

# REDFISH TO BAYPORT CONSTRUCTION HSC ECIP / PROJECT 11 UPDATE

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WEDA Gulf Coast Chapter Meeting  
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Visit: [www.expandthehoustonsipchannel.com](http://www.expandthehoustonsipchannel.com)



PORT HOUSTON

# PROJECT 11

## HOUSTON SHIP CHANNEL EXPANSION

1A

### Bolivar Roads to Redfish

- Approximately 11.5 miles in length
- Widen Channel to 700 feet
- Bend easing
- Construct New Bird Island
- Mitigate for oyster habitat loss

1B

### Redfish to Bayport Ship Channel

- Approximately 8.3 miles in length
- Widen Channel to a minimum of 700 feet
- Bend easing
- Construct marshes and three bird islands in Galveston Bay
- Mitigate for oyster habitat loss
- Currently not in the proposed federal plan, so must be built by local interests

1C

### Bayport Ship Channel to Barbours Cut

- Approximately 5 miles in length
- Widen Channel to 700 feet
- Construct additional marshes
- Mitigate for oyster habitat loss
- Currently not in the proposed federal plan, so must be built by local interests

2

### Bayport Ship Channel

- Approximately 4 miles in length
- Widen Channel to approximately 455 feet
- Construct marshes and three bird islands in Galveston Bay
- Mitigate for oyster habitat loss
- Modify channel entrance to reduce shoaling

3

### Barbours Cut Ship Channel

- Widen Channel to approximately 455 feet
- Construct additional marshes on Atkinson Island
- Modify channel entrance

4

### Boggy Bayou (BW 8) to Sims Bayou\*

- Widen Channel to approximately 530 feet through Greens Bayou confluence
- Deepen from existing 41 feet to 46.5 feet from Boggy Bayou to Hunting Bayou (last Turning Basin before reaching Washburn Tunnel)

5

### Sims Bayou to IH 610\*

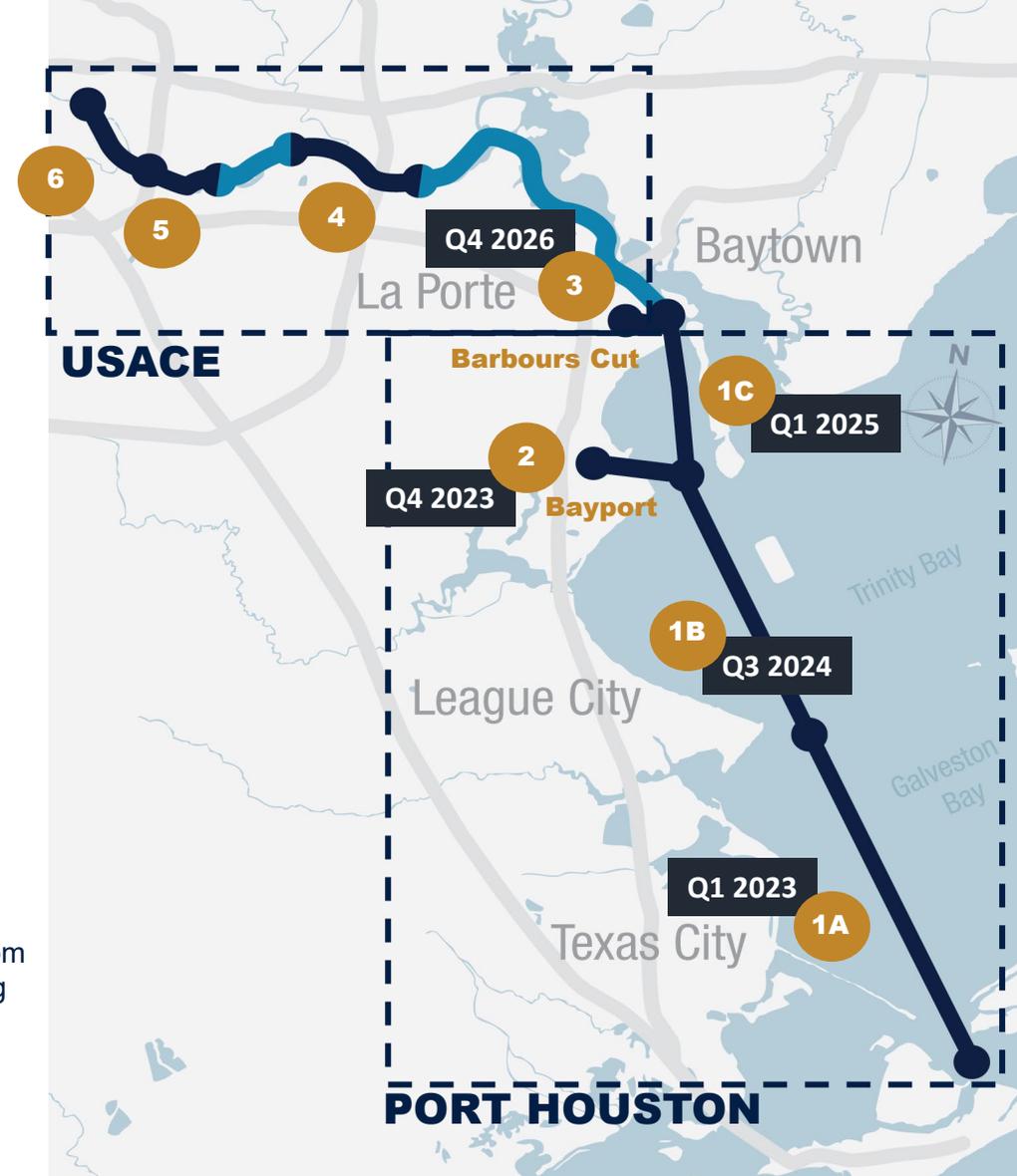
- Deepen from existing 37 feet to 41.5 feet

6

### IH 610 to Turning Basin\*

- Deepen from existing up to 41.5 feet
- Increase Brady Island Turning Basin

\* Pending federal appropriations



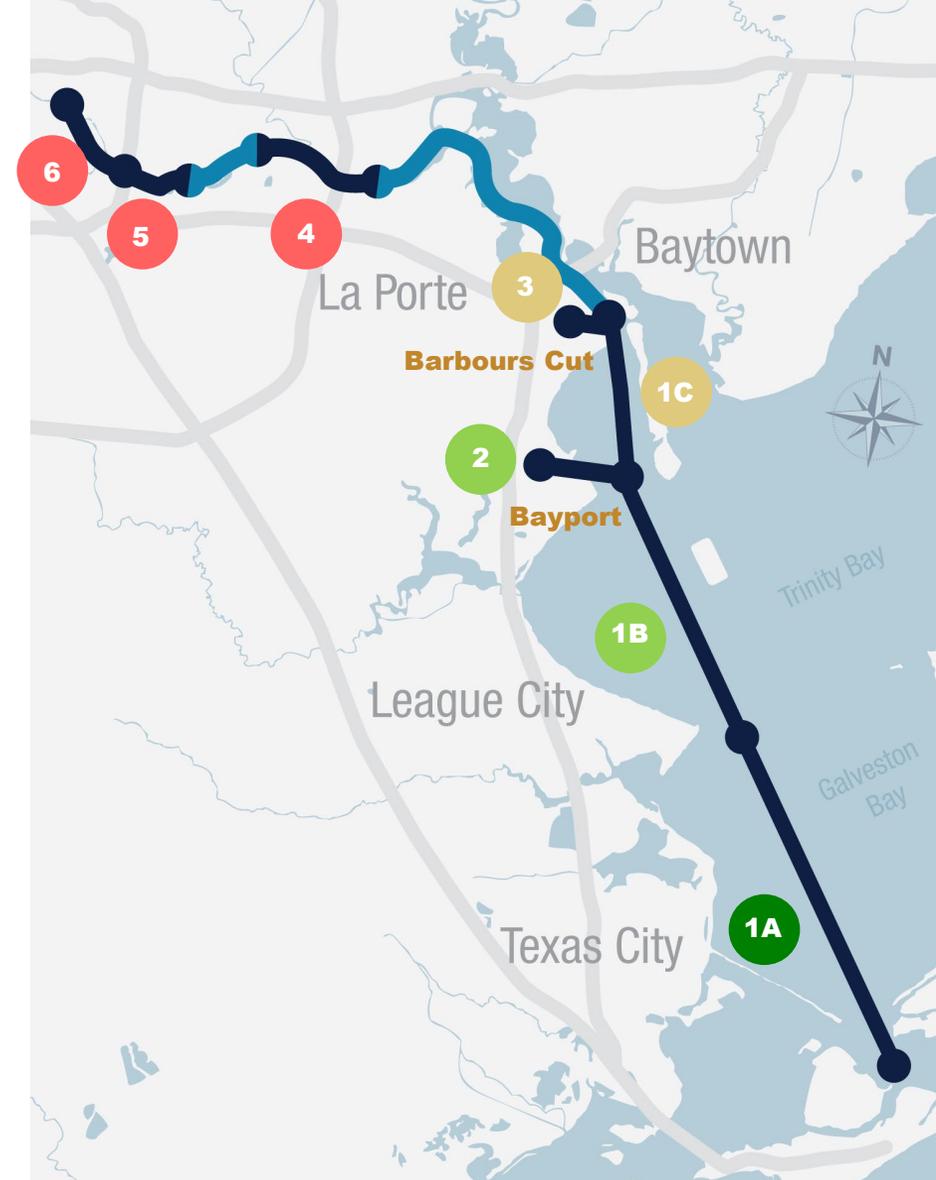
No work planned in these areas



# PROJECT 11

## TENTATIVE PROCUREMENT AND CONSTRUCTION SCHEDULE

Package		Segment	Advertise	Construction	
Completed	1	1A	Aug 2021	USACE	Jan - Oct 2022
	2	4	Feb 2021	Port	Jun 2021 - Jun 2022
	Abandoned Pipeline Removal	1A, 1B, 1C	Aug 2021	Port	Jan - Jul 2022
Under Contract	3/4A	1A	Jul 2021	Port	Feb 2022 - Mar 2023
	4B/5	1B, 1C, 2	Nov 2021	Port	Oct 2022 - Sept 2024
Funded	6	1C	Oct 2023	Port	Apr 2024 - Feb 2025
	7	3	Nov 2023	USACE	Jun 2024 - Dec 2026
	8 – E2C	4	Feb 2024	USACE	May 2024 - May 2025
Pending Federal Appropriations	8 – BW8	4	Apr 2024	USACE	Jul 2024 - Jul 2025
	9	4	Mar 2025	USACE	Aug 2025 - Aug 2026
	10, 11	5, 6	Sept 2024	USACE	Feb 2025 - Feb 2026
	12	5, 6	Nov 2025	USACE	Apr - Dec 2026



—●— No work planned in these areas



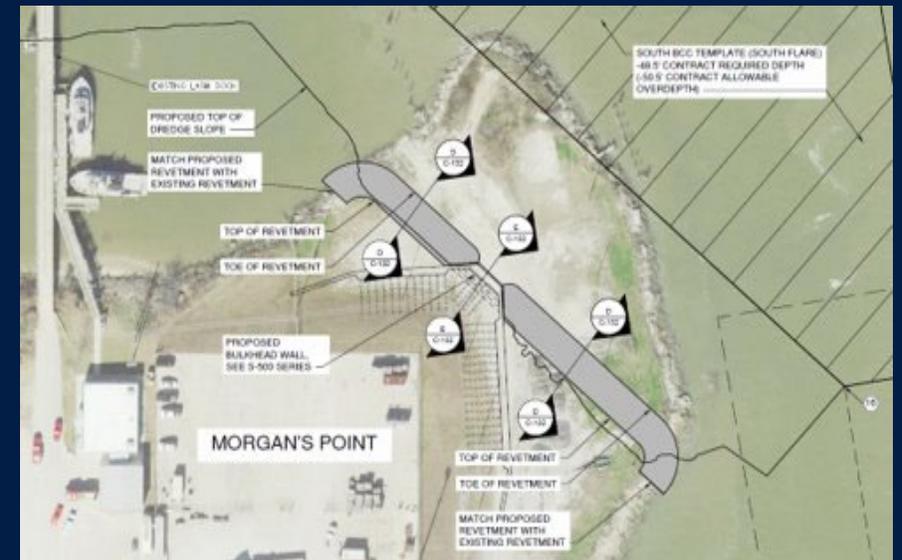


# Upcoming Projects

## Segment 3 Construction



Funded



# Upcoming Projects

Segments 4, 5, & 6 DMPA

**Segment 4:** Boggy Bayou (BW 8) to Sims Bayou



Funded

Pending federal appropriations

**Segments 5 and 6:** Sims Bayou to Turning Basin



Pending federal appropriations

# Package 4B/5 - Redfish to Bayport

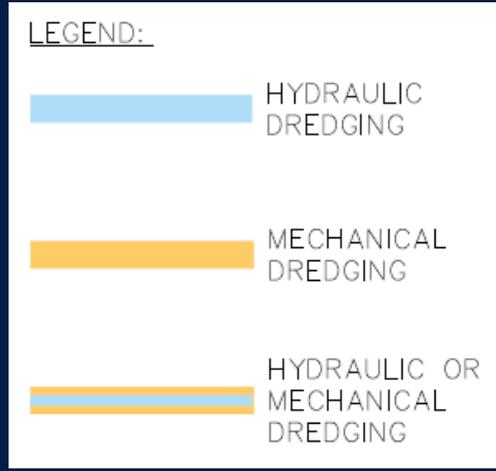
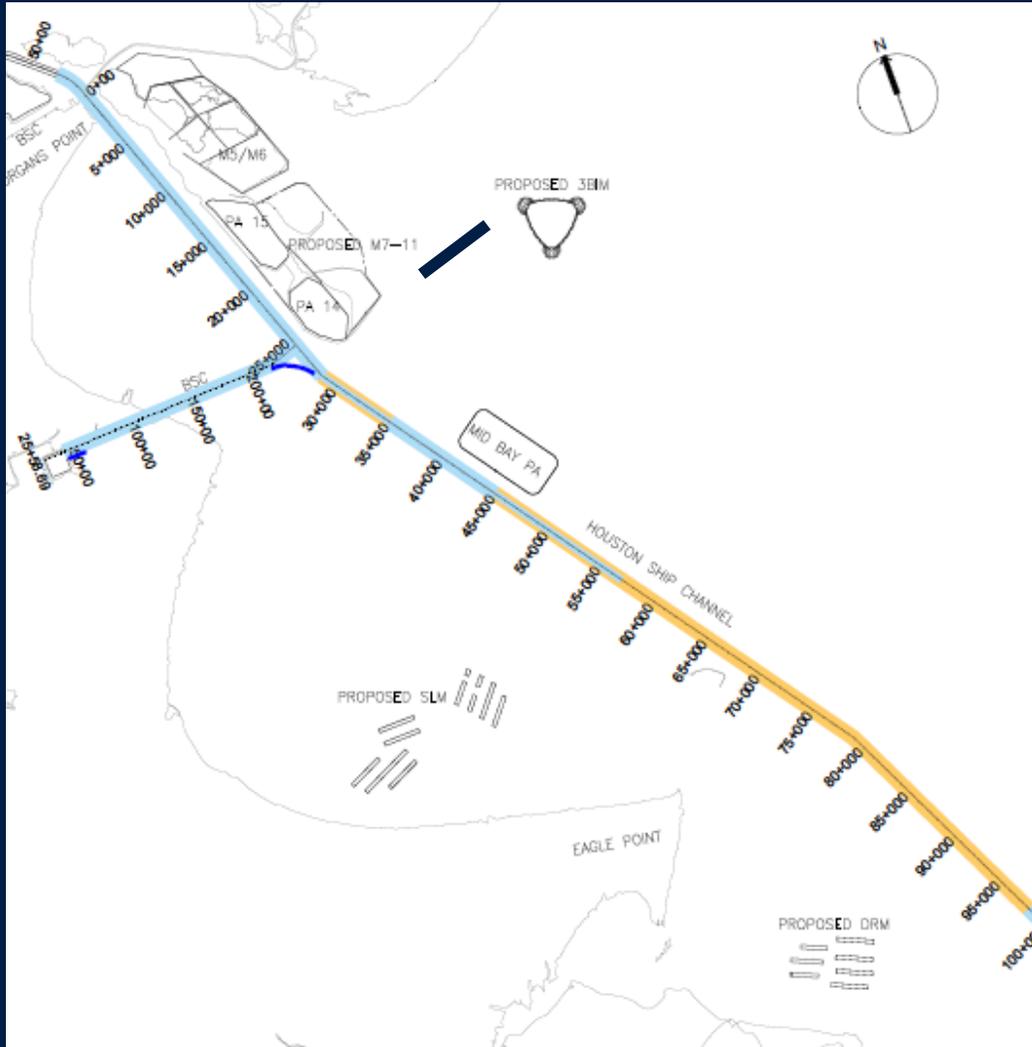
## Overview





# Package 4B/5 - Redfish to Bayport

## Overview



# Hydraulic Methodology

Overview – Weeks Marine Inc.



Dredging



PORT HOUSTON

# Hydraulic Methodology

Bayport North Shore



Noise Mitigation



# Hydraulic Methodology

Bayport North Shore



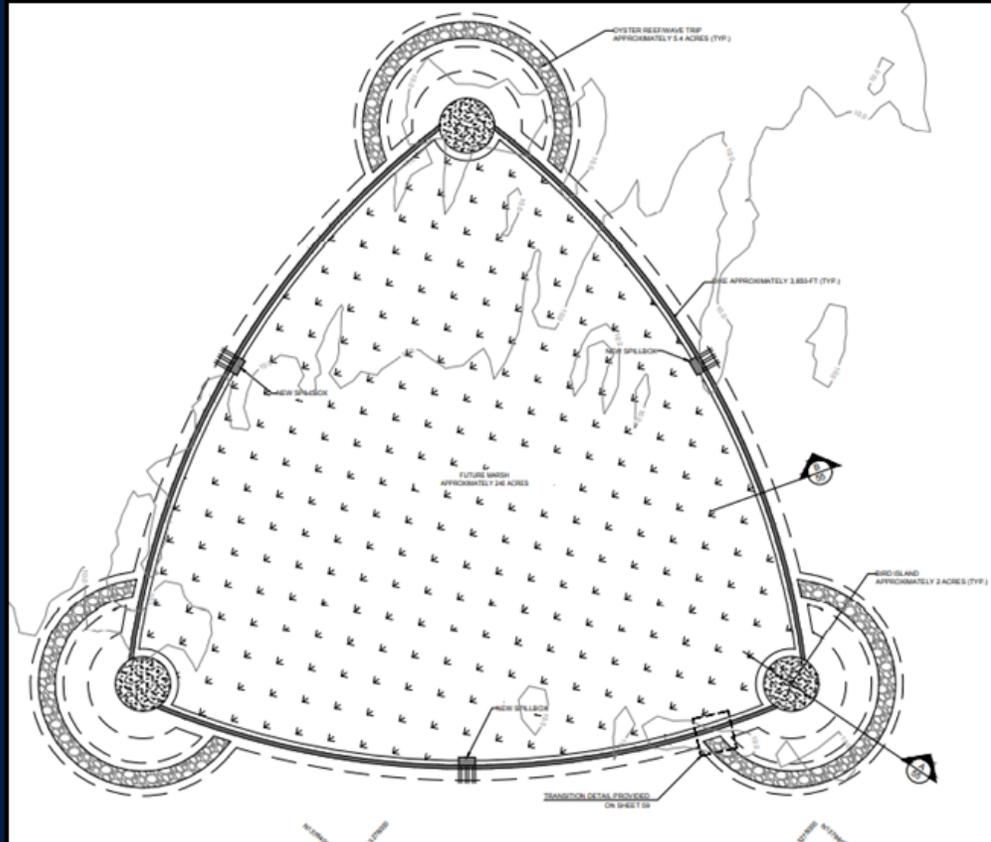
Noise Mitigation



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# Hydraulic Methodology

## Three Bird Island Marsh



## Three Bird Island Design

# HYDRAULIC METHODOLOGY

THREE BIRD ISLAND MARSH



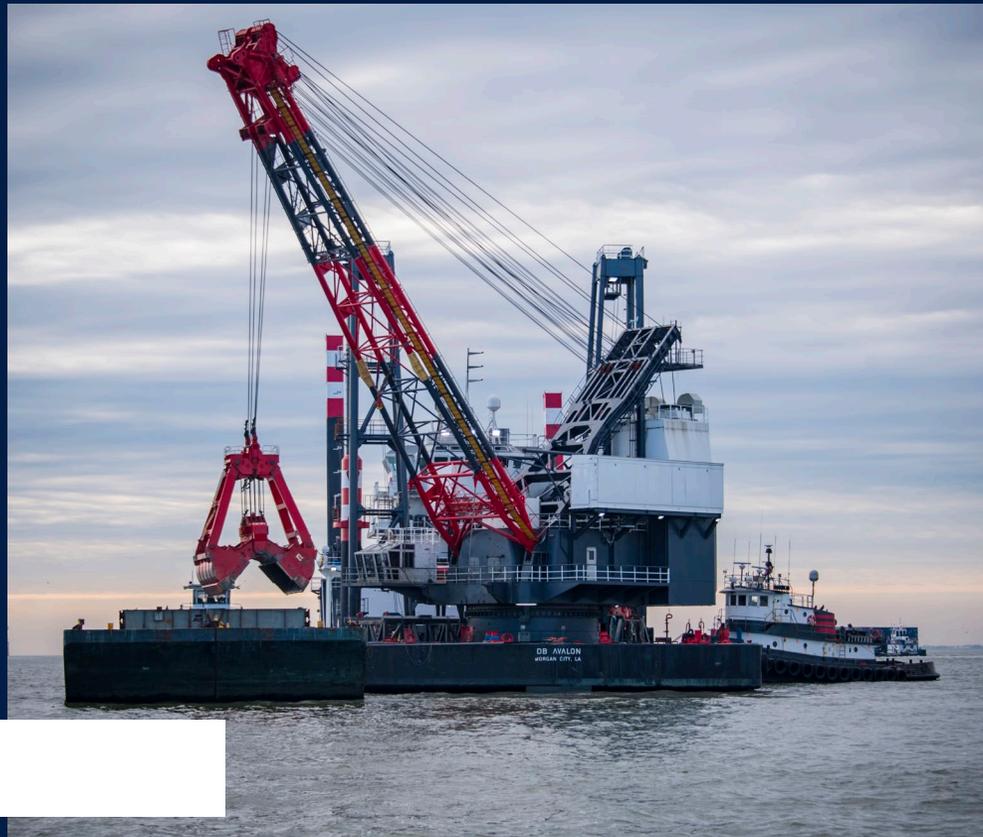
Three Bird Island Construction



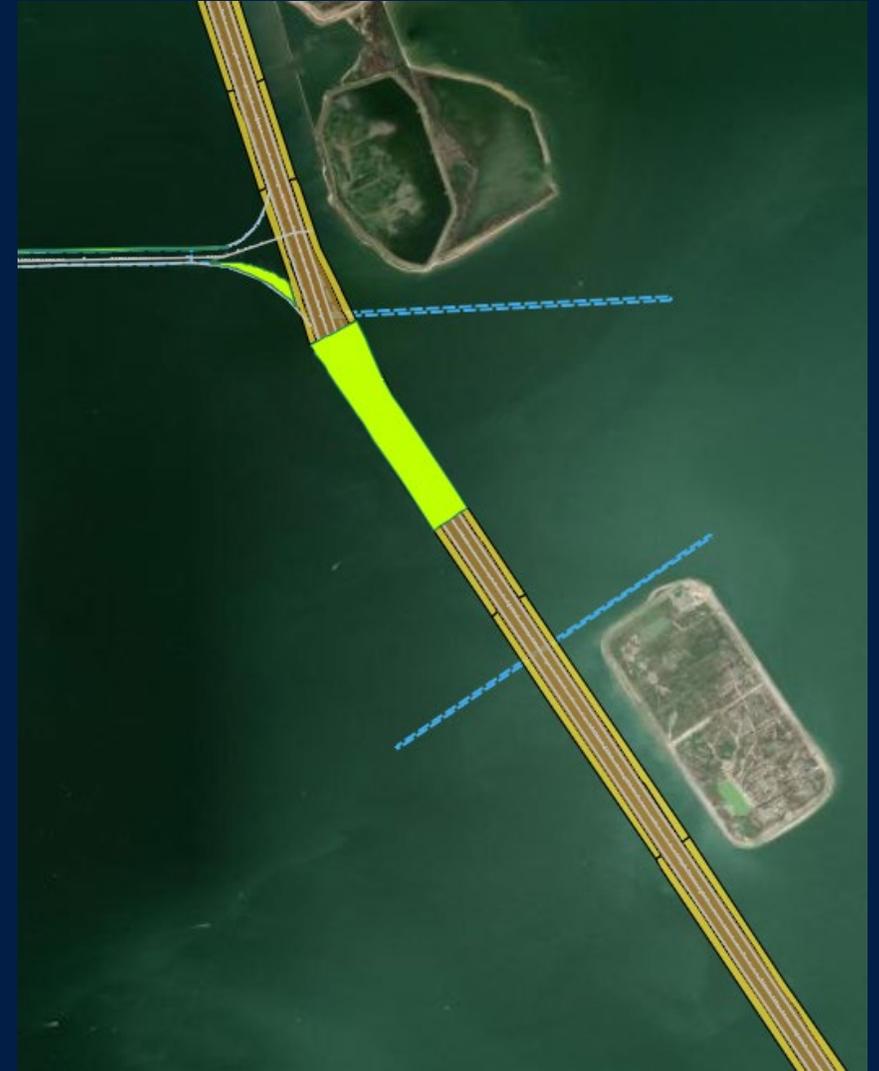
PORT HOUSTON

# MECHANICAL METHODOLOGY

OYSTER MITIGATION CONSTRUCTION



Dredging



# MECHANICAL METHODOLOGY

OYSTER MITIGATION CONSTRUCTION

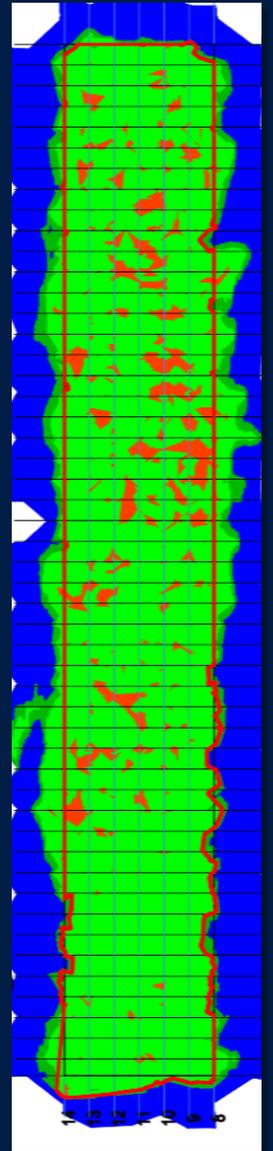
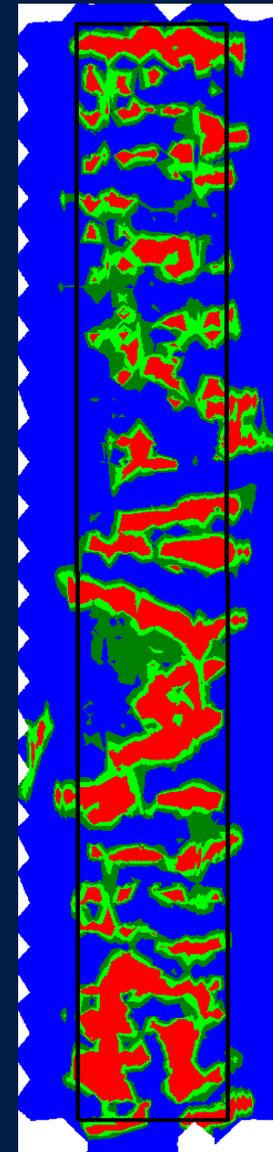


Disposal



# MECHANICAL METHODOLOGY

OYSTER MITIGATION CONSTRUCTION



Drag Operations



# MECHANICAL METHODOLOGY

OYSTER MITIGATION CONSTRUCTION



Cultch Material Inspection

# MECHANICAL METHODOLOGY

OYSTER MITIGATION CONSTRUCTION



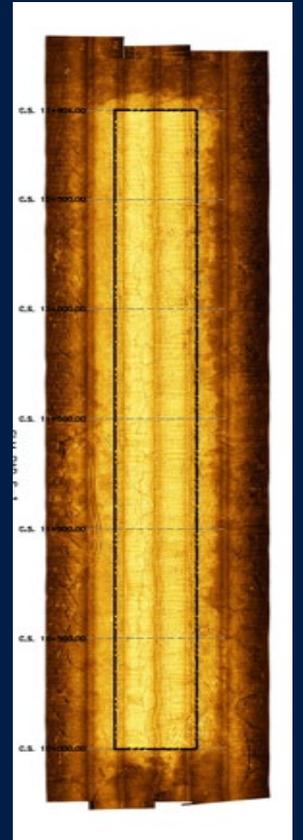
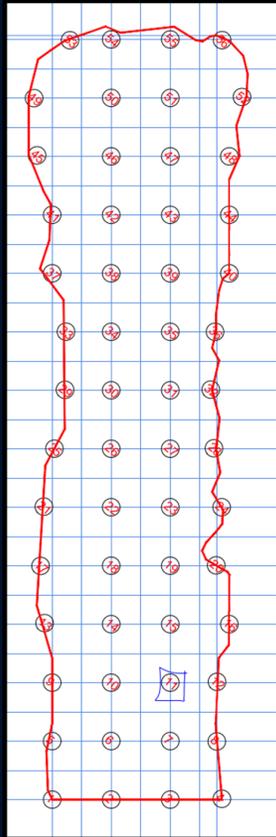
Cultch Placement



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# MECHANICAL METHODOLOGY

## OYSTER MITIGATION CONSTRUCTION



## Cultch Placement Inspection



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# PROJECT 11

ENVIRONMENTAL, INDUSTRY, AND SAFETY



**10 acres** created with material from Segments 1A through 1C and 2

**Bird Islands**



**324 acres** created with material from Segments 1A and 1B

**Oysters**



**800 acres** created with material from Segments 1A through 1C, 2 and 3

**Marsh**



**3-7% regional air quality improvement** via increased vessel efficiency & reduced congestion

**Air Quality**



# PROJECT 11

## IMPROVED CHANNEL VALUE TO STAKEHOLDERS

- Combined beam meeting rule increased from 310' to 340'
- Move daylight restriction from Bolivar Roads to Morgans Point
- Container vessels over 1000' LOA will not be daylight restricted



# PROJECT 11

RETHINKING THE TRADITIONAL PROCESS – DESIGN CONSULTANT TEAMS



Industry

State and Federal Agencies



PORT HOUSTON  
THE INTERNATIONAL PORT OF TEXAS



Corps



# QUESTIONS?

**View** the Project 11 Bid Packages:

<https://buyspeed.porthouston.com>

<https://sam.gov/opp/483581ae59b441a2a1f614b7aca8ce97/view>

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**Visit** the Project 11 Webpage

<https://www.ExpandTheHoustonShipChannel.com/>

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