

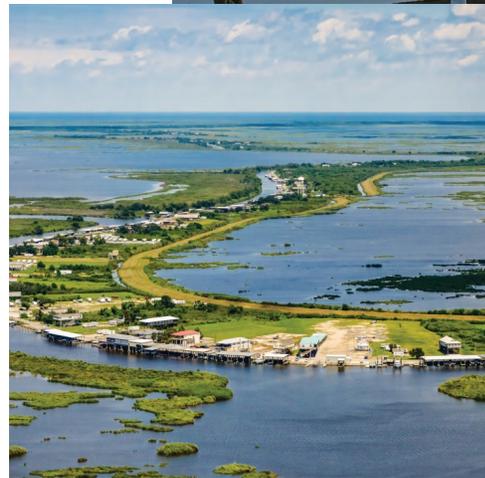
# Logistics, Safety, and Other Considerations for Construction in the Coastal Zone

JOANNE TRIBOU, P.E., CPRA ENGINEER SUPERVISOR



# Coastal Project Considerations

- Equipment access
- Oil and gas infrastructure
- Cultural resources
- Private landowners
- Oyster resources
- Permitting



# Equipment Access



EQUIPMENT ACCESS CORRIDORS

# Marine Construction Equipment



## EQUIPMENT ACCESS CORRIDORS

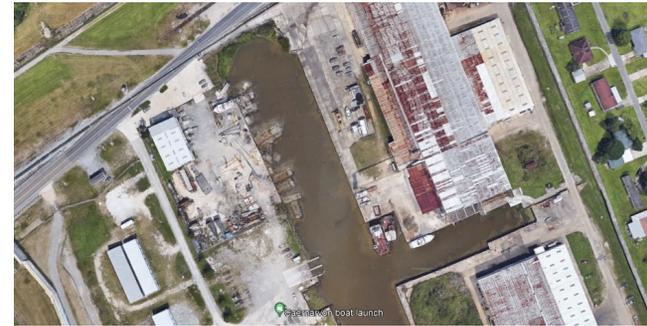
**Equipment access is a vital component of all coastal projects.**



## EQUIPMENT ACCESS CORRIDORS

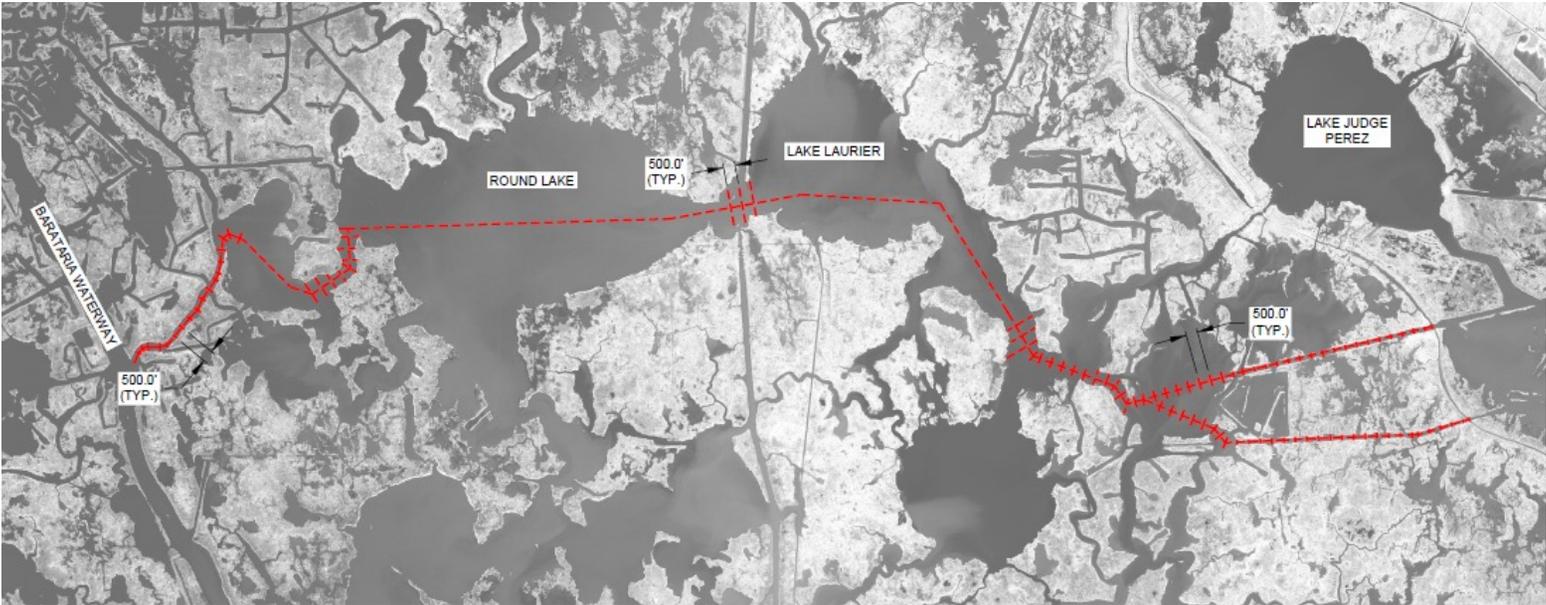
# Identifying Navigable Waterways

- Identify potential routes from
  - Boat launches (small equipment only)
  - Major waterways
- Then through
  - Rivers, lakes, bays, bayous, creeks to project site



# EQUIPMENT ACCESS CORRIDORS

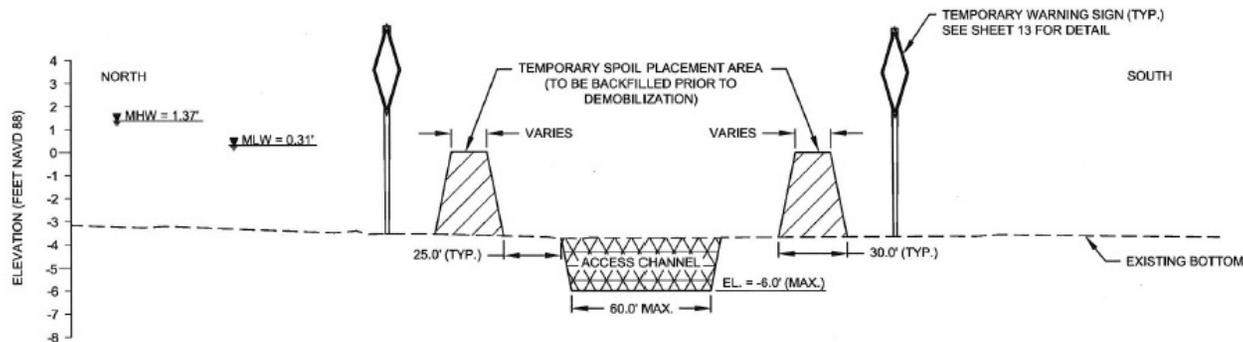
## Surveys



## EQUIPMENT ACCESS CORRIDORS

# Required Water Depth

- Depends on the type/size of equipment.
  - General, smaller equipment → Less than 3 to 6 feet
  - Heavy, major equipment → 6 to 8 feet
- Access dredging may be required

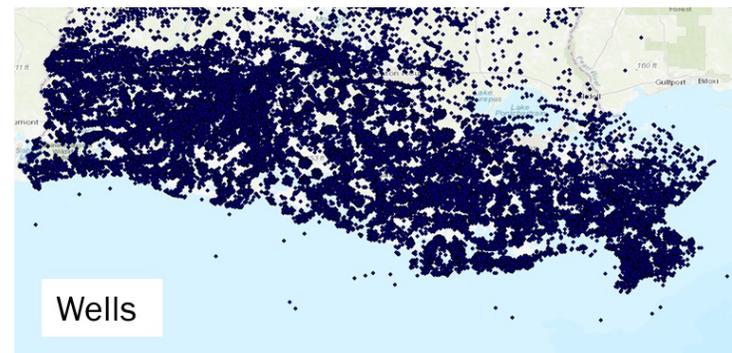
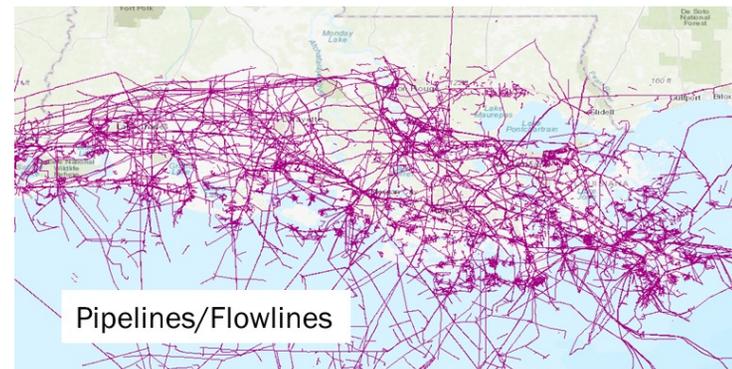
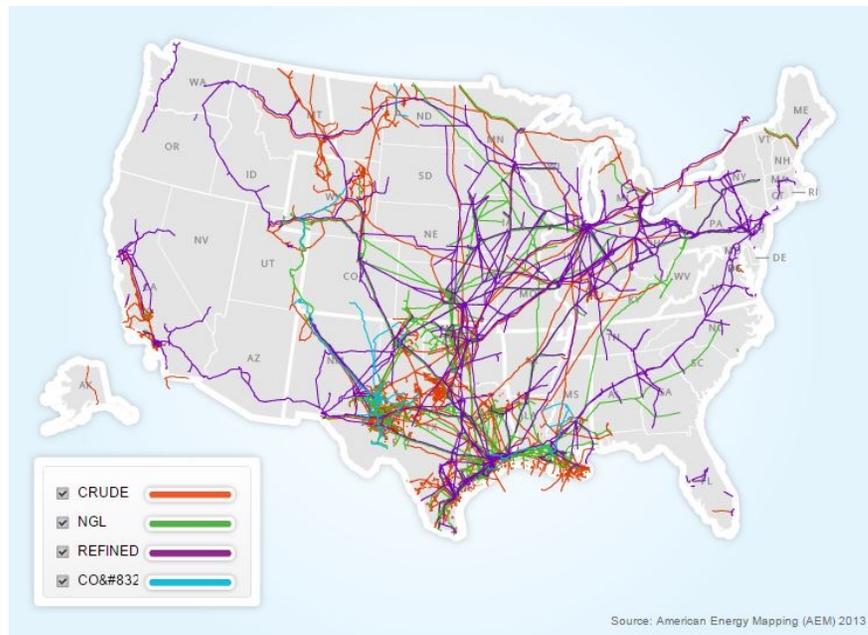


# Oil and Gas Infrastructure



## OIL AND GAS INFRASTRUCTURE

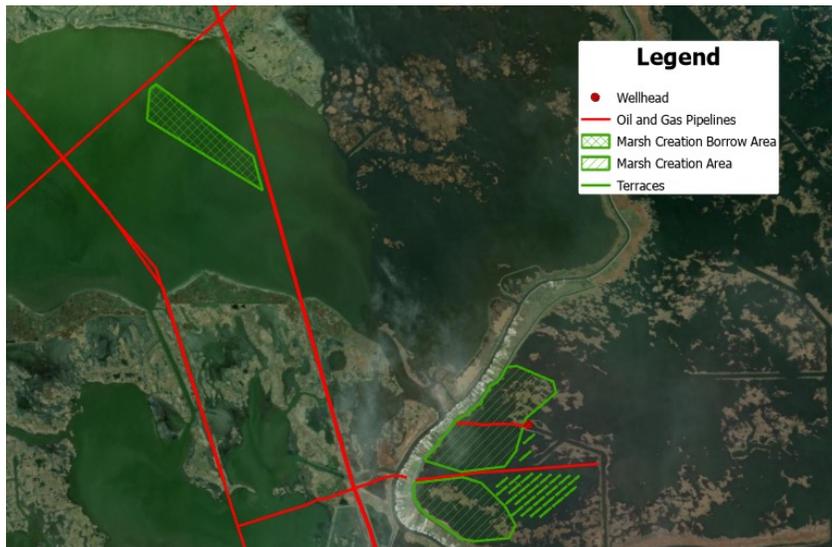
# Oil and Gas Industry in Louisiana



## OIL AND GAS INFRASTRUCTURE

# Oil and Gas Infrastructure

Proper identification and coordination with pipeline operators is important to ensure safety during construction.



# OIL AND GAS INFRASTRUCTURE Pipeline Databases

**Public Viewer**

Identify - Total 1 record(s) found

Attribute	Value
Category: PIPELINE ATTRIBUTES	
OPERATOR ID	31728
OPERATOR NAME	GULF SOUTH PIPELINE COMPA...
SYSTEM NAME	293
SUBSYSTEM NAME	LAKE HERMITAGE FLD LAT
PIPELINE ID	293-4
MILES	8.18
COMMODITY CATEGORY	Natural Gas
COMMODITY DESCRIPTION	
INTERSTATE DESIGNATION	Y
PIPELINE STATUS CODE	Active (filed)
REVISION DATE	03/09/2021
FRP SEQUENCE NUMBER	
INSPECTION AUTHORITY	PHMSA
Category: GENERAL CONTACT	
FIRST NAME	Brent
LAST NAME	Dhuett
TITLE	Sr. DOT Compliance Specialist
ENTITY	
PHONE	(985) 804-2524
EMAIL	Brent.Dhuett@cvppipelines.com
ADDRESS	351 Technology Lane
CITY	Gray
STATE	LA
ZIP	70342

Map Layers:

- Accidents (Liquid)
- Accidents (Gas)
- Gas Transmission Pipelines
- Hazardous Liquid Pipelines
- LNG Plants
- Drainout Tanks
- Other Populated Areas (scale dependent)
- Highly Populated Areas (scale dependent)
- Commercially Navigable Waterways
- CNW Inland
- CNW Ocean/Great Lakes
- Great Lakes
- Tribal Government Lands
- State Boundaries
- Show Labels
- County Boundaries
- Show Labels
- QDM Block Groups
- Show Labels
- QDM Blocks



**SONRIS Interactive Maps - Oil/Gas**

LOUISIANA DEPARTMENT OF CONSERVATION AND ENERGY

SONRIS - PermitTrack

Work Menu

Office of Permitting and Compliance

Permit Tracking System

CPWD: F0303045

Name: META GULF COAST LLC

Electronic Files

Benefits	GISData	DataTables	COLLADA	Revisions	IMAGE&RANGE
ODP Run					Consent
F0303045					STATE
ODM Run					Exempt
MON 2015-04-03					NOT EXEMPT
Approval					File
06/07/2015					NOT APPLICABLE
Acknowledge					Major Work
07/02/2015					MINOR
OPC Analyst					ODM Block
04/16/2015					PERMITS CONTROL/SURP
Well Name					Cable Trail
Y08 L1008					837
Well Num					Development
34					NO DEVELOPMENT
Status					Field No. Requested
Administrative/Operational/Special Conditions					100
Pipeline					P Area
ATTYED AND BURIED AND/OR SUBMERGED					7
File					Following
NOT PRESENT					100
Drudge					Acid Run
GENERAL BRIDGE AND/OR FILL (eg. Roadway)					PERMISSIBLE
Revision Num					Public Notice
1					NO PUBLIC NOTICE

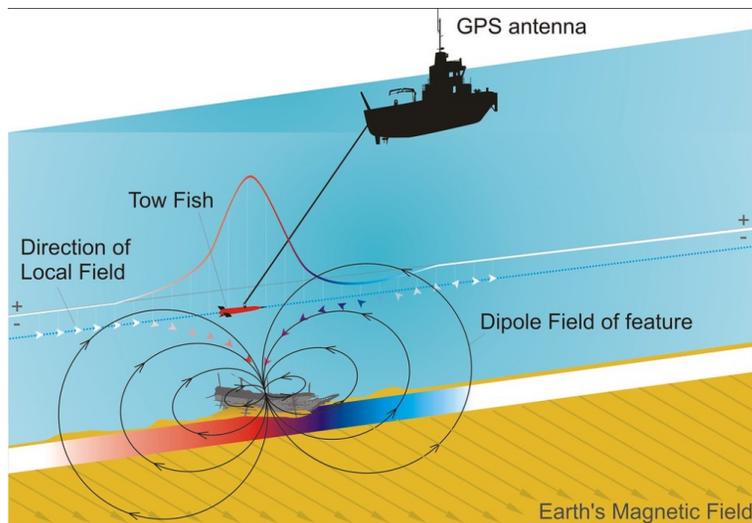
Description Type: PIPELINE - FLOWLINE

Description: Proposed installation of 1.2" (flowline) 10000', 1.2" gas lift line (HETW) and 1.2" (flowline) (HETW) for producing Y08 L1008 No. 34 Well. Approximately 527 cubic yards of material will be excavated to install the lines. Approximately 8 cubic yards of rock required for backfill stabilization. Approximately 2 cubic yards of sanding material required at pipeline crossings. No equipment will be used on marsh areas.

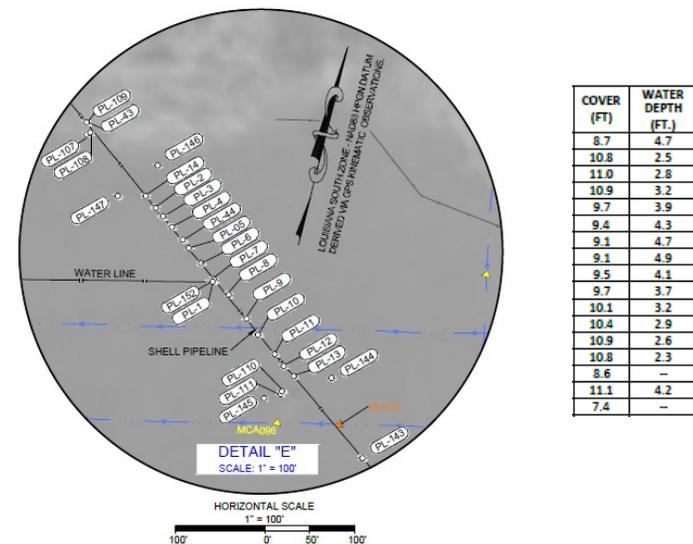
Comments

# OIL AND GAS INFRASTRUCTURE

## Magnetometer Survey



Marine magnetometer measures magnetic field strength

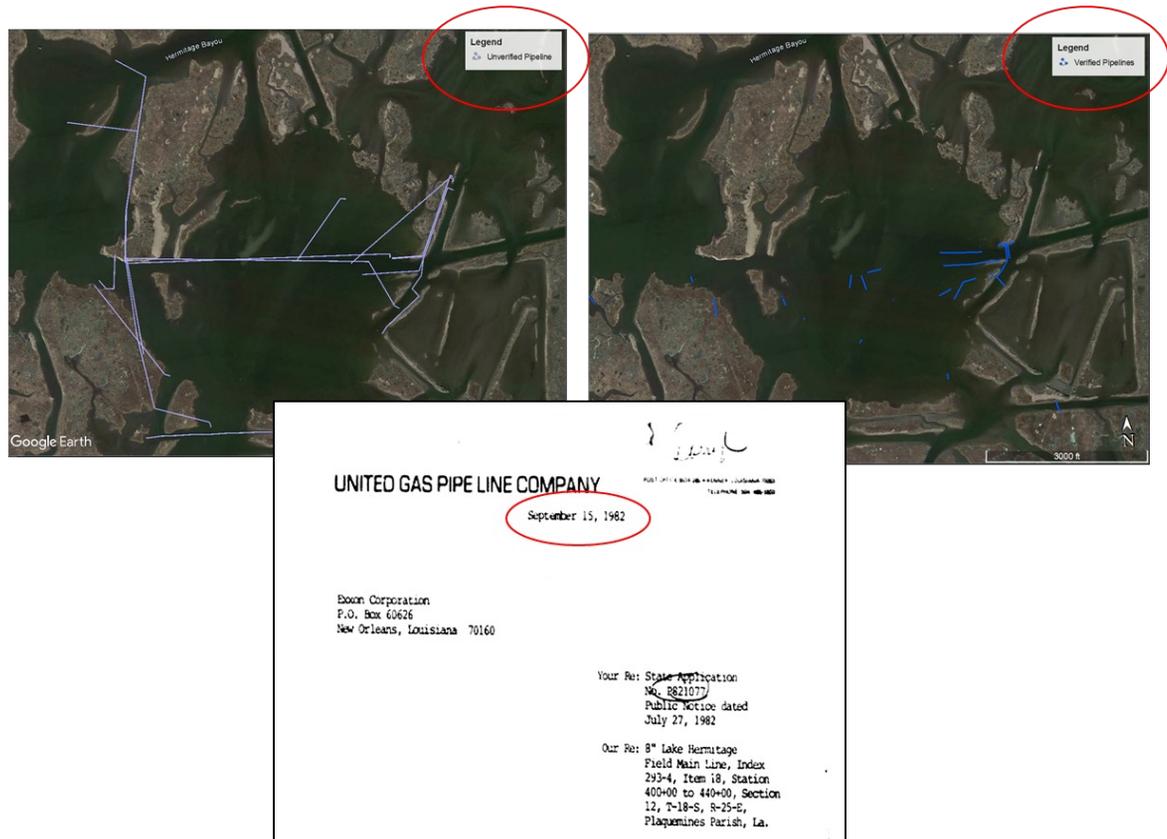


Suspected pipelines probed to determine coordinates and depth of cover

## OIL AND GAS INFRASTRUCTURE

# Issues with Pipeline Identification

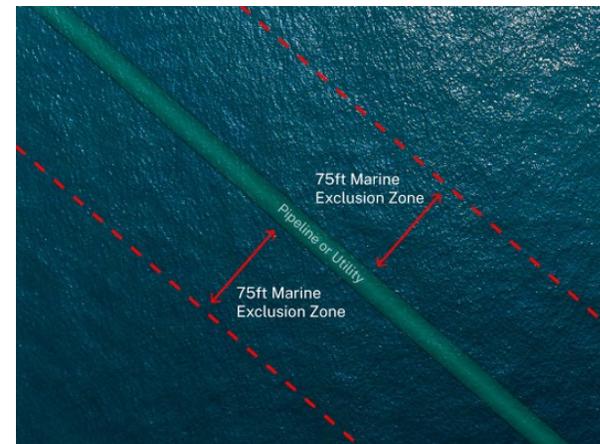
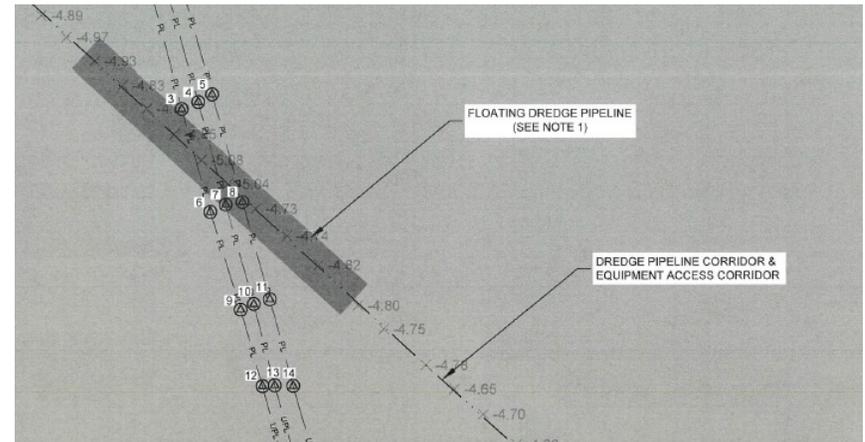
- Database contains pipelines not found in magnetometer survey
- Pipeline picked up in magnetometer survey but not in any database
- Operator no longer exists or responsible party cannot be determined



## OIL AND GAS INFRASTRUCTURE

# Pipeline Safety

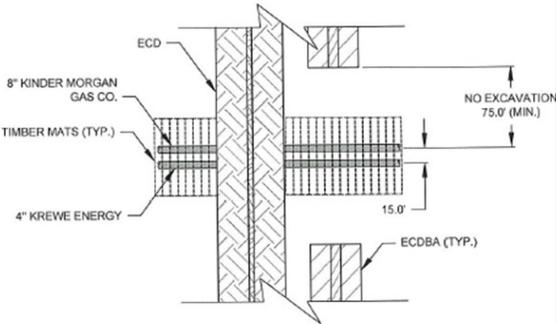
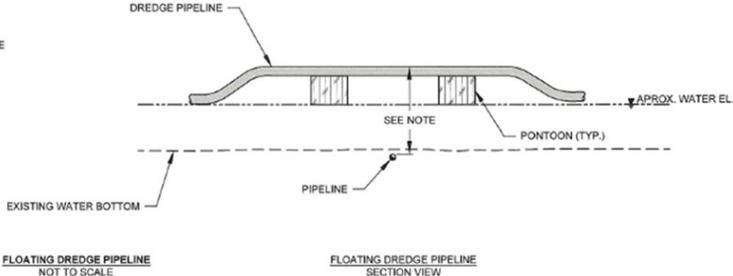
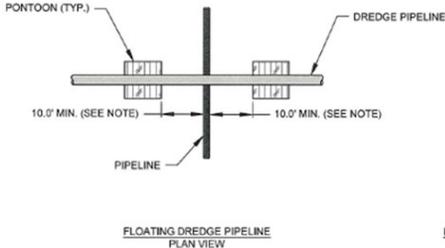
- Protective measures
- Buffer zones for dredging activities
- Operator monitoring during construction
- Pipeline lowering
- Abandoned pipeline removal
- Elimination or modification of project features



OIL AND GAS INFRASTRUCTURE

# Protective Measures

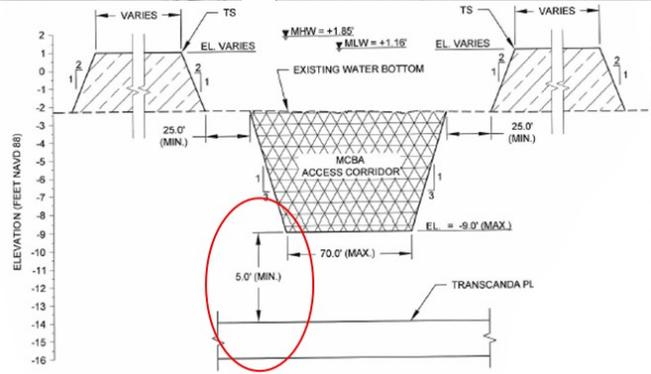
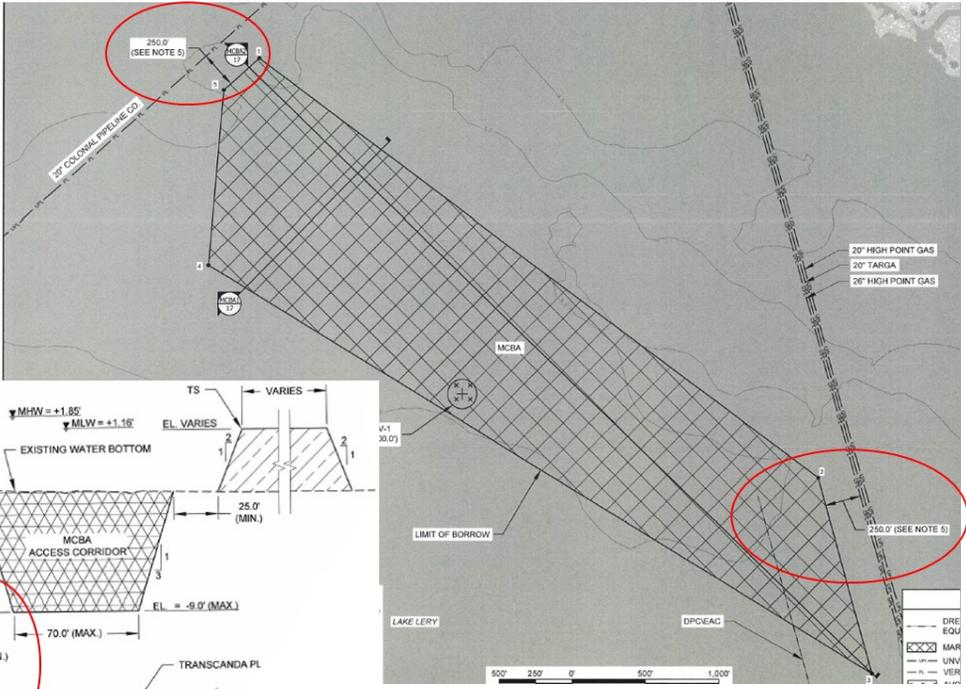
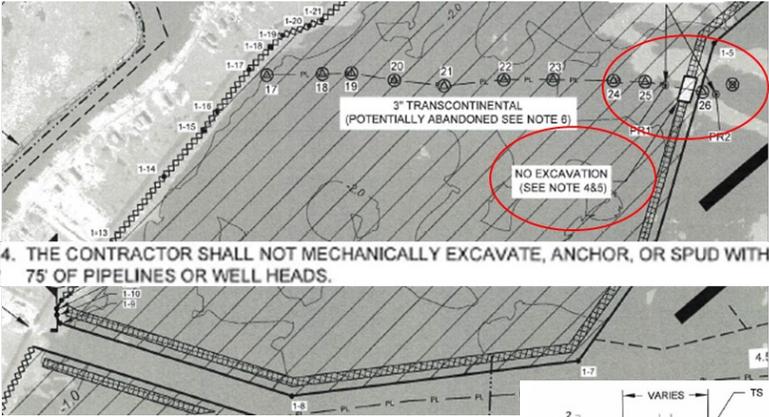
Floating Dredge Pipe



Timber Mats

OIL AND GAS INFRASTRUCTURE

# Buffer Zones for Dredging Activities



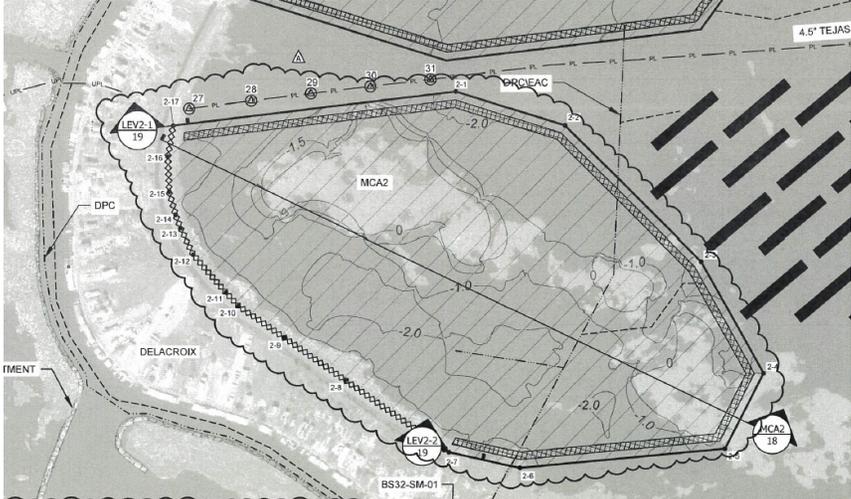
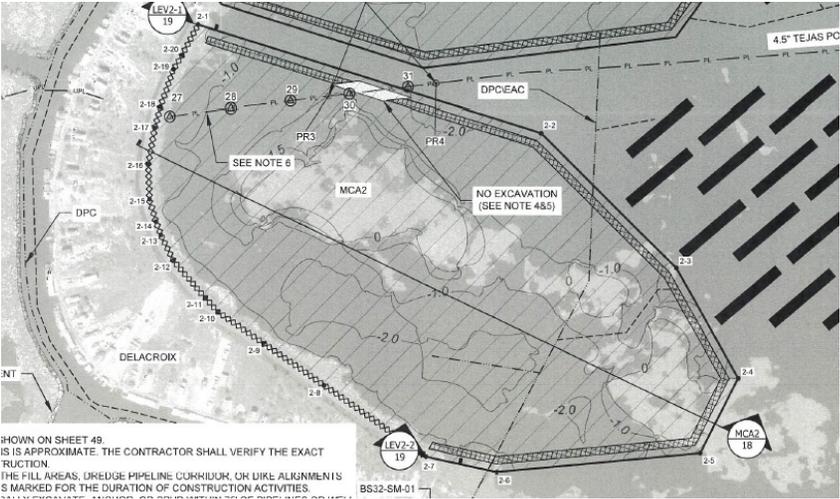
OIL AND GAS INFRASTRUCTURE

# Abandoned Pipeline Removal



OIL AND GAS INFRASTRUCTURE

# Modification of Project Features



## OIL AND GAS INFRASTRUCTURE

# Pipeline Operator Agreements

- Notice of Construction sent to pipeline operators by CPRA
- Contractor to get agreements with pipeline operators if required



State of Louisiana

JEFF LANDRY  
GOVERNOR



EXHIBIT "B"

Shell Pipeline Company LP  
150 N. Dairy Ashford, WCK A0226  
Houston, Texas 77079

July 17, 2025

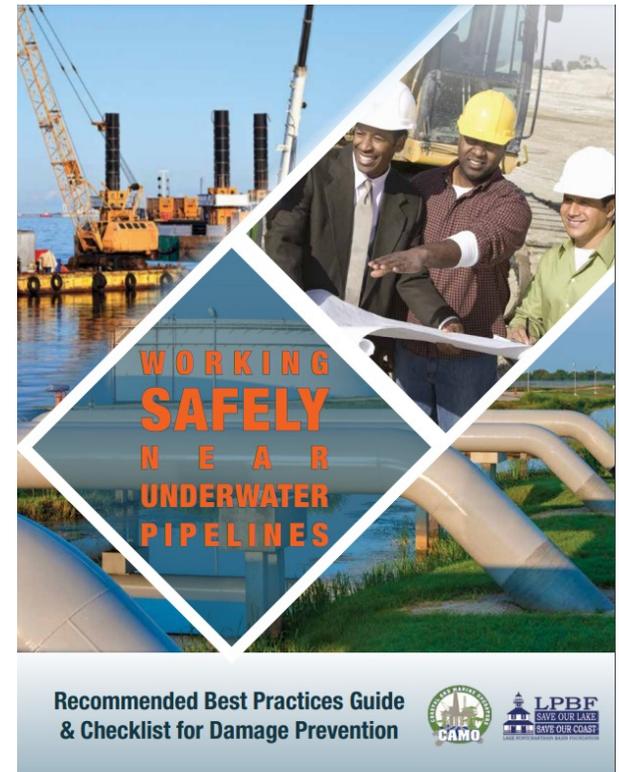
NOTICE OF CONSTRUCTION

SHELL PIPELINE COMPANY LP  
GENERAL REQUIREMENTS FOR CROSSING SHELL PIPELINES  
WITH PIPELINES/ROADS/UTILITY LINES

OIL AND GAS INFRASTRUCTURE

# Additional Safety Precautions

- Pre-construction magnetometer survey
- Pre-construction operator notifications and coordination
- Louisiana 811 (One Call)
- Adhere to pipeline safety standards



Recommended Best Practices Guide  
& Checklist for Damage Prevention



# Cultural Resources

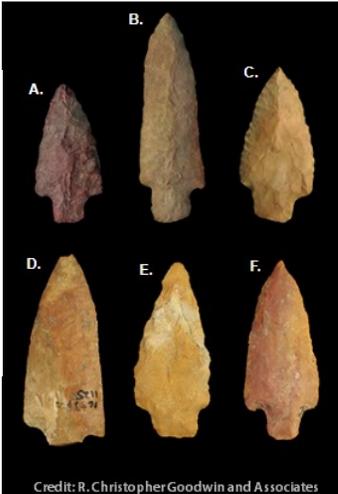


# Cultural Resources

- Cultural resources → items of prehistoric, historical, archeological, or cultural value
- Coordinate with the State Historic Preservation Offices (SHPO) to perform a cultural resources investigation



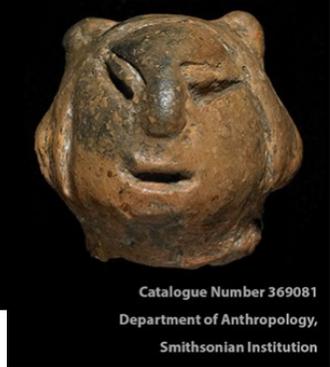
ARTS • ARCHAEOLOGY • HISTORIC PRESERVATION • CODOFIL



Credit: R. Christopher Goodwin and Associates



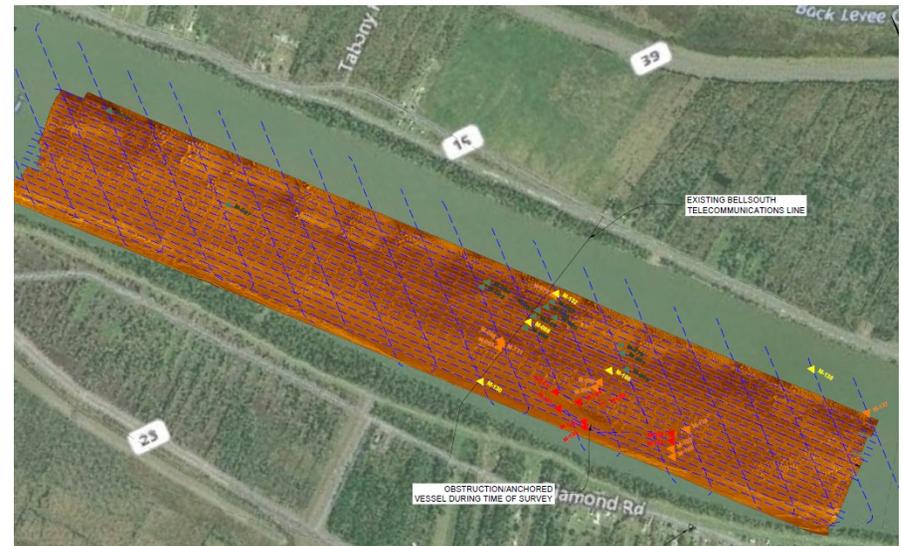
Catalogue Number 369003  
Department of Anthropology,  
Smithsonian Institution



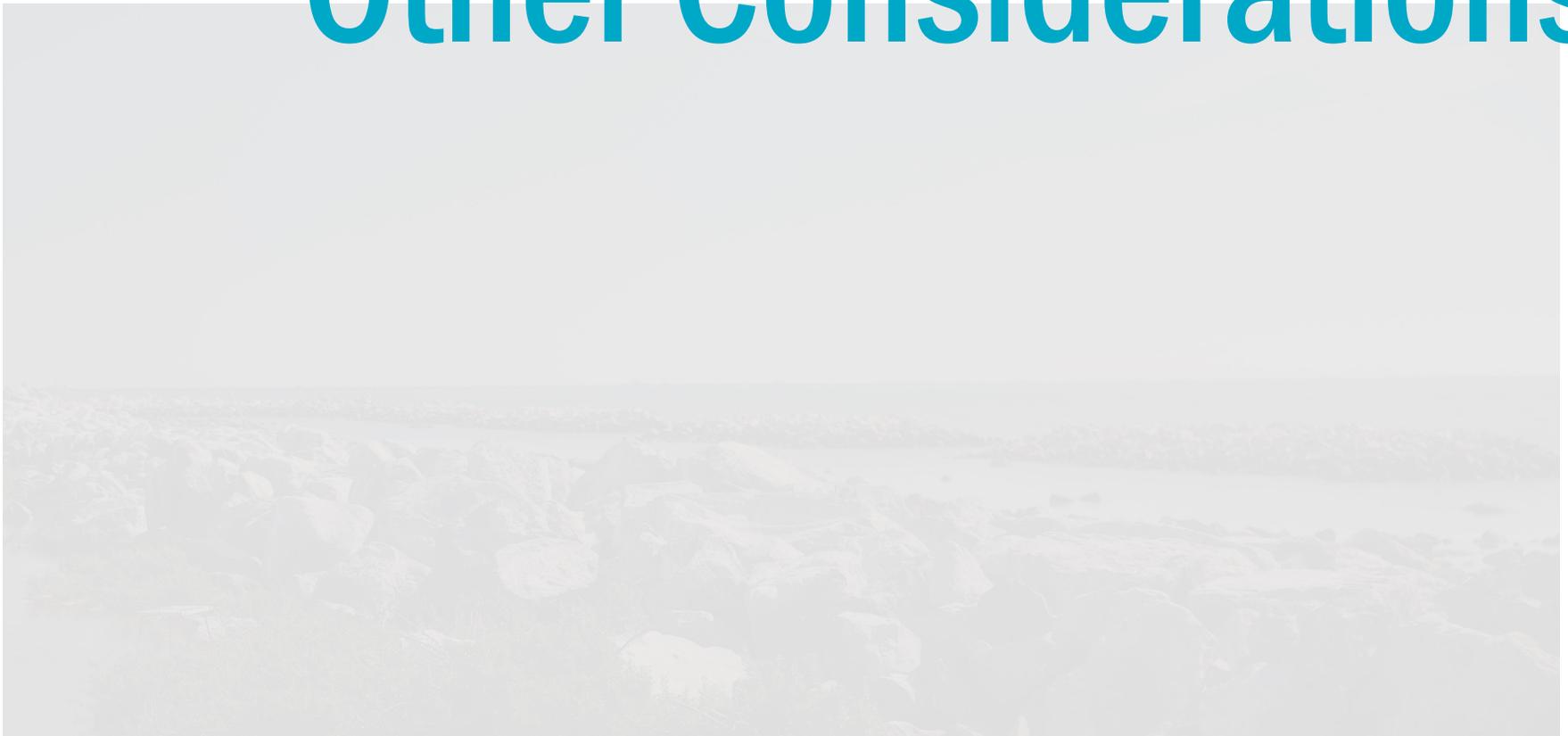
Catalogue Number 369081  
Department of Anthropology,  
Smithsonian Institution

# Cultural Resources Investigation

- Investigation in area of excavation/impact which includes:
  - Geophysical (side scan sonar and sub-bottom profile) and magnetometer survey or shovel tests
  - Cultural resources report prepared by Registered Professional Archeologist (RPA)
- RPA/SHPO recommend avoidance area



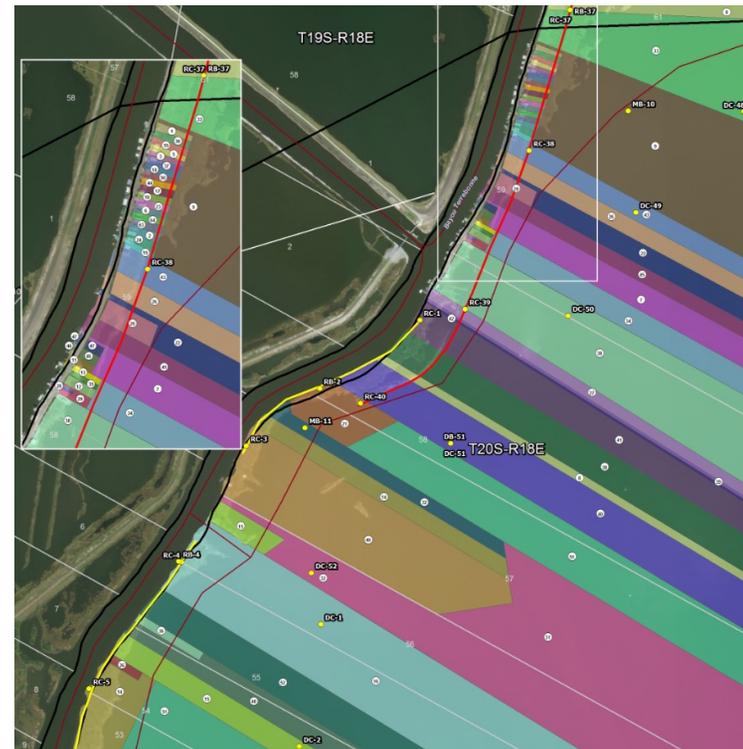
# Other Considerations



## OTHER CONSIDERATIONS

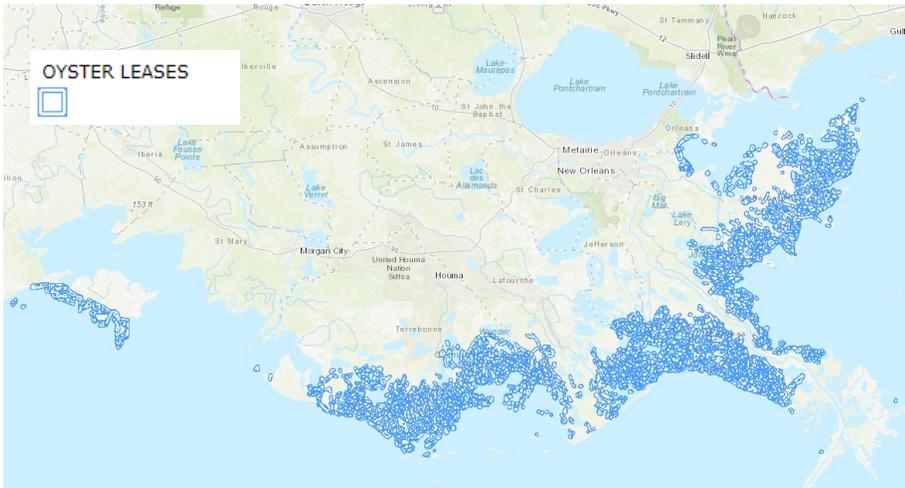
# Landrights

- LA Coastal Zone is home to thousands of community residents
- Proper coordination and agreements with landowners is necessary
- CPRA Landrights Division acquires appropriate agreements

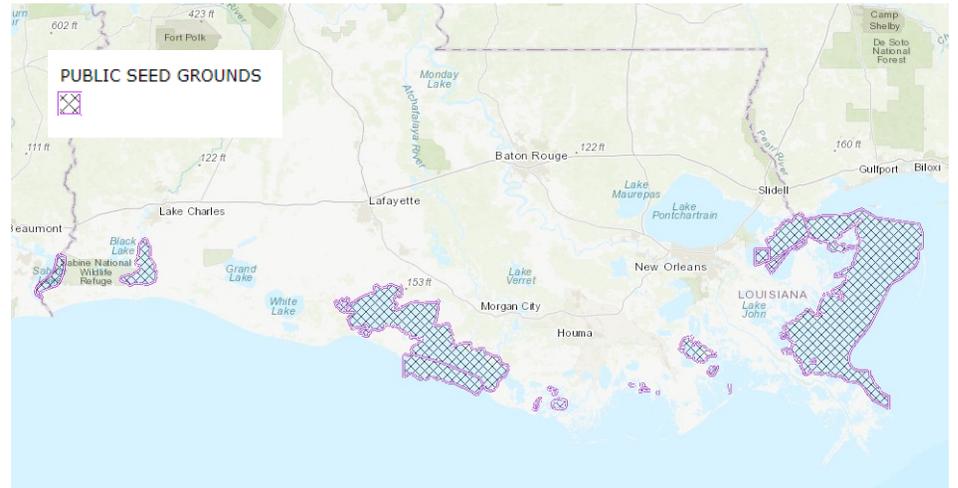


## OTHER CONSIDERATIONS

# Oyster Resources



Oyster Leases



Public Seed Grounds



## OTHER CONSIDERATIONS

# Permitting

- Permitting is required for all project features, including access dredging.
- Information required for the permit includes:
  - Drawings of proposed features
  - Cut and fill volumes
  - Maximum acres impacted



Louisiana Department of Natural Resources  
Office of Coastal Management (OCM)  
Telephone: 1-800-267-4019  
Website: <http://dnr.louisiana.gov/crm/>



U.S. Army Corps of Engineers (COE)  
New Orleans District  
Telephone: 504-862-2766  
Website: [www.mvn.usace.army.mil/ops/regulatory](http://www.mvn.usace.army.mil/ops/regulatory)

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### **Joint Permit Application**

For Work Within the Louisiana Coastal Zone



**CONNECT WITH US!**



**@LouisianaCPRA**

