

Matagorda Bay Mitigation Trust Quarterly Progress Report

Restoring oyster reef habitat in Tres Palacios Bay and
developing best practices for future restoration
Award # 020

Submitted by:

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Reporting Period: March 1 to June 30, 2022

Date of Submission: June 17, 2022

Submitted to:

Matagorda Bay Mitigation Trust



MATAGORDA BAY MITIGATION TRUST

II. Description of tasks completed:

- A project team kickoff meeting was held on March 11, 2022, to review project tasks and timelines, assign roles and responsibilities, and identify action items.
- Data on oysters and surficial sediment characteristics, collected during pre-award diver surveys in Tres Palacios Bay, were shared with the project team.
- Meetings were held with permitting agencies and area stakeholders (Matagorda Bay Foundation) prior to final site selection.
- Final reef site was chosen near Oliver's Point and the Coon Islands in Tres Palacios Bay (see Exhibits A-C)
- Reef design was finalized according to the site chosen (see Exhibit D)
- Pre-Construction Notification Application for Nationwide Permit 27 was prepared, finalized, and submitted to the Army Corps of Engineers (June 15, 2022)
- Surface Lease application was prepared, finalized, and submitted to the Texas General Land Office (June 15, 2022)

III. Status of tasks in progress:

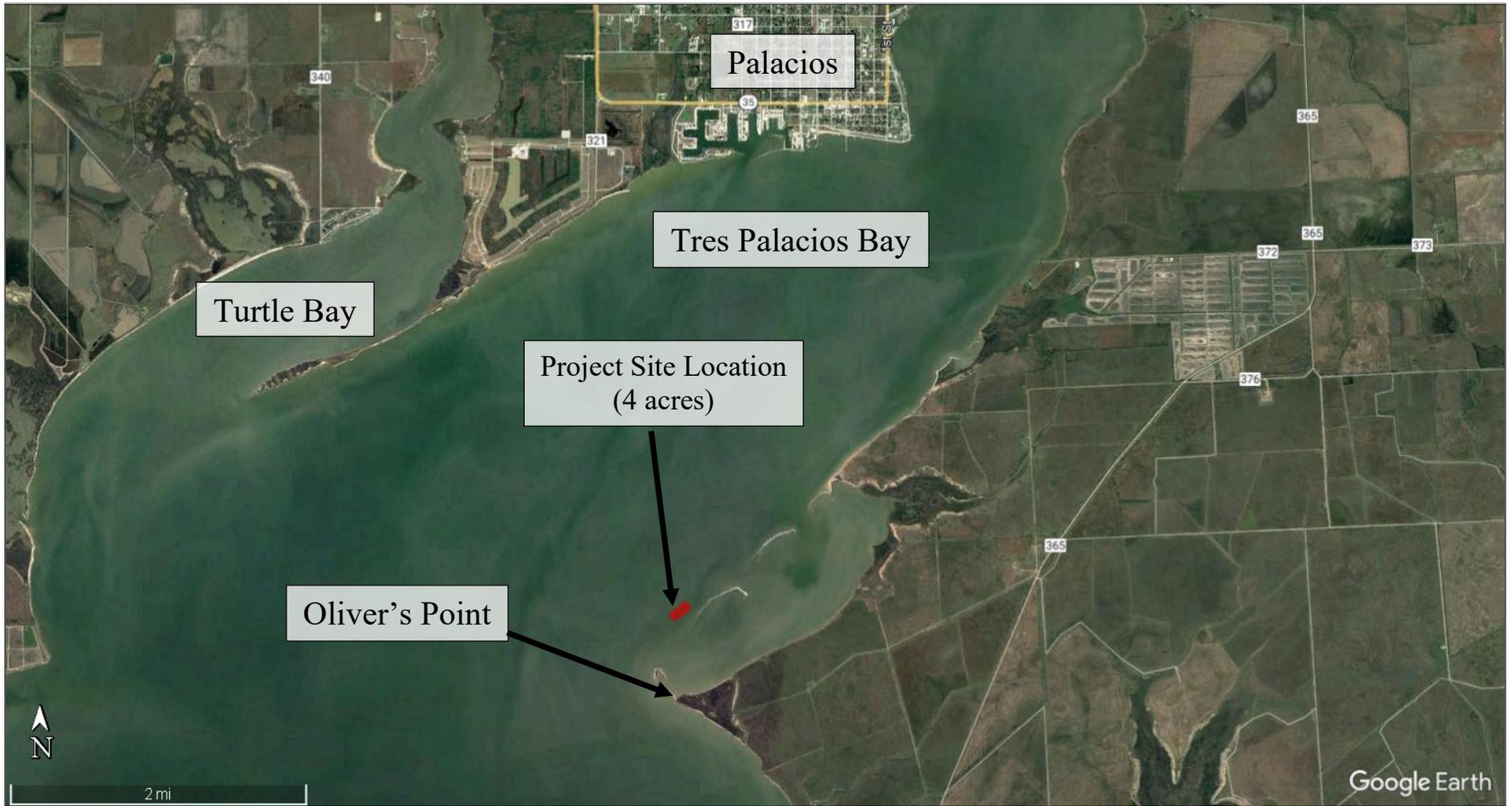
- Preparing applications for Texas Parks and Wildlife Stocking Permit and Scientific Permit
- Collect broodstock and perform experimental spawns in mobile oyster hatchery
- Experiment with calcein staining of larvae
- Permitting – applications submitted to agencies, waiting on feedback
- Sourcing of oyster shell for reef construction

IV. Plan for next quarter:

- Finalize and submit applications for Texas Parks and Wildlife Stocking Permit and Scientific Permit
- Continue working with Army Corps and Texas General Land Office to obtain final permit and surface lease
- Continue collection of broodstock, experimental spawning, and calcein staining
- Identify source of oyster shell for reef construction

V. Adherence to Project Timeline:

- We have adhered to the project timeline. No delays have been encountered.



<h2>Exhibit A: Vicinity Map</h2>	Dr. Victoria Prunte	Project Name: Oyster Reef Restoration in Tres Palacios Bay
	Palacios Marine Agricultural Research, Inc.	Date: June 6, 2022 Prepared By: Victoria Prunte
	555 N Carancahua St, Suite 240 Corpus Christi, TX 78401	Project Location: Matagorda County Waterbody: Tres Palacios Bay Tract Number: 86

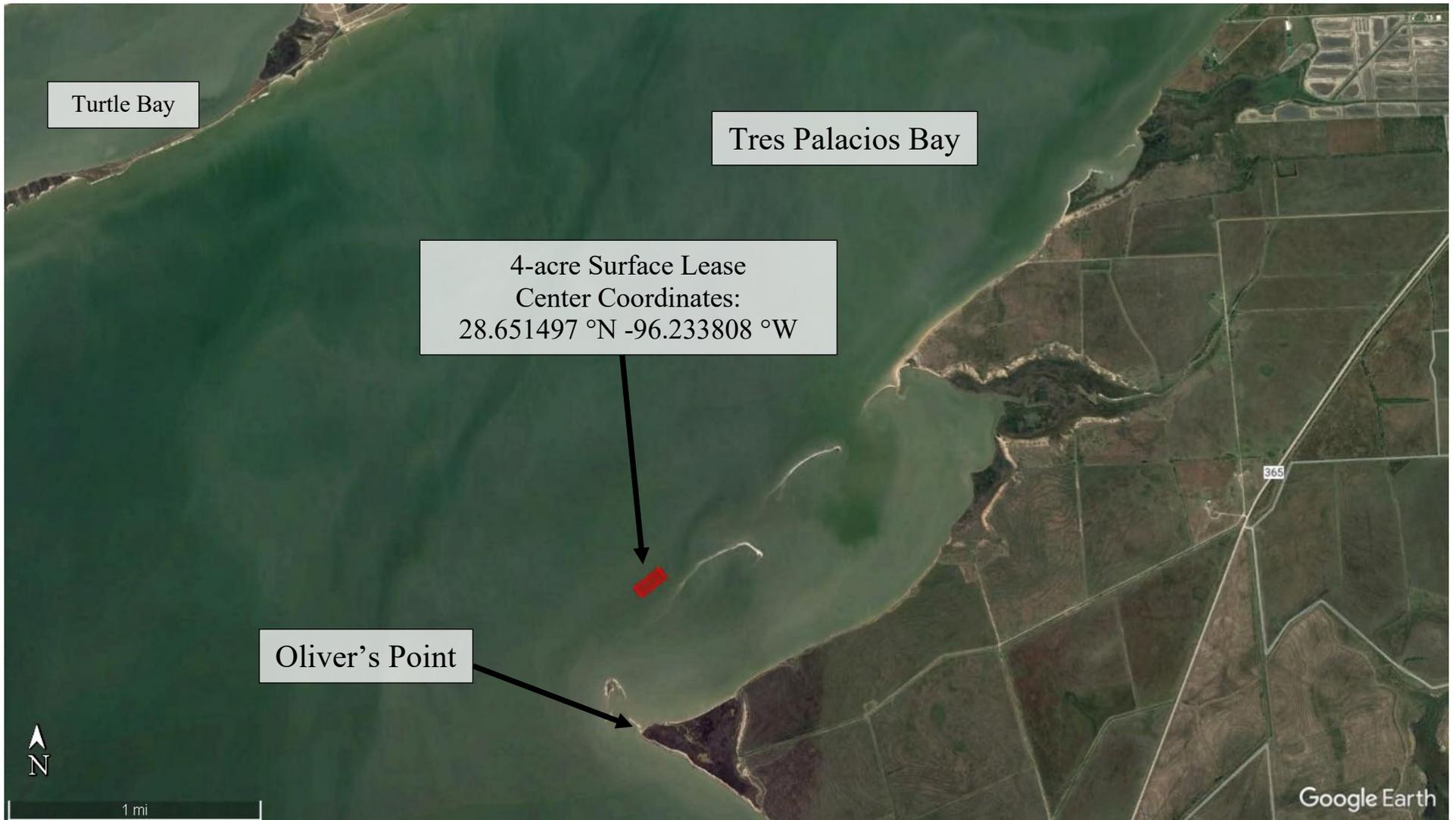


Exhibit B: Project Site Map	Dr. Victoria Prunte	Project Name: Oyster Reef Restoration in Tres Palacios Bay
	Palacios Marine Agricultural Research, Inc.	Date: June 6, 2022 Prepared By: Victoria Prunte
	555 N Carancahua St, Suite 240 Corpus Christi, TX 78401	Project Location: Matagorda County Waterbody: Tres Palacios Bay Tract Number: 86

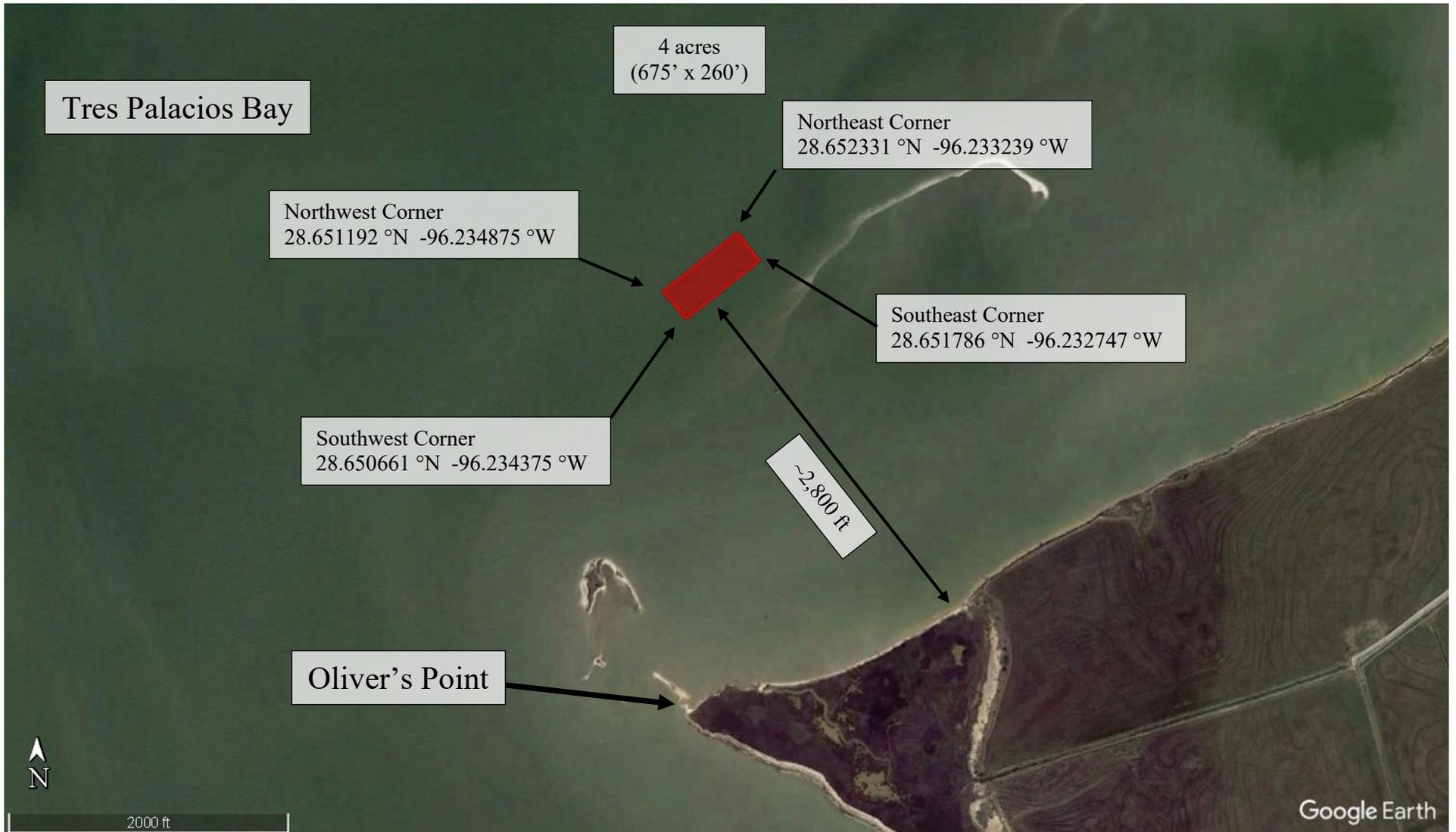
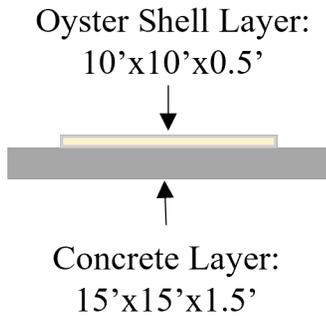


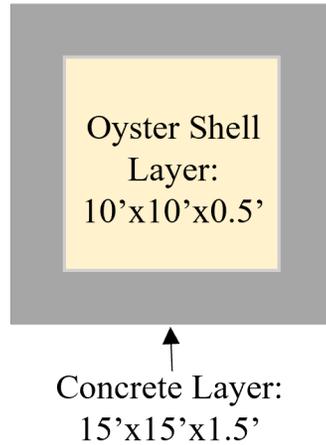
Exhibit C: Detailed Project Plan	Dr. Victoria Prunte	Project Name: Oyster Reef Restoration in Tres Palacios Bay
	Palacios Marine Agricultural Research, Inc.	Date: June 6, 2022 Prepared By: Victoria Prunte
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Experimental Mound Design

Cross Sectional View

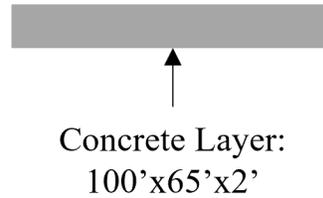


Top-Down View

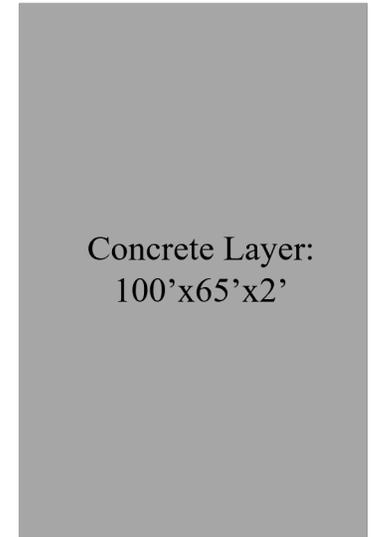


Reef Mound Design

Cross Sectional View



Top-Down View



NOTE: If money allows/substrate availability allows, we will put an oyster shell topper on the reef mounds, similar to the experimental mounds

Exhibit D (Part 1): Experimental and Reef Mound Design, Cross Sectional and Top-Down Views	Dr. Victoria Prunte	Project Name: Oyster Reef Restoration in Tres Palacios Bay
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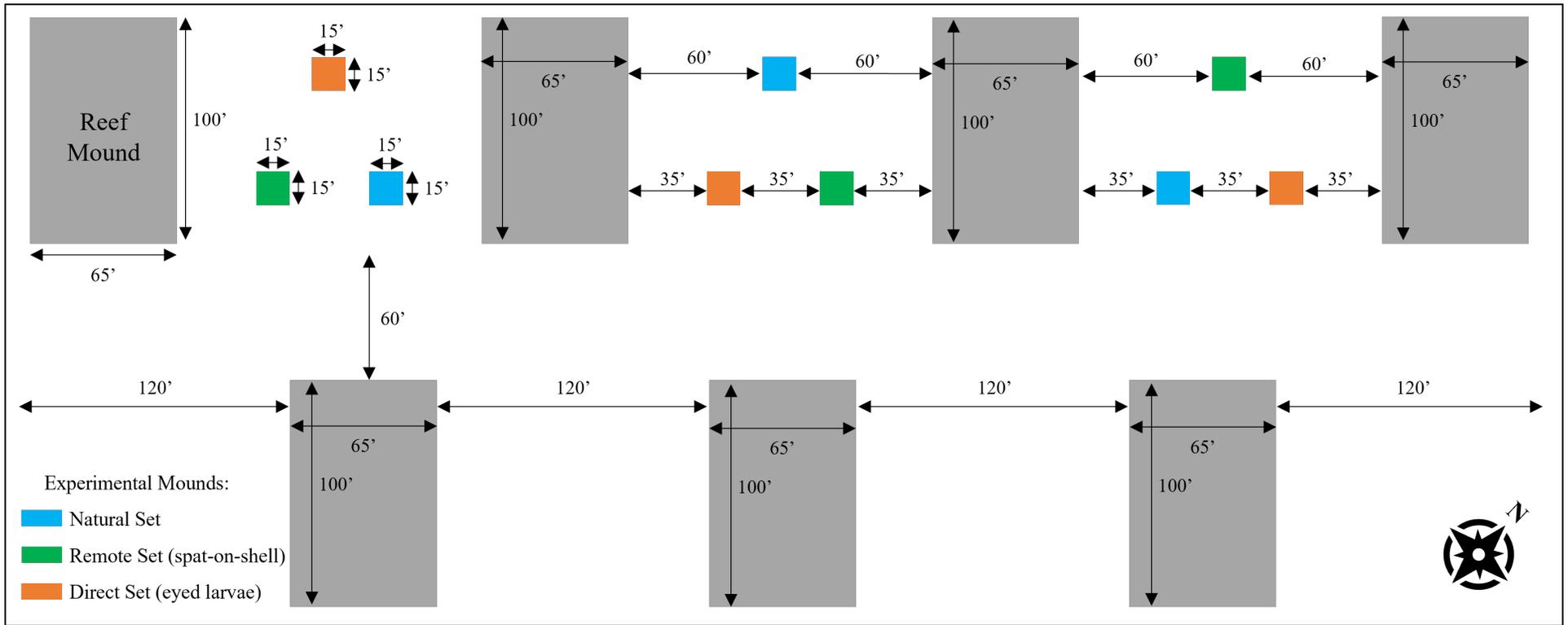


Exhibit D (Part 2):
Reef Layout, Top-Down View

Dr. Victoria Prunte

Palacios Marine Agricultural Research, Inc.

555 N Carancahua St, Suite 240
 Corpus Christi, TX 78401

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Oyster Reef Restoration in Tres Palacios Bay

Date: June 6, 2022 **Prepared By:** Victoria Prunte

Project Location: Matagorda County
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