

**Overview of Proposed Activities**  
 SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas

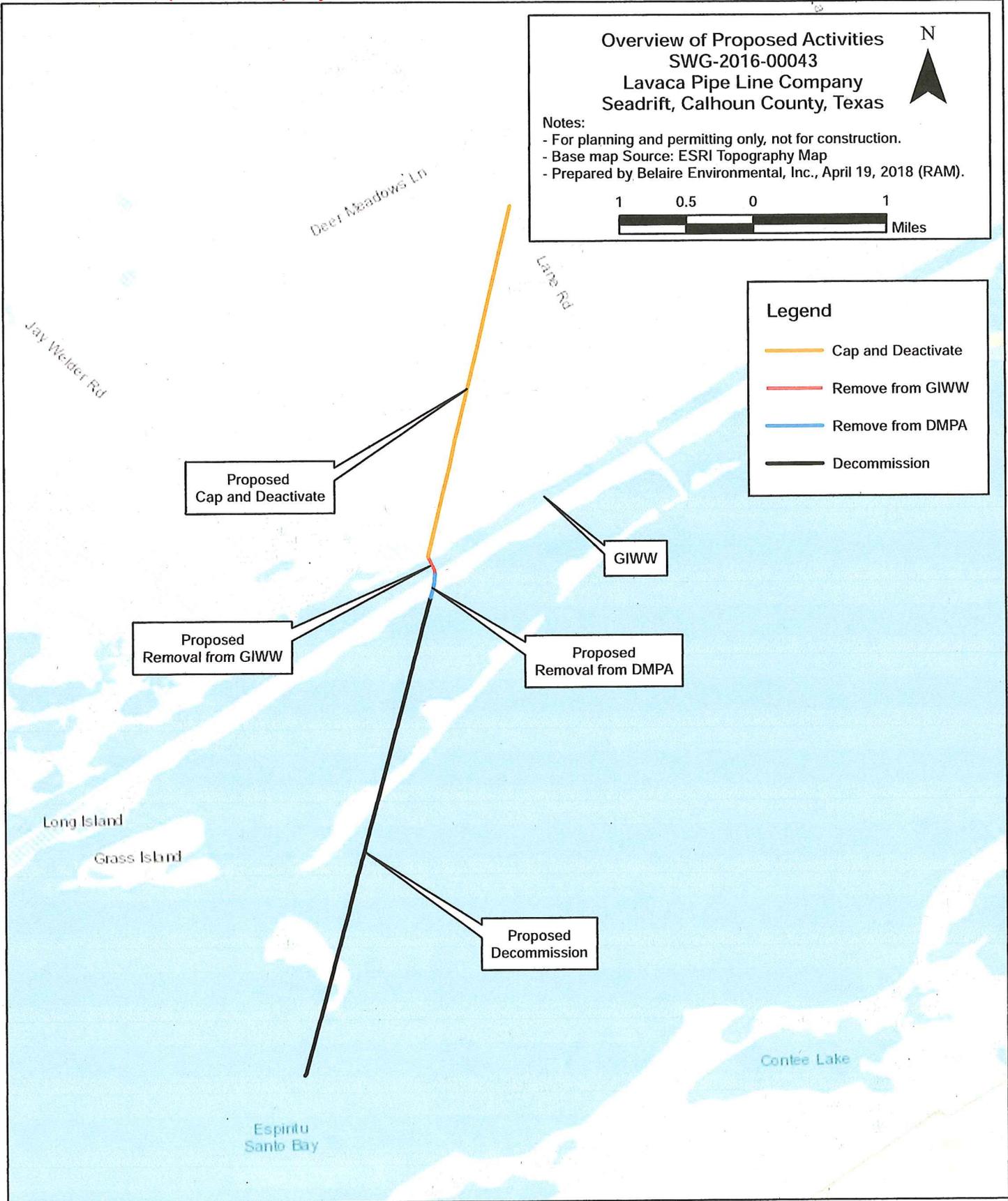
**Notes:**  
 - For planning and permitting only, not for construction.  
 - Base map Source: ESRI Topography Map  
 - Prepared by Belaire Environmental, Inc., April 19, 2018 (RAM).

1 0.5 0 1  
 Miles



**Legend**

- Cap and Deactivate
- Remove from GIWW
- Remove from DMPA
- Decommission



SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas

Applicant:  
 Lavaca Pipe Line Company  
 P.O. Box 769  
 Point Comfort, TX 77978

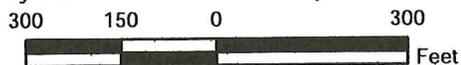


PREPARED BY:  
 BELAIRE ENVIRONMENTAL, INC.  
 P.O. BOX 741 ROCKPORT, TX 78381

April 19, 2018 Page \_\_ of \_\_

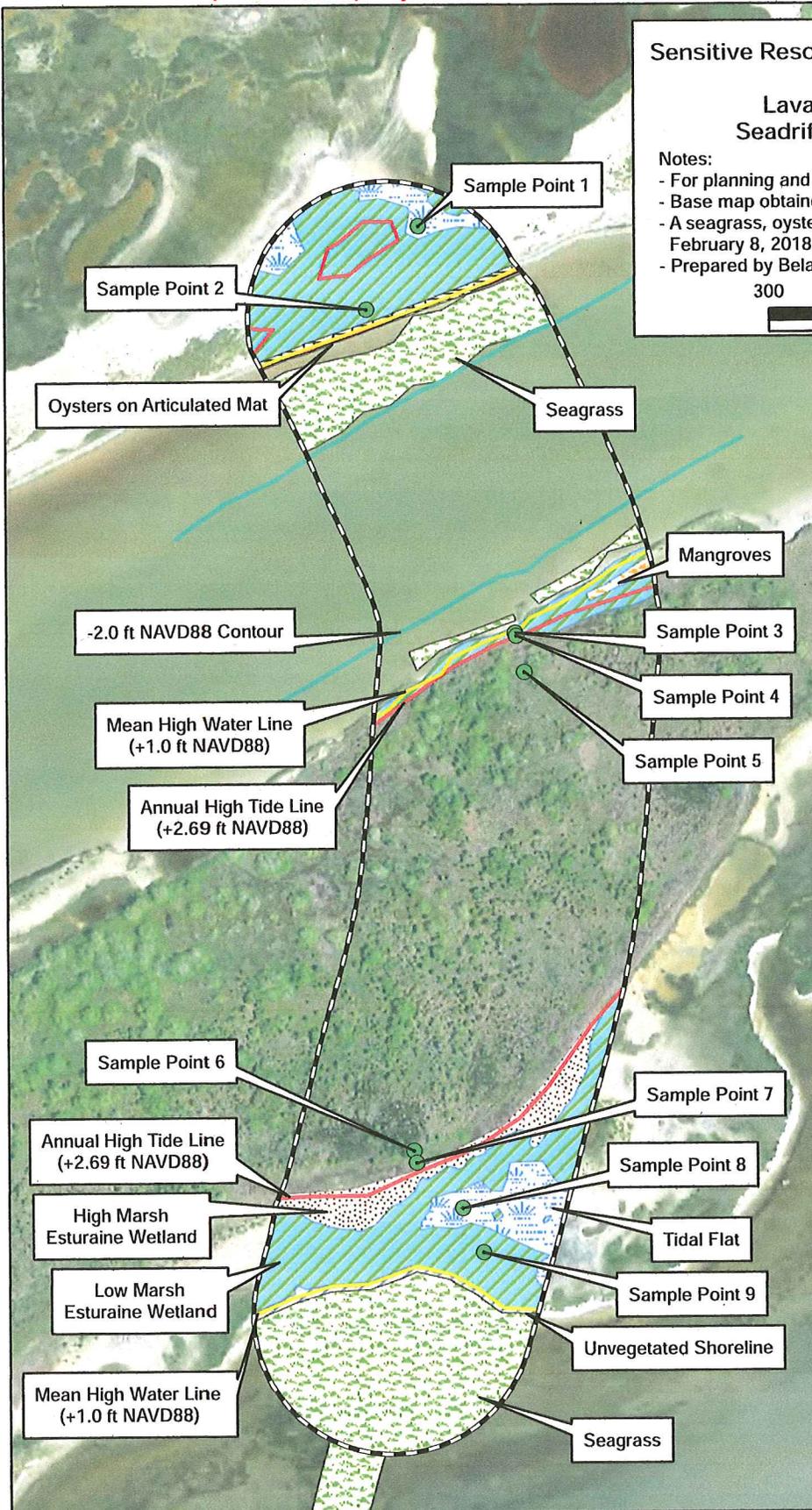
Sensitive Resource Pipeline Removal Overview N  
 SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas

Notes:  
 - For planning and permitting only, not for construction.  
 - Base map obtained from TNRIS Online, Calhoun County, 2015.  
 - A seagrass, oyster, and wetland delineation was conducted February 8, 2018.  
 - Prepared by Belaire Environmental, Inc., April 19, 2018 (RAM).



Legend

- Wetland Sample Points
- Approximate 250 Foot Buffer
- 2.0 ft NAVD88 Contour
- MHWL +1.0 ft NAVD88
- AHTL +2.69 ft NAVD88
- Oysters on Articulated Concrete Mat
- Articulated Concrete Mat
- Seagrass
- Low Marsh Estuarine Wetland
- High Marsh Estuarine Wetland
- Tidal Flat
- Unvegetated Shoreline
- Mangrove



SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas  
 Applicant:  
 Lavaca Pipe Line Company  
 P.O. Box 769  
 Point Comfort, TX 77978



PREPARED BY:  
 BELAIRE ENVIRONMENTAL, INC.  
 P.O. BOX 741 ROCKPORT, TX 78381  
 April 19, 2018 Page \_\_\_ of \_\_\_

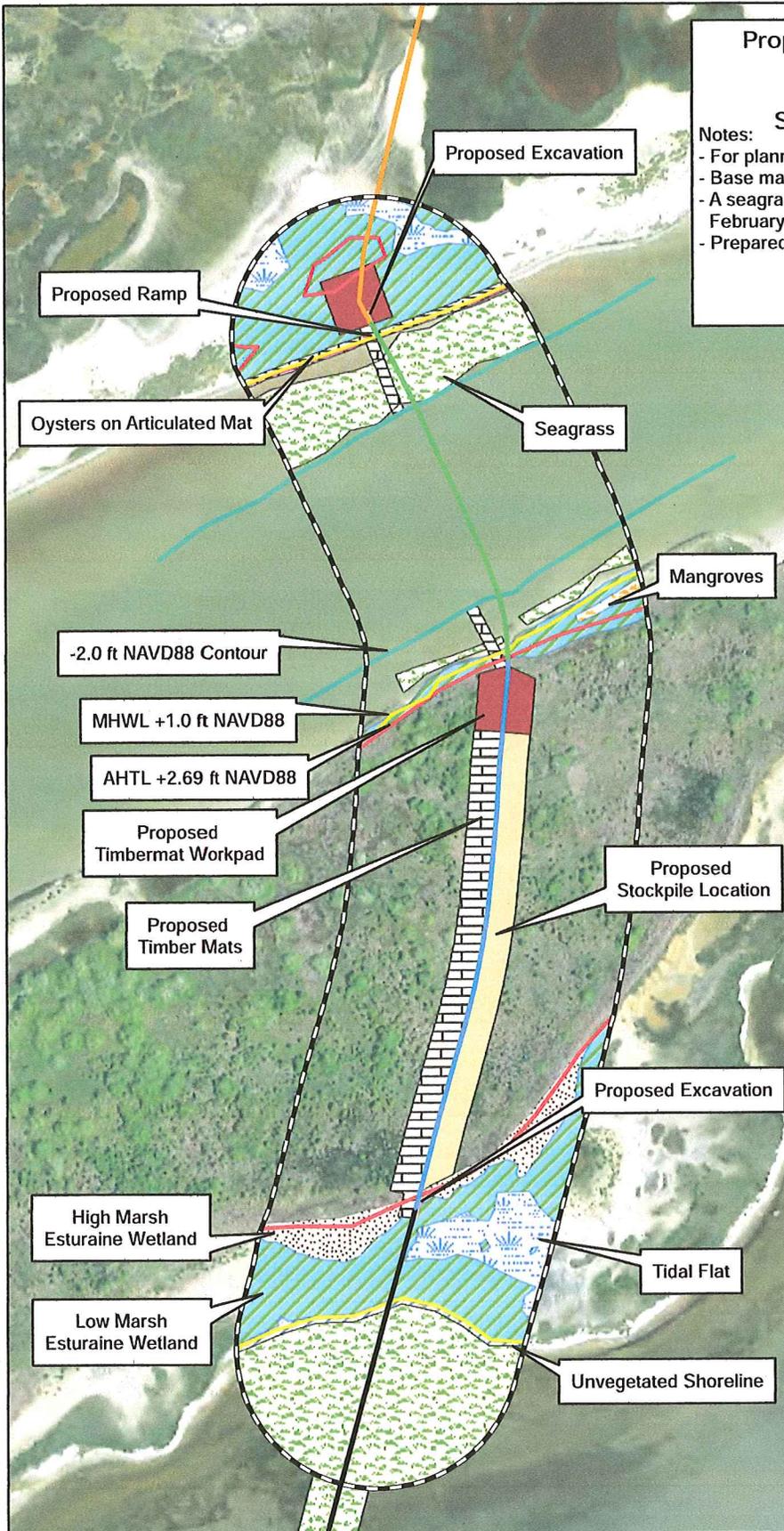
Proposed Pipeline Removal Overview  
SWG-2016-00043

Lavaca Pipe Line Company  
Seadrift, Calhoun County, Texas



Notes:

- For planning and permitting only, not for construction.
- Base map obtained from TNRIS Online, Calhoun County, 2015.
- A seagrass, oyster, and wetland delineation was conducted February 8, 2018.
- Prepared by Belaire Environmental, Inc., April 19, 2018 (RAM).



Legend

- Approximate 250 Foot Buffer
- 2.0 ft NAVD88 Contour
- MHWL +1.0 ft NAVD88
- AHTL +2.69 ft NAVD88
- Oysters on Articulated Concrete Mat
- Articulated Concrete Mat
- Seagrass
- Low Marsh Estuarine Wetland
- High Marsh Estuarine Wetland
- Tidal Flat
- Unvegetated Shoreline
- Mangrove
- Proposed Temporary Work Area**
- Proposed Excavation (Approx. 0.02 Ac.)
- Proposed Ramp (Approx. 0.01 Ac.)
- Proposed Stockpile (Approx. 0.93 Ac.)
- Proposed Timber Mat (Approx. 1.1 Ac.)
- Proposed Workpad (Approx. 0.48 Ac.)
- Proposed Activities**
- Cap and Deactivate
- Remove from GIWW
- Remove from DMPA
- Decommission

SWG-2016-00043  
Lavaca Pipe Line Company  
Seadrift, Calhoun County, Texas

Applicant:  
Lavaca Pipe Line Company  
P.O. Box 769  
Point Comfort, TX 77978



PREPARED BY:

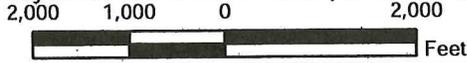
BELAIRE ENVIRONMENTAL, INC.  
P.O. BOX 741 ROCKPORT, TX 78381

Proposed Pipeline Decommission Overview  
SWG-2016-00043

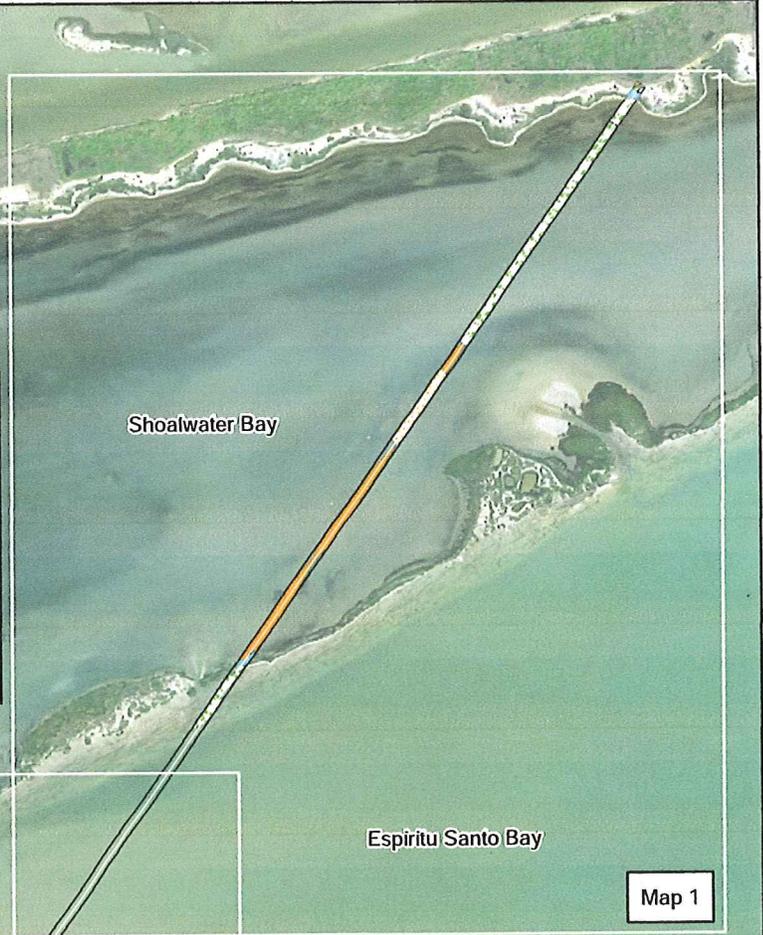
Lavaca Pipe Line Company  
Seadrift, Calhoun County, Texas

Notes:

- For planning and permitting only, not for construction.
- Base map obtained from TNRIS Online, Calhoun County, 2015.
- A seagrass, oyster, and wetland delineation was conducted on January 28-30, 2018 (DP & BF).
- Prepared by Belaire Environmental, Inc., April 19, 2018 (RAM).



Sensitive Resource	Linear Feet	Acreage
Oyster	7,261	15.08
Seagrass	4,120	8.46
Oyster/Seagrass	910	2.05
Low Marsh Estuarine Wetland	806	1.74
High Marsh Estuarine Wetland	In Corridor	0.04
Tidal Flat	In Corridor	0.05
Unvegetated Shoreline	214	0.37
<b>Total</b>	<b>13,311</b>	<b>27.79</b>



Map 1



Map 2

**Legend**

- 50 Ft Buffer
- Oysters
- Oyster/Seagrass
- High Marsh Estuarine Wetland
- Low Marsh Estuarine Wetland
- Seagrass
- Tidal Flat
- Unvegetated Shoreline

**Proposed Activities**

- Decommission

SWG-2016-00043  
Lavaca Pipe Line Company  
Seadrift, Calhoun County, Texas

Applicant:  
Lavaca Pipe Line Company  
P.O. Box 769  
Point Comfort, TX 77978



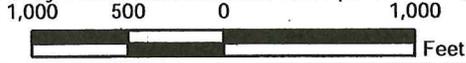
PREPARED BY:  
BELAIRE ENVIRONMENTAL, INC.  
P.O. BOX 741 ROCKPORT, TX 78381

Proposed Pipeline Decommission Map 1  
 SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas



Notes:

- For planning and permitting only, not for construction.
- Base map obtained from TNRIS Online, Calhoun County, 2015.
- A seagrass, oyster, and wetland delineation was conducted on January 28-30, 2018 (DP & BF).
- Prepared by Belaire Environmental, Inc., April 19, 2018 (RAM).



Shoalwater Bay

**Legend**

-  50 Ft Buffer
-  Oysters
-  Mixture Oyster & Seagrass
-  High Marsh Estuarine Wetland
-  Low Marsh Estuarine Wetland
-  Seagrass
-  Tidal Flat
-  Unvegetated Shoreline

**Proposed Activities**

-  Decommission

Map 2

SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas

Applicant:  
 Lavaca Pipe Line Company  
 P.O. Box 769  
 Point Comfort, TX 77978

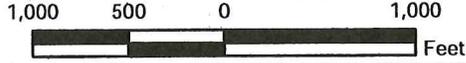


PREPARED BY:  
 BELAIRE ENVIRONMENTAL, INC.  
 P.O. BOX 741 ROCKPORT, TX 78381

Proposed Pipeline Decomission Map 2  
 SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas

Notes:

- For planning and permitting only, not for construction.
- Base map obtained from TNRIS Online, Calhoun County, 2015.
- A seagrass, oyster, and wetland delineation was conducted on January 28-30, 2018 (DP & BF).
- Prepared by Belaire Environmental, Inc., April 19, 2018 (RAM).



Map 1

Espiritu Santo Bay

Legend

- 50 Ft Buffer
- Oysters
- Mixture Oyster & Seagrass
- High Marsh Estuarine Wetland
- Low Marsh Estuarine Wetland
- Seagrass
- Tidal Flat
- Unvegetated Shoreline
- Proposed Activities
- Decommission

SWG-2016-00043  
 Lavaca Pipe Line Company  
 Seadrift, Calhoun County, Texas

Applicant:  
 Lavaca Pipe Line Company  
 P.O. Box 769  
 Point Comfort, TX 77978



PREPARED BY:

BELAIRE ENVIRONMENTAL, INC.  
 P.O. BOX 741 ROCKPORT, TX 78381

April 19, 2018 Page \_\_\_ of \_\_\_

### Description of Proposed Pipeline Removal and Decommission

#### Proposed Decommission

This process will consist of decommissioning approximately 19,625 linear feet of pipeline and following the requested U.S. Army Corps of Engineers (USACE) protocols for decommissioning a pipeline.

1. The pipeline is exposed on the southern side of the Gulf Intracoastal Waterway (GIWW). At this location the pipeline will be cut to allow for the following procedures.
2. The pipeline will be pigged from the terminal valve near Steamboat Island to the location of the pipeline cut at the south side of the GIWW.
3. The pipeline will then be flushed and extracted fluids will be properly contained and disposed.
4. The contractor will follow the mobilization procedures outlined in the "Pipeline Removal From Dredge Material Placement Area (DMPA), Steps 1-2" to access the southern end of the DMPA.
5. At the southern end of the DMPA, the pipeline will be cut approximately 25 feet bayward of the base of the levee. At this location the pipeline is located in a wetland. In order to remove the pipeline, it is necessary to work within a delineated wetland. All construction work performed in wetlands will be minimized to the maximum extent possible by using mats and other Best Management Practices (BMP) and will be temporary in nature. All impacts will be restored to pre-construction contours.
6. The approximate 19,625 linear feet of deactivated pipeline will be filled with seawater.
7. Each end of the deactivated pipeline will be capped and plugged.
8. The contractor will bury each end of the pipeline at least 3 feet below the seafloor or cover each end with protective concrete mats.
9. All pipeline valves and other fittings will be removed.

#### Pipeline Removal From DMPA

This process will consist of completely removing approximately 990 linear feet of pipeline from the DMPA.

1. The contractor will place mats on the shoreline to offload swamp excavator on the southern side of the GIWW.
2. The mats will be placed alongside the pipeline as the swamp excavator traverses to the southern end of the DMPA.
3. At the southern end of the DMPA and south of the levee, the pipeline will be cut. The procedures outlined in "Proposed Decommission, Steps 5-9" will be followed.
4. After the procedures to decommission the pipeline have been followed, the swamp excavator will be used to completely uncover and free the pipeline located within the DMPA from any restrictions.
5. The contractor will rig up to the end of the pipeline at the southern edge of the GIWW with a crane and begin pulling the pipeline to the crane barge.
6. The pipeline will be cut into approximately 60 feet joints and stacked onto an additional spud barge.
7. After the pipeline is removed, the contractor utilizing the swamp excavator will work from the southern end of the DMPA towards the GIWW to back fill the trench to pre-construction contours prior to moving from the area.
8. The levee at the southern end of the DMPA will be recompacted to pre-construction contours.
9. The contractor will begin working back towards the GIWW and removing mats.
10. A portion of the matting near the GIWW will stay in place for equipment staging to remove the pipeline from the GIWW.
11. After removing the pipeline from the GIWW all timber mats will be removed and the levee on the north side of the DMPA will be compacted and restored to pre-construction elevations.

Pipeline Removal From GIWW

This process will consist of excavating, pulling and total removal of approximately 642 linear feet of pipeline from the GIWW and capping and plugging approximately 14,350 linear feet of pipeline located north and landward of the GIWW.

1. The contractor will begin by excavating a small section of pipeline on the north side of the GIWW and approximately 25 feet north of the articulated concrete mat shoreline protection. At this location the pipeline is located in a wetland. In order to remove the pipeline, it is necessary to work within a delineated wetland. All construction work performed in wetlands will be minimized to the maximum extent possible by using mats and other BMPs and will be temporary in nature. All impacts will be restored to pre-construction contours.
2. The pipeline will be cut and the portion of pipeline to be deactivated will be capped and plugged.
3. The contractor will then expose the pipeline within the GIWW and south of the articulated mat using a Javeler dredge pump.
4. The pipeline will be cut and the section of pipeline crossing the articulated mat will be pulled out and placed on a barge for disposal.
5. The contractor will then use a Javeler dredge pump to remove approximately 11,000 cubic yards approximately 25 feet on either side of the pipeline. The material dredged will be approximately 80% soil and 20% water.
6. If allowed by USACE-Operations, the dredge material will be placed within the levees of the DMPA and all USACE procedures will be followed, or the dredged material will be hauled via barge to an upland confined disposal area.
7. Once the pipeline has been exposed the contractor will rig up to the pipe and begin pulling the pipeline on the deck of a spud barge and cutting the pipeline into pieces for proper disposal.
8. After all pipeline has been removed, Step 11 of the "Pipeline Removal from DMPA" will be completed.

### USACE Operations

During the USACE RE process, USACE Operations reviewed the project file and requested removal of the pipeline from under the GIWW and the federal DMPA. A description of the proposed pipeline removal and decommission process has been included as Exhibit 5. An As-Built survey was performed on May 25, 2017 and has been included as Exhibit 6. A depth of cover survey was performed on August 24, 2016 and is attached as Exhibit 7.

### Pipeline Removal

The Applicant has proposed to remove approximately 642 linear feet of pipeline from underneath the GIWW and approximately 990 linear feet of pipeline from the DMPA to comply with navigation safety and the request of USACE Operations.

On February 8, 2018, BEI conducted a seagrass and oyster survey and wetland delineation along the proposed pipeline removal route. The survey buffered the existing pipeline by 250 feet on either side and included nine sample points (Exhibit 8). BEI also located and mapped a narrow, linear band of live oysters growing along the articulated concrete matting which protects the northern shoreline of the GIWW. Oysters will be avoided by utilizing a ramp to offload construction equipment from work barges to the shoreline (and vice versa). Due to the sensitive nature of the construction workspace, all equipment will be tracked on timber mats to minimize impacts to uplands and sensitive resources. Therefore, no permanent impacts to sensitive resources are expected. Please find further descriptions of the pipeline removal in Exhibit 5. An overview map of the construction workspace is provided as Exhibit 9. A photographic exhibit of the survey has been included as Exhibit 10. Table 1 summarizes the acreages of the proposed temporary work area and Table 2 summarizes the proposed temporary impacts to sensitive resources.

**Table 1. Proposed Temporary Work Area**

<b>Proposed Temporary Work Area</b>	<b>Acres</b>
Proposed Excavation	0.02
Proposed Ramp	0.01
Proposed Stockpile	0.93
Proposed Timber Mat	1.1
Proposed Workpad	0.48
<b>Total</b>	<b>2.54</b>

**Table 2. Proposed Temporary Impacts to Sensitive Resources**

<b>Sensitive Resource</b>	<b>Temporary Impact Type</b>	<b>Acreage</b>	<b>Square Feet</b>
Seagrass	Proposed Timber Mat	0.05	2178
Low Marsh Estuarine Wetland	Proposed Workpad	0.22	9583
Low Marsh Estuarine Wetland	Proposed Timber Mat	0.02	871
Low Marsh Estuarine Wetland	Proposed Excavation	0.01	435
High Marsh Estuarine Wetland	Proposed Timber Mat	0.03	1307
High Marsh Estuarine Wetland	Proposed Excavation	0.01	435
	<b>Total</b>	<b>0.34</b>	<b>14809</b>

# CONSISTENCY WITH THE TEXAS COASTAL MANAGEMENT PROGRAM

THE APPLICANT SHOULD SIGN THIS STATEMENT AND RETURN WITH APPLICATION PACKET TO:

COASTAL PERMIT SERVICE CENTER  
6300 OCEAN DRIVE, TAMU-CC  
CORPUS CHRISTI, TX 78412-5841  
FAX: (361) 825-3465

## FOR USACE USE ONLY:

PERMIT #: \_\_\_\_\_

PROJECT MGR: \_\_\_\_\_

## APPLICANT'S NAME AND ADDRESS (PLEASE PRINT):

Title	<input type="text"/>	First	<input type="text" value="Lavaca Pipe Line Company"/>	Last	<input type="text"/>	Suffix	<input type="text"/>
Mailing Address	<input type="text" value="P.O. Box 769"/>				Home	<input type="text"/>	
					Work	<input type="text"/>	
City	<input type="text" value="Point Comfort"/>	State	<input type="text" value="Texas"/>	Zip Code	<input type="text" value="77978"/>	Mobile	<input type="text"/>
Country	<input type="text" value="USA"/>	Email	<input type="text"/>			Fax	<input type="text"/>

The Texas Coastal Management Program (CMP) coordinates state, local, and federal programs for the management of Texas coastal resources. Activities within the CMP boundary must comply with the enforceable policies of the Texas Coastal Management Program and be conducted in a manner consistent with those policies. The boundary definition is contained in the CMP rules (31 TAC §503.1).

- To determine whether your proposed activity lies within the CMP boundary, please contact the Permit Service Center at [permitting.assistance@glo.texas.gov](mailto:permitting.assistance@glo.texas.gov)

## PROJECT DESCRIPTION:

Is the proposed activity at a waterfront site or within coastal, tidal, or navigable waters?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If Yes, name affected coastal, tidal, or navigable waters:	<input type="text" value="Espiritu Santo and Shoalwater Bays"/>	
Is the proposed activity water dependent?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No (31 TAC §501.3(a)(14))
<a href="http://info.sos.state.tx.us/pls/pub/readtac\$ext.TacPage?sl=R&amp;app=9&amp;p_dir=&amp;p_rloc=&amp;p_tloc=&amp;p_ploc=&amp;pg=1&amp;p_tac=&amp;ti=31&amp;pt=16&amp;ch=501&amp;rl=3">http://info.sos.state.tx.us/pls/pub/readtac\$ext.TacPage?sl=R&amp;app=9&amp;p_dir=&amp;p_rloc=&amp;p_tloc=&amp;p_ploc=&amp;pg=1&amp;p_tac=&amp;ti=31&amp;pt=16&amp;ch=501&amp;rl=3</a>		
Please briefly describe the project and all possible effects on coastal resources:		
<ol style="list-style-type: none"><li>1. Remove 642 LF of the pipeline from under the Gulf Intracoastal Waterway to ensure navigation safety.</li><li>2. Remove 990 linear feet of the pipeline from the federal dredged material placement area (DMPA) to ensure compliance with U.S. Army Corps of Engineers Operations Division.</li><li>3. Decommission in place 19,625 linear feet of the pipeline from the southern edge of the DMPA to the pipeline terminus at Steamboat Island to minimize impacts to sensitive resources.</li><li>4. Cap and deactivate approximately 14,350 linear feet of pipeline located on mainland north of the GIWW.</li></ol>		
Indicate area of impact:	<input type="text" value="Temporary Workspace 2.54 Ac."/>	<input checked="" type="checkbox"/> acres or <input type="checkbox"/> square feet

## ADDITIONAL PERMITS/ AUTHORIZATIONS REQUIRED:

<input type="checkbox"/> Coastal Easement - Date application submitted:	<input type="text"/>
<input type="checkbox"/> Coastal Lease - Date application submitted:	<input type="text"/>
<input type="checkbox"/> Stormwater Permit- Date application submitted:	<input type="text"/>
<input type="checkbox"/> Water Quality Certification - Date application submitted:	<input type="text"/>
<input type="checkbox"/> Other state/federal/local permits/authorizations required:	<input type="text"/>
<input type="text"/>	

The proposed activity must not adversely affect coastal natural resource areas (CNRAs).

**PLEASE CHECK ALL COASTAL NATURAL RESOURCE AREAS THAT MAY BE AFFECTED:**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Coastal Barriers            | <input type="checkbox"/> Critical Erosion Areas  | <input checked="" type="checkbox"/> Submerged Lands              |
| <input type="checkbox"/> Coastal Historic Areas      | <input type="checkbox"/> Gulf Beaches            | <input checked="" type="checkbox"/> Submerged Aquatic Vegetation |
| <input type="checkbox"/> Coastal Preserves           | <input type="checkbox"/> Hard Substrate Reefs    | <input checked="" type="checkbox"/> Tidal Sand or Mud Flats      |
| <input type="checkbox"/> Coastal Shore Areas         | <input checked="" type="checkbox"/> Oyster Reefs | <input type="checkbox"/> Waters of Gulf of Mexico                |
| <input checked="" type="checkbox"/> Coastal Wetlands | <input type="checkbox"/> Special Hazard Areas    | <input checked="" type="checkbox"/> Waters Under Tidal Influence |
| <input type="checkbox"/> Critical Dune Areas         |  |  |

*The applicant affirms that the proposed activity, its associated facilities, and their probable effects comply with the relevant enforceable policies of the CMP, and that the proposed activity will be conducted in a manner consistent with such policies.*

**PLEASE CHECK ALL APPLICABLE ENFORCEABLE POLICIES:**

[http://info.sos.state.tx.us/pls/pub/readtac\\$ext.ViewTAC?tac\\_view=5&ti=31&pt=16&ch=501&sch=B&rl=Y](http://info.sos.state.tx.us/pls/pub/readtac$ext.ViewTAC?tac_view=5&ti=31&pt=16&ch=501&sch=B&rl=Y)

	§501.15 Policy for Major Actions
	§501.16 Policies for Construction of Electric Generating and Transmission Facilities
X	§501.17 Policies for Construction, Operation, and Maintenance of Oil and Gas Exploration and Production Facilities
	§501.18 Policies for Discharges of Wastewater and Disposal of Waste from Oil and Gas Exploration and Production Activities
	§501.19 Policies for Construction and Operation of Solid Waste Treatment, Storage, and Disposal Facilities
	§501.20 Policies for Prevention, Response and Remediation of Oil Spills
	§501.21 Policies for Discharge of Municipal and Industrial Wastewater to Coastal Waters
	§501.22 Policies for Nonpoint Source (NPS) Water Pollution
	§501.23 Policies for Development in Critical Areas
	§501.24 Policies for Construction of Waterfront Facilities and Other Structures on Submerged Lands
	§501.25 Policies for Dredging and Dredged Material Disposal and Placement
	§501.26 Policies for Construction in the DBeach/Dune System
	§501.27 Policies for Development in Coastal Hazard Areas
	§501.28 Policies for Development Within Coastal Barrier Resource System Units and Otherwise Protected Areas on Coastal Barriers
	§501.29 Policies for Development in State Parks, Wildlife Management Areas or Preserves
	§501.30 Policies for Alteration of Coastal Historic Areas
	§501.31 Policies for Transportation Projects
	§501.32 Policies for Emission of Air Pollutants
	§501.33 Policies for Appropriations of Water
	§501.34 Policies for Levee and Flood Control Projects

Please explain how the proposed project is consistent with the applicable enforceable policies identified above. Please use additional sheets if necessary. *For example: If you are constructing a pier with a covered boathouse, then the applicable enforceable policy is: §501.24 Policies for Construction of Waterfront Facilities and Other Structures on Submerged Lands. The project is consistent because it will not interfere with navigation or natural coastal processes, and it avoids/minimizes shading.*

§501.17 Policies for Construction, Operation, and Maintenance of Oil and Gas Exploration and Production Facilities. This project is consistent because the Applicant is complying with navigation safety and has minimized impacts to sensitive resources to the maximum extent possible.

BY SIGNING THIS STATEMENT, THE APPLICANT IS STATING THAT THE PROPOSED ACTIVITY COMPLIES WITH THE TEXAS COASTAL MANAGEMENT PROGRAM AND WILL BE CONDUCTED IN A MANNER CONSISTENT WITH SUCH PROGRAM

*Rebecca Muckleroy*

Signature of Applicant/Agent

*4/26/18*

Date

*Any questions regarding the Texas Coastal Management Program should be referred to:*

Jesse Solis  
Texas General Land Office  
6300 Ocean Drive  
TAMU-CC Natural Resource Center Ste. 2800  
Corpus Christi, Texas 78412-5599  
Phone: (361) 825-3050  
Fax: (361) 825-3465  
Toll Free: 1-866-894-3578  
[permitting.assistance@glo.texas.gov](mailto:permitting.assistance@glo.texas.gov)

Ray Newby  
Texas General Land Office  
Coastal Resources Division  
1700 North Congress Avenue, Room 330  
Austin, Texas 78701-1495  
Phone: (512) 475-3624  
Fax: (512) 475-0680  
Toll Free: 1-800-998-4GLO  
[ray.newby@glo.texas.gov](mailto:ray.newby@glo.texas.gov)