
COASTAL PROTECTION AND RESTORATION AUTHORITY
CPRA

BA-203 Barataria Basin Ridge and Marsh Creation – Spanish Pass Increment

Pre-Solicitation Meeting

CPRA
Coastal Protection and Restoration Authority of Louisiana

Please sign the attendance sheet, which will be made available

Project Purpose

The Barataria Basin Ridge and Marsh Creation Project is a large-scale restoration strategy for the Barataria Basin. Spanish Pass is the first increment, with goals to:

1. Create/nourish approximately 1,134 acres of saline marsh
2. Create 120 acres of marsh ridge

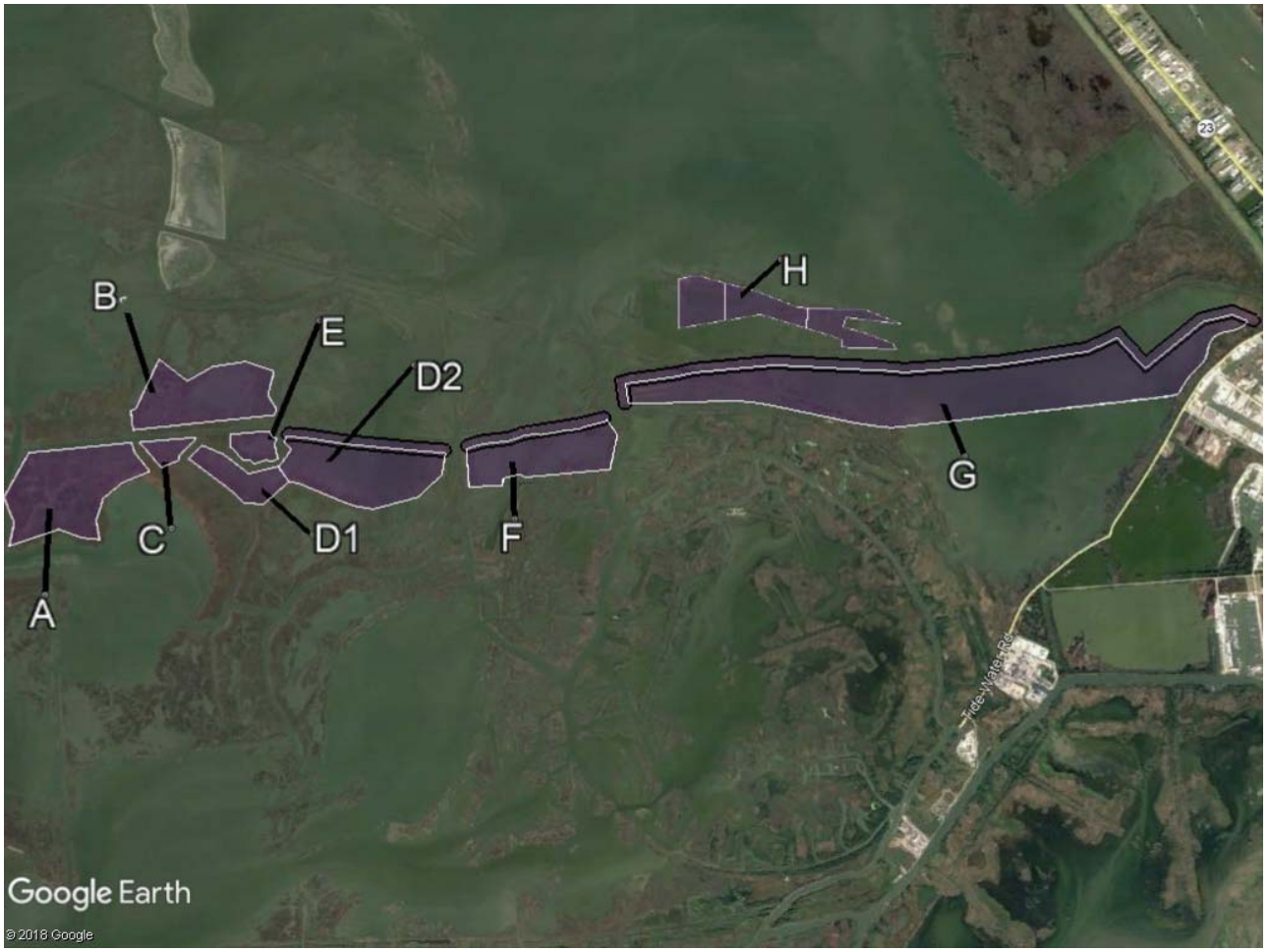
Sponsored jointly by NMFS and CPRA, funded by NRDA with money from DWH Oil Spill

Data Collection to Support Design

Data Collection in Borrow Sources and Fill Area

- Elevation + Magnetometer Surveys
- Geophysical investigation of borrow
- Cultural Resource Surveys
- Geotechnical Surveys

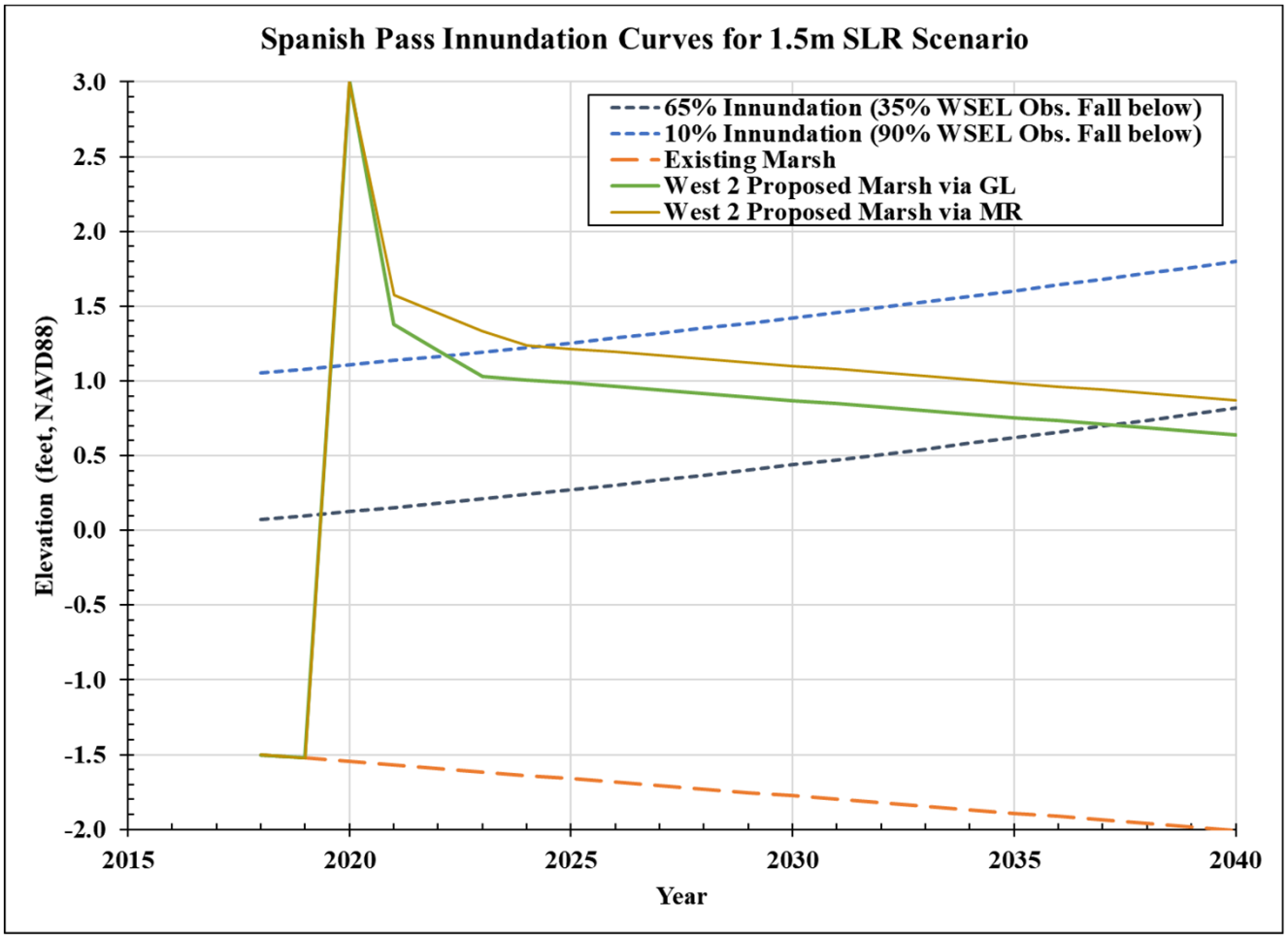
Fill Area Review:
Ridge & Marsh Creation Area Layout



- Marsh Creation Areas (MCA)
- MCA A to G = base fill area
- MCA H is Additive Alternate (if project has enough $$)
- MCA B and E must be constructed using river sand (due to poor soil strength)

CPRA Baird.

Fill Elevation



- Four separate soil conditions across project
- Construction elevation varies between +3.3 to +1.6

Fill Volumes

MCA	Volume from River	Volume from GL/River
A	457,000	1,640,000
B	959,000	959,000
C	49,000	230,000
D1	141,000	471,000
D2	1,582,000	1,582,000
E	76,000	76,000
F	1,069,000	1,069,000
G	5,950,000	5,950,000
H	993,000	993,000

- In CY
- Total in place volume varies 11.28M to 12.99M

GT1
GT2

Project Layout + All Investigated Borrow Sources

- Design Process Investigated & Screened Multiple Sources

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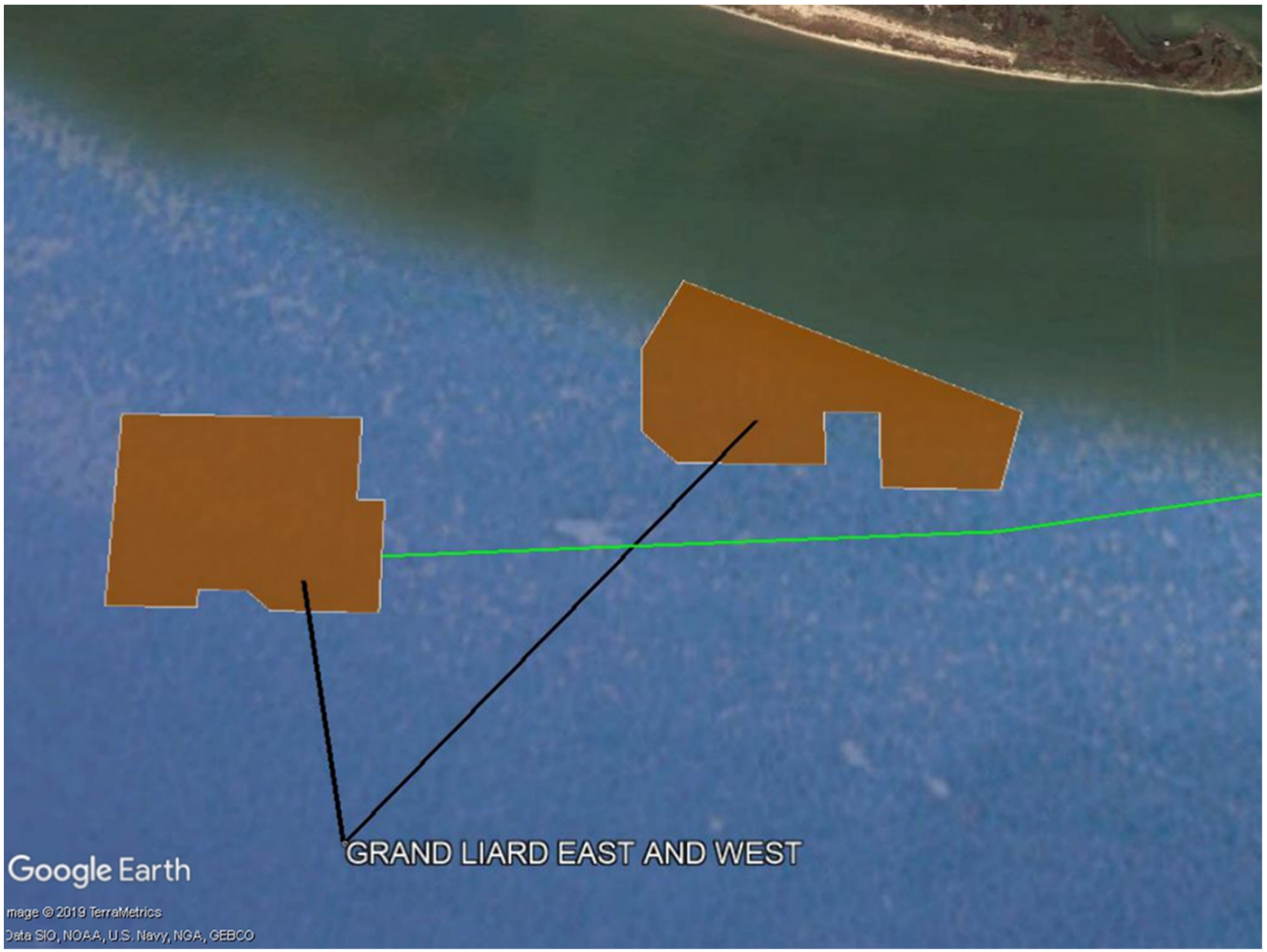
Slide 8

GT1 I would not state an assume volume. Give in place volume
Gordon Thomson, 11/25/2019

GT2 Gordon Thomson, 11/25/2019

Borrow Area Review: Grand Liard



Clay with silt and less than 5% sand

GL West

- 2.5M CY
- Can only be used for MCA A, C, D1 & D2
- Needs containment dikes and access for bucket dredge

- MCA A, C, and D1 require 2,341,000

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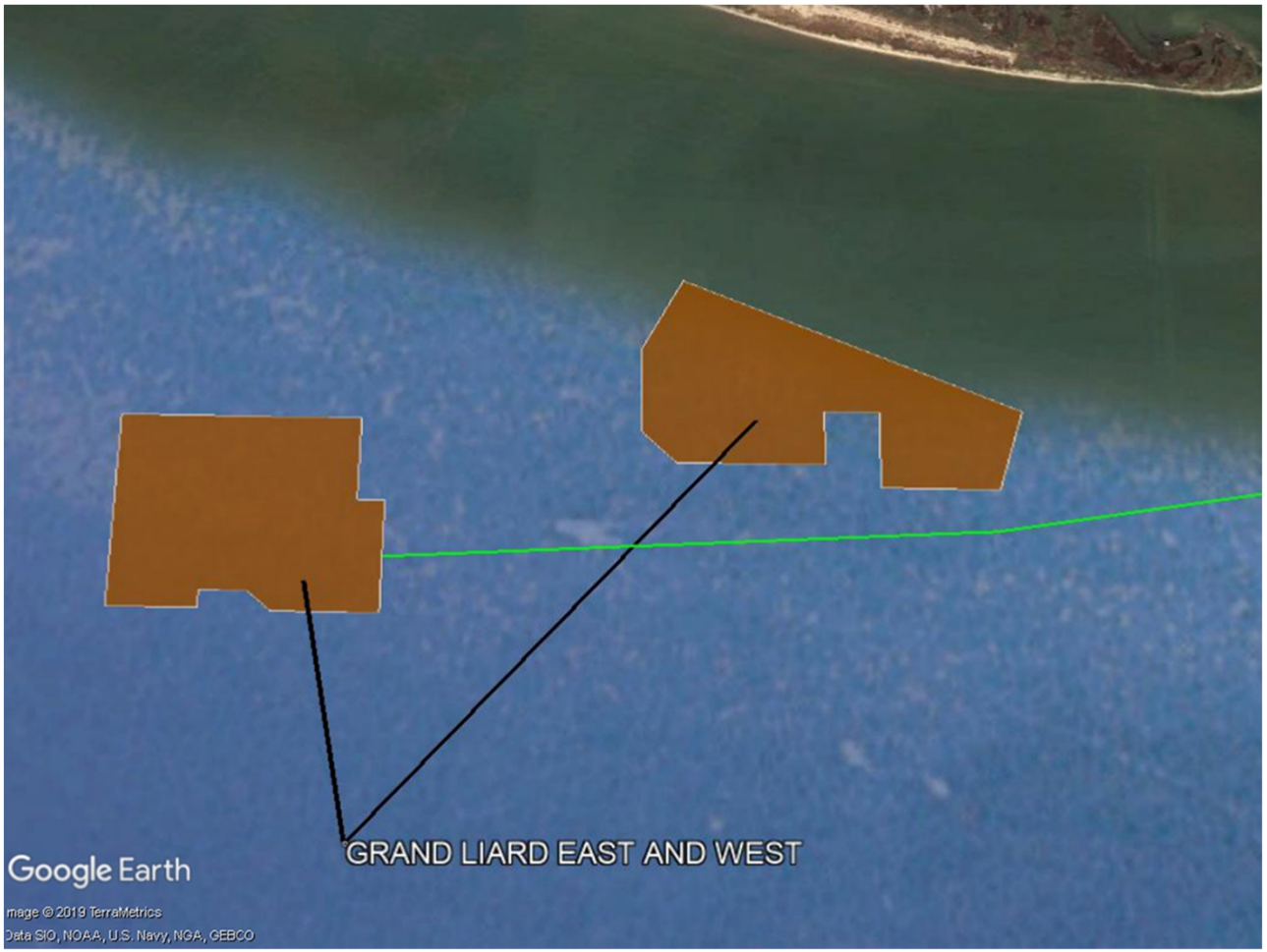
Borrow Area Review: Grand Liard



Clay with silt and less than 5% sand

GL East

- 4.2M CY
- Previously dredged
- Very loose, uncompacted sediment that may not be worth dredging
- Prefer to avoid dredging this borrow area

CPRA Baird.

Borrow Area Review:
B2

B2 North

- 8.5M CY
- 92% Sand

B2 South

- 7.5M CY
- 85% to 55% Sand
- Siltier going south

Borrow Area Review: DDDD (Venice Anchorage)

- ~21M CY
- 87% Sand

Borrow Area Review: BBBB (Pilottown Anchorage)

- 82M CY
- 87% Sand

Preliminary Bid Quantities

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **HYDRAULIC DREDGE MOBILIZATION AND DEMOBILIZATION**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
1	1	LUMP SUM		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **DREDGE PIPELINE MOBILIZATION, INSTALLATION, AND DEMOBILIZATION**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
2	1	LUMP SUM		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **GENERAL MOBILIZATION AND DEMOBILIZATION**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
3	1	LUMP SUM		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **SURVEYS**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
4	1	LUMP SUM		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **GRADE STAKES**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
5	1	LUMP SUM		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA A**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
6	457,000	CUBIC YARD		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA B**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
7	959,000	EACH		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA C**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
8	49,000	CUBIC YARD		

NOAA CPRA Baird.

Preliminary Bid Quantities

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA D1**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
9	141,000	CUBIC YARD		

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA D2**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
10	1,582,000	CUBIC YARD		

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA E**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
11	76,000	LUMP SUM		

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA F**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
12	1,069,000	CUBIC YARD		

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **PLACEMENT OF MARSH AND RIDGE FILL (FROM MISSISSIPPI RIVER) – MCA G**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
13	5,950,000	LUMP SUM		

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **DAILY BIRD OBSERVATION AND ABATEMENT**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
14	400	DAY		

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **ADDITION FOR MARSH AND RIDGE FILL PLACEMENT - MCA H1**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
15	363,000	CUBIC YARD		

DESCRIPTION:	□ Base Bid or □ Alt.# ___ **ADDITION FOR MARSH AND RIDGE FILL PLACEMENT - MCA H2**			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
16	305,000	CUBIC YARD		

NOAA CPRA Baird.

Preliminary Bid Quantities

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ ADDITION FOR MARSH AND RIDGE FILL PLACEMENT - MCA H3			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
17	325,260	CUBIC YARD		

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ Not Applicable			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ Not Applicable			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ Not Applicable			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
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DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ Not Applicable			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
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DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ Not Applicable			
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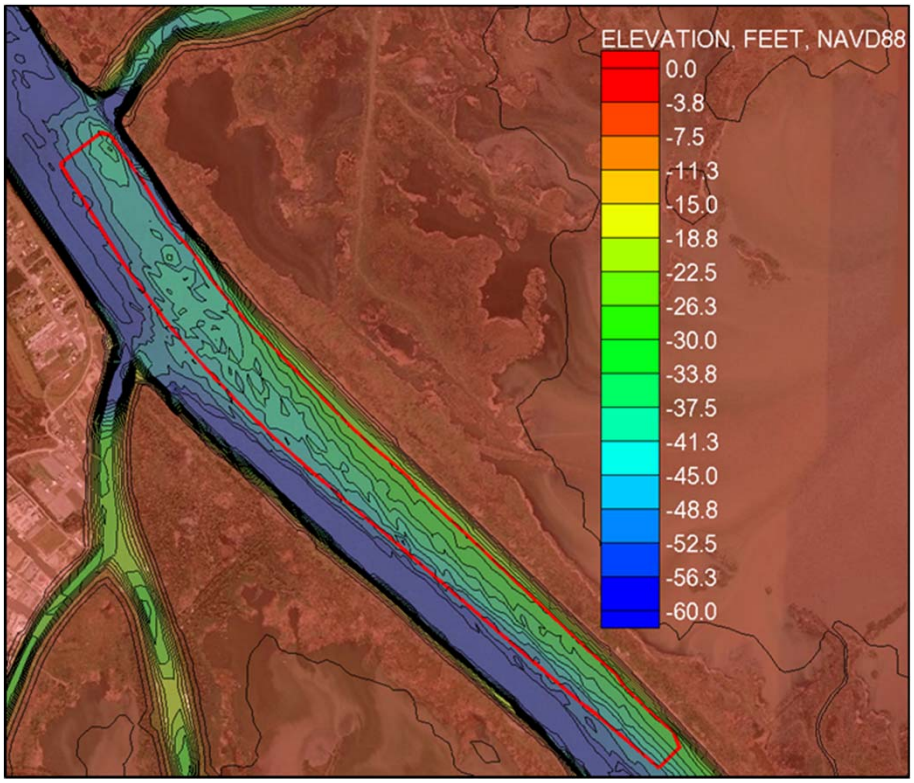
DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ Not Applicable			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

DESCRIPTION:	☐ Base Bid or ☐ Alt.# ___ Not Applicable			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

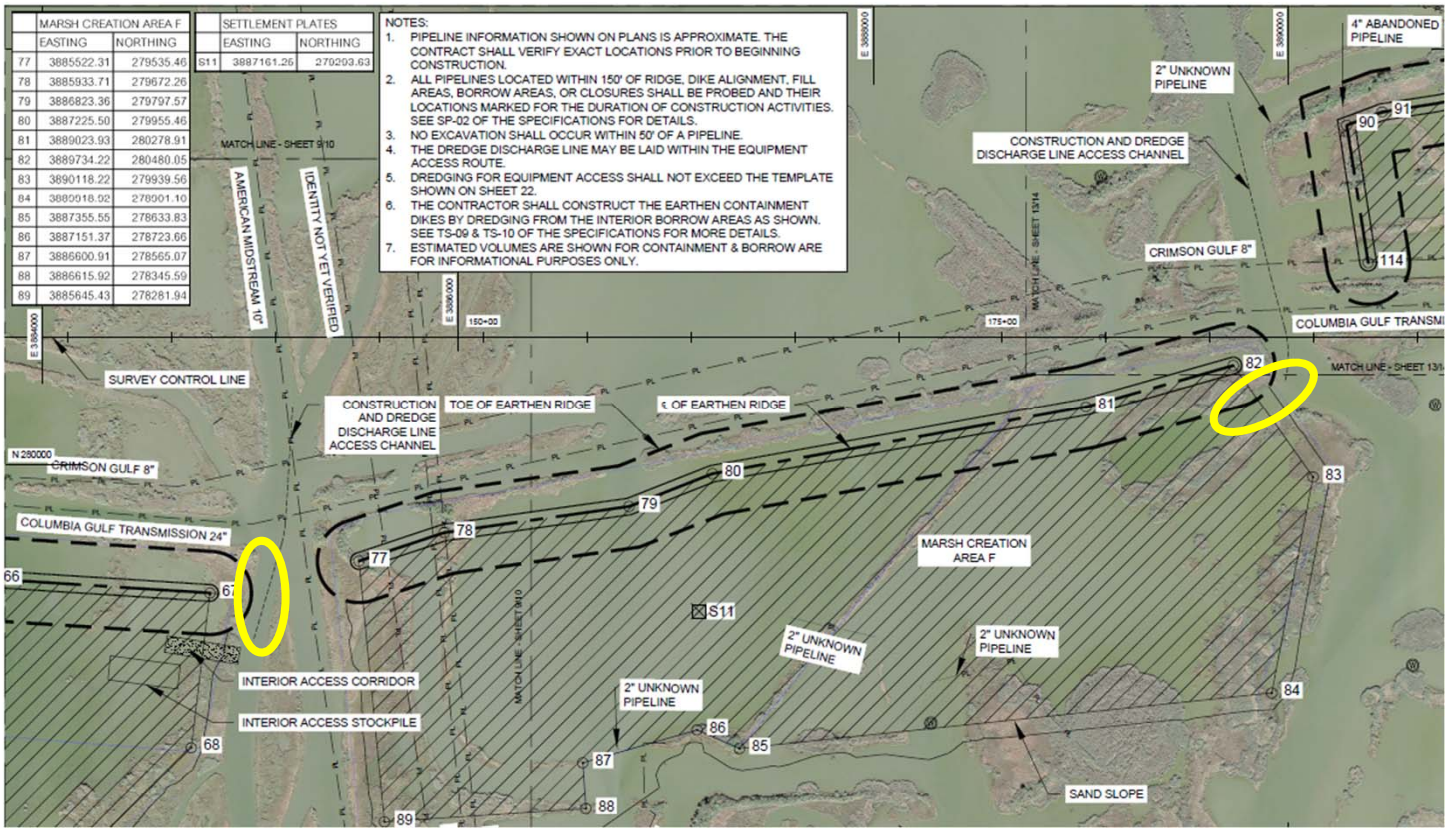
Questions for Contractors:



1. We are anticipating permitting a crossing at the entrance of Grand Pass.
2. We anticipate two options:
   - Close river, float pipe over and sink
   - Pull pipe across river
3. Are there any concerns with this location?
4. We have estimated 1 month to pull pipe across the river. Is this realistic?

Questions for Contractors:

5. Are the proposed booster pump locations adequate to meet industry needs?



Western location
Depth ~6’
Distance ~5.8 miles

Eastern Location
Depth ~10’
Distance ~4.8 miles

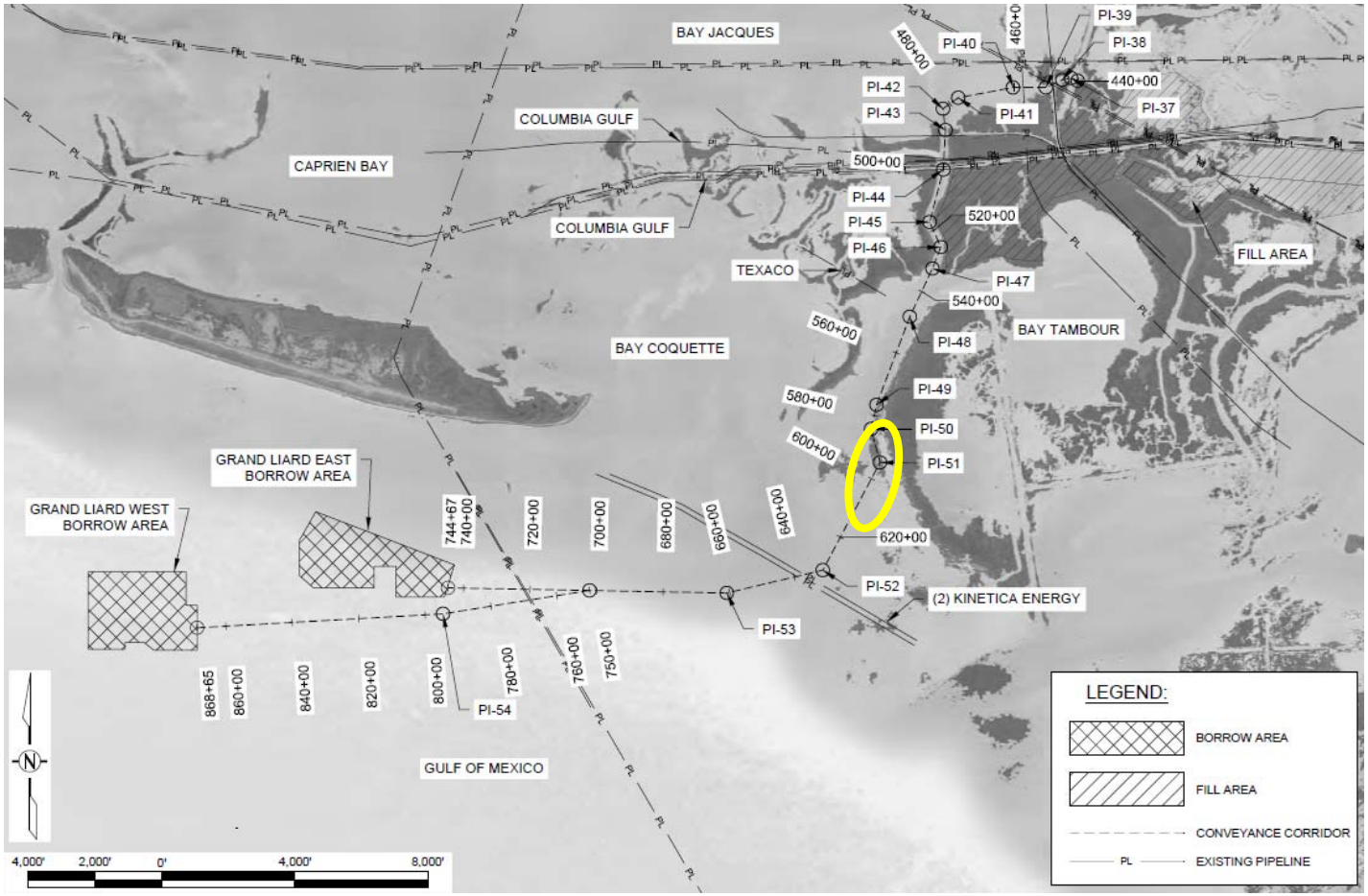
Questions for Contractors:

6. Are the proposed booster pump locations adequate to meet industry needs?

Plan to permit long swath along Grand Pass

Questions for Contractors:

7. Are the proposed booster pump locations adequate to meet industry needs?



location ~ PI-51

Questions for Contractors:

8. Do you foresee any difficulty constructing the MCA's without a containment dike using the Mississippi River sediment, which has a median grain size of approximately 0.17mm and contains between 6% and 18% silt in DDDD and BBBB (average of 13% each)?

We anticipate:

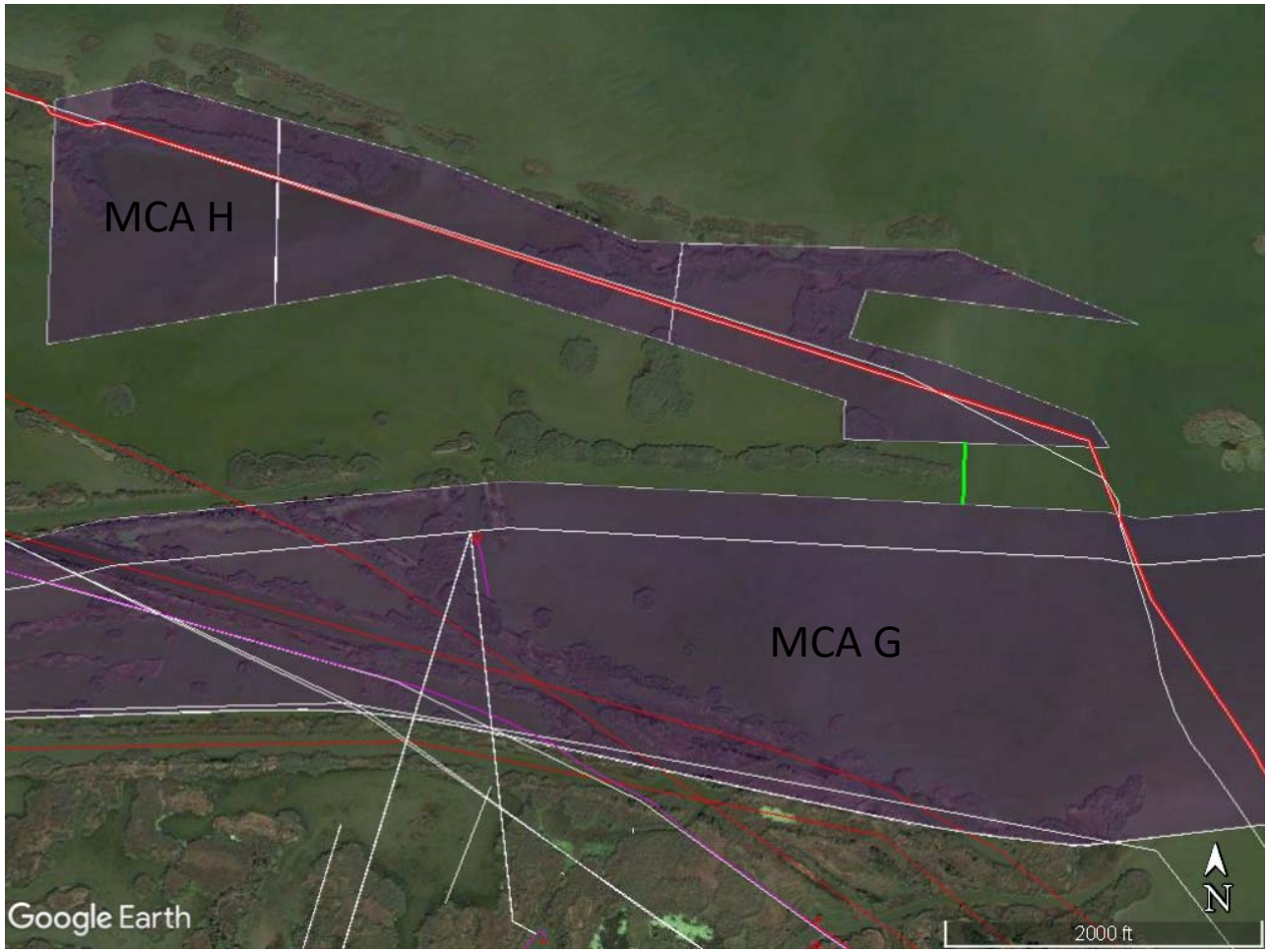
Unconfined disposal similar to:

- Chaland Headland (85% sand)
- Shell Island West (94% Sand)
- Chenier Ronquille (79% Sand)

Semi-submerged dike features ahead of the main fill to protect pipelines and/or prevent mudwaves

Questions for Contractors:

9. MCA H is separated from G by historic Spanish Pass. Would a 15’ wide temporary sand bridge be adequate to access this area?



Depth is approximately -2.0’

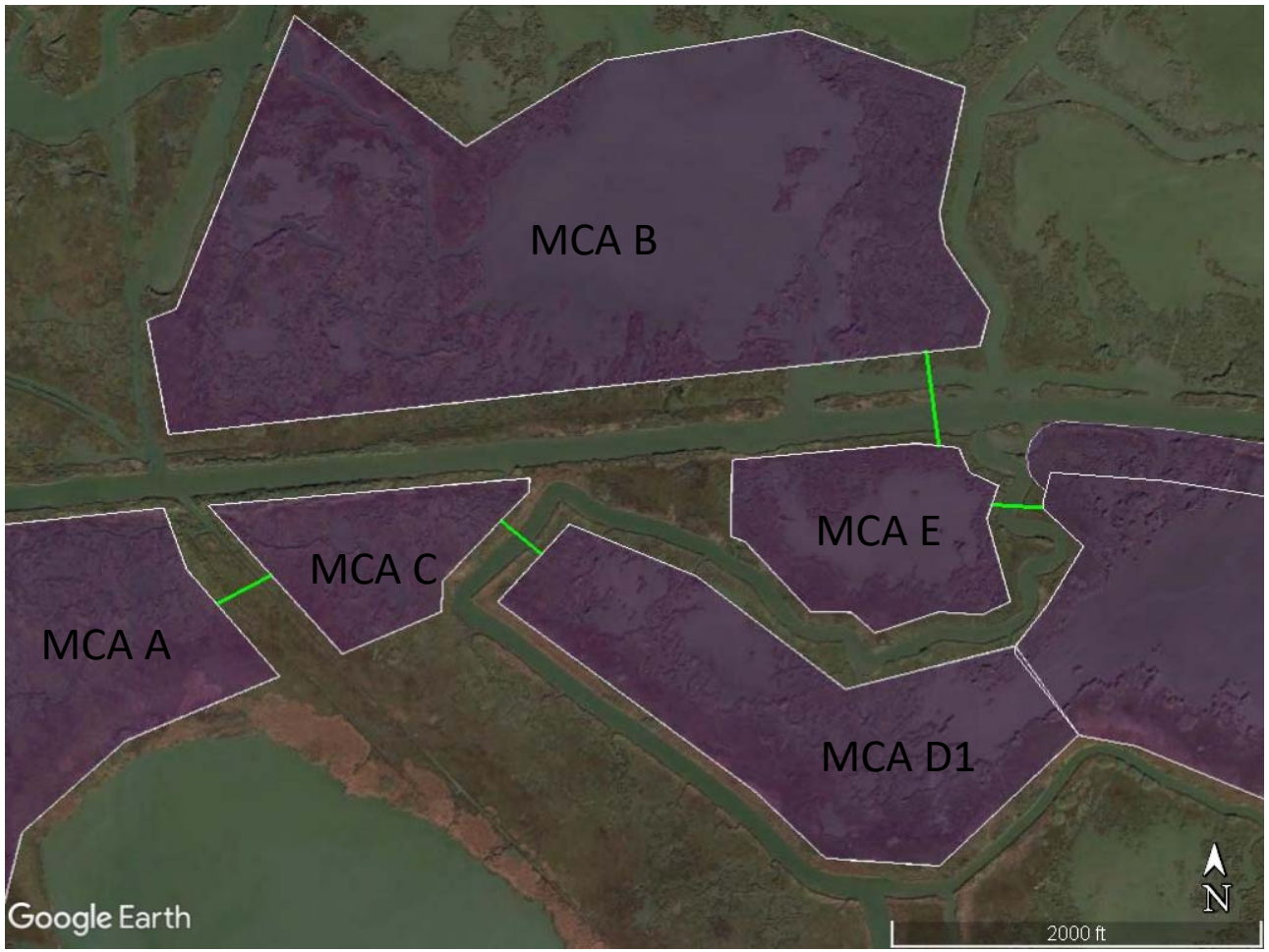
Questions for Contractors:

10. As MCA F is surrounded by relatively deep bayous. Is 8 to 12’ of water depth adequate to load & transport equipment?

Pipeline will need to be floated over western bayou

Questions for Contractors:

11. B, E, and C are separated by Bayou Tambour. Would a 15’ wide temporary sand bridge be adequate to access this area?



- Need bulldozers? Access?
- Marsh buggy for this area?
- Cross between MCA C to A with no fill, use mats.

Questions for Contractors:

12. We have estimated 40K cy/day.
    - Would this be realistic?
    - MCA G accounts ½ project volume with a center ~3.5 miles from DDDD.
13. Below is our anticipated contract time, totaling 550 days:
    - 60 days mob
    - 280 days of dredging
    - 60 days downtime
    - 60 days demob
    - 90 days float

Questions for Contractors:

14. Given that MCA B and E must be constructed from riverine borrow (due to geotechnical constraints), is the use of Grand Liard a valid option?

This would avoid:

- A 2nd mobilization;
- Installation of separate pipe;
- Containment dikes (24,550 LF) & need for bucket dredge;
- Spot dredging within dredge pipe corridor;
- Pumping extra volume (1.716M CY) for higher target elevation
- Allowing time for dewatering for acceptance.

Questions for Contractors:

15. Do you see any other project specific construction constraints, limitations, or difficulties?

Important Dates

- **Early December: Submit Permit Modification**
- **Late December: Submit 95% Plans, Specifications**
- **Late January: Signed, sealed plans & specs late January**
- **February/March: Advertisement**

Questions?

Please submit all questions via email to cpra.bidding@la.gov answers will be posted online.

CPRA
Coastal Protection and Restoration Authority of Louisiana

Contact Info:
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