



## TEXAS GENERAL LAND OFFICE COMMISSIONER DAWN BUCKINGHAM, M.D.

## Surveying Services Coastal Boundary Survey

Project:

N. Bank of Old River, J. Harrell, A-330, W. Carter, A1709

Project No:

Houston Port Authority Nav District (State Mineral Interest only)

Project Manager:

Amy Nunez, Dianna Ramirez, Coastal Field Operations

Surveyor:

Jim M. Naismith, Licensed State Land Surveyor

**Description:** 

Coastal Boundary Survey dated January 25, 2024, was conducted along a

portion of the northerly bank of Old River situated in the J. Harrell Survey, Abstract 330, the W. Carter Survey, Abstract 1709, and Submerged Land Tract A in Harris County, Texas, for State of Texas mineral interest only. Centroid coordinates 29.785100° N, 95.097868° W, WGS84. A copy of the survey has been filed in Document No. RP-2024-234339, on June 27, 2024, Real Property Records, Harris County Texas.

A Coastal Boundary Survey for the above-referenced project has been reviewed and accepted by Surveying Services; upon completion of public notice requirements, the survey will be filed in the Texas General Land Office, Archives and Records, in accordance with provisions of the Tex. Nat. Res. Code §33.136.

by:

Signed:

David Klotz, Staff Surveyor

Surveying Services Date

Pursuant to Tex. Nat. Res. Code §33.136, the herein described Coastal Boundary Survey is approved by Dawn Buckingham, M.D., Commissioner of the Texas General Land Office.

by:

Signed:

DocuSigned by:

Jennifer G Jones

7/29/2024

Jennifer Jones E70CDF09B56540E...

Date

Chief Clerk and Deputy Land Commissioner

1700 North Congress Avenue, Austin, Texas 78701-1495 P.O. Box 12873, Austin, Texas 78711-2873 512-463-5001 glo.texas.gov Filed as: Harris County, NRC Article 33.136 Sketch No. 21 Tex. Nat. Res. Code §33.136

## ROUTING FOR INTERNAL DOCUSIGN PACKET

Staff Surveyor
Surveying
Legal DNL
Director
Dep. Gen. Counsel
Gen. Counsel



TEXAS GENERAL LAND OFFICE.

Art. 33.136, Natural Resources Code

Co. Harris

File Date 7 | 30 | 24 by L. Parsons

## **JANUARY 2024**

COASTAL BOUNDARY SURVEY ALONG A PORTION OF THE NORTHERLY BANK OF OLD RIVER
ACROSS THE REMAINDER OF LOTS 11, 12, 13, 14, AND 15, BLOCK 1 OF REVISED OLD RIVER TERRACE
SITUATED IN THE J. HARRELL SURVEY, ABSTRACT 330
AND THE W. CARTER SURVEY, ABSTRACT 1709,
HARRIS COUNTY, TEXAS

This report accompanies a map of survey dated January 25, 2024.



Figure 1: The typical shoreline of Old River. (Looking Easterly)



Figure 2: The typical shoreline of Old River. (Looking Westerly)

A coastal boundary survey was conducted along a portion of the northerly bank of Old River situated in the J. Harrell Survey, Abstract 330, the W. Carter Survey, Abstract 1709, and Submerged Land Tract A in Harris County, Texas. All survey work was performed using survey grade RTK GPS base and rover: Trimble R10 and R12 receivers. The survey was conducted on January 25, 2024.

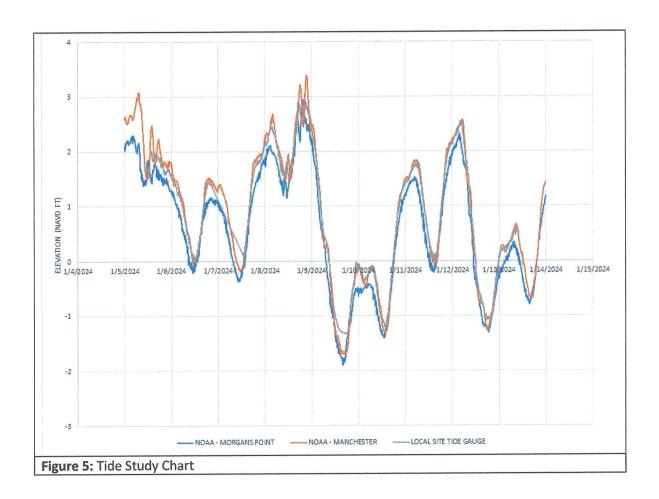
**SURVEY CONTROL:** One NGS monument and two found monuments were used as primary control: "HGCSD 31" (N: 13,852,649.36, E: 3,204,626.75, EL: 18.90' NAVD88), published position Found 1/2" iron rod with cap (N: 13,853,990.46, E: 3,205,672.46, EL: 27.09' NAVD88) Found "X" in concrete (N: 13,854,273.66, E: 3,206,354.88, EL: 25.48' NAVD88)

Datum is NAD 83 (2011), South Central Zone of the Texas Coordinate System (US Survey Feet). Orthometric heights referenced to NAVD88 datum (Geoid 18).



Figure 3: NGS benchmark "HGCSD 31" (N: 13,852,649.36, E: 3,204,626.75, EL: 18.90' NAVD88)

**STATE OWNERSHIP BOUNDARY:** As referenced to this survey, the state ownership boundary is based on the Mean High Water (MHW) contour. MHW elevation of 1.6' NAVD88 was determined in accordance with a local tide study cross-checked against NOAA Tide Gauges: "Manchester, TX – Station ID: 8770777" and "Morgans Point, Barbours Cut, TX – Station ID: 8770613".



FIELD NOTES for the coastal boundary survey along a portion of the northerly bank of Old River across the remainder of Lots 11, 12, 13, 14, and 15, Block 1 of Revised Old River Terrace as recorded in Volume 14, Page 19 of the Map Records of Harris County, Texas (M.R.H.C.T.), and being situated in the J. Harrell Survey, Abstract 330, the W. Carter Survey, Abstract 1709, and Submerged Land Tract A in Harris County, Texas. Distances, bearings, and Coordinates are grid, North American Datum of 1983 (2011), South Central Zone (4204) of the Texas Coordinate System;

Beginning at the intersection of the MHW line with the west line said remainder of Lot 11, (N: 13,853,522.61, E: 3,205,869.75) along the northerly bank of Old River, from which NGS monument "HGCSD 31" (N: 13,852,649.36, E: 3,204,626.75, EL: 18.90') bears S 54°54'38" W, a distance of 1,519.08 feet (546.87V), also from which a 1/2" iron rod with cap found for the ostensible northwest corner of said remainder of Lot 11 (N: 13,853,990.46, E: 3,205,672.46, EL: 27.09'), bears N 22°51'55" W, a distance of 507.75 feet (182.79V);

**Thence** along said MHW line, the following courses and distances:

N 49°48'44" E, a distance of 13.45 feet (4.84V); N 13°38'28" E, a distance of 12.87 feet (4.63V);

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N 30°47'41" W, a distance of 15.11 feet (5.44V);
N 00°37'12" E, a distance of 22.92 feet (8.25V);
N 43°40'43" E, a distance of 32.99 feet (11.88V);
N 59°48'43" E, a distance of 18.32 feet (6.60V);
N 19°10'30" W, a distance of 11.04 feet (3.97V);
N 05°35'30" E, a distance of 12.00 feet (4.32V);
N 37°38'54" E, a distance of 18.31 feet (6.59V);
N 47°03'26" E, a distance of 9.97 feet (3.59V); from which a 5/8" iron rod with cap found on
the ostensible common line of said remainders of Lots 11 and 12 bears
N 19°22'35" W, a distance of 20.65 feet (7.43V);
N 73°35'31" E, a distance of 13.95 feet (5.02V);
S 81°57'34" E, a distance of 17.37 feet (6.25V);
N 79°05'01" E, a distance of 8.45 feet (3.04V);
S 73°00'11" E, a distance of 7.56 feet (2.72V);
S 50°22'21" E, a distance of 8.86 feet (3.19V);
S 80°29'10" E, a distance of 19.90 feet (7.16V);
N 68°22'22" E, a distance of 19.29 feet (6.94V);
N 33°03'56" E, a distance of 18.50 feet (6.66V);
N 62°33'14" E, a distance of 8.03 feet (2.89V);
N 33°51'31" E, a distance of 24.60 feet (8.86V);
N 70°39'22" E. a distance of 13.49 feet (4.86V);
N 43°11'45" E, a distance of 21.18 feet (7.62V);
N 64°52'46" E, a distance of 7.18 feet (2.58V);
S 83°38'45" E, a distance of 9.13 feet (3.29V);
N 57°15'44" E, a distance of 9.91 feet (3.57V);
N 80°52'52" E, a distance of 8.20 feet (2.95V);
N 45°45'01" E, a distance of 12.10 feet (4.36V);
S 82°59'40" E, a distance of 6.07 feet (2.19V);
N 49°41'13" E, a distance of 6.72 feet (2.42V);
N 72°39'19" E, a distance of 9.26 feet (3.33V);
S 87°10'36" E, a distance of 8.32 feet (3.00V);
$ 36°39'22" E, a distance of 9.76 feet (3.51V);
S 88°29'37" E, a distance of 5.33 feet (1.92V);
N 39°27'03" E, a distance of 6.16 feet (2.22V);
N 67°05'02" E, a distance of 6.55 feet (2.36V);
S 75°33'58" E, a distance of 21.98 feet (7.91V);
N 88°57'28" E, a distance of 9.35 feet (3.37V);
N 66°24'20" E, a distance of 24.08 feet (8.67V);
S 81°00'43" E, a distance of 6.59 feet (2.37V);
N 70°00'10" E, a distance of 22.40 feet (8.06V);
N 77°52'11" E, a distance of 55.44 feet (19.96V);
N 50°37'10" E, a distance of 11.65 feet (4.19V);
N 76°18'14" E, a distance of 9.97 feet (3.59V);
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**Thence** N 57°05'32" E, a distance of 6.80 feet (2.45V) to the intersection of the MHW line with the east line of said remainder of Lot 15 for the **POINT OF TERMINATION** (N: 13,853,773.53, E: 3,206,327.79), from which an "X" cut in a concrete driveway found for the ostensible northeast corner of said remainder of Lot 15 (N: 13,854,273.66, E: 3,206,354.88, EL: 25.48' NAVD88) bears N 03°05'58" E, a distance of 500.86 feet (180.31V).

Prepared 1/31/2024. Revised 5/24/2024.

James M. Naismith, RPLS, LSLS

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Art. 33.136, Natural Resources Code
Co. Harris , Sk No. 21
File Date 7/30/24 by L. Parsons

