Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS)

Environmental Mitigation

25 September 2014







Individual Environmental Report Projects





Job No. EGIS-2010-065 Map created: 1 Sep 2011

Current working LPV & WBV HSDRRS Impacts

Habitat Type	LPV ¹ (HSDRRS) (acres)	WBV ² (HSDRRS) (acres)	Total Impacts (acres)
Bottomland Hardwood Wet	278	148	426
Bottomland Hardwood Dry	268	369	637
Swamp	198	256	454
Fresh Marsh	39	148	187
Intermediate Marsh	148	0	148
Brackish Marsh	251	0	251
Total	1,182	1,116	2,103

¹ Impacts include outstanding mitigation for TFG impacts



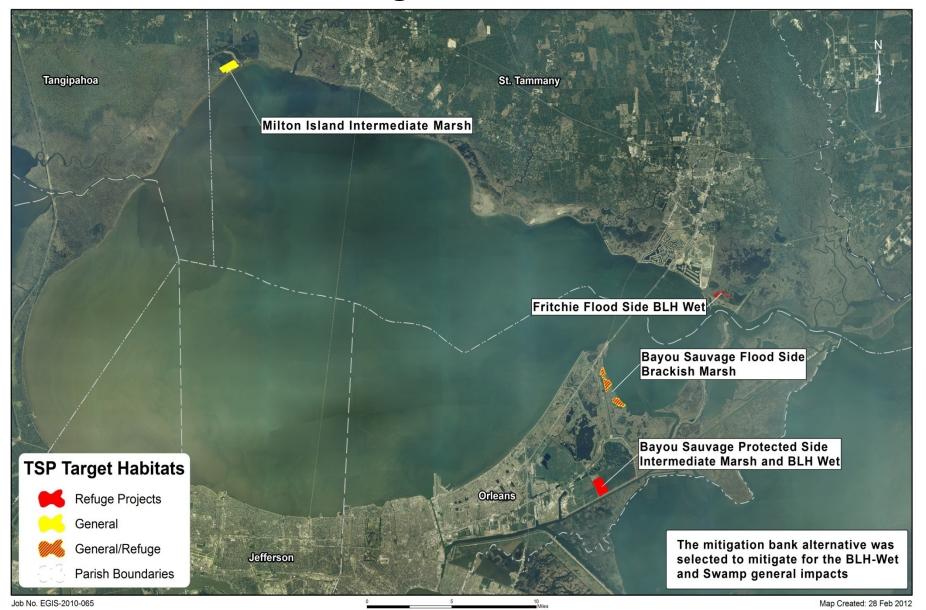
² Impacts include outstanding mitigation in EA 437 and 439

NEPA Compliance and Implementation

- Programmatic Individual Environmental Report (PIER)
- Implement Mitigation Bank TSP (contingent upon cost / availability)
- Tiered Individual Environmental Reports (TIERs)
- Implement TSMP covered in each TIER following TIER approval



LPV Recommended Mitigation Plan Alternative in PIER 36



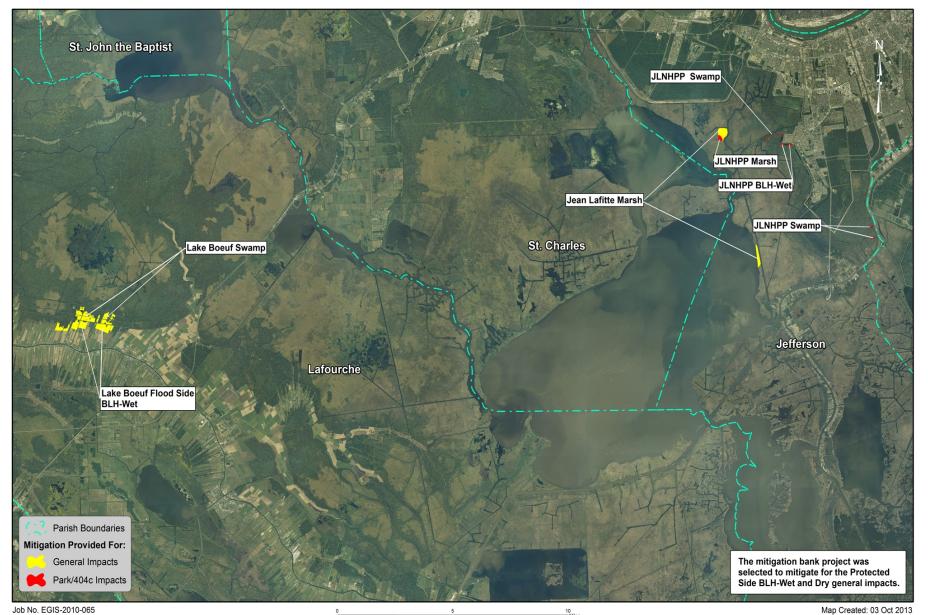
Bayou Sauvage Brackish Marsh Project & Reformulated Refuge Intermediate Marsh Project-Turtle Bayou



Reformulated Refuge BLH-Wet Project - New Zydeco Ridge



WBV Recommended Mitigation Plan Alternative in PIER 37

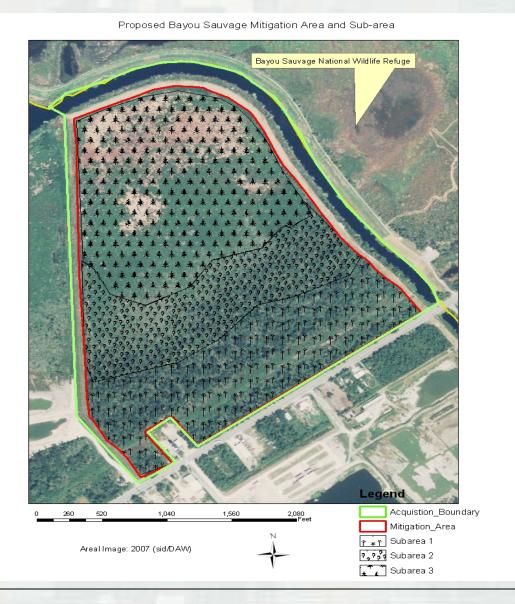


BUILDING STRONG®

Other CEMVN Mitigation Projects

- •Task Force Guardian: Mitigation for New Orleans East and Walker Road borrow pit impacts, 57.5 acres of BLH wet Bayou Sauvage Mitigation Project
- •Task Force Unwatering: Mitigation for impacts incurred for repairing the Braithwaite/Scarsdale breaches, 21.3 acres of marsh Big Mar Mitigation Project
- •LPV Original Construction: Mitigation for impacts incurred during the construction of the LPV HPS, 1,300 acres of marsh Manchac Wildlife Management Area Mitigation
- •WBV Original Construction: Mitigation for impacts incurred during the construction of the LPV HPS, 724 acres of BLH and swamp WBV Previously Authorized Mitigation
- •Terrebonne NFL: Mitigation for impacts incurred during repair and improvement of existing non-Federal levees impacted by recent hurricanes, 51.6 acres of marsh and 12.1 acres of BLH Terrebonne NFL Mitigation Project

BAYOU SAUVAGE MITIGATION PROJECT



Status:

Engineering and Design:

Project is under construction

Real Estate:

Complete

Environmental Compliance:

NEPA compliance achieved under EA 433.

Project features:

Project area broken into 3 sub-basins for appropriate reforestation and invasive species control as per existing elevations.

Water control structure at the northwestern corner of the project area to control water levels.

EM: Elizabeth Behrens



BIG MAR MITIGATION PROJECT



Status:

Engineering and Design:

Design complete

Environmental Compliance:

NEPA compliance achieved under SEA 433a

Real Estate:

Acquisition Phase

Project features:

Project involves obtaining dredged material from the open water in Big Mar and placing it in a 24 acre site to the northwest of Big Mar for marsh creation.

EM: Tammy Gilmore



MANCHAC WMA MITIGATION



Status:

Engineering and Design:

Project is under construction

Environmental Compliance:

Supplemental EA 500a public review TBA

Real Estate:

Complete

Project features:

Retention dike on Lake Pontchartrain shoreline.

Existing non-continuous breakwaters linked to provide continuous breakwaters (2 cells).

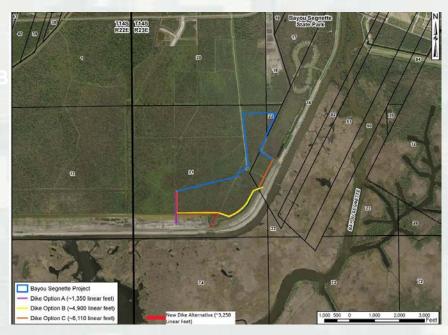
Marsh Creation from lake borrow sources.

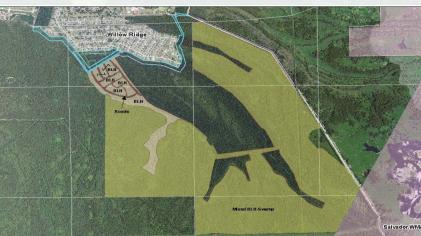
Fish dips will be constructed if they haven't naturally occurred after marsh establishment complete.

EM: Nathan Dayan



WBV PREVIOUSLY AUTHORIZED MITIGATION





Status:

Engineering and Design:

P&S completed

Environmental Compliance:

NEPA compliance achieved under SEA 498

Real Estate:

Acquisition Phase

Project features:

- •Water Retention Dike
- Eradication of Invasive Species
- BLH Planting
- Feral Pig Exclusion Fencing
- Preservation

EM: Nathan Dayan



TERREBONNE NFL MITIGATION



Status:

Engineering and Design:

Project is under construction

Environmental Compliance:

NEPA compliance achieved under EA 450

Real Estate:

Complete

Project features:

Project involves obtaining dredged material from Lake Boudreaux and placing it in 3 sites for a total of 74 acres of marsh creation.

EM: Elizabeth Behrens

