



# BWTX



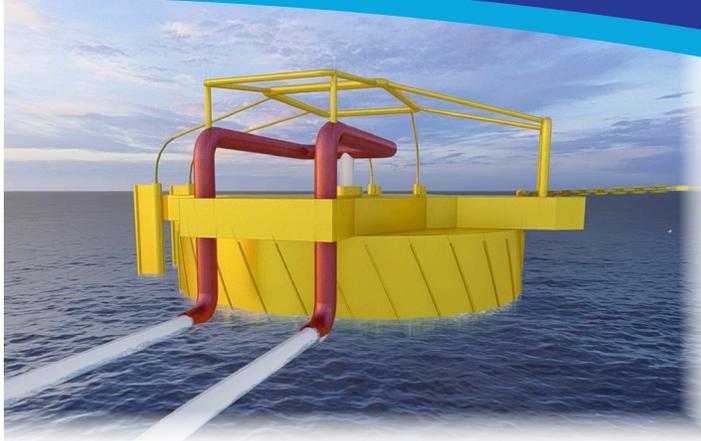
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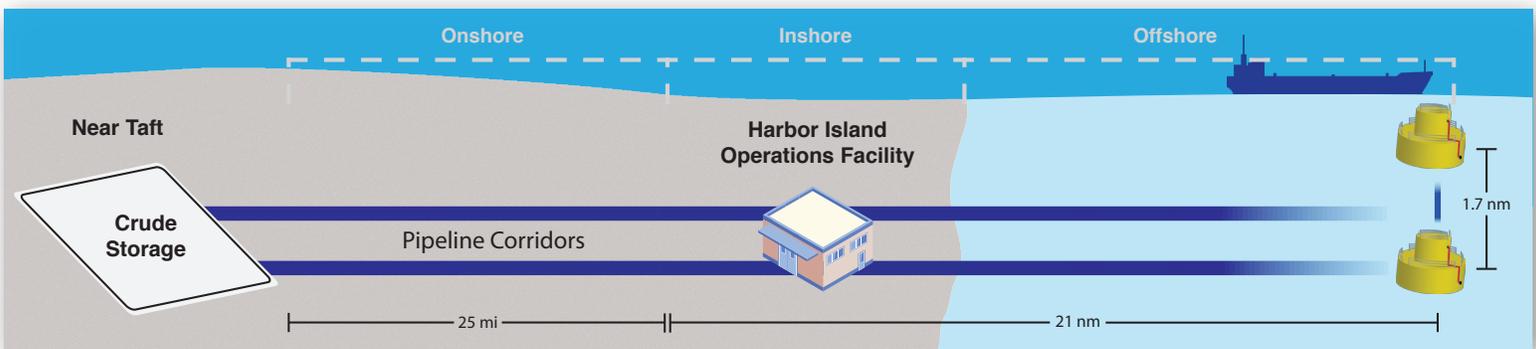
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Rendering of an offshore single point mooring buoy for crude export.

## What is BWTX?

The Bluewater Texas Terminal (BWTX) project, a joint venture between Texas-based Phillips 66 and Trafigura, is an offshore deepwater port. The proposed BWTX project would provide U.S. oil producers with an efficient outlet for crude oil export.



The proposed BWTX project includes two new 30-inch pipelines along 55 miles of onshore, inshore and offshore routes, an operations facility at Harbor Island and two, offshore single point mooring buoys. The mooring system is located approximately 21 nautical miles east of the entrance to the Port of Corpus Christi. Crude oil for BWTX will come from an onshore storage terminal located near Taft, TX, which will connect to the Gray Oak Pipeline and other third-party pipelines.

## Community Support & Economic Benefits

Approximately **70%** of Coastal Bend residents surveyed in 2021 show support for the BWTX project.



**80%** of residents support the project because it will create hundreds of construction jobs, along with dozens of permanent high paying, high skilled, full-time jobs.



**76%** of residents support the project because it will benefit local economies by generating tens of millions of dollars in local property tax revenues benefiting regional school districts.

## We're Listening!

We understand communities like yours are a key part of the approval process and look forward to continue working with you as we move forward on the project.

**We would like to hear from you!**

**STAY INFORMED**  
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We understand that public approval depends on our ability to work in an environmentally responsible and sustainable manner. We are following a rigorous permitting process led by MARAD that includes input from dozens of other regulatory agencies to ensure compliance with all environmental and safety regulations, including minimizing impacts to sensitive ecosystems.

## Environmental Considerations

We designed our project to minimize the impact on the environment, wildlife, and cultural resources including:

- ★ Careful consideration selecting locations for all project components.
- ★ Followed existing right of way pipeline easement corridors.
- ★ Utilize Horizontal Directional Drilling limiting disturbance of environmentally sensitive areas.
- ★ Reduce the need for offshore reverse lightering operations.

## Air Emissions

- Does Not Affect Regional Air Attainment Status Nor Public Health
- Regulated and Monitored by the EPA
- Compared to Reverse Lightering:
  - Five Times Less NO<sub>x</sub>, CO, SO<sub>2</sub>, and Particulates Per Load than Traditional Export Methods
  - 80% Less Greenhouse Gases from Support Vessels

## Oil Spills

- Monitoring 24/7 at Harbor Island Operations Facility
- Support Vessel On-Site While Loading
- Immediate Spill and Fire Response Equipment/Personnel
- Pipeline Route Shut-Off Valves & Auto-Shutoff Hoses

## Why the Coastal Bend?

The Coastal Bend is a major exporter of U.S. crude oil and home to important energy infrastructure. If built, our proposed project would provide oil producers with a more efficient alternative for the export of crude oil.

Energy industry investments, such as BWV, create economic benefits for local communities in the form of construction and full-time jobs, and revenues from property taxes. According to an economic impact study performed by Dr. Jim Lee, the project is expected to potentially generate approximately \$8 million in annual tax revenues and 15,933 jobs in the state of Texas.



Phillips 66 Tetney Monobuoy, Humber Estuary, UK

## Proven Experience

As a BWV JV partner, Phillips 66 has proven knowledge of offshore port technology and 50 years of safe operations.

Since 1971, Phillips 66 has owned and operated the Tetney Monobuoy, located on the east coast of England at the entrance to the pristine Humber Estuary.

# Community Support is **Strong**

## 12 Reasons For You to Support the Project



# BWTX

### BY THE NUMBERS

Approximately **70%** of Coastal Bend residents surveyed in 2021 show support for the BWTX project.



More high paying, full-time jobs



Tax revenues benefiting regional school districts



Ensure local concerns are addressed



Comply with all environmental and safety regulations



Will avoid environmental impacts and sensitive ecosystems



Add to region's status as key energy hub



Load ships 15 miles offshore, out of sight from coastal communities



Strengthens Texas economy



Project will not affect Corpus Christi's air attainment status



Less greenhouse emissions by loading crude oil offshore



Phillips 66 has proven experience in operating offshore deepwater port



Working closely with Port of Corpus Christi

A random sample of 506 residents across San Patricio and Nueces counties, as well as the cities of Taft, Aransas Pass, Port Aransas and Rockport-Fulton, with a +/-4.3% margin of error.



# BWTX

## Support & Economic Benefits

Approximately **70%** of Coastal Bend residents surveyed in 2021 show support for the BWTX project.

**80%**



The BWTX project will create hundreds of construction jobs, along with dozens of permanent high paying, high skilled, full-time jobs.

**76%**



The BWTX project will benefit local economies by generating tens of millions of dollars in local property tax revenues benefiting regional school districts.

**71%**



71% of residents think the growth of industry in the region has been mainly for the better.

**76%** support the project because BWTX is seeking public input and addressing concerns.

## We're Listening!

We understand communities like yours are a key part of the approval process and look forward to continue working with you as we move forward on the project.

**We would like to hear from you!**

**STAY INFORMED**

[BWTXterminal.com/stayinformed](http://BWTXterminal.com/stayinformed)





# BWV

## Project Map



**FIND YOURSELF  
ON THE MAP**  
[BWVterminal.com/#map](http://BWVterminal.com/#map)





# BWTX

## **Bluewater Texas Terminal, LLC is a Joint Venture Partnership with Trafigura**

The Bluewater Texas joint venture combines the unique market position that Trafigura has built in the United States as a leading exporter and marketer of crude oil with Texas-based Phillips 66's commercial expertise, existing infrastructure network and proven operating experience.

## **BWTX Will Provide Critical Export Infrastructure to the Coastal Bend**

The purpose of the proposed BWTX project is to construct and operate an offshore deepwater port providing safe, economical and environmentally sustainable solutions for the export of domestic crude oil.

The proposed project includes:

- New pipeline infrastructure along onshore, inshore and offshore routes - 55 miles total.
- Approximately 12 non-waterfront acres for an operations facility on Harbor Island.
- Up to two offshore buoy systems located approximately 21 nautical miles offshore – out of sight of land.

## **BWTX Will Provide Local Community and Economic Benefits**

Dr. Jim Lee with the South Texas Economic Development Center out of Texas A&M-Corpus Christi performed an economic impact study of the proposed BWTX project. In addition to the transitory economic impacts during the construction phase, the operation of the crude oil export facilities would generate permanent economic impacts on the local economy of Corpus Christi as well as the Texas statewide economy. It was concluded that the project is expected to potentially generate approximately \$8 million in annual tax revenues and 15,933 jobs in the state of Texas.

## **Rigorous Permitting Process is Dictated by the U.S. Maritime Administration (MARAD)**

We are following a rigorous permitting process led by MARAD that includes input from dozens of other regulatory agencies to ensure compliance with all environmental and safety regulations, including minimizing impacts to sensitive ecosystems.

The agency will issue a Draft Environmental Impact Statement (DEIS) for the proposed BWTX offshore deepwater port in the spring, followed by a Final Environmental Impact Statement (FEIS). We anticipate a Record of Decision (ROD) on the permit from MARAD in 2021. The joint venture owners expect to make a final investment decision pending permit approval.

## **Public Engagement is Key to BWTX Project Success**

We understand local community involvement is a key part of the approval process and we will work with regulatory agencies to ensure community involvement and seeking input from local residents.

The public has multiple opportunities to review project materials and provide public comments. MARAD has not announced a date for the release of the DEIS nor the associated public meeting.

The public can learn more about the BWTX project at our website: <http://www.BWTXterminal.com> and can also submit comments or contact the project by:

- Phone: 1-888-766-1000
- Email: [info@BWTXterminal.com](mailto:info@BWTXterminal.com)

## **BWTX is Designed to Protect Coastal Ecosystems**

We designed our project to minimize the impact on the environment, wildlife and cultural resources, including:

- Use of existing utility pipeline routes and the avoidance of sensitive areas.
- Careful consideration was given in selecting locations for all project components.
- We were deliberate in the use of best available technologies such as Horizontal Directional Drilling, which is a best practice used to preserve environmentally sensitive areas.
- Reduce the need for offshore reverse lightering.



## **BWTX Will Not Impact Coastal Bend Air Quality**

*BWTX will neither affect the Corpus Christi area*

*National Ambient Air Quality Standards Attainment status, nor would it impair air quality and public health.*

- BWTX air emissions will be regulated and monitored by the EPA.
- There are currently 600 buoys worldwide and none have vapor control.
- Compared to Reverse Lightering:
  - Five times less NO<sub>x</sub>, CO, SO<sub>2</sub>, and particulates per load than traditional export methods
  - 80% less greenhouse gases from support vessels.

## **Marine Safety is a Top Priority**

Onshore and marine management systems and response plans will be in place to protect marine life from potential oil spills. BWTX will have:

- Monitoring 24/7 at Harbor Island operations facility.
- Support vessel on-site while loading.
- Immediate spill and fire response equipment/personnel.
- Pipeline route shutoff valves & auto-shutoff hoses.
- The MSRC Southern Responder is docked at Ingleside and ready to respond.

## **BWTX Is Working with the Port of Corpus Christi**

The Bluewater Texas Terminal project is working closely with the Port of Corpus Christi to move forward with the BWTX project. In December, The Port of Corpus Christi Authority Commission approved a lease agreement with the BWTX project which includes:

- Pipeline easement on Port-owned property (along Highway 361).
- Plus, 12 non-waterfront acres for an operations facility on Harbor Island.

The lease with POCCA facilitates BWTX's plans to provide a safe and environmentally sustainable infrastructure for the export of abundant domestic crude oil to global markets while benefitting the regional economy. Finalizing the lease agreement and related pipeline easement with the Port of Corpus Christi is one of the steps in the project development process leading up to a decision by the joint venture owners to proceed with the Bluewater project.

## **BWTX Is Not Affiliated with POCCA's Proposed Lone Star Harbor Island Terminal**

BWTX has a lease agreement for a small parcel of land, approximately 12 non-waterfront acres, for an operations facility that will be primarily used for inspection, monitoring & communications and administrative offices.

## **BWTX Pipeline Route Map**

You can find out if your property is on the BWTX pipeline route on our BWTX home page at:

<http://www.BWTXterminal.com>. Just enter your address and the map will zoom in and be able to show you the pipeline route in relation to your property.

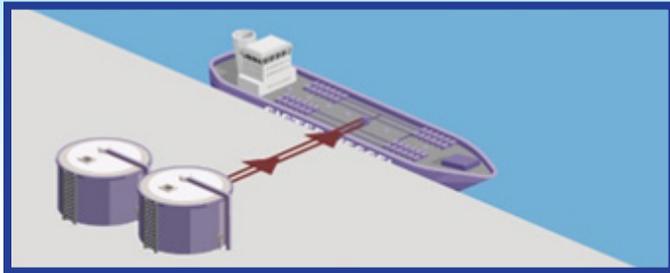
We are committed to treating landowners fairly and respectfully throughout the right-of-way process. If your property is on the pipeline route, we will:

- Negotiate with you on an easement agreement in good faith and transparency.
- Honor landowner requests to cross property in the least impactful way during construction.
- Restore property after construction.
- Provide safety information and resources.

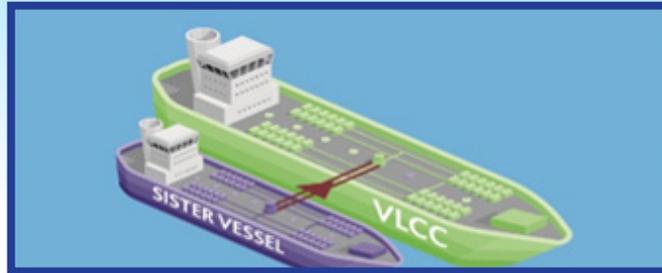
## BWTX is Best for Air Quality

- If built, our project would reduce the need for offshore reverse lightering operations.
- Most crude export from the U.S. Gulf Coast is loaded onto ships with vapor controls from an onshore facility, and then loaded for a second time without emissions controls onto a larger tanker.
- This “double-handling” and the need for more support vessels results in approximately five times the NO<sub>x</sub>, CO, SO<sub>2</sub>, particulate, and greenhouse gas emissions per load.
- Emissions from this loading process, called reverse lightering, are already taking place in the offshore waters of the Coastal Bend.

## Current Operations



1. Crude is loaded onto ships from dock with vapor control from an onshore facility.



2. Loaded a second time without emissions control onto a larger tanker (two support vessels not shown).



*There are 600 buoys operating in the world today. None of them have vapor control technologies.*



**For more information, visit our website!**

## BWTX will Not Impair Regional Air Quality

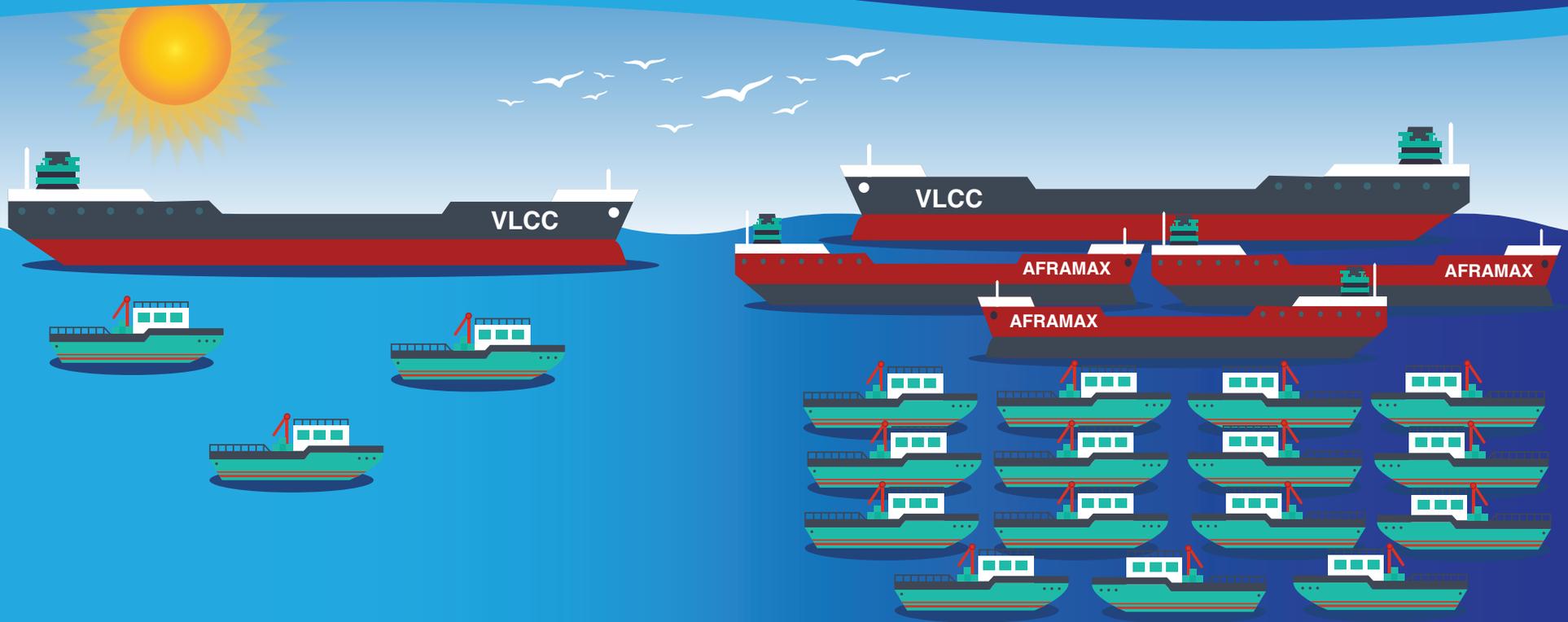
- The EPA requires the project to account for the emissions from loading of VLCCs in its calculations and has evaluated the project's air emissions, conducted a public hearing and a comment period.
- Air modeling and other studies performed as part of the rigorous permitting process demonstrate that the BWTX project will neither affect the Corpus Christi area National Ambient Air Quality Standards Attainment status, nor would it impair air quality and public health.

## Keep it Offshore

- BWTX project has slightly less emissions of criteria pollutants than the current reverse lightering activities because of the reduction in transportation and support vessels.
- The greenhouse gas emissions estimated for BWTX are approximately 80% lower than reverse lightering.
- Loading crude at a deepwater port is a safer, more efficient alternative to reverse lightering while also reducing nearshore ship traffic and inshore port congestion.



# BWTX is Better for Air Quality



## BWTX

- Emission Sources
- 1 VLCC
  - 3 Support Vessels



More Efficient, Safer, Less Traffic



Lower Spill Risk



80% Lower Greenhouse Gases

## Reverse Lightering

- Emission Sources
- 1 VLCC
  - 3 Shuttle Tankers
  - 15 Support Vessels



Less Efficient, More Traffic



Higher Spill Risk



Higher Greenhouse Gases



## Environmental Considerations

We designed our project to meet or exceed several criteria to minimize the impact on the environment, wildlife and cultural resources, including the use of existing utility pipeline routes and the avoidance of sensitive areas.



Careful consideration given in selecting locations for all project components.

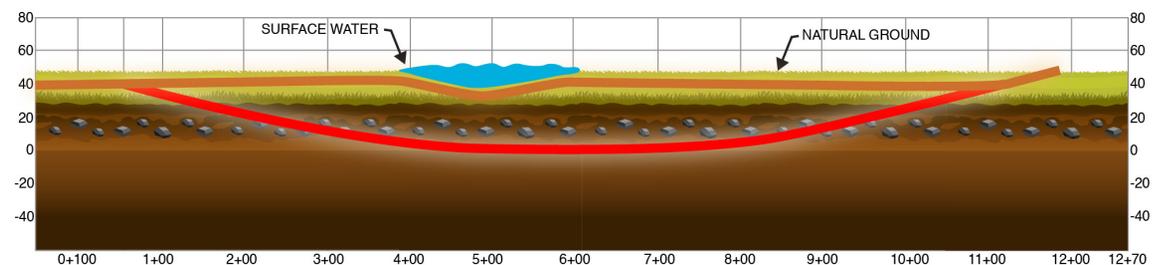


Performed extensive surveys to minimize impact to the environment.



Followed existing right of way pipeline easement corridors.

Horizontal Directional Drilling (HDD) is a best practice drilling technique that preserves environmentally sensitive areas and does not impact threatened and endangered species such as seagrasses and oyster beds. The natural aboveground landscape remains undisturbed through our deliberate use of HDD, which is approximately five times more costly than traditional pipeline construction methods.



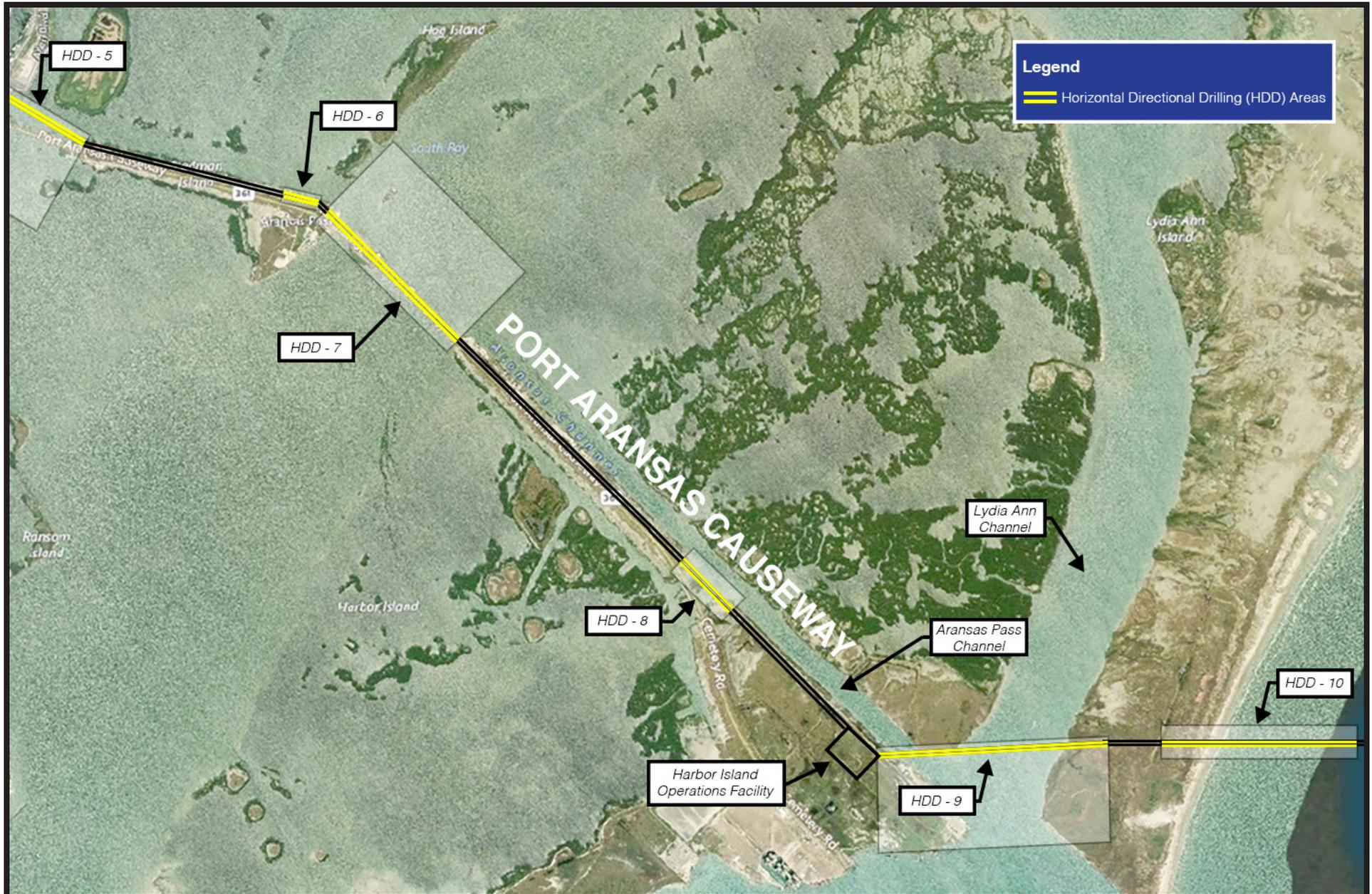
This drilling technique will be used at the onshore and inshore areas of the project along the Port Aransas Causeway on Highway 361, across the Intracoastal Waterway, and is planned for both Aransas Pass Channel and Lydia Ann Channel (see map on opposite side).

Temporary impacts will be primarily during project construction and will be minimized and mitigated through best management techniques all under the watchful eye of regulatory authorities.

# Best Practices: Horizontal Directional Drilling (HDD)



# BWV





# BWTX



*“The Bluewater Texas project will **inject needed revenue** into the U.S. economy and **create many jobs** (welders, equipment operators, electricians, and other construction workers). This will both directly and indirectly **create spin-off jobs** in other sectors of the economy that provide goods and services to the energy industry.”*



**Corpus Christi**  
REGIONAL ECONOMIC  
DEVELOPMENT CORPORATION

*“Philips 66 has had **extensive meetings with stakeholders** in the area and we believe this proposed project is well-considered, and a **solid option for maintaining environmental standards**, including keeping the Coastal Bend in Air Attainment (2017 NAAQS Standards). CCREDC is committed to pursuing smart and sustainable economic development practices and projects in this region, and we believe that this application meets these standards, and has been **carefully planned and evaluated.**”*

*“The Bluewater Texas Terminal represents an **OFFSHORE option** that would **spur economic development** for our oil and gas industry while keeping harmful impacts away from critical spawning grounds and habitats on the Texas coast. Because it would be a **win-win-win** for our oil and gas industry, our ecology and our tourism economy, the Texas Coastal Coalition **supports** the permitting of the Bluewater Texas Terminal.”*



*“As a local, I also know firsthand how **important our tourism sector** is and how much our locals love access to beaches and the outdoors. That is why, with **the latest safety standards and due diligence**, I believe **this project can be done in an environmentally responsible way** while also becoming an investment within our community. The proposed project is guardedly **designed to meet several criteria to minimize the impact on the environment, wildlife, and cultural resources.**”*

- Nueces County Judge Barbara Canales

*“The United Corpus Christi Chamber of Commerce supports the partnership of Texas Bluewater Terminals to bring this project to the Port of Corpus Christi and all the **economic advantages** it will bring to the Coastal Bend.”*



*“TXOGA recognizes that multiple energy projects, including those like BWTX, are creating world class transportation infrastructure to help our communities and businesses reach markets across the globe. **Sound science and technology will ensure an environmentally responsible and efficient operation** and, according to provided models, the BWTX project **will not negatively affect the air quality around Corpus Christi.**”*



*“As the leading gateway for U.S. produced energy exports and a major economic engine of the State of Texas and the nation, the Port Corpus Christi Authority is submitting its **full endorsement** of Bluewater Texas Terminals, LLC project. Advancing the Bluewater Texas project is another step forward in the Port of Corpus Christi's mission to support infrastructure that will facilitate navigable commerce and thereby **drive our nation's economic recovery** from the impacts of COVID-19.”*



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