Houma Navigation Canal
Lock Complex

Status Update
April 25, 2016
Agenda

- Timeline
- Morganza to the Gulf Status Update
- Proposed Houma Navigation Canal Lock Features
- Public Comments
2016

- Complete Preliminary Report Phase
  - Analysis of alternative structures and alignments.
  - Establish Ecological Benefits
- Begin Permitting Process
  - Perform Archeological Investigation
  - CUP, Corps 404, Corps 408

2017

- Preliminary Design
- Begin final Design
- Continue Permitting

2018

- Finalize Design
- Complete Permitting
- Start Construction
Reggie Dupre
Executive Director
Morganza to the Gulf
Levee Alignment and Structures
Interim Flood Risk Reduction Project

Morganza to the Gulf

- Miners Canal Floodgate
- GIWW Floodgate
- Upper Little Caillou Auxiliary Structure
- Bourg
- Grand Bayou Floodgate
- Bayou Blue Floodgate
- Pointe-aux-Chenes
- Reach K
- Reach L
- Reach A
- Dulac
- Upper Dulargue Floodgate
- Falgout Canal (Bubba Dove) Structure
- Lower Dulargue Levee West
- Lower Dulargue Levee East
- Bayou Grand Caillou Floodgate
- Houma Navigation Canal (Bubba Dove) Structure
- Four Point Bayou Structure
- Placid Canal Floodgate
- Reach G-1
- Reach F
- Reach H-1
- Reach H-2
- Reach H-3
- Reach J-1
- Reach J-3
- Reach J-2
- Reach J-3
- Reach K
- Reach L
- Placid Canal (Willis Henry) Floodgate
- Humble Canal Floodgate
- Bayou Torrebonne Floodgate
- Bush Canal (Willis Henry) Floodgate
- Boudreaux Canal Floodgate

CBI

CBI

CBI

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CBI
Reach H2 and Bayou Petit Caillou Floodgate
October 2015
Bubba Dove Flood Gate

• **Project Dates:**
  • Notice to proceed with design - January 2009
  • Construction Complete - August 2013

• **Current Structure:**
  • Steel receiving structure, a 273-foot long by 60-foot wide steel swing barge gate, a braced steel sheet pile floodwall, and earthen levee tie-ins. The current protection of the Bubba Dove Gate is +18.0 elevation.
Bubba Dove
Floodgate
(Looking Southwest)
Proposed Project Features

- **Operations Area**
- **Access Road**
- **East Levee Tie-In**
- **East Flood Wall**
- **Sector Gate (Flood Side)**
- **250’ Floodgate**
- **Lock Chamber**
- **Control House**
- **Sector Gate (Protected Side)**
- **250’ Floodgate Receiving Structure**
- **West Levee Tie-In**
- **West Flood Wall**

A World of Solutions
HNC Lock Complex Proposed Alternative 1

Reach F

Reach G

A2 / A3 - ALIGNMENT

A1 - ALIGNMENT

PROJECT ALIGNMENT
HNC Lock Complex Proposed Alternative 2

Reach F

Reach G

PROJECT ALIGNMENT

A1 - ALIGNMENT

A2 / A3 - ALIGNMENT
HNC Lock Complex Proposed Alternative 3

Reach F

Reach G

PROJECT ALIGNMENT
HNC Lock Complex – Bayou Plat Access

- Bayou Plat
- Reach G
- Reach F
- New Access
Salinity Reduction

- Manage Saltwater Intrusion into Northern Terrebonne Basin
- Facilitate disbursement of Freshwater from Atchafalaya River
- Slow fresh/brackish wetland deterioration
- Improve habitat for fish & wildlife
- Minimize Saltwater Impacts to Houma Water Treatment Plant

Management of Freshwater

- Operate in concert with Increase Atchafalaya Flow to Terrebonne Master Plan Project (State Project No. TE-110)

Saves est. 3,400 acres of marsh over 50 year timeline
Salinity Model – HNC Lock Complex Open
Salinity Model – HNC Lock Complex Closed
Protection Benefits:

- Reduced risk of hurricane storm surge flooding
- Ability to close the HNC earlier and still maintain navigation.
- Accommodation of commercial & recreational navigation before and after storms. (Safe Harbor)
- Improved long-term economic health of region
Navigation:

- A navigation study is currently being performed to determine future vessel traffic.
- The proposed lock will allow navigation to continue longer in the event of a storm.
- The new lock complex will provide a 250’ gate to allow the larger vessels and offshore tows to pass.
- The new lock complex will accommodate the HNC to be dredged to a 20’ depth allowing larger vessels to traverse the HNC without environmental impacts.
- The deeper draft will promote growth in the Port of Terrebonne and industry that is serviced by the HNC.
2014 data traffic is focused primarily in / out of the Bayou Lafourche waterway.
Brad Miller
Project Manager
Current Status of Funding:

- Currently CPRA is using State Surplus dollars to fund $18M of E&D.
- An additional $16M for E&D has been approved for funding under the Direct Component of the RESTORE Act.
- CPRA’s 2012 Master Plan and FY 17 Annual Plan include the HNC Lock Project.
Future Status of Funding:

• CPRA is currently working on its updated RESTORE Plan to address both Direct Component and Spill Impact Component funds.

• HNC will be included in this updated Plan subject to public comment and CPRA Board approval.

• CPRA is working with the RESTORE Council and the U.S. Department of Treasury to determine the options for using RESTORE dollars to fund large-scale projects in the near term while working under a 15-year payout schedule.
Houma Navigation Canal
Lock Complex

Public Hearing
Submit Written Comments to:

ATTN: Nicholas Matherne
CB&I
197 Elysian Dr.
Houma, LA 70363

Submit Comments By Email to:
hnclockcomplex@cbi.com
QUESTIONS/COMMENTS
Proposed Project Features

- **Lock Chamber**
- **Sector Gate (Protected Side)**
- **Control House**
- **Operations Area**
- **Access Road**
- **East Levee Tie-In**
- **250’ Floodgate (Flood Side)**
- **250’ Floodgate (Protected Side)**
- **West Levee Tie-In**
- **West Flood Wall**
- **East Flood Wall**
- **Receiving Structure**
Thank You for Your Participation
- Fill Out & Hand In Speaker Card
- Time Limit: 3 minutes
- Guidance: 1 min, 30 sec, and Time Elapsed
- Speaker Cards will be collected until 7:30 pm
- Written and Email Comments accepted through May 13, 2016