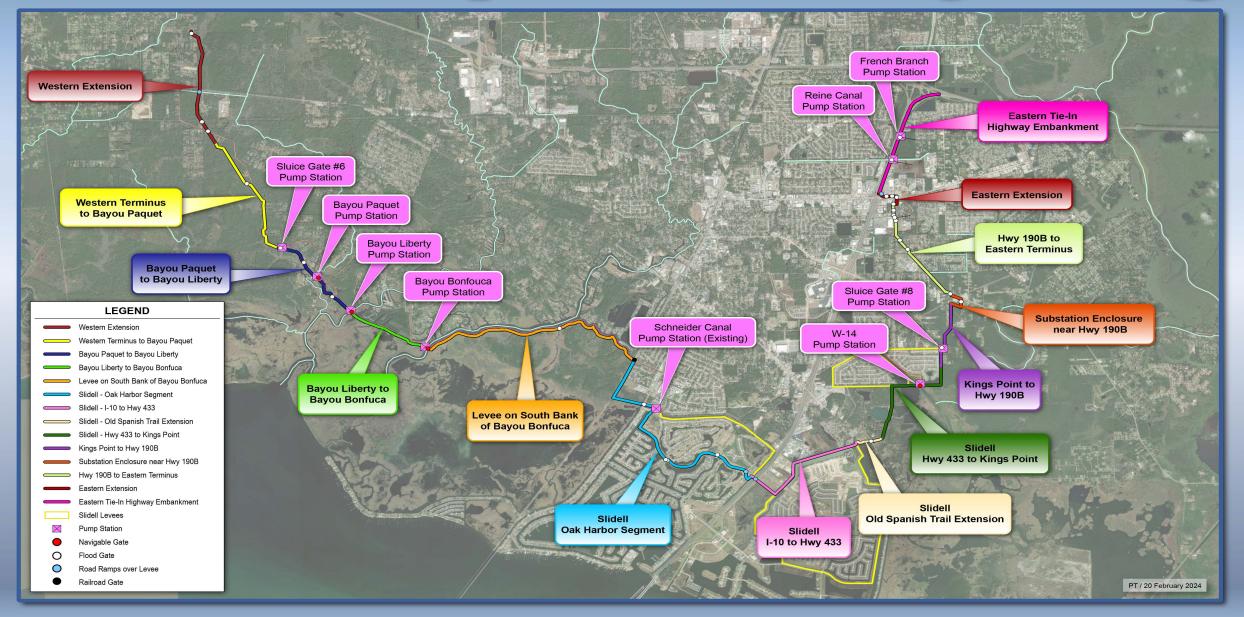
ADDITIONAL WORK

- planted, existing trees were nourished, and rye grass seed planted. Bermuda
- London Ave. PCCP is underway. These



III STPFS - Proposed Levee Alignment

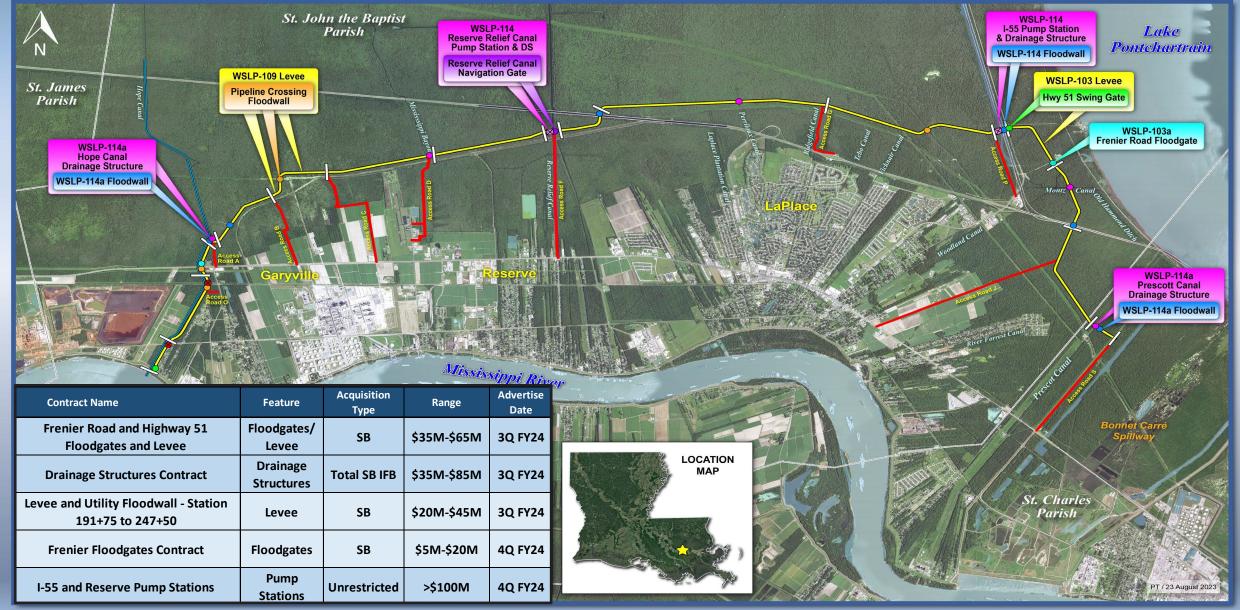






West Shore Lake Pontchartrain







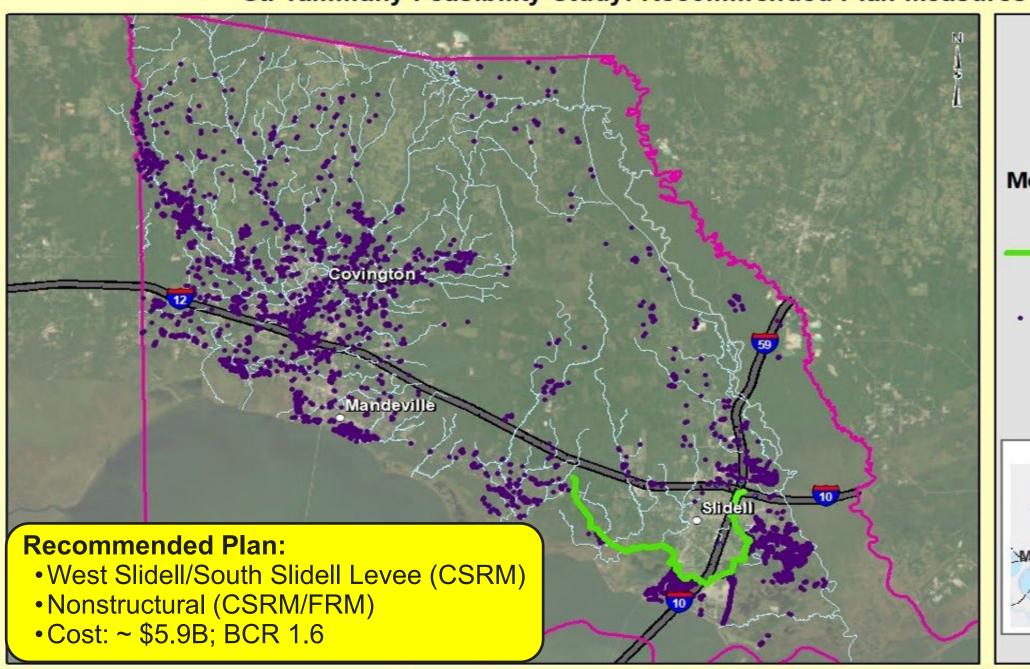
KEEP IN TOUCH WITH THE NEW ORLEANS DISTRICT



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St. Tammany Feasibility Study: Recommended Plan Measures





U.S. Army Corps of Engineers New Orleans District

Measures

- South Slidell and West Slidell Levee and Floodwall System
- Nonstructural Plan



Date: 11/1/2023