

April 28, 2023

Steven J. Raabe, P.E.  
Trustee, Matagorda Bay Mitigation Trust  
PO Box 1269  
Poth, TX 78147-1269

RE: Quarterly Progress Report for the period 2/1/2023 – 4/30/2023.

Dear Mr. Raabe,

Please find enclosed the following deliverable: Quarterly Progress Report for the project  
“Sediment Quality Assessment Survey of Lavaca and Matagorda Bays” Contract No. 019.

Sincerely,



Paul A. Montagna, Ph.D.  
Endowed Chair, Hydroecology, Harte Research Institute  
Professor, Physical and Environmental Science Department  
Regents Professor, Texas A&M University System  
Texas A&M University-Corpus Christi  
6300 Ocean Drive, Unit 5869  
Corpus Christi, TX 78412  
Phone: 361-825-2040  
Email: [Paul.Montagna@tamucc.edu](mailto:Paul.Montagna@tamucc.edu)

**I. TITLE, CONTRACT INFORMATION, AND CONTACTS:**

**Sediment Quality Assessment Survey of Lavaca and Matagorda Bays**

**Contract 019**

Performing Party Representative:

Dr. Paul A. Montagna  
Harte Research Institute for Gulf of Mexico Studies  
Texas A&M University-Corpus Christi  
6300 Ocean Drive, Unit 5869  
Corpus Christi, TX 78412-5869  
Telephone: 361-825-2040  
Email: [Paul.Montagna@tamucc.edu](mailto:Paul.Montagna@tamucc.edu)

Contract Period: 01 February 2022 – 31 January 2024

Reporting Period: 01 February 2023 to 30 April 2023  
Date of submission: 30 April 2023

SUBMITTED TO:

Steven J. Raabe, P.E.  
Trustee, Matagorda Bay Mitigation Trust  
PO Box 1269  
Poth, TX 78147-1269  
Via Email to: [Trustee@mbmTrust.com](mailto:Trustee@mbmTrust.com)

## **II. DESCRIPTION OF TASKS:**

There are two tasks for this project:

Task 1): Sediment Quality Triad (SQT) analysis. 24 stations will be sampled and analyzed for sediment chemistry, toxicity, and biodiversity.

Task 2): Data Management, Reporting, and Outreach Engagement. Quarterly Progress Reports: within 10 days of the end of each annual quarter: Q1 = May 10, Q2 = August 10, Q3 = November 10, and Q4 = February 10. The Final Report = January 31, 2024. Public engagement.

## **III. STATUS OF TASKS:**

Task 1): Primary task this quarter was completing the chemical analyses and toxicity analyses by the subcontractors. All sediment chemistry, toxicology, and diversity samples have been analyzed. Task complete.

Task 2): In progress. Fourth quarterly report submitted.

Statistical analyses complete.

Presentations:

Montagna, P.A. Long-term change in Lavaca and Matagorda Bays related to freshwater inflow change. The Future State of Water in the Matagorda Bay System, Palacios, TX, 24 March 2023, 58 participants.

Caillier, J. Sediment Quality Assessment Survey of Lavaca and Matagorda Bays. The Future State of Water in the Matagorda Bay System, Palacios, TX, 24 March 2023, 58 participants.

Caillier, Jasmine. Sediment quality assessment of Lavaca and Matagorda Bays. 51<sup>st</sup> Benthic Ecology Meeting, Miami, FL, April 26 – 29, 2023.

Montagna, Paul. Long-term effects of freshwater inflow on benthos at regional scales. 51<sup>st</sup> Benthic Ecology Meeting, Miami, FL, April 26 – 29, 2023.

## **IV. PLAN FOR NEXT QUARTER:**

Task 1): Complete.

Task 2): Submit a quarterly reporting. Complete writing the final report, and submit a journal article.

## **V. PROBLEMS ENCOUNTERED/CORRECTIVE ACTIONS:**

None.

**VI. ADHERENCE TO PROJECT TIMELINE:**

- A. Explanation of delays (if any): No delays.
- B. Anticipated delays: None expected.