

W00560

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
National Ocean Service

DESCRIPTIVE REPORT

Type of Survey: Navigable Area

Registry Number: W00560

LOCALITY

State(s): Texas

General Locality: Lower Texas Coast

Sub-locality: Packery Channel

2020

CHIEF OF PARTY
Deidre Williams

LIBRARY & ARCHIVES

Date:

HYDROGRAPHIC TITLE SHEET

W00560

INSTRUCTIONS: The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State(s): **Texas**

General Locality: **Lower Texas Coast**

Sub-Locality: **Packery Channel**

Scale: **20000**

Dates of Survey: **09/25/2020 to 10/02/2020**

Instructions Dated: **N/A**

Project Number: **ESD-PHB-21**

Field Unit: **Texas A&M University**

Chief of Party: **Deidre Williams**

Soundings by: **Teledyne Odom Hydrographic MB2 (MBES)
Teledyne Odom Hydrographic Echotrac CV100 (SBES)**

Imagery by: **N/A**

Verification by: **Pacific Hydrographic Branch**

Soundings Acquired in: **meters at Mean Lower Low Water**

Remarks:

Any revisions to the Descriptive Report (DR) applied during office processing are shown in red italic text. The DR is maintained as a field unit product, therefore all information and recommendations within this report are considered preliminary unless otherwise noted. The final disposition of survey data is represented in the NOAA nautical chart products. All pertinent records for this survey are archived at the National Centers for Environmental Information (NCEI) and can be retrieved via <https://www.ncei.noaa.gov/>. Products created during office processing were generated in NAD83 UTM 14N, MLLW. All references to other horizontal or vertical datums in this report are applicable to the processed hydrographic data provided by the field unit.

DESCRIPTIVE REPORT MEMO

December 06, 2021

MEMORANDUM FOR: Pacific Hydrographic Branch

FROM: Report prepared by PHB on behalf of field unit
Deidre Williams
Coastal Research Scientist, Texas A&M University

SUBJECT: Submission of Survey W00560

The survey documented the impact of five hurricanes that swept through the area during 2020, and measured depth changes over time within and at the mouth of the Packery Channel due to natural forces.

Survey products were submitted by the field unit and verified by the hydrographic branch.

All soundings were reduced to Mean Lower Low Water using VDatum. The horizontal datum for this project is North American Datum of 1983 (NAD 83). The projection used for this project is Universal Transverse Mercator (UTM) Zone 14.

VDatum was used to horizontally transform the source data from U.S. State Plane Texas South to NAD83 UTM 14N, and to vertically transform the depths from NAVD88 to MLLW.

Data acquisition and processing information is not included in this report.

All data were reviewed for DTONs and none were identified in this survey.

Texas A&M University acquired the data outlined in this report. Additional documentation from the data provider may be attached to this report.

The area within and approaching Packery Channel exhibits seasonal depth changes, with migrating shoals that can increase rapidly in both elevation and extent with the potential to impact navigation.

The survey is partially adequate to supersede previous data. It is recommended to update the charted bathymetry using the survey data. Charted features were not addressed by this survey and should be retained as charted.

APPROVAL

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The survey data meet or exceed the current requirements of the Office of Coast Survey hydrographic data review process and may be used to update NOAA products. The following survey products will be archived at the National Centers for Environmental Information:

- Descriptive Report Memo
- Collection of Bathymetric Attributed Grids (BAGs)
- Geospatial PDF of survey products

Approved: _____

James Miller

Chief, Pacific Hydrographic Branch