

Matagorda Bay Mitigation Trust – Progress Report

Project Name: A research and monitoring program to mitigate the impact of harmful algal blooms on the Matagorda Bay and San Antonio Bay ecosystems

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Contract No.: 0014

Reporting Period: 12/1/2024-2/28/2025

Task 1: Real-time, high frequency detection of HABs and other phytoplankton.

Status of the task during this reporting period: not started in progress completed

- Describe major accomplishments for this reporting period.
 - Field deployment of Imaging FlowCytobot from 2/6/2025-2/19/2025.
 - Detection of low and elevated numbers of *Dinophysis* cells from 2/10/2025-2/14/2025; reported to TPWD and DSHS every few days during the event
 - Draft final report completed
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Communication to state agencies upon HAB detection
 - Draft final report completed
- Were there any problems or obstacles encountered during this reporting period (e.g., delays, remedial action taken, schedule revision). Yes No If yes, please explain:
- Briefly describe plans for the next reporting period.
 - Complete final report
 - Continued Imaging FlowCytobot deployment

Task 2: Water sampling program for HABs and relevant environmental conditions.

Status of the task during this reporting period: not started in progress completed

- Describe major accomplishments for this reporting period.
 - Draft final report completed
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Draft final report completed
- Were there any problems or obstacles encountered during this reporting period (e.g., delays, remedial action taken, schedule revision). Yes No If yes, please explain:
- Briefly describe plans for the next reporting period.
 - Complete final report

Task 3: Stakeholder meetings.

Status of the task during this reporting period: not started in progress completed

- Describe major accomplishments for this reporting period.
 - Sent final report for review to Matagorda Bay Foundation and Lavaca Bay Foundation
 - Sent link to survey to both foundations for stakeholder input on future harmful algal bloom monitoring needs
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Recommendations for future HAB monitoring and mitigation efforts included in draft final report
- Were there any problems or obstacles encountered during this reporting period (e.g., delays, remedial action taken, schedule revision). Yes No If yes, please explain:
- Briefly describe plans for the next reporting period.
 - Complete final report after addressing any stakeholder feedback