

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: 12/1/23-2/29/24

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.
 - Continued in-house troubleshooting of various minor malfunctions.
 - Deployment of IFCB at Port O'Connor 12/20/2023-01/25/2024. Instrument continuously collected water samples with a few intermittent shutdowns.
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Deployment of IFCB at Port O'Connor site 12/20/2023-01/25/2024.
- 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:
 - Cellular signal from the location continues to present challenges – working with manufacturer to program a reduced sampling protocol to lower data transmission size.
 - Intermittent instrument shut down while deployed at TPWD facility that we continue to troubleshoot.
 - Leaking pump required purchase of new replacement.
- Briefly describe plans for the next reporting period.
 - Redeployment of IFCB with new pump and new operating protocol.

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.
 - Continued analysis of samples collected during previous periods.
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Nothing to 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 analysis of previously collected nutrient samples.

- Continue to synthesize water quality data collected during the two years of sampling.

Task 3: Stakeholder meetings.

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

- Describe major accomplishments for this reporting period.
 - Nothing to report.
- List the deliverable(s)/milestone(s) completed during this reporting period.
 - Nothing to 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.
 - Meet with stakeholders as opportunities arise.