JAN 0 7 2019

PORT CORPUS CHRISTI

January 3, 2019

Colonel Lars N. Zetterstrom, PE
Commander, Galveston District
USACE Galveston District
P.O. Box 1229
Galveston, Texas 77553

Attn: Jayson Hudson

Subject: Port of Corpus Christi Authority Standard Permit Application for the Proposed Deepening of the Corpus Christi Ship Channel from the Gulf of Mexico to Harbor Island in Nueces and Aransas Counties, Texas

Dear Colonel Zetterstrom:

The Port of Corpus Christi Authority has contracted with AECOM Technical Services, Inc. (AECOM) to perform engineering design and support services related to the proposed deepening and extension of the Corpus Christi Ship Channel in the subject counties. The proposed channel deepening and extension would accommodate the transit of very large crude carriers calling at the Port of Corpus Christi. This letter authorizes Carl Sepulveda of AECOM to act on behalf of the Port of Corpus Christi Authority as our agent in the processing of the Department of the Army permit application, and to furnish, upon request, supplemental information in support of the permit application for the proposed channel deepening.

Enclosed with this letter is an ENG Form 4345 and supporting information, prepared for the deepening and extension of the Corpus Christi Ship Channel and placement of the dredged material generated from the proposed activity.

Please contact Mr. Sepulveda by telephone at 713-278-4620 or by email at carl.sepulveda@aecom.com should you require additional information to process the permit application.

Sincerely,

Sarah L. Garza
Director of Environmental Planning & Compliance

cc: Sean C. Strawbridge, Chief Executive Officer
Clark Robertson, Chief Operating Officer
David L. Krams, PE, Director of Engineering Services
Daniel J. Koesema, PE, CFM, Chief of Channel Development
Paul D. Carangelo, REM, Coastal Development Planning Manager
Beatriz Rivera, PE, Environmental Engineer

U.S. Army Corps of Engineers (USACE)

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

33 CFR 325. The proponent agency is CECW-CO-R.

Form Approved - OMB No. 0710-0003 Expires: 01-08-2018

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required)
First - Sarah Middle-L Last - Garza	First- Carl Middle -Anthony Last - Sepulveda P.E.
Company- Port of Corpus Christi Authority	Company- AECOM
E-mail Address -sarah@pocca.com	E-mail Address -carl.sepulveda@aecom.com
6. APPLICANT'S ADDRESS:	**9. AGENT'S ADDRESS:**
Address- 222 Power Street	Address- 5444 Westheimer Road, Suite 400
City- Corpus Christi State-TX Zip- 78401 Country-USA	City- Housfon State- TX Zip- 77056 Country -USA
7. APPLICANT'S PHONE NOs. w/AREA CODE	**10. AGENTS PHONE NOs. w/AREA CODE**
a. Residence b. Business c. Fax	a. Residence b. Business c. Fax
361-885-6163	713-278-4620

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Carl Sepulveda P.E./AECOM to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

SIGNATURE OF APPLICANT — DATE 1/3/19

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)

Corpus Christi Ship Channel Deepening Project

13. NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)
Gulf of Mexico, Corpus Christi Bay, and Redfish Bay	Address
15. LOCATION OF PROJECT	City- State- Zip-
Latitude: °N 27.837697 Longitude: °W -97.045994	

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)

State Tax Parcel ID Municipality

Section - Township- Range -

17. DIRECTIONS TO THE SITE

From the Port of Corpus Christi (222 Power Street, Corpus Christi, Texas), head west on Power Street to North Water Street. Turn right on North Broadway Street and take the ramp on the left on US-181 N. Merge onto US-181 N, continue onto TX-35 N. Take the TX-35 Business exit toward Farm to Market Road 1069/Aransas Pass. Continue onto TX-35 BUS N/W Wheeler Avenue. Slight right onto W. Wheeler Avenue. W Wheeler turns slightly right and becomes Harrison Blvd. Turn left onto W Goodnight Avenue. Continue onto TX-361 S/Redfish Bay Causeway for 5.2 miles.

18. Nature of Activity (Description of project, include all features)

The Port of Corpus Christi Authority (PCCA) proposes to deepen the Corpus Christi Ship Channel (CCSC) from the Gulf of Mexico to Harbor Island. From the offshore end of the federally authorized Entrance Channel at Station -330+00 to Station -72+50 (25,750 feet), the CCSC would be deepened beyond the currently authorized project depth of -56 feet MLLW to a depth of -77 feet MLLW plus two feet of advanced maintenance and one foot of allowable overdredge to a maximum depth of -80 feet MLLW. From Station -72+50 to Station 54+00 (12,650 feet) the CCSC would be deepened from authorized project depths of -56 feet MLLW and -54 feet MLLW to -75 feet MLLW plus two feet of advanced maintenance and one foot of allowable overdredge to a maximum depth of -78 feet MLLW. The PCCA also proposes to dredge a 29,000-foot entrance channel extension from the authorized Entrance Channel (Station -330+00) to a depth of -77 feet MLLW plus two feet of advanced maintenance and one foot of allowable overdredge to a maximum depth of -80 feet MLLW at Station -620+00 in the Gulf of Mexico. The overall length of the proposed project is approximately 12.8 miles. The Entrance Channel extension and increased channel depth would accommodate transit of fully laden Very Large Crude Carriers (VLCCs) expected to draft approximately 70 feet.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The purpose of the project is to allow for more efficient movement of U.S. produced crude oil to meet current and forecasted demand in support of national energy security and national trade objectives, enhance the Port of Corpus Christi's ability to accommodate future growth in crude oil movement, and construct a channel project that the PCCA can operate and maintain to serve industry needs. Currently, crude oil is exported using Aframax and Suezmax vessels. The Suezmax vessels are sometimes light loaded (lightered) due to the depth restrictions in the existing CCSC, and would continue to be light loaded when the current federally-authorized -54-foot MLLW project is completed. Reverse lightering translates into additional vessel trips, cost, manhours, operational risk, and air emissions. To efficiently and cost effectively move crude oil cargo, oil exporters are increasingly using fully loaded vessels, including VLCCs with deeper drafts. To fulfill its mission of leveraging commerce to drive prosperity in support of national priorities, the PCCA must keep pace with the global marketplace.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Dredged material generated from construction of the proposed project and 10 years of maintenance material would be placed partially within existing authorized placement facilities, and partially within several areas in proximity to the proposed project for beneficial use. Dredged material judged to be suitable for beneficial use would be used to create several feeder berms in near-shore areas to nourish eroded beach areas, reestablish sand dune areas on San Jose Island that were breached by Hurricane Harvey, restore perimeter portions of placement areas that have experienced erosion, place material in areas adjacent to the interior CCSC that were breached by Hurricane Harvey, and enhance/armor a perimeter berm along Harbor Island that would absorb erosive forces of waves and ship wakes to protect areas of marsh and submerged aquatic vegetation behind the berm. Dredged material judged to be unsuitable for beneficial use would be placed in authorized placement areas. (See Attachment A Section 1.2.) Proposed placement options are shown on the attached drawings.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
15.1 Million Cubic Yards of Clay	23.7 Million Cubic Yards of Sand	

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres 1764.3 acres of open waters to be dredged for proposed channel & turning basin. See Atch A Section 3.1 for dredge placement details.

or

Linear Feet

23. Description of Avoidance, Minimization, and Compensation (see instructions)

See Attachment A Sections 5.0 and 6.0.

24. Is Any Portion of the Work Already Complete? ☐ Yes ☒ No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- See attached page

City- State - Zip-

b. Address-

City- State - Zip-

c. Address-

City- State - Zip-

d. Address-

City- State - Zip-

e. Address-

City- State - Zip-

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
TCEQ	401 WQS		In process		
USACE/EPA	MPRSA Section 103		In process		
TGLO	Coastal Consistency		In process		

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT	DATE	SIGNATURE OF AGENT	DATE
			Jan. 3,2019

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

CONSISTENCY WITH THE TEXAS COASTAL MANAGEMENT PROGRAM

THE APPLICANT SHOULD SIGN THIS STATEMENT AND RETURN WITH APPLICATION PACKET TO:

COASTAL PERMIT SERVICE CENTER
TAMU-GALVESTON
P.O. BOX 1675
GALVESTON, TX 77553-1675
FAX: (409) 741-4010

FOR USACE USE ONLY:

PERMIT#: _____

PROJECT MGR: _____

APPLICANT'S NAME AND ADDRESS (PLEASE PRINT):

Title | First: Sarah L. | Last: Garza | Suffix

Mailing Address: 222 Power Street

Home:

Work: 361-885-6163

City: Corpus Christi | State: Texas | Zip Code: 78401

Mobile:

Country: USA | Email: sarah@pocca.com

Fax:

The Texas Coastal Management Program (CMP) coordinates state, local, and federal programs for the management of Texas coastal resources. Activities within the CMP boundary must comply with the enforceable policies of the Texas Coastal Management Program and be conducted in a manner consistent with those policies. The boundary definition is contained in the CMP rules (31 TAC §503.1).

- To determine whether your proposed activity lies within the CMP boundary, please contact the Permit Service Center at permitting.assistance@glo.texas.gov

PROJECT DESCRIPTION:

Is the proposed activity at a waterfront site or within coastal, tidal, or navigable waters? ☑ Yes ☐ No

If Yes, name affected coastal, tidal, or navigable waters: Corpus Christi Ship Channel

Is the proposed activity water dependent? ☑ Yes ☐ No (31 TAC §501.3(a)(14))

http://tinyurl.com/CMPdefinitions

Please briefly describe the project and all possible effects on coastal resources:

The Port of Corpus Christi Authority (PCCA) proposes to deepen the Corpus Christi Ship Channel (CCSC) from the Gulf of Mexico to Harbor Island. From the offshore end of the federally authorized Entrance Channel at Station -330+00 to Station -72+50 (25,750 feet), the CCSC would be deepened beyond the currently authorized project depth of -56 feet MLLW to a depth of -77 feet MLLW plus two feet of advanced maintenance and one foot of allowable overdredge to a maximum depth of -80 feet MLLW. From Station -72+50 to Station 54+00 (12,650 feet) the CCSC would be deepened from authorized project depths of -56 feet MLLW and -54 feet MLLW to -75 feet MLLW plus two feet of advanced maintenance and one foot of allowable overdredge to a maximum depth of -78 feet MLLW. The PCCA also proposes to dredge a 29,000-foot entrance channel extension from the authorized Entrance Channel (Station -330+00) to a depth of -77 feet MLLW plus two feet of advanced maintenance and one foot of allowable overdredge to a maximum depth of -80 feet MLLW at Station -620+00 in the Gulf of Mexico. The overall length of the proposed project is approximately 12.8 miles. The Entrance Channel extension and increased channel depth would accommodate transit of fully laden Very Large Crude Carriers (VLCCs) expected to draft approximately 70 feet.

Indicate area of impact: 1764.3 acres of open waters to be dredged for proposed channel & turning basin ☑ acres or ☐ squarefeet

ADDITIONAL PERMITS/ AUTHORIZATIONS REQUIRED:

- ☐ Coastal Easement - Date application submitted: _____
- ☐ Coastal Lease - Date application submitted: _____
- ☐ Stormwater Permit- Date application submitted: _____
- ☑ Water Quality Certification - Date application submitted: In progress
- ☑ Other state/federal/local permits/authorizations required: MPRSA Section 103: Coordination initiated

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The proposed activity must not adversely affect coastal natural resource areas (CNRAs).

PLEASE CHECK ALL COASTAL NATURAL RESOURCE AREAS THAT MAY BE AFFECTED:

- [x] Coastal Barriers
- [x] Coastal Historic Areas
- [ ] Coastal Preserves
- [x] Coastal Shore Areas
- [ ] Coastal Wetlands
- [x] Critical Dune Areas
- [x] Critical Erosion Areas
- [x] Gulf Beaches
- [ ] Hard Substrate Reefs
- [ ] Oyster Reefs
- [ ] Special Hazard Areas
- [x] Submerged Lands
- [x] Submerged Aquatic Vegetation
- [ ] Tidal Sand or Mud Flats
- [x] Waters of Gulf of Mexico
- [x] Waters Under Tidal Influence

The applicant affirms that the proposed activity, its associated facilities, and their probable effects comply with the relevant enforceable policies of the CMP, and that the proposed activity will be conducted in a manner consistent with such policies.

PLEASE CHECK ALL APPLICABLE ENFORCEABLE POLICIES:

http://tinyurl.com/CMPpolicies

[x]	§501.15 Policy for Major Actions
[ ]	§501.16 Policies for Construction of Electric Generating and Transmission Facilities
[ ]	§501.17 Policies for Construction, Operation, and Maintenance of Oil and Gas Exploration and Production Facilities
[ ]	§501.18 Policies for Discharges of Wastewater and Disposal of Waste from Oil and Gas Exploration and Production Activities
[ ]	§501.19 Policies for Construction and Operation of Solid Waste Treatment, Storage, and Disposal Facilities
[ ]	§501.20 Policies for Prevention, Response and Remediation of Oil Spills
[ ]	§501.21 Policies for Discharge of Municipal and Industrial Wastewater to Coastal Waters
[ ]	§501.22 Policies for Nonpoint Source (NPS) Water Pollution
[x]	§501.23 Policies for Development in Critical Areas
[ ]	§501.24 Policies for Construction of Waterfront Facilities and Other Structures on Submerged Lands
[x]	§501.25 Policies for Dredging and Dredged Material Disposal and Placement
[x]	§501.26 Policies for Construction in the Beach/Dune System
[ ]	§501.27 Policies for Development in Coastal Hazard Areas
[x]	§501.28 Policies for Development Within Coastal Barrier Resource System Units and Otherwise Protected Areas on Coastal Barriers
[ ]	§501.29 Policies for Development in State Parks, Wildlife Management Areas or Preserves
[x]	§501.30 Policies for Alteration of Coastal Historic Areas
[ ]	§501.31 Policies for Transportation Projects
[ ]	§501.32 Policies for Emission of Air Pollutants
[ ]	§501.33 Policies for Appropriations of Water
[ ]	§501.34 Policies for Levee and Flood Control Projects

Please explain how the proposed project is consistent with the applicable enforceable policies identified above. Please use additional sheets if necessary. *For example: If you are constructing a pier with a covered boathouse, then the applicable enforceable policy is: §501.24 Policies for Construction of Waterfront Facilities and Other Structures on Submerged Lands. The project is consistent because it will not interfere with navigation, natural coastal processes, and avoids/minimizes shading.*

§501.15 Policy for Major Actions. Prior to taking a major action, the project and associated entities having jurisdiction over the proposed project shall meet and coordinate their major actions relating to the proposed project and to the greatest extent possible, consider the cumulative and secondary adverse effects. Certification of a federal permit for the discharge of dredge or fill material will be issued by the Texas Commission on Environmental Quality.

§501.23 Policies for Development in Critical Areas. The selected channel alternative will not impact critical areas. Placement alternatives have been selected to minimize impacts to critical area and make use of existing Placement Area (PAs) and beneficial use (BU) as much as possible. No oyster reef or hard substrate reef would be impacted by the placement plan. Critical areas that could be impacted are coastal wetland, submerged aquatic vegetation (SAV), and tidal sand flat. However, the majority of proposed BU will restore and protect these resources compared to the minimal direct impacts.

§501.25 Policies for Dredging and Dredged Material and Placement. The project is consistent because it has been designed to minimize adverse effects to coastal waters, submerged lands, critical areas, coastal shore areas, and Gulf beaches to the greatest extent practicable. Dredging and dredged material disposal and placement would not cause or contribute, after consideration of dilution and dispersion, to violation of any applicable surface water quality standards. Dredging and disposal and placement of material to be dredged will comply with applicable standards for sediment toxicity. Use of new work dredge material to raise dikes, restore shoreline, dunes, beaches and protect SAV is consistent with 501.25(d)(1) and (3) to beneficially using dredged material. Of 11 proposed placement features, 10 involve BU. The use of some of the existing PAs proposed is consistent with many of the impact minimization techniques in 501.25(b) such as locating and confining discharges to minimize smothering of organisms, discharging materials in areas previously disturbed or used for placement, discharging materials at sites where the substrate is composed of material similar to that being discharged, and use of containment levees. Past maintenance material and recent 2018 new work testing from the same segment to establish sediment guality has indicated no contaminant concerns, and material is suitable for offshore placement.

§501.26 Polices for Construction in the Beach/Dune System. This project is consistent because it has been designed to avoid adverse effects to the coastal dunes and the selected placement plan includes BU to restore dunes and beaches on San Jose Island. It also proposes feeder berms in multiple locations allowing for dredged material to build up historically receding shoreline along Mustang and San Jose Islands.

§501.28 Polices for Development Within Coastal Barrier Resource System Unites and Otherwise Protected Areas on Coastal Barriers. This project is in compliance because the development of dune and beach restoration and feeder berms within the Coastal Barrier Resource Area (CBRA) T08, also known as San Jose Island. Placement would be designed to repair and nourish these critical areas, critical dunes, gulf beaches, and washover areas. The feeder berm would occur at sites and times selected to have the least adverse effects practicable with the CBRA unit and would be designed to provide material to rehabilitate dunes.

§501.30 Polices for Alteration of Coastal Historic Areas. This project would comply with the Texas Historic Commission (THC) with the policies when issuing permits under the Texas natural Resources Code. The proposed project would avoid affecting a coastal historic area and would minimize alteration or disturbance of the site unless the site's excavation will promote historical, archaeological, educational, or scientific understanding. The few sites that have been identified in the Gulf portion of the proposed placement would be investigated and appropriate action taken prior to construction.

BY SIGNING THIS STATEMENT, THE APPLICANT IS STATING THAT THE PROPOSED ACTIVITY COMPLIES WITH THE TEXAS COASTAL MANAGEMENT PROGRAM AND WILL BE CONDUCTED IN A MANNER CONSISTENT WITH SUCH PROGRAM

Signature of Applicant/Agent

January 4, 2019
Date

Any questions regarding the Texas Coastal Management Program should be referred to:

Allison Buchtien
Texas General Land Office
1001 Texas Clipper Road
PMEC #3027, Room 135
Galveston, Texas 77554
Phone: (409) 741-4057
Fax: (409) 741-4010
Toll Free: 1-866-894-7664
permitting.assistance@glo.texas.gov

Texas General Land Office
Coastal Protection Division
1700 North Congress Avenue, Room 330
Austin, Texas 78701-1495
Toll Free: 1-800-998-4GLO
federal.consistency@glo.texas.gov

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Print Form