

Survey Report

Bay Raccourci Marsh Creation and Ridge Restoration (TE-0156)

Terrebonne Parish, LA

**Prepared for the
State of Louisiana
Coastal Protection and Restoration Authority**

Contract No. 4400026115



**Chustz Surveying, LLC
211 Richy Street
New Roads, LA 70760
225-638-5949**



November 2025

Section 1

General Project Description and Background

This project was conducted by Chustz Surveying, LLC (CSI) for the State of Louisiana, Office of Coastal Protection and Restoration Authority (CPRA) under contract 4400026115, Bay Raccourci Marsh Creation and Ridge Restoration (TE-0156), Terrebonne Parish, Louisiana.

1.1 Statement of Work to be Performed

The required work consists of a topographic and bathymetric survey of designated sections within the work area. The survey included 130 supplementary transects.

Section 2

Survey Methodology and Data Processing

2.1 Permission and Access

CPRA secured access to the site and coordinated with Chustz to conduct the surveys.

2.2 Horizontal and Vertical Control

The horizontal and vertical control for the topographic and hydrographic surveys was constrained to monument TE28-SM-A as supplied by CPRA. Horizontal control was constrained to the Louisiana South State Plane Coordinate System, referencing the North American Datum of 1983 (NAD83-2011). The vertical control was constrained to the North American Vertical Datum of 1988 (NAVD88-Geoid 12B). Reference Section 3 for the Benchmark Description form.

2.3 Topographic/Bathymetric Surveys

On October 6, 2025, a two person hydrographic/RTK survey crew equipped with Trimble R10 receivers along with our CEE-SCOPE single beam system on our closed cabin survey vessel was deployed to collect the hydrographic data. They first set a temporary benchmark from the project control benchmark TE-28-SM-A and then a temporary gauge to read the water surface. The next day, they set their receiver up on the primary benchmark and began logging static GPS data. While the GPS data was logging each day, they collected the necessary hydrographic data and completed both the required 4+ hour static GPS sessions and hydrographic data collection by October 10, 2025. On October 13, 2025, the crew returned with their RTK/GNSS equipment and to conduct the required topographic data. They first located the provided control, made ties, and set additional control. They then began collecting the remaining data. All data collection was completed on October 16, 2025.

2.4 Office Processing

The RTK and GNSS survey data for this job was submitted to the CSI office and processed using the latest version of Trimble Business Center. Once all the data was processed, it was compiled in Terramodel and QC/QA procedures were conducted. The hydrographic data was processed using Hypack, then imported into Terramodel to merge with the RTK data. Once complete, the data for the required deliverables was extracted and compiled in Microsoft Office. The preliminary submittal was then delivered for review and once accepted the final submittal was delivered on Tuesday, November 25, 2025.

Section 3 – Benchmark Description Forms



VICINITY MAP

Station Name: “BA02 SM 01”

Monument Location: The monument is located in Lafourche Parish east of Cut Off, Louisiana. From LA HWY 308 in Cut Off, proceed east on East 36th St for approximately 5.0 miles and follow the signs for the North Dock. Once at the boat landing, by boat, proceed approximately 2.8 miles east to a green camp and the monument.

Monument Description: The monument is a sleeved stainless steel deep rod driven to refusal at 65 feet, set in a sand filled 6” PVC pipe with an aluminum access cover, set in concrete, approximately flush with the ground.

Date: October 6, 2025

Monument Recovered By:
Chustz Surveying, LLC

NAD 83 Geodetic Position*

Lat. 29°23'29.654" N
Long. 90°56'01.848" W

Grid Position (LSZ 1702 ft) *

N: 324,457.88
E: 3,408,054.70

Elevation (ft) *

NAVD 88 (Geoid 12B)
Elev. = 1.53



* The information referenced above was provided by CPRA and verified by Chustz Surveying with static GNSS surveys.



CHUSTZ
SURVEYING

