



**DEPARTMENT OF THE ARMY**  
U.S. ARMY CORPS OF ENGINEERS, GALVESTON DISTRICT  
5151 FLYNN PARKWAY, SUITE 306  
CORPUS CHRISTI, TEXAS 78411

March 26, 2024

Corpus Christi Regulatory Field Office

SUBJECT: Permit Application – SWG-2022-00294

Palacios Marine Agricultural Research, Inc.  
Attn: Dr. Joe M. Fox  
555 North Carancahua Street, Suite 240  
Corpus Christi, Texas 78401-0811

Dear Dr. Fox:

The above numbered permit has been approved and a signed copy is enclosed for your retention.

Also enclosed is a copy of "Notice to Permittee" which provides important information for permit administration. You should notify the District Engineer, in writing, upon completion of the authorized work. To assist us in improving our service to you, please complete the survey found at: <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Sincerely,

A handwritten signature in blue ink that reads "Kristie A. Wood".

Kristie A. Wood  
Supervisor  
Corpus Christi Regulatory Field Office

cc w/Encl.

EPA [Kaspar.paul@epa.gov](mailto:Kaspar.paul@epa.gov)

Texas Commission on Environmental Quality (TCEQ) [401Certs@tceq.texas.gov](mailto:401Certs@tceq.texas.gov)

United States Coast Guard (USCG) [d8dpball@uscg.mil](mailto:d8dpball@uscg.mil)

National Ocean Service (NOAA) [ocs.ndb@noaa.gov](mailto:ocs.ndb@noaa.gov)

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DEPARTMENT OF THE ARMY PERMIT

Permittee Palacios Marine Agricultural Research, Inc.

Permit No. SWG-2022-00294

Issuing Office Galveston District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: To construct a shallow breakwater approximately 300 feet seaward from the northern Ed Rachal Foundation property boundary (3700 Ocean Drive) southward paralleling the curvature of the Corpus Christi Bay shoreline and terminating at the southern end of Doddridge Park. The purpose of the project is to provide shoreline protection from erosion due to wave action. The breakwater will be constructed of fourteen separate 9-foot-wide by 100-foot-long sections of concrete rubble mounds set at 90-degree angles to one another. Each mound will consist of approximately 233 cubic yards of material. One section of mound will be oriented perpendicular to prevailing north winds along with another section set perpendicular to prevailing southeast winds. Breakwater mounds will be spaced approximately 100 feet apart to an elevation approximately one foot below mean water level. The project will be conducted in accordance with the attached plans, in four sheets, Attachment A (Water Quality Certification), Attachment B (FWS Consultation) and Attachment C (NMFS).

Project Location: Along the shoreline of Corpus Christi Bay situated between 3700 Ocean Drive East and the southern end of Doddridge Park on the bay side of Ocean Drive within the city limits of Corpus Christi, Nueces County, Texas.

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# Exhibit A: Project site

Recd 22 April 2022

**PERMITTED PLANS**

SWG-2022-00204



Revised 22 April 2022

SWG-2022-00294

# Exhibit B

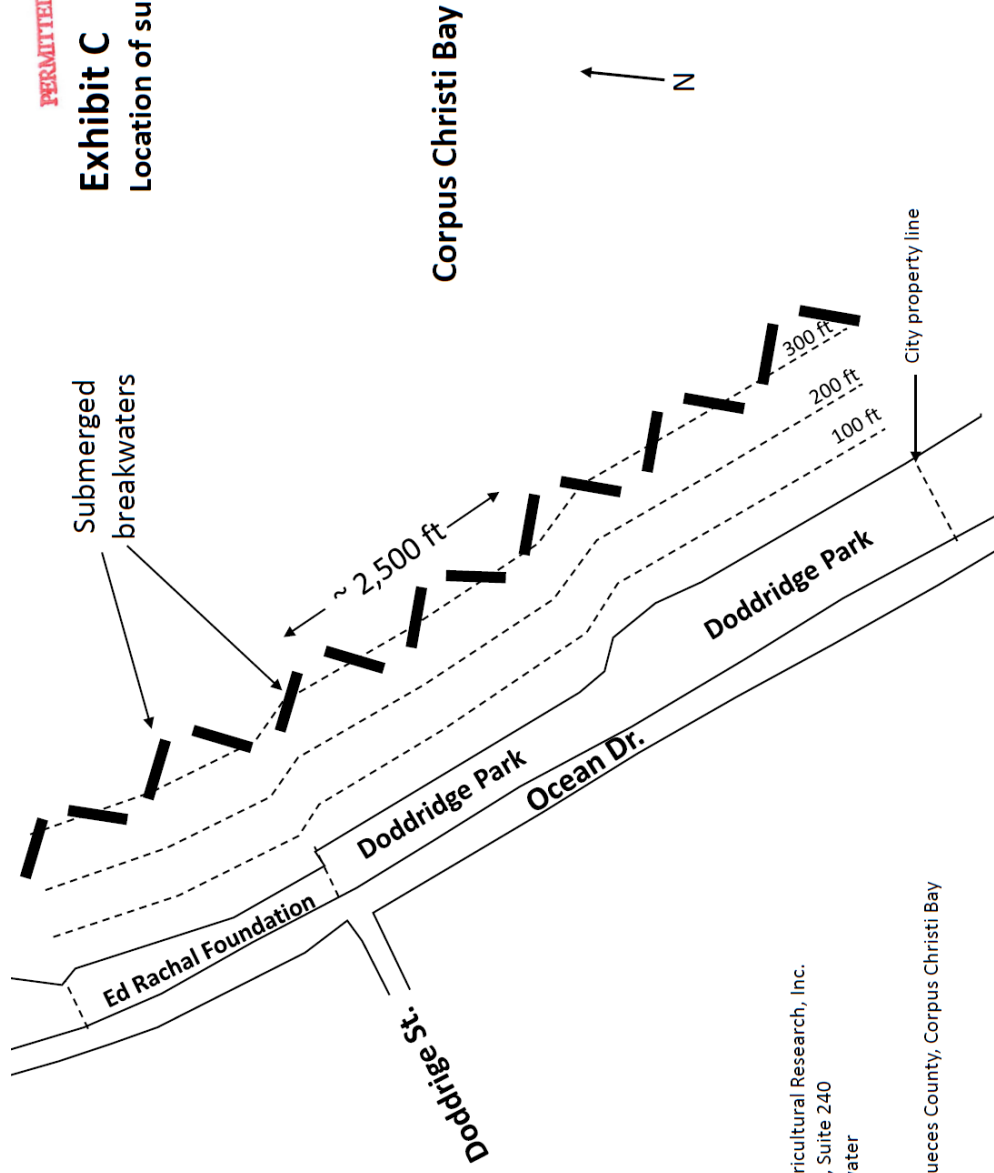
## Project location on Ocean Drive shoreline (Corpus Christi Bay)



Palacios Marine Agricultural Research, Inc.  
 555 N. Carancahua, Suite 240  
 Submerged breakwater  
 April 23, 2022  
 Dr. Joe M. Fox  
 Project Location: Nueces County, Corpus Christi Bay  
 State Tract #74

# Exhibit C

## Location of submerged breakwaters

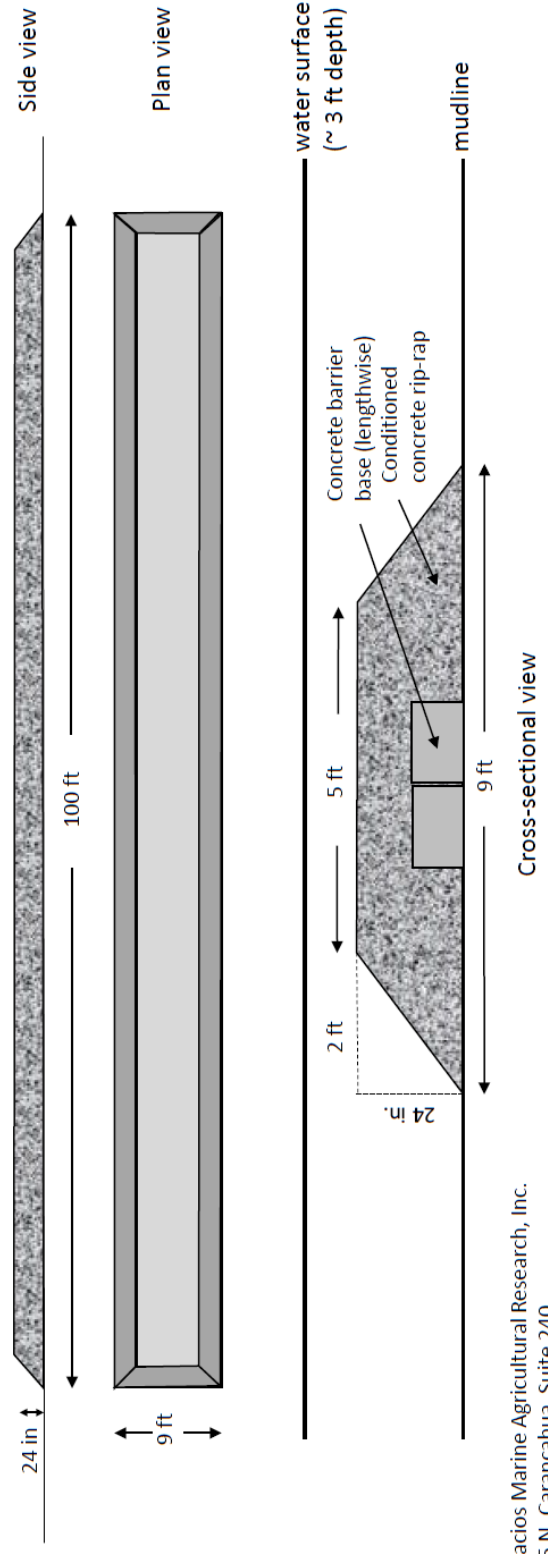


Palacios Marine Agricultural Research, Inc.  
555 N. Carancahua, Suite 240  
Submerged breakwater  
April 23, 2022  
Dr. Joe M. Fox  
Project Location: Nueces County, Corpus Christi Bay  
State Tract #74

**PERMITTED PLANS**

# Exhibit D

## Detail on submerged breakwaters



Palacios Marine Agricultural Research, Inc.  
555 N. Carancahua, Suite 240  
Submerged breakwater  
April 23, 2022  
Dr. Joe M. Fox  
Project Location: Nueces County, Corpus Christi Bay  
State Tract #74

Note: Permit amended to utilize 18-22 in. limestone rock, no rip-rap or concrete barrier (Approved Sept 26, 2024).