



Magnolia Sequestration Project (FE0032339) CarbonSAFE Phase III

Magnolia Sequestration Hub, LLC
Principal Investigator: Kelly Watson

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Project Objectives

The Magnolia Sequestration Project seeks to meet the regional needs to securely store CO₂ captured from point source emitters and carbon removal facilities along the Louisiana Gulf Coast.

The project objective is to demonstrate technical and commercial feasibility of a large-scale CO₂ sequestration hub for permanent geologic storage of at least 60 million metric tons (Mt) of CO₂ over a period of 15 years.

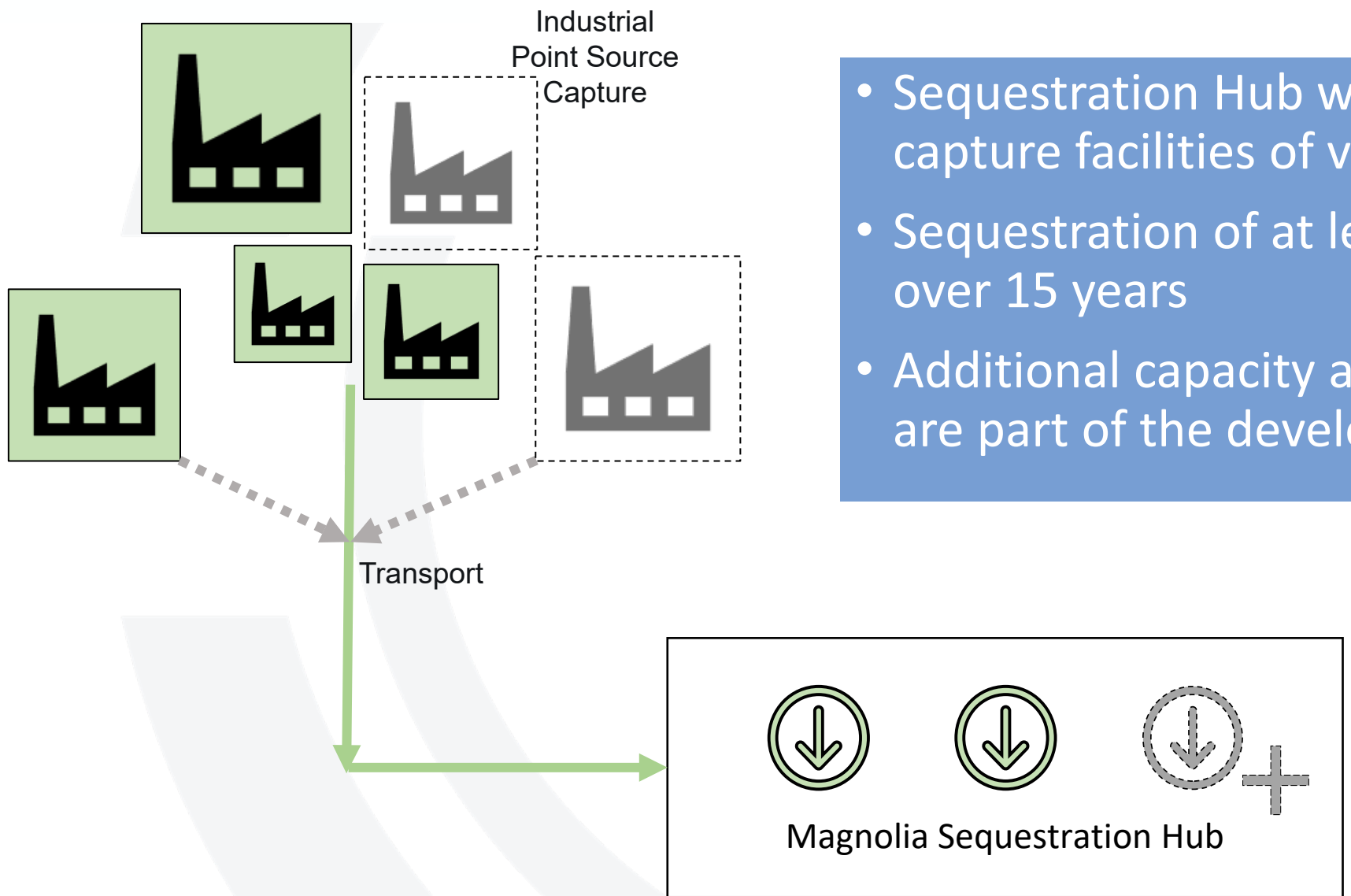
This project is in the Pre-Award phase. All Objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.

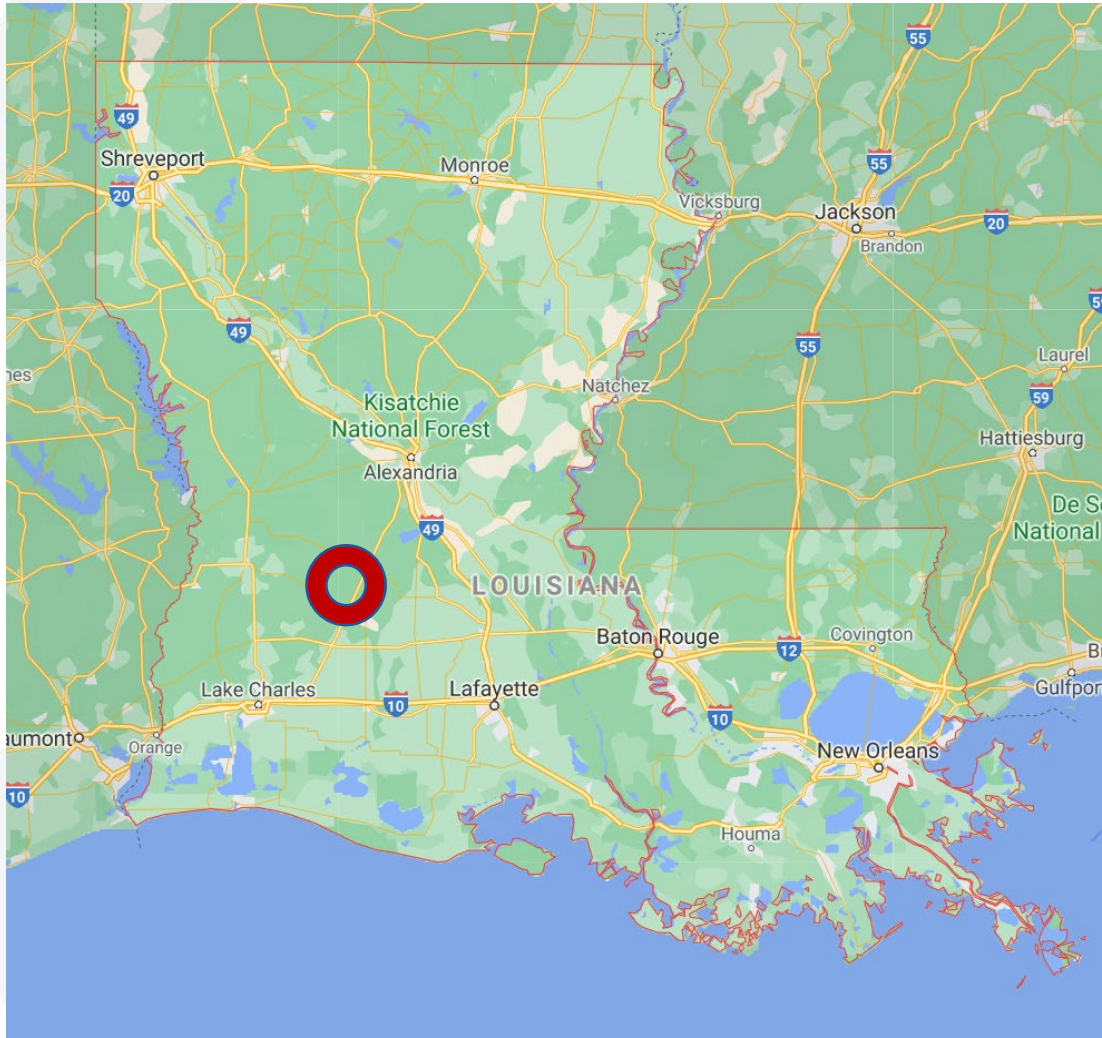
Key Project Participants



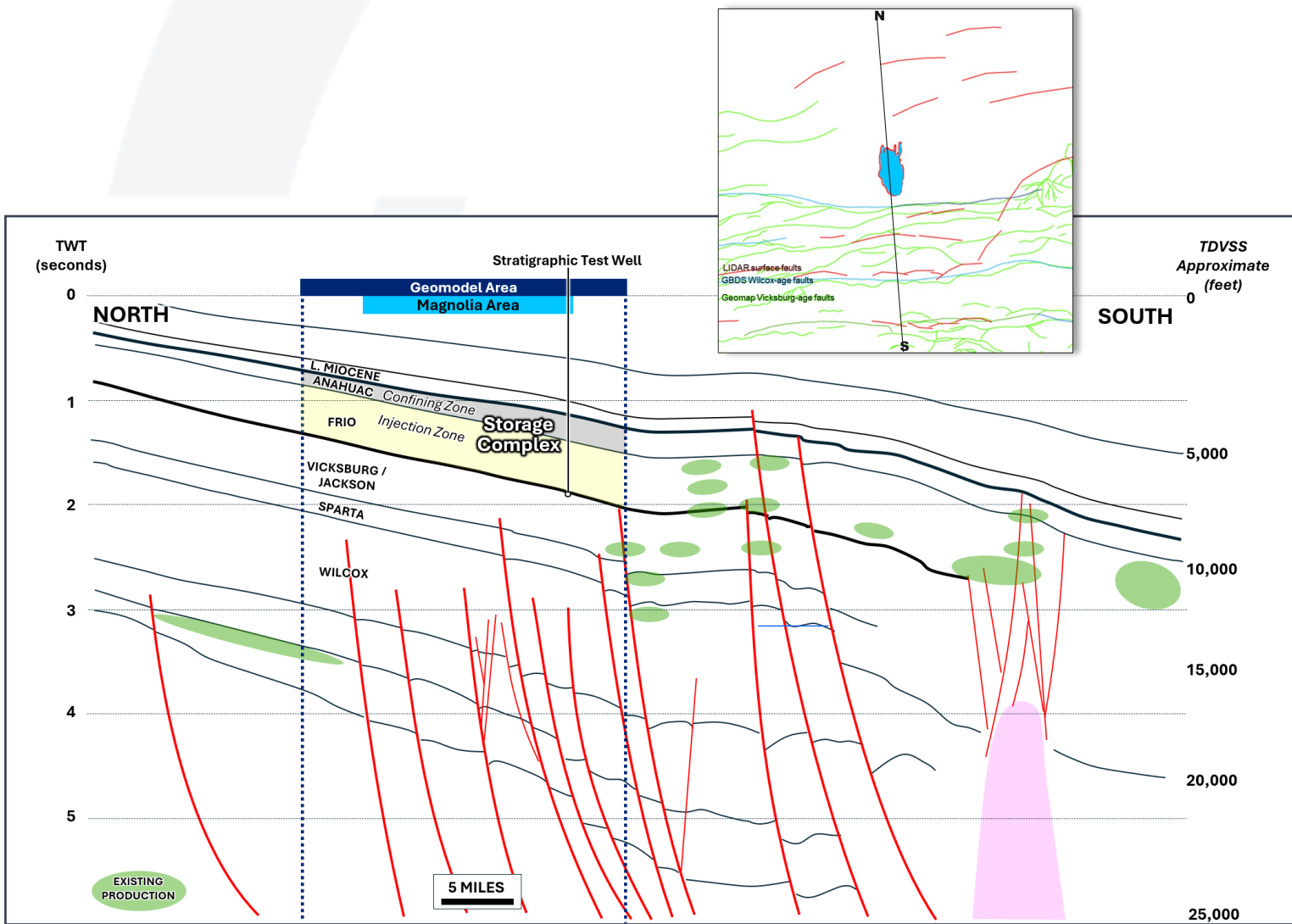
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- Sequestration Hub will serve multiple capture facilities of varying sizes
- Sequestration of at least 60 million Mt over 15 years
- Additional capacity and future emitters are part of the development plan



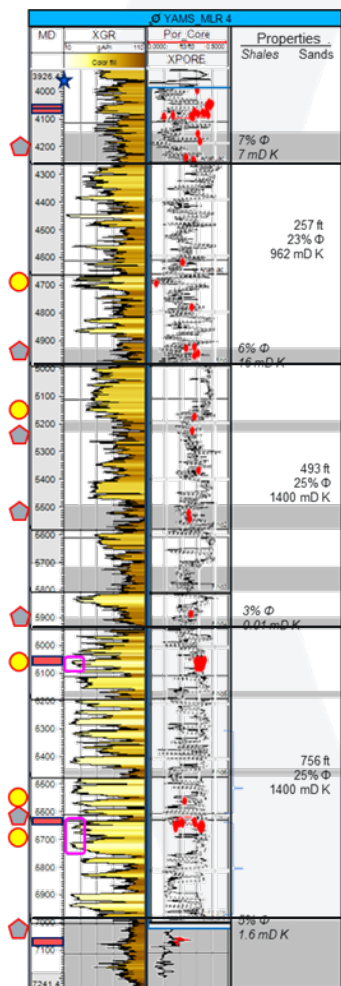


- South-Central Louisiana offers prime location for gathering CO₂ from multiple capture facilities
- Project area is primarily a managed forest, offering limited artificial penetrations, an existing road system, and few total landowners



- Storage complex defined as the Frio Injection Zone, Anahuac Dissipation Zone, and Lower Miocene Confining Zone
- Subsurface location is updip of Frio growth faulting in stable shelf environment.
- Thick fluvial-deltaic sandstones with excellent reservoir quality comprise the injection zone.
- No known active oil & gas operations within the leased acreage

Stratigraphic Test Well



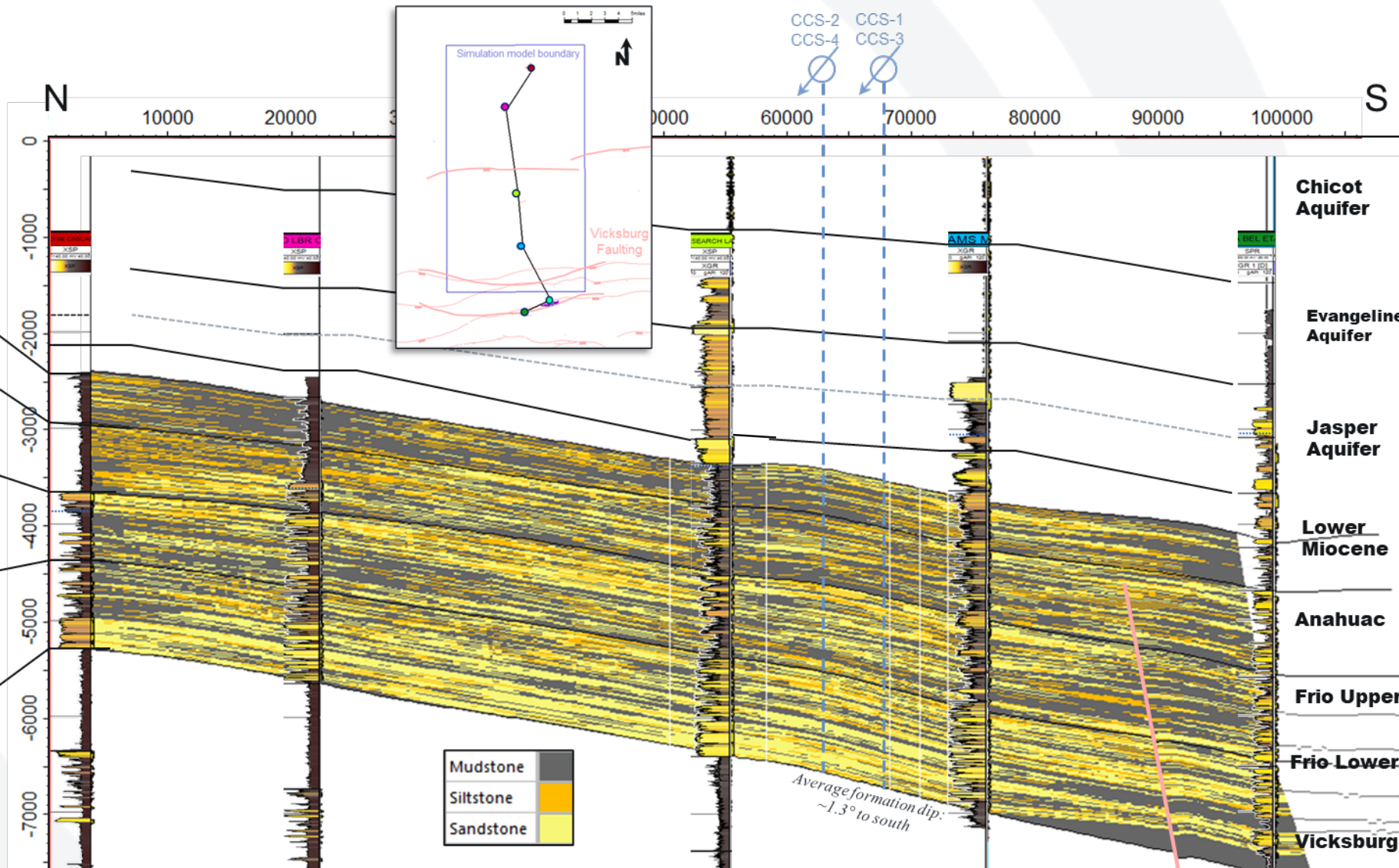
Lower Miocene

Anahuac

Frio Upper

Frio Lower

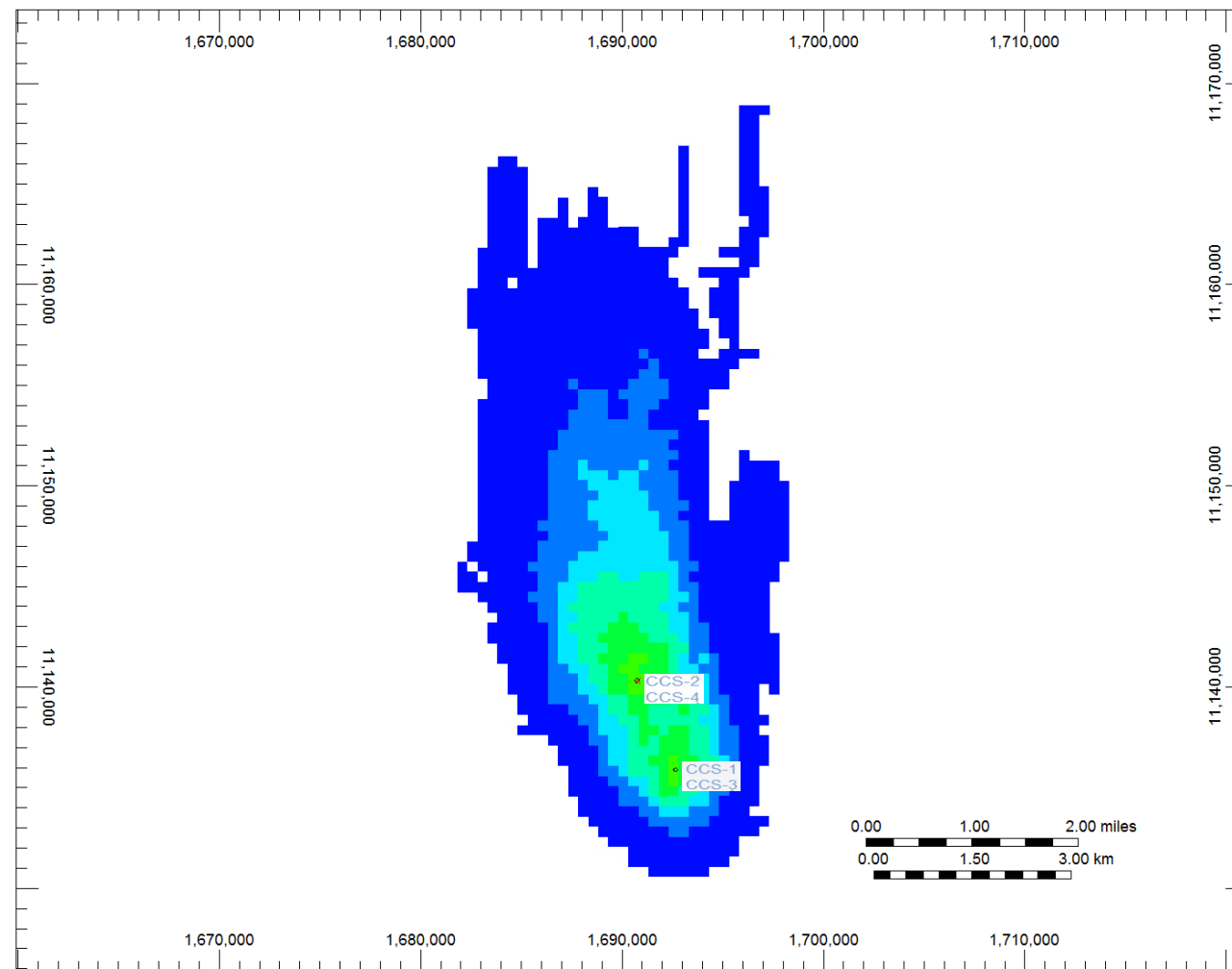
Vicksburg



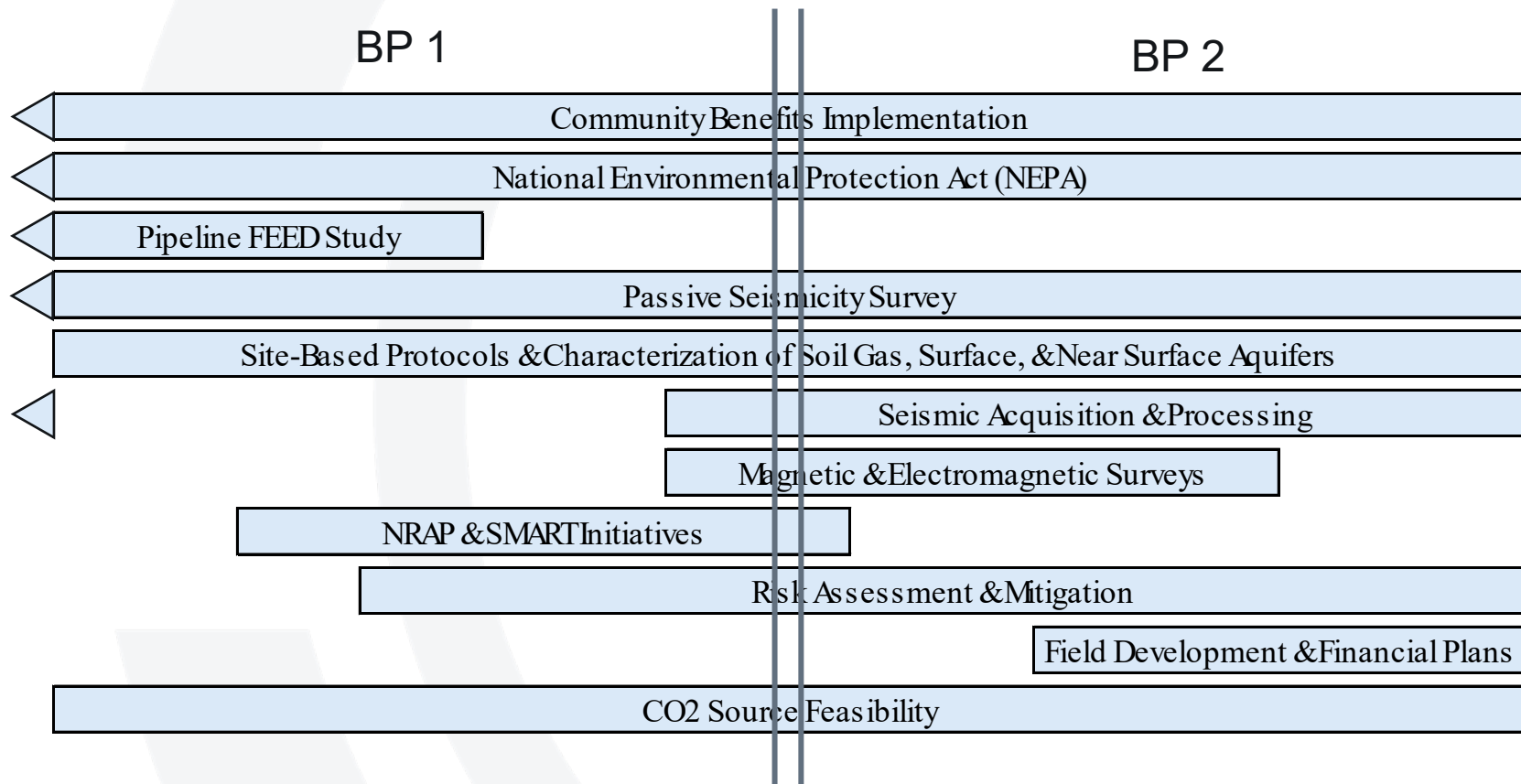
- Whole Core
- Step Rate Test perforations
- Porosity measurement from whole or RSW core
- Formation Integrity Test
- Confining lithology with core data
- Injection target with core data

All objectives, Locations, Participants, Approach, Scope, Community Benefits, etc. are proposed.

- Updated geomodel and reservoir model based on data from stratigraphic test well
- Completed updated modeling for injection of 120 million metric tons over 15 years in four Frio injection wells
- Progressing two submitted UIC Class VI applications based on modeling results
- Drafting and documentation phase for two additional UIC Class VI applications based on modeling results
- Storage volumes to be defined and documented in the Storage Field Development Plan



- 🌿 Complete additional characterization in support of field development
- 🌿 Acquire baseline data for monitoring programs
- 🌿 Conduct a Pipeline FEED Study
- 🌿 Complete field development, business, and financial plans
- 🌿 Complete the NEPA process for applicable components
- 🌿 Complete and implement the Community Benefits Outcomes and Objectives



MAJOR MILESTONES / DELIVERABLES

Budget Period 1 (12 months)

- Environmental Information Volume
- Pipeline FEED Study
- GeoSurvey Permitting
- Passive Seismic Monitoring Initiation

Budget Period 2 (11 months)

- Complete Findings Reports for site characterization efforts
- Independent Reviews (NRAP, SMART, Risk)
- Development Plans and Business Proposal

- Environmental Information Volume (EIV)
- Seismic (and other geosurvey) Permitting
- Passive Seismic Array Purchase and Layout Planning
- Pipeline FEED Study

The project intends to implement a Community Benefits Outcomes and Objectives in accordance with the Diversity, Equity, Inclusion, and Accessibility Plan, the Justice40 Plan, the Community Engagement Plan, and Quality Jobs Plan.

Activities anticipated to be included in CBOO:

- Create a pipeline for students at HBCUs to enter the carbon management industry
- Increase collaboration, inclusion, and contracting with underrepresented groups
- Create a certification program for carbon capture and storage skills
- Expand relationships and enhance programs at local community colleges, HBCUs, and MSIs
- Create an outreach program to nearby high schools
- Host public forums, panel discussions, and townhall meetings to engage with the community



- 1PointFive committed money to the Food Bank of Central Louisiana for the purchase of a new cargo van to assist with delivery of backpack program meals.
- Committed money towards supporting the Food Bank of Central Louisiana for the Backpack Program in 2023.

- 1PointFive sponsored and attended the Allen Parish Fair in Oberlin, Louisiana, in October 2023 and has plans to sponsor and attend again in November 2024. Our Community Engagement Team met and spoke with over 250 community members in the community to discuss the Magnolia project.



- 1PointFive partnered with Barbara Bush Houston Literacy Foundation to provide 3,324 books to the My Home Library program for Oakdale Elementary in Allen Parish.
- In May 2024, a contribution was made to Allen Parish in support of Phase 1 of the Turner Road Project, a high priority infrastructure project in the parish.
- For consistent information sharing, a stakeholder website has been created to provide project updates to the community.
- Our Community Engagement Team is consistently in communication with local elected officials to maintain collaboration and receive community feedback.



- Continue engagements with the community
- Follow Class VI approval processes with the Louisiana DENR
- Continue contracting efforts for site characterization activities
- Finalize EIV preparation
- Continue work planning with subrecipients



Thank you.

