

SPRING 2026



# LAPIS

PROJECT LIBRA UPDATE

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The purpose of this deck is to provide a one-stop shop for information about our Libra Project in St. Charles Parish. We will update these materials periodically, adding information based on community feedback. We will also post updates to our [Project Libra Facebook page](#).

Please reach out if you have questions: [projectlibra@lapiscarbonsolutions.com](mailto:projectlibra@lapiscarbonsolutions.com). We'd love to hear from you!



## WHAT WE DO

Lapis develops, constructs, and operates Carbon Capture, Utilization, and Storage (CCUS) projects, providing solutions for emitters looking to decarbonize industrial operations. Our technical expertise allows Lapis to utilize a dual approach for CCUS project development:

- ▶ Identifying strategic sites for sequestration
- ▶ Providing custom carbon solutions tailored to emitters' needs

### CAPTURE

CO<sub>2</sub> capture solutions customized to each industry partner

### TRANSPORT

Safe movement of compressed CO<sub>2</sub> to storage sites or utilization partners

### UTILIZE

Utilization services to provide CO<sub>2</sub> to food and beverage industry partners

### STORE

Permanent CO<sub>2</sub> storage, monitoring, and site closure in line with Class VI EPA/LDC&E standards

# WHAT IS CCS?

Carbon Capture and Storage (CCS) is the process of separating, then permanently and safely storing, CO<sub>2</sub>.

1

## CAPTURE

Separate CO<sub>2</sub> from other gases produced at large industrial process facilities.

2

## TRANSPORT

Compress and transport CO<sub>2</sub> to a suitable site for geological storage.

3

## OPERATE

Inject and rigorously monitor in accordance with Class VI and industry standards.

4

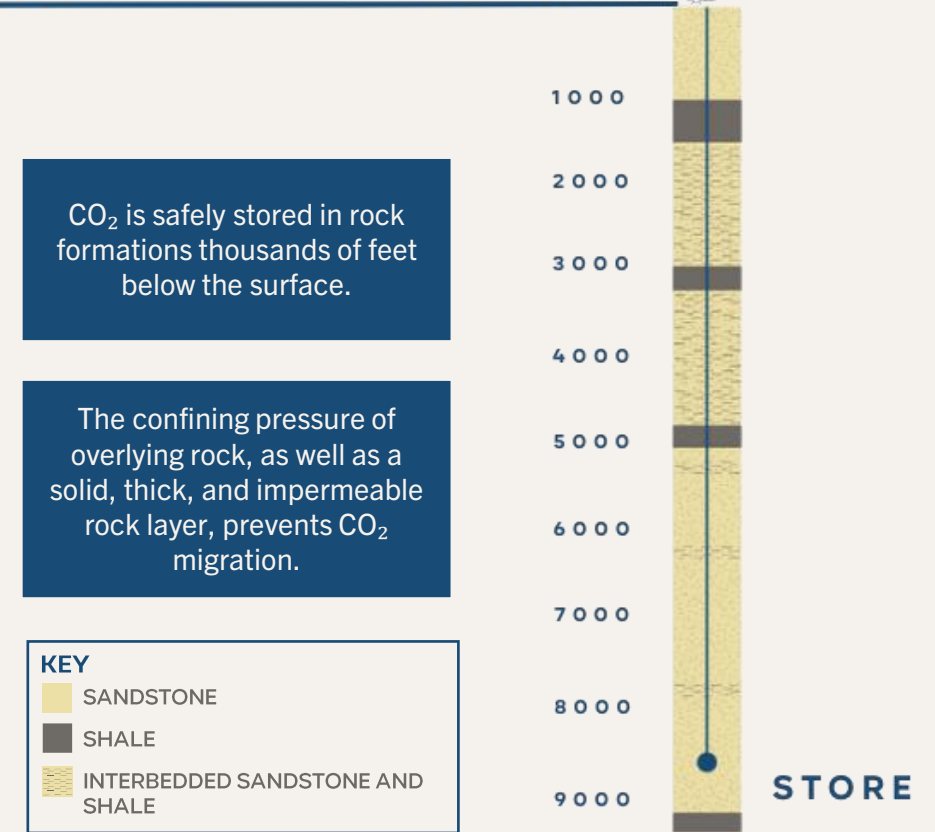
## SAFE, PERMANENT STORAGE

CO<sub>2</sub> is stored deep underground in sandstone rock formations thousands of feet below the surface. The site is monitored 24/7 throughout operations and for more than a decade post-operations per EPA and/or LDC&E standards.



CAPTURE

TRANSPORT



Note: This is a simplified illustration.

# CCS: A TESTED TECHNOLOGY

## CAPTURE

- Capture technology **BEGAN IN THE 1930S**.
- At least **160 MILLION METRIC TONS OF CO<sub>2</sub>** are captured **EVERY YEAR** for use in industries such as food, beverage, and fertilizers.
- CCS is **HEAVILY REGULATED** by the Louisiana Department of Conservation and Energy.

## TRANSPORT

- There are **5,300+ MILES OF CO<sub>2</sub> PIPELINES** in the U.S.
- In the last 50 years, pipelines have transported **OVER 500 MILLION** metric tons of CO<sub>2</sub>.
- During the entire period of CO<sub>2</sub> pipeline operation there have been **NO RELATED FATALITIES**.

## STORE

- Since 1996, **MORE THAN 380 MILLION METRIC TONS** of CO<sub>2</sub> have been safely and permanently stored using CCS.
- The U.S. has the **LARGEST NUMBER OF CCS PROJECTS IN DEVELOPMENT** in the world.
- CCS operators must employ **ROBUST, CONTINUOUS MONITORING** programs.

- ▶ SOURCE: GLOBAL CCS INSTITUTE
- ▶ SOURCE: CLEAN AIR TASK FORCE
- ▶ SOURCE: CARBON ACTION ALLIANCE

# IS CCS SAFE?

CCS is a safe, proven way to prevent CO<sub>2</sub> from entering the atmosphere.

## CCS HAS EXISTED SAFELY FOR YEARS.

CCS is not a new technology and is heavily regulated by the State of Louisiana based on EPA rules and regulations.

CO<sub>2</sub> injection for enhanced oil recovery has existed safely across the U.S. and in coastal Louisiana for decades.

## OPERATORS ARE REQUIRED TO DEVELOP ROBUST, 24/7 MONITORING PROCESSES.

Our Class VI application details the many monitoring mechanisms we will use to keep people safe. This includes multiple monitoring wells, water wells, and seismic monitoring devices.

## CO<sub>2</sub> PIPELINES HAVE AN EXEMPLARY SAFETY RECORD.

About 5,300 miles of CO<sub>2</sub> pipelines already exist across the U.S.

These pipelines have an average incident rate of 0.001 per mile per year.

Since the U.S. Pipeline and Hazardous Materials Safety Administration (PHMSA) began overseeing CO<sub>2</sub> pipeline safety in 1988, only one incident reached the threshold of a serious incident.

No fatalities associated with CO<sub>2</sub> pipelines have ever been reported.

- ▶ [READ MORE ABOUT CCS SAFETY](#)
- ▶ [READ MORE ABOUT CO<sub>2</sub> PIPELINE SAFETY](#)
- ▶ [READ MORE ABOUT MONITORING PROCESSES](#)
- ▶ [READ MORE ABOUT LAPIS' SAFETY COMMITMENTS](#)

# WHAT IS PROJECT LIBRA?

## SERVICE

TRANSPORTATION AND STORAGE

## ESTIMATED VOLUME

1-4 MILLION METRIC TONS OF CO<sub>2</sub> PER YEAR

## PARTNERS

LAPIS (OPERATOR)  
EXXON (NON-OPERATOR)

## CLASS VI STATUS

SUBMITTED

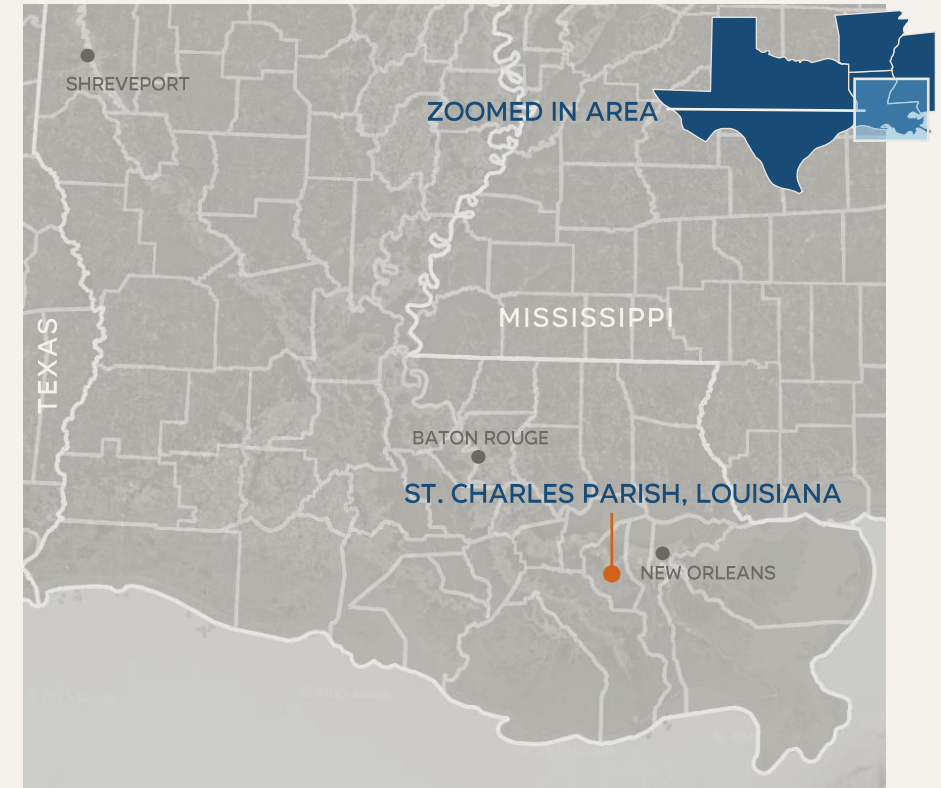
## PROJECT TYPE

SINGLE PRIVATE LANDOWNER, MULTIPLE EMITTER REGIONAL HUB

Project Libra is a 14,000-acre CO<sub>2</sub> storage site located in St. Charles Parish, about 20 miles from New Orleans.

We currently estimate that the site has capacity to hold 80 million metric tons of CO<sub>2</sub> and has the potential to become a regional hub for decarbonization.

The project helps Louisiana grow its economy and stay competitive in a global market that demands lower-carbon products.



2022

Acquired pore space



2024

Submitted Class VI permit application



2025

Advance project and deepen local engagement



2027

Final Investment Decision expected and start of construction



2028

First injection target

# PROTECTIVE TOP SEALS AND INJECTION ZONES



## SHALES: SEAL

Shales protect Underground Sources of Drinking Water (USDW) from CO<sub>2</sub> migration. These rocks are impermeable—CO<sub>2</sub> cannot move through them. Multiple layers of thick (hundreds of feet thick) shale act as seals that prevent CO<sub>2</sub> movement.



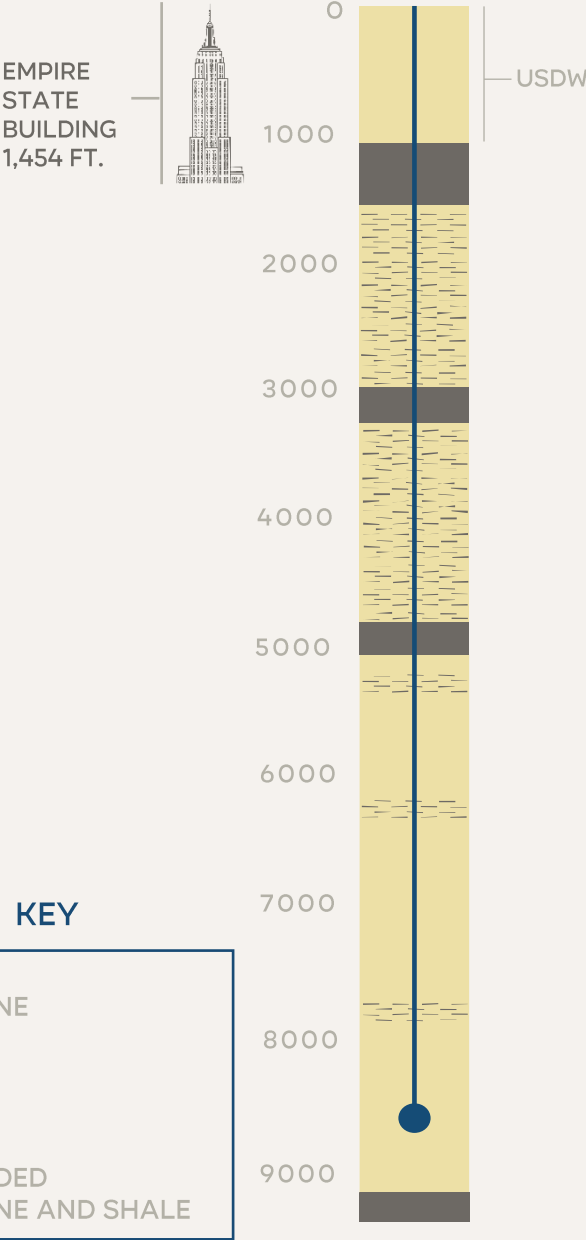
## SANDSTONES: INJECTION ZONE

Sandstone is a highly porous rock—imagine a sponge—with tiny gaps between sand grains filled with saline (non-potable water, i.e., not safe for drinking). During injection, CO<sub>2</sub> displaces this salty water and enters the sandstone. Libra’s subsurface features sandstone with excellent porosity and connectivity, allowing pressure to dissipate more easily than in tighter rock.



## CO2 STORAGE ZONE

For Libra, we’re targeting an injection interval that is more than 5,000 feet below the surface and 3,300+ feet below the USDW. We plan to inject at a depth that’s similar to stacking more than three Empire State Buildings underground.



Note: This is a simplified illustration.

# WHAT IS PROJECT LIBRA'S STATUS?

WE ARE IN THE **EARLY STAGES** OF DEVELOPING A 14,000-ACRE STORAGE SITE IN ST. CHARLES PARISH.

Our world-class technical team selected this site based on extensive analysis of the area and subsurface qualities.

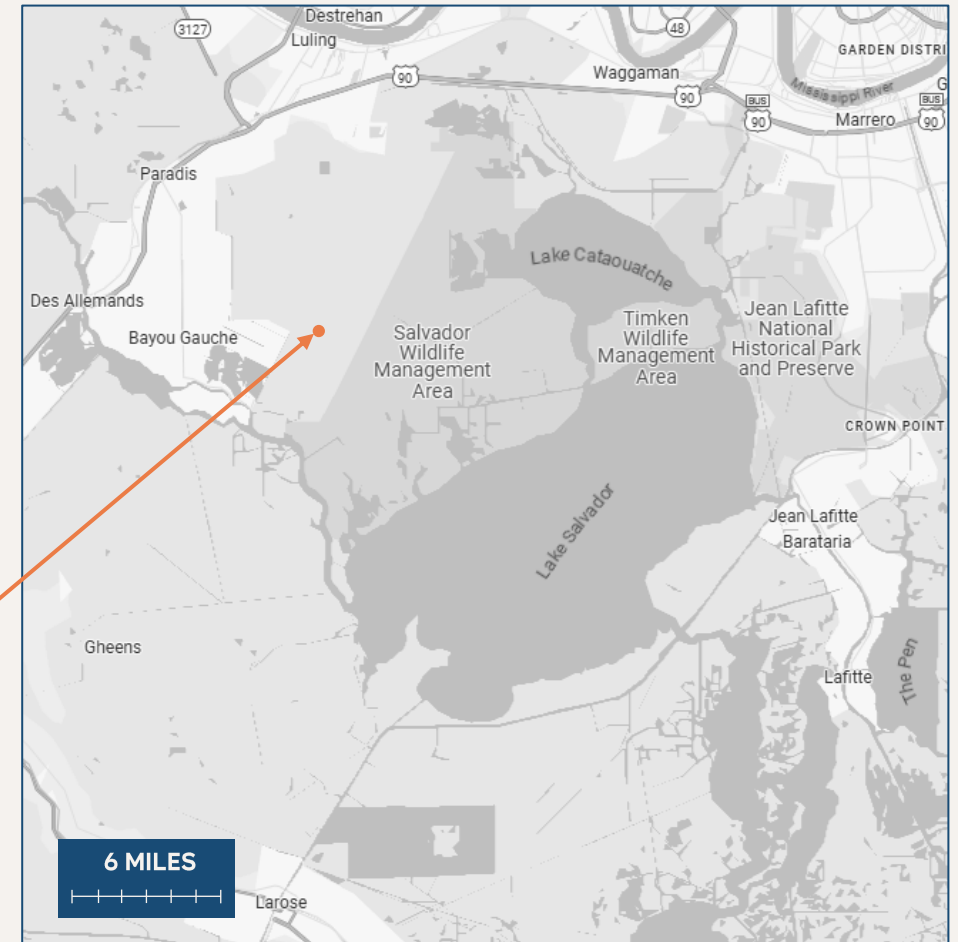
Lapis is in the process of permitting the site with multiple agencies.

It takes years to obtain a Class VI permit—the type of permit required to inject CO<sub>2</sub> underground for safe, permanent storage.

We submitted our Class VI permit application in late 2024. As we continue to confirm the site's feasibility and obtain technical data, we are engaging with many stakeholders.

## APPROXIMATE SITE LOCATION

~6 miles from Lake Salvador  
~2.25 miles from the nearest building



# PROJECT LIBRA FOOTPRINT

## ▶ MONITORING

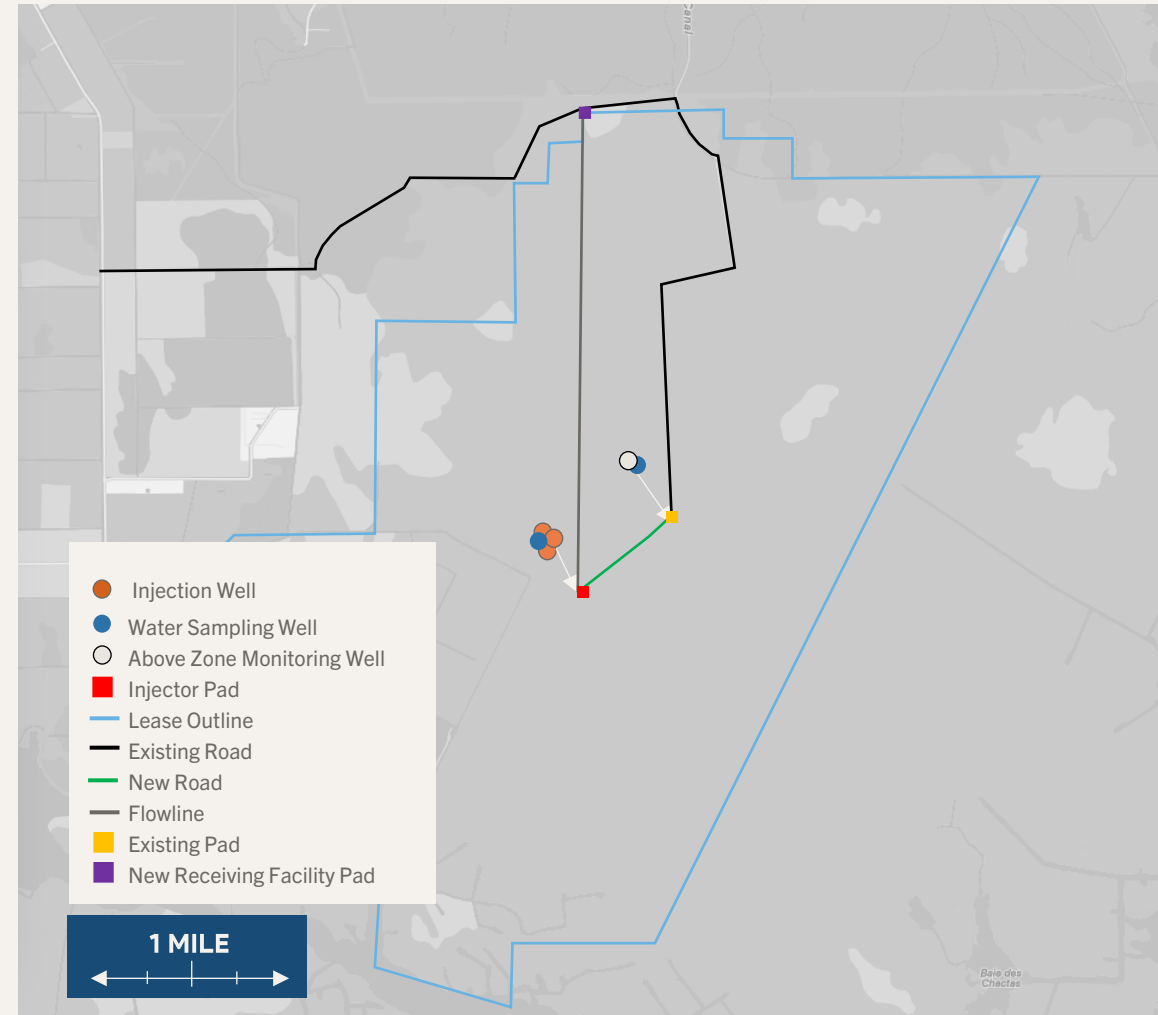
We will monitor reservoir pressure 24/7 using downhole gauges in the injection wells. We will also install two water wells to monitor water quality.

## ▶ EXISTING OIL AND GAS INFRASTRUCTURE

We screened the area for oil and gas wells before we moved forward with the project. While there is no active production in the area relevant to our permit, there is old infrastructure associated with oil and gas, which will be properly remediated.

## ▶ REMEDIATING FORMER OIL AND GAS WELLS

We will follow established procedures to safely and permanently plug and abandon wells formerly used for oil and gas. This process requires us to use corrosion-resistant cement around all well casings—including confining zones—to prevent potential CO<sub>2</sub> migration.



# WHERE IS THE CO<sub>2</sub> COMING FROM? IS THERE A PIPELINE?

THE ONLY PIPELINE LAPIS IS CURRENTLY PERMITTING IS FROM THE INJECTION SITE TO THE EDGE OF THE PRIVATE PROPERTY.

We don't yet have an emitting partner, so we don't have details about additional pipelines, routes, or specific CO<sub>2</sub> sources. Any additional pipelines must go through a separate permitting process.

The only pipeline currently being permitted through our coastal use permit application is a ~3.56-mile flowline located entirely within the private property project site that will run from the injection site to a tie-in point.

## WHAT'S THE DIFFERENCE BETWEEN A PIPELINE AND A FLOWLINE?

Flowlines: on-site, within-lease transport.

Pipelines: off-site, interstate or intrastate transport.

ANY ADDITIONAL PIPELINES OR INFRASTRUCTURE MUST GO THROUGH A SEPARATE PERMITTING PROCESS.

Pipelines can only be built by going through a rigorous permitting process. This process is separate from the flowline, pad, road, and Class VI wells currently being permitted, though many of the same agencies (USACE, LDC&E, etc.) are involved.

Specific requirements for permitting a new pipeline depend on proposed routes, but new pipelines generally need: a section 10/404 permit, pipeline rights-of-way, water quality certifications, discharge permits, waste permits, and comments, concurrence, or letters of no objection from a host of local, state, and federal entities. A pipeline would also have its own separate comment period and hearing process.



LAPIS

SAFETY

# HOW WILL LAPIS MONITOR INJECTION?

Class VI wells must have **comprehensive, real-time monitoring** in place **before injection begins**. We plan to monitor through four primary mechanisms:

## 1 SEISMIC MONITORING

24/7, real-time seismic monitoring using remotely controlled seismic devices, which will monitor CO<sub>2</sub> movement and seismic activity underground.

## 3 UNDERGROUND MOVEMENT MONITORING

We will monitor CO<sub>2</sub> pressure and movement both within the injection wells and through a monitoring well installed away from the injection wells but within the plume area.

## 2 PRESSURE MONITORING

Gauges on injection wells will enable us to detect pressure changes within the wells in real-time.

## 4 WATER WELLS

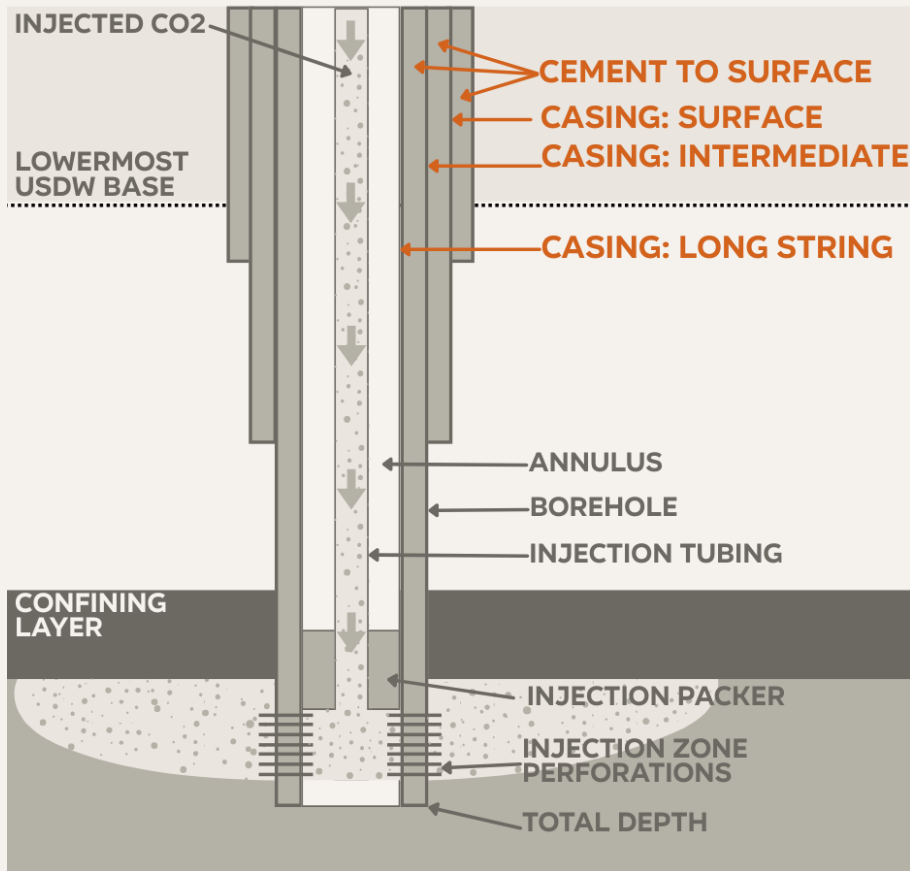
Multiple water wells will be installed to continuously monitor water quality and ensure we protect Underground Sources of Drinking Water (USDWs).

Our monitoring program will be thorough, ongoing, and iterative in response to CO<sub>2</sub> movement.

# WELL SPECIFICATIONS: CO<sub>2</sub> INJECTION VS. OIL AND GAS

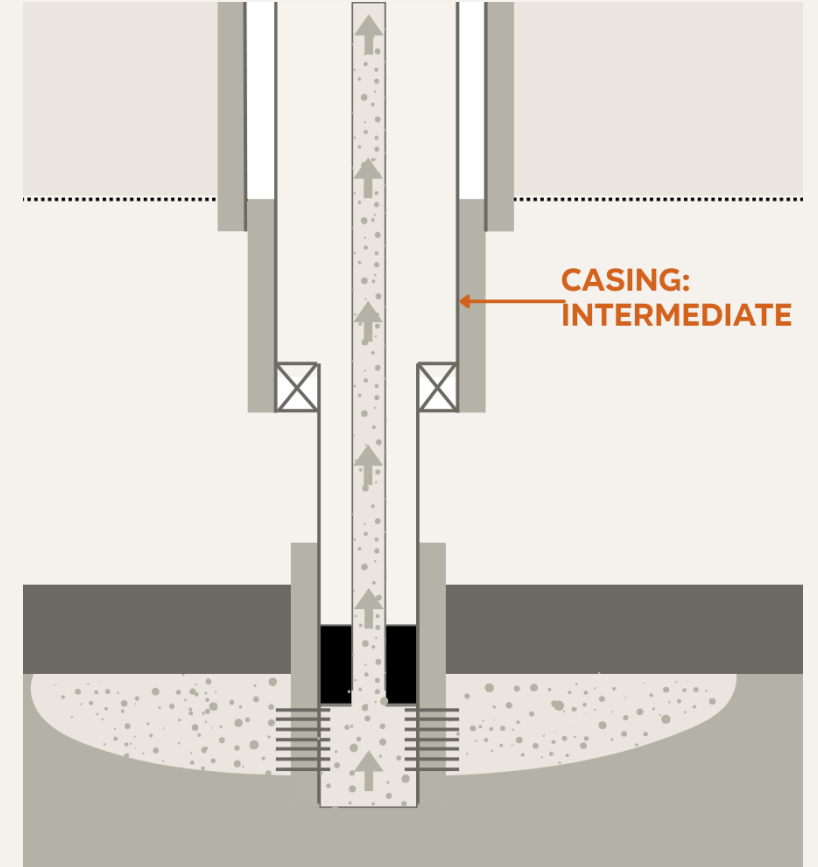
CCS wells are designed to exceptionally high standards—more so than a typical oil and gas well

## CCS CO<sub>2</sub> INJECTION WELL



4-8X COST OF A REGULAR OIL AND GAS WELL

## TYPICAL OIL AND GAS WELL



All casing strings extend to surface  
All casing strings are cemented to surface

Use of corrosion resistant alloy over injection interval  
Use of highly corrosive resistant cement over entirety of well bore surface vs. Portland cement and regular steel casing in an oil and gas well

# CO<sub>2</sub> PIPELINE SAFETY AND SATARTIA, MISS.

## ▶ WHAT HAPPENED IN SATARTIA?

In Satartia, a pipeline ruptured after days of heavy rainfall that in turn caused landslides and shifting soil. The area's low-lying geography caused slow CO<sub>2</sub> dissipation, impacting health and vehicle functioning. Lapis has no connection to the incident.

## ▶ COULD SOMETHING SIMILAR HAPPEN WITH LIBRA?

The St. Charles Parish Emergency Operations Center (EOC) modeled a worst-case scenario—a total flowline rupture with 20 mph winds—which showed that the maximum distance CO<sub>2</sub> might travel would be ~500 yards. There are no buildings within 500 yards of the flowline. We will also conduct further, independent dispersion modeling once the project is more fully developed and communicate results publicly.

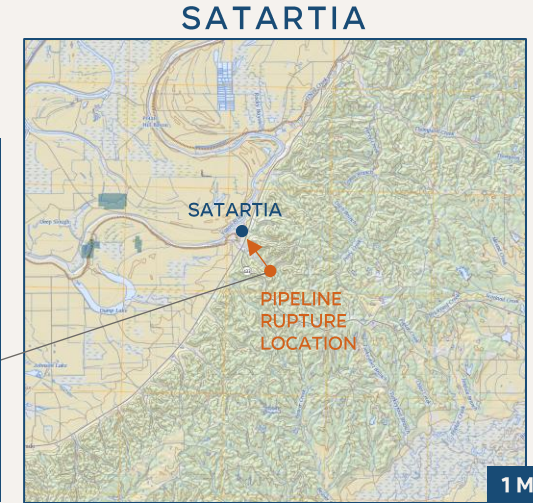
## ▶ WE WILL RIGOROUSLY MONITOR AND TEST PIPELINES.

We will have real-time, 24/7 monitoring to detect pressure changes, which would indicate a potential issue. We also routinely and rigorously inspect our pipeline to spot potential issues before they occur. To prevent corrosion, we will also ensure that the CO<sub>2</sub> is *very, very dry*.

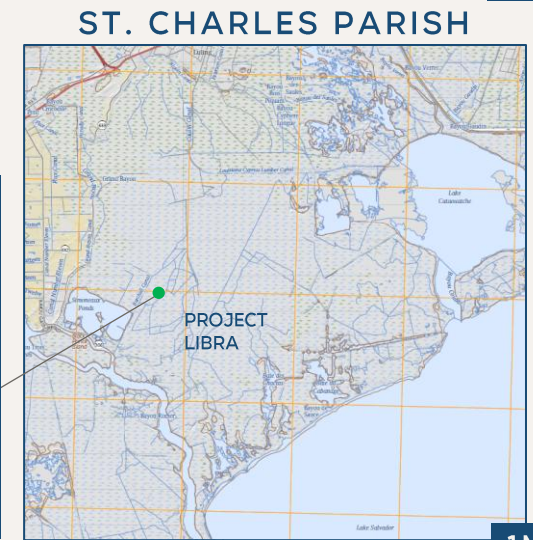
## ▶ IS LAPIS USING NEW OR REPURPOSED PIPELINES?

Our flowline is new. The only existing infrastructure we are using is an existing pad to ensure we limit potential wetland impacts.

In Satartia, the pipeline rupture occurred at a higher elevation, then traveled downhill. Once the CO<sub>2</sub> reached Satartia, it dissipated more slowly because of the area's low-lying elevation.



Unlike Satartia, St. Charles Parish is flat. This means that CO<sub>2</sub> would dissipate rapidly in an emergency response scenario, preventing similar impacts to health and emergency responders.





# LAPIS

COMMUNITY BENEFITS AND ENGAGEMENT

# IS CCS A GOOD IDEA FOR LOUISIANA?

CCS WILL CREATE JOBS, ATTRACT INVESTMENT, AND KEEP LOUISIANA COMPETITIVE.

▶ The [Louisiana Department of Energy and Natural Resources \(now LDC&E\)](#) and [Louisiana Economic Development](#) sum it up:

Increased investment means more jobs, more growth, and more community investment both short- and long-term.

CCS strengthens existing industries and keeps Louisiana at the forefront of innovation.

Louisiana has an established pipeline network, generational industry expertise, and natural geological formations that provide safe, permanent CO<sub>2</sub> storage.

# HOW DOES PROJECT LIBRA BENEFIT ST. CHARLES PARISH?

AS A SERVICE PROVIDER, WE **ENABLE EMITTERS** TO STAY COMPETITIVE, MEET DEMAND FOR LOWER-CARBON PRODUCTS, AND ADD JOBS. WE ALSO CONTRIBUTE TO THE PARISH THROUGH:

INCOME TAX	Through a revenue sharing plan with the state, Libra revenue is paid to St. Charles Parish based on population and number of homesteads.
SALES TAX	5% sales tax is paid to St. Charles Parish on equipment purchased by Lapis. Of that, 60% goes to parish public schools and 40% to the parish directly.
PROPERTY TAX	We estimate around ~\$18MM in property taxes will be paid to St. Charles Parish over 20 years (the life of the project).
JOBS	While the majority of jobs will be created by emitters, we will support temporary construction jobs and up to 6 full-time roles once injection begins.

COMMUNITY GIVING	Whether through our partnership with RJ Vial Elementary, supporting the Hahnville Tigers Touchdown Club, or participating in Battle for the Paddle, we're contributing to the current and future success of St. Charles Parish.
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**WE ESTIMATE THAT PROJECT LIBRA WILL DIRECTLY CONTRIBUTE MORE THAN \$30 MILLION TO ST. CHARLES PARISH. WE EXPECT THIS MODELED FIGURE WILL INCREASE AS WE GET MORE CLARITY ON OUR EMITTING PARTNER AND INDIRECT BENEFITS.**

# HOW ARE WE ENGAGING IN ST. CHARLES PARISH?

## CCS & PROJECT EDUCATION

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We started engaging with the community in summer 2024, and since have expanded our reach. We hold regular meetings and educational sessions with small groups of community members and provide CCS info sessions to local organizations.

## COMMUNITY EVENTS

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We are introducing our company to the community by attending events like the United Way’s “Battle for the Paddle” jambalaya and gumbo cookoff.

## COMMUNITY PARTNERSHIPS

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We are proud to serve as a Corporate partner to RJ Vial Elementary School, providing support for students and teachers.



We celebrated RJ Vial Elementary’s 50<sup>th</sup> Anniversary celebration in fall 2025. We’ve served as the school’s corporate partner since 2024.



Lapis participated in the United Way’s “Battle for the Paddle” event in October, where we made jambalaya and gumbo.



# LAPIS

PERMITS

# WHAT PERMITS ARE IN PROCESS?

CCS is a highly regulated industry requiring state and federal permits that take several years to obtain.

GOVERNING ENTITY	PERMIT TYPE	STATUS AND TRACKING	TIMING
Louisiana Dept. of Energy and Natural Resources – Office of Conservation, Injection & Mining	<b>Class VI Injection Permit</b> Typically must receive Class V permit(s) before obtaining Class VI permit.  Coastal Use permits (below table) are required to construct the infrastructure needed to build a Class VI well (road, pad, etc.).	Submitted – view our <a href="#">full Class VI application here</a> .	Estimated end of 2026
	<b>Class V Permit(s)</b> Monitoring wells (to monitor CO <sub>2</sub> once injected), water wells (to monitor water quality), stratigraphic well (to collect geological information).	Received Class V permit for stratigraphic test well – <a href="#">view here</a> .	Received March 27, 2025

GOVERNING ENTITY	PERMIT TYPE	STATUS AND TRACKING	TIMING
Louisiana Dept. of Energy and Natural Resources – Office of Coastal Mgmt.	Coastal Use Permit; required for construction work (well pad, access road, receiving facility, 16-inch flowline) near proposed injection site, located entirely on private property.	Submitted – <a href="#">view here</a> . Comments closed.	2025
U.S. Army Corps of Engineers <i>(Commenting agencies: NOAA Fisheries, U.S. EPA, U.S. Dept. of Interior, U.S. Fish and Wildlife Service)</i>	Section 404 (Clean Water Act) Permit; required for construction work (well pad, access road, receiving facility, 16-inch flowline) near proposed injection site, located entirely on private property.	Submitted – <a href="#">view here</a> . Comments closed.	2025

 [VIEW A MORE DETAILED LIST OF PERMITS](#)

# WHAT IS A CLASS VI PERMIT?

Class VI is the type of permit needed to inject CO<sub>2</sub> underground.

## CLASS VI WELLS ARE SUBJECT TO A RIGOROUS PERMITTING PROCESS.

The time frame from application to injection typically takes years and a number of additional permits from various state and federal agencies.

Class VI wells—the type of well needed to inject CO<sub>2</sub> underground for safe, permanent storage—are designed to rigorous standards, more so than oil and gas wells.

## THE LOUISIANA DEPARTMENT OF ENERGY AND NATURAL RESOURCES (LDC&E) MANAGES CLASS VI PERMITS.

The state has a tracker where you can see all applications and their status [here](#).

Once the Lapis Class VI permit has undergone further review, LDC&E will hold a public hearing. This will likely occur in 2026.

## KEY PERMITS NEEDED TO START INJECTION:

1. Coastal use permit and section 404 (Clean Water Act) permit to construct the infrastructure needed for a Class VI well.
2. Class V permit(s) to conduct geotechnical tests and drill monitoring wells.
3. Class VI permit to inject.

- ▶ VIEW OUR CLASS VI PERMIT APPLICATION
- ▶ VIEW A MORE DETAILED LIST OF PERMITS
- ▶ LEARN MORE ABOUT LOUISIANA'S CCS REGULATORY PROCESS

# WHAT DOES A CLASS VI APPLICATION ENTAIL?

Class VI permits are designed to protect public health, the environment, and Underground Sources of Drinking Water (USDWs).

## APPLICATION REQUIREMENTS:

While Class VI applications can differ in structure and level of detail, they must cover the below areas:

1. Administrative information
2. Site characterization
3. Area of review and corrective action plan
4. Well construction and design
5. Testing and monitoring plans
6. Post-injection site care and closure
7. Emergency and remedial response
8. Financial responsibility

## CLASS VI APPLICATION STEPS:

- ▶ Identify a potential site location. Evaluate site geology, groundwater, and existing wells.
- ▶ Create a detailed Class VI application using regulatory guidance.
- ▶ Submit application to LDC&E. LC&E reviews for completeness.
- ▶ Enter technical review. Provide LDC&E with new or additional information as requested.
- ▶ Complete technical review. LDC&E publishes draft permit and schedules public hearing.
- ▶ Following public hearing, LDC&E issues final decision. If permit is approved, construction commences in line with permit conditions.

# HOW IS LAPIS' CLASS VI APPLICATION STRUCTURED?

1. SITE CHARACTERIZATION	Evaluates the site's geologic properties to make sure the proposed well is in a subsurface area well suited to permanent CO <sub>2</sub> storage.
2. PLUME MODEL	Depicts the area underground where CO <sub>2</sub> is projected to migrate over time.
3. AREA OF REVIEW AND CORRECTIVE ACTION PLAN	The Area of Review (AOR) defines the region around the injection wells where CO <sub>2</sub> might migrate or where the underground pressure is projected to change due to CO <sub>2</sub> injection (also known as the 'critical pressure front'). The AOR is created using plume and critical pressure front models. Corrective action plans identify and address risks in the AOR.
4. ENGINEERING DESIGN AND OPERATING STRATEGY	Specifies the parameters of well construction to ensure well integrity.
5. TESTING AND MONITORING PLAN	Defines how an operator will monitor well integrity, including information about monitoring wells, groundwater monitoring wells, and CO <sub>2</sub> plume and pressure front monitoring. These plans are in place throughout the life of the project, even after injection.
6. INJECTION WELL PLUGGING PLAN	Details how we will permanently plug the well to prevent fluid movement.
7. POST-INJECTION SITE CARE AND SITE CLOSURE PLAN	Outlines how we will care for and close the site after permanently plugging the well.
8. EMERGENCY AND REMEDIAL RESPONSE PLAN	Provides site-specific emergency response plans, including various risk scenarios, response timelines, and communication plans.
9. FINANCIAL ASSURANCE	Describes the financial instruments we maintain to cover the cost of corrective action, including plugging, post-injection site care, and emergency response.
10. ENVIRONMENTAL JUSTICE	Reviews the demographics of the communities near our project to evaluate potential impacts to vulnerable communities.
11. IT QUESTIONS	Specific LDC&E requirement; details potential environmental impacts and alternatives.

# CLASS VI FAQ

## WHAT'S THE STATUS OF YOUR CLASS VI APPLICATION?

Our application has been marked administratively complete but has not started technical review. We submitted our application in Nov. 2024.

## HOW OFTEN IS THE CLASS VI APPLICATION EDITED?

Once the application goes into technical review, it is continuously iterated based on LDC&E feedback. We don't anticipate LDC&E posting updates until the application reaches the "draft permit" phase, but will post permit updates to our website periodically.

## WILL THE PUBLIC BE INFORMED OF APPLICATION EDITS?

We will regularly update the [permit on our website](#) once it reaches the technical review phase (timing TBD).

## WHY IS SOME INFORMATION REDACTED IN YOUR APPLICATION?

We're committed to transparency. We have minimized redactions to copyrighted or proprietary commercial information. For example, we redacted proprietary seismic data because it reflects significant commercial investment and competitive subsurface insights. Revealing that information could undermine our ability to compete fairly and protect our project investments. Regulators have full access to all data to ensure project safety and integrity.

## WHEN WILL A PUBLIC HEARING BE HELD?

We do not yet have clarity on a potential public hearing date for our Class VI permit application. We will have a better idea once our application enters technical review. In the meantime, we will conduct additional information sessions and events, which will be announced on [Facebook](#). If you have a question in the meantime, please reach out to [info@lapiscarbonsolutions.com](mailto:info@lapiscarbonsolutions.com) – we'd love to hear from you.

## WHO IS INVOLVED WITH YOUR CLASS VI APPLICATION?

While Lapis internal experts completed the majority of our Class VI application, we also employed third-party firms to assist in preparing the application, as is common with Class VI applications. This includes Lonquist Sequestration, a third-party that helped us ensure our application was as comprehensive as possible. We also employ a local environmental firm which has extensive experience in the unique environmental conditions of St. Charles Parish.

## WHY ARE THERE DIFFERENT ENTITY NAMES LISTED ON YOUR APPLICATION?

We changed our name from Lapis Energy to Lapis Carbon Solutions in 2025 to better reflect what we do. The names listed on the application reflect our former name and our registered name in the state of Louisiana, as well as the project name.

 [VIEW OUR CLASS VI APPLICATION](#)



# LAPIS

## RECENT COMMUNITY QUESTIONS

Most community questions are answered in the preceding slides. More specific and recent community questions can be found in the following slides.

# DID YOU OR WILL YOU RUN A DISPERSION MODEL ANALYSIS? WHAT WERE THE RESULTS?

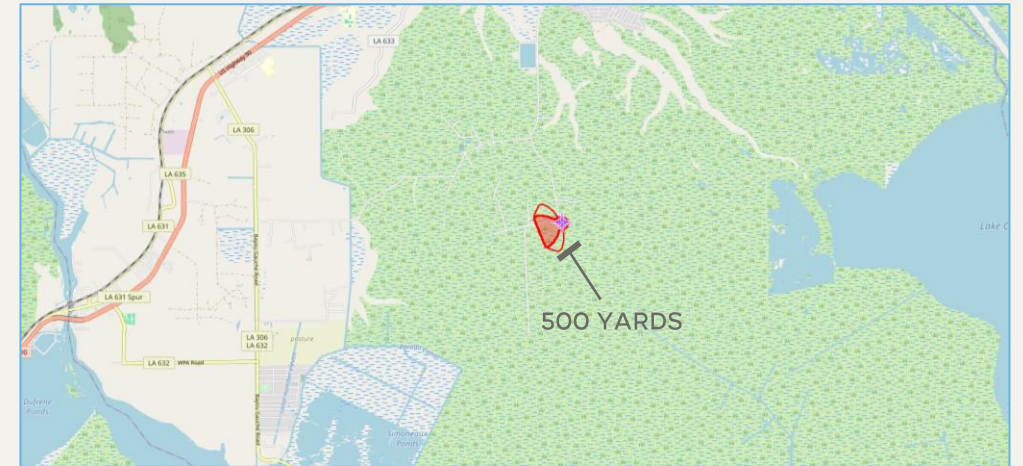
THE ST. CHARLES PARISH EMERGENCY OPERATIONS CENTER RAN A PRELIMINARY MODEL.

The EOC's analysis looked at a couple of different scenarios related to the flowline that would run from the edge of the property to the injection site. In the worst case—a full rupture—the extent of the CO<sub>2</sub> plume is less than 500 yards (a little more than a quarter mile) and stays far away from the nearest building.

WE WILL RUN ANOTHER THIRD-PARTY DISPERSION ANALYSIS.

It's our standard practice to have an independent third-party conduct dispersion analysis long before operations begin. This analysis will include multiple scenarios and we will share results publicly.

WORST CASE SCENARIO: 20 MPH WINDS



WORST CASE SCENARIO: 5 MPH WINDS



## AT WHAT PRESSURE WILL CO<sub>2</sub> BE INJECTED?

We expect approximate injection pressure between 2,000-3,000 psi.

## HOW DOES PROJECT LIBRA IMPACT WETLANDS?

The 14,000-acre private property where Project Libra is located already has infrastructure (roads, well pads) from former oil and gas operations. These can be repurposed, reducing potential wetland impacts. We plan to install a new well pad, a ~0.7-mile road and a ~3.56-mile flowline from the receiving site at the edge of the property to the injection site. We expect any wetland impacts to be minimal.

Underground injection of CO<sub>2</sub> will not impact wetlands, as a thick layer of shale acts as a seal and prevents upward CO<sub>2</sub> migration.

## HOW WILL PROJECT LIBRA IMPACT PROPERTY VALUES?

Project Libra is located on a 14,00-acre private property, miles away from the nearest building, and the plume—the area where CO<sub>2</sub> is projected to travel underground—does not extend outside the bounds of the private property where the project is located.

We don't anticipate Project Libra will impact nearby property values.

## WHAT HAPPENS AFTER THE 50-YEAR POST INJECTION MONITORING AND SITE CARE ENDS?

After the 50-year monitoring and site care period ends, we ensure the site is returned to pre-operational conditions, including ensuring all wells are permanently plugged to LDC&E standards, removing all surface modifications impacting wetlands, and remediating the site as needed.

# WHAT ACTIONS WOULD YOU TAKE IN THE EVENT OF A HURRICANE?

Our detailed emergency response plans cover a range of events, including hurricanes, and are designed to protect people and the environment. In general, hurricanes pose less of a risk to our operations compared to other manufacturing or industrial processing facilities, given we don't plan to have buildings, large machinery, or above-ground infrastructure aside from a receiving facility, wellhead, and pad.

While we don't yet have an emitting partner, we would coordinate efforts to ensure we are fully prepared in the event of a hurricane. Because CO<sub>2</sub> comes from our emitting partner, if they shut down operations due to a hurricane, we also shut down.

Further, we can remotely control operations in the event of a rapidly escalating storm to quickly stop CO<sub>2</sub> flow.

## DO YOU ANTICIPATE FINDING OIL AND GAS?

No, we do not anticipate finding oil and gas. There is a significant amount of subsurface data from nearby former oil and gas operations that clearly shows that oil and gas is found significantly deeper underground than our proposed injection zone. We have plans to drill a stratigraphic test well to get even more site-specific data, which will further demonstrate this point.

## COULD YOU REPURPOSE OLD PIPELINES?

While repurposing pipelines is *possible*, at present we do not have any plans to repurpose or convert any existing pipeline into a CO<sub>2</sub> pipeline.

The only pipeline currently being permitted is a ~3.56-mile flowline located entirely within the private property project site that will run from the injection site to a tie-in point—and this pipeline is new. We expect to have more pipeline details once we secure an emitting partner but still expect to use only new pipelines.

# WHERE ARE NEARBY FORMER OIL AND GAS WELLS?

There are ~10 former oil and gas wells within the “Area of Review,” which consists of the plume (the area where CO<sub>2</sub> is projected to move once underground) and the critical pressure front (the area where underground pressure is projected to change as a result of injection). None of these wells are actively producing.

We will re-plug and abandon wells within the plume in line with Class VI standards using CO<sub>2</sub>-resistant cement and as per the schedule on the right. Additional details are included in our Class VI application, starting on page 351.

WELL NAME	STATUS	PLANNED CORRECTIVE DATE
Lydia B. Simoneaux ET AL	Plugged	Within 10 years of injection initiation
Lydia B. Simoneaux ET AL	Plugged	Within 10 years of injection initiation
St. Charles LD & Trust Co.	Plugged	Within 10 years of injection initiation
Simoneaux Family Land LLC	Plugged	Within 10 years of injection initiation
Simoneaux Family Land LLC	Plugged	Within 10 years of injection initiation
Simoneaux Family Land LLC	Plugged	Within 10 years of injection initiation
SJ Simoneaux	Plugged	Within 50 years post-injection
Simoneaux	Plugged	Within 50 years post-injection
L B Simoneaux Et AL	Plugged	Within 50 years post-injection
L B Simoneaux	Plugged	Within 50 years post-injection

# IS LAPIS INJECTING ANYTHING OTHER THAN CO<sub>2</sub>?

**WE MUST INJECT A STREAM THAT IS MADE UP OF 97% OR MORE CO<sub>2</sub> PER OUR CLASS VI APPLICATION.**

Class VI permits require companies to detail the makeup of their “injectate” – the technical term for the CO<sub>2</sub> that is injected underground for permanent storage. Our injectate must always be 97% or more CO<sub>2</sub>, with the other 3% representing trace amounts of allowable impurities. Our injectate quality specifications are provided on [page 676 of our Class VI application](#).

**INJECTATE IS CONSTANTLY TESTED TO ENSURE WE ARE IN LINE WITH PERMITTED LIMITS.**

Our CO<sub>2</sub> stream is tested before injection to ensure it meets permitted standards. If at any point the CO<sub>2</sub> stream is out of spec, injection automatically stops.

# WHAT HAPPENED IN LAKE NYOS, CAMEROON?

Lake Nyos was a limnic eruption, a rare occurrence caused by conditions unique to areas with volcanic activity.

## WHAT HAPPENED:

In 1986, Lake Nyos—a deep volcanic lake in Cameroon—exploded in what scientists believe was a limnic eruption.

The limnic eruption was caused by the build-up of natural carbon dioxide from magma at the bottom of the lake. The CO<sub>2</sub> eventually reached too high a concentration, and a still-unknown catalyst caused the CO<sub>2</sub> to rise out of the lake and down into the nearby valley. (Source: [NASA](#))

## CONDITIONS NEEDED FOR LIMNIC REACTIONS:

A very deep lake, typically in a volcanic area, where CO<sub>2</sub> released by magma accumulates at the bottom of the lake.

Warm to hot weather year-round with very little variation, which in turn means water stays stagnant and does not release gas.

A sudden disturbance, whether a landslide, heavy rainstorm, earthquake, volcanic eruption, or rapid temperature change.

## COULD SOMETHING SIMILAR HAPPEN IN ST. CHARLES PARISH?

No. First, we're injecting underground, where CO<sub>2</sub> has space to move and pressure dissipates over time. Second, Libra lacks the conditions (volcanic activity, little temperature variation, lake) that would lead to a limnic eruption. Third, we will have monitoring systems in place that enable us to see pressure build up and dissipation, as well as movement, and take action if needed.

# WHAT HAPPENED IN SULPHUR, LOUISIANA?

## WHAT HAPPENED:

In 2024, an estimated 2,548 barrels of CO<sub>2</sub> leaked from a pipeline at a pump station in Sulphur, Louisiana. The leak triggered a shelter-in-place order for those within a quarter mile of the leak until it was repaired. No injuries or serious illnesses were reported and the cause of the leak has yet to be publicly announced.

## WHAT CAN LAPIS DO TO PREVENT SOMETHING SIMILAR FROM HAPPENING?

We will have 24/7, real-time monitoring alerting us to pressure changes in the pipeline. We also routinely and rigorously inspect our pipeline to spot potential issues before they occur.

## HOW WOULD LAPIS RESPOND?

In a similar situation, we would detect a pressure loss and be able to take action remotely. We would also activate our emergency response plan, alerting local emergency responders and community members. Once the immediate threat was passed, we would repair the pipeline and conduct a thorough analysis to determine the root cause. We would then share these findings publicly.

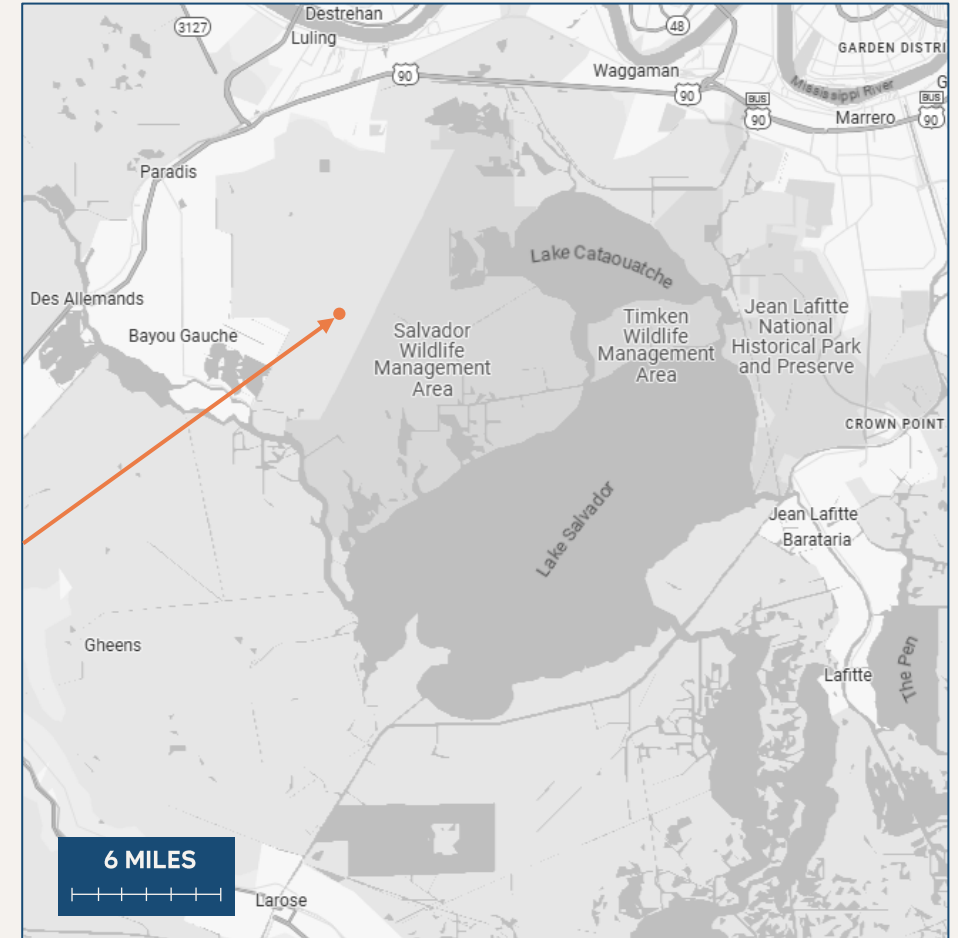
# IS LAPIS STORING CO<sub>2</sub> UNDER LAKE SALVADOR?

## NO, PROJECT LIBRA IS ABOUT SIX MILES FROM LAKE SALVADOR.

The project is located completely on private property and designed to maximize use of existing infrastructure and minimize potential disruption.

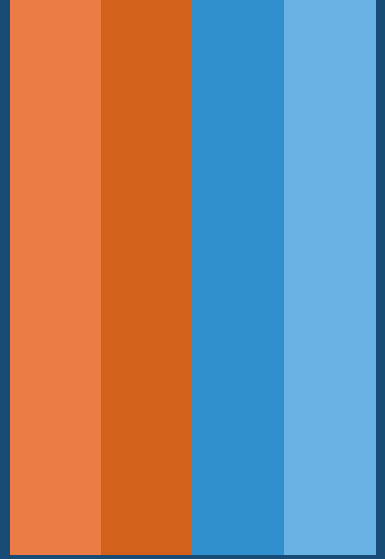
The plume—the distance CO<sub>2</sub> will travel once injected underground—is also not under Lake Salvador.

The U.S. Army Corps of Engineers (USACE) is responsible for waters of the U.S., including wetlands. Our project is located in wetlands that are considered by the USACE to be tied to the Lake Salvador System, which is why the USACE stated that our project will “affect the waters of Lake Salvador,” meaning it is in scope of USACE review. In terms of its impact, the project is located six miles away and outside of the Salvador Wildlife Management Area and is not projected to have any impacts to Lake Salvador or the Lake Salvador Wildlife Management Area.



# NOVEMBER UPDATES

- Page 5: Added bullet about the volume of CO<sub>2</sub> stored using CCS globally; added bullet about CCS monitoring; removed bullet about the volume of CO<sub>2</sub> injected for enhanced oil recovery.
- Page 19: Updated images and image captions.
- Page 28: Added slide on our dispersion analysis in response to a community question.
- Page 27: Added slide answering recently asked community questions.
- Throughout the deck, we changed “LDENR” to “LDC&E.”



# LAPIS

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