

SEGMENT A	
BEARING	DISTANCE
N34°41'44"E	98.63'
N47°32'42"E	93.15'
N43°15'04"E	63.58'
N29°37'58"E	97.02'
N33°12'43"E	101.38'
S49°27'19"E	91.12'
S49°01'09"E	22.60'
N40°34'27"E	77.70'
N63°10'51"E	74.58'
N59°57'26"E	93.26'
N30°27'21"E	84.36'
N60°46'53"E	46.18'
N60°46'17"E	90.56'
N55°53'44"E	90.90'
N53°04'20"E	98.85'
N55°02'03"E	97.28'
N58°06'56"E	99.37'
N58°00'34"E	98.38'
N54°25'49"E	99.95'
N45°47'50"E	92.00'
N35°53'32"E	72.90'
N48°24'32"E	111.19'
N65°58'07"E	88.72'
N75°46'21"E	49.44'
S88°48'54"E	53.67'
S38°41'38"E	21.05'
S12°44'23"E	14.14'

SEGMENT B	
BEARING	DISTANCE
N51°52'02"W	38.38'
N09°26'09"W	46.36'
N46°33'58"E	24.30'
N32°12'32"E	62.60'
N44°10'28"E	81.97'
N03°17'09"W	88.98'
N07°01'59"W	67.14'
N03°16'57"W	40.52'
N64°18'16"E	155.31'
N08°08'09"W	14.13'
N81°52'59"E	86.76'
N85°24'16"E	24.34'
S83°50'48"E	74.82'
S56°46'10"E	42.54'
N83°18'14"E	97.08'
N83°01'48"E	94.44'
N86°10'46"E	87.49'
N78°40'35"E	41.05'
S48°54'23"E	56.05'
S69°58'59"E	70.90'
S76°13'39"E	99.59'
S65°28'54"E	78.51'

SEGMENT B CONTINUED	
BEARING	DISTANCE
S80°28'44"E	57.74'
N73°53'58"E	39.59'
N71°29'18"E	4.72'
N75°33'29"W	12.67'
N25°18'38"W	26.76'
N80°51'12"E	46.55'
S48°42'56"E	50.30'
S09°13'04"E	95.95'
S12°07'20"E	38.05'
S01°19'04"W	72.19'
S60°14'47"W	16.24'
S47°48'11"W	93.99'
S45°48'00"W	97.75'
S29°25'08"W	95.48'
S30°49'12"W	93.67'
S35°30'13"W	45.04'
S57°23'41"W	11.13'
N16°32'48"W	17.28'
N18°55'04"E	9.01'
N58°16'59"E	15.79'
N08°47'55"E	27.39'

- LEGEND
- MHHW-LINE (0.69' NAVD'88)
  - (A) MHHW-LINE DESIGNATION
  - BEG/END OF MHHW-LINE
  - ▽ MONUMENTS

MHHW-LINE		
SEGMENT	BEGINNING POINT	ENDING POINT
(A)	N 762866.11 E 2429088.44	N 763973.15 E 2430680.45
(B)	N 764065.55 E 2430718.89	N 763958.06 E 2431638.98

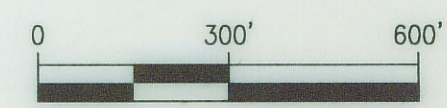
WE, SHINER MOSELEY AND ASSOCIATES, INC., HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEY OF PORTIONS OF SHAMROCK ISLAND CONDUCTED ON OCTOBER 12 THROUGH OCTOBER 15, 2004.

NOTICE: THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH SECTION 33.136, NATURAL RESOURCES CODE, FOR THE PURPOSE OF EVIDENCING THE LOCATION OF THE SHORELINE IN THE AREA DEPICTED IN THIS SURVEY AS THAT SHORELINE EXISTED BEFORE COMMENCEMENT OF EROSION RESPONSE ACTIVITY, AS REQUIRED BY CHAPTER 33, NATURAL RESOURCES CODE. THE LINE DEPICTED ON THIS SURVEY FIXES THE SHORELINE FOR THE PURPOSE OF LOCATING A SHORELINE BOUNDARY, SUBJECT TO MOVEMENT LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.

- NOTES
- COORDINATES SHOWN ARE STATE PLANE, NAD'27, TEXAS SOUTH ZONE, IN U.S FEET
  - ELEVATIONS ARE BASED ON NAVD'88
  - HORIZONTAL CONTROL BASED ON NOS MONUMENT "SHAM" N 760,873.43' E 2,428,819.06' AND NOS MONUMENT "WILCUT" N 755,375.67' E 2,440,377.44'
  - VERTICAL CONTROL BASED ON NGS MONUMENT "G1518" ELEVATION 6.41' NAVD'88 ELEVATION 6.92' NGVD'29 ELEVATION 7.92' C.O.E. MLT
  - MEAN HIGHER HIGH WATER DETERMINED FROM COMBINATION OF BLUCHER INSTITUTE TIDE GAUGES AT PACKERY CHANNEL AND INGLESIDE
  - ALL SURVEYING WAS PERFORMED BY SHINER MOSELEY AND ASSOCIATES. THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEY CONDUCTED ON OCTOBER 12 THROUGH OCTOBER 15, 2004
  - OUTLINE OF ISLAND DIGITIZED FROM AN AERIAL TAKEN JUNE, 2004

TEXAS GENERAL LAND OFFICE  
Art. 33.136, Natural Resources Code  
Co. NUECES, Sketch No. B, Large Format  
File Date 1-7-2005 by D.J.H.  
See Nueces Co. Sketch B, Small Format, for Report

*George Rubalcaba*  
GEORGE RUBALCABA 10/29/04  
LICENSED STATE LAND SURVEYOR



APP					
REV	0	DATE	10/28/04	DESCRIPTION	ISSUED TO CLIENT
DCC	GR	DATE	10/26/04		
	GR	DATE	10/26/04		
	GRAPHIC				
		SCALE	30156-00-T01.DWG		
		DATE	10/26/04		
		SCALE	200.30156.00		

SHINER MOSELEY AND ASSOCIATES, INC.  
ENGINEERS & CONSULTANTS  
555 North Carancahua Street, Suite 1650  
Corpus Christi, Texas 78478

COASTAL BEND BAYS & ESTUARIES PROGRAM  
SHAMROCK ISLAND HABITAT PROTECTION & ENHANCEMENT  
NUECES COUNTY, TEXAS  
STATE COASTAL BOUNDARY SURVEY

SHEET  
**T01**  
OF 1 REV 0



October 28, 2004

J200.30156.01

Mr. Ben Thomson  
Director of Surveying Division  
Texas General Land Office  
1700 N. Congress Avenue, Suite 840  
Austin, TX 78701-1495

**RE: COASTAL BOUNDARY SURVEY ON PORTIONS OF SHAMROCK ISLAND, NUECES COUNTY, TEXAS PERFORMED IN ACCORDANCE WITH SECTION 33.136, NATURAL RESOURCES CODE FOR COASTAL BEND BAYS AND ESTUARIES PROGRAM**

Dear Mr. Thomson:

Enclosed is a Mylar drawing of the coastal boundary survey which we conducted on portions of Shamrock Island. The site is located midway between two tide gauges maintained by the Blucher Institute.

One tide gauge is at Ingleside and one is at the Packery Channel. The Tidal Datums information at each of these sites is attached.


The mean higher high water elevation at the Packery Channel location is equal to 0.65' NAVD '88 and the mean higher high water elevation at the Ingleside location is equal to 0.72' NAVD '88. An elevation of 0.69' NAVD '88 was used for the Shamrock site based on the location of the site relative to these two sites.

The 0.69' NAVD '88 elevation at the project site was established from NGS monument G 1518, having a PID of AC8445 and an NAVD '88 elevation of 6.41'. The elevation at Shamrock Island was further verified by taking simultaneous tide readings at the two tide gauge sites and at the Shamrock Island project site. The MHHW line was then run and shot in via GPS using the monuments noted on the drawing.

If you should have any questions or comments or need further clarification, please call.

Sincerely,

SHINER MOSELEY AND ASSOCIATES, INC.

  
George Rubalcaba, P.E., R.P.L.S., L.S.L.S.  
Manager of Surveys

GR/djp

Enclosures

TEXAS GENERAL LAND OFFICE  
Art. 33.136, Natural Resources Code  
Co. Nueces, Sketch No. 8 Small format  
File Date 1-7-2005 by D. J. H. Sh. 2  
See Nueces Co. Sketch 8, Large Format



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28 Oct 2004 14:38 UTC 2004302+1438 UTC

### 005: Packery Channel

Corpus Christi Bay, Texas      PACKER  
27° 38.0' N 97° 14.2' W      87757921

[Overview](#) [Datums](#) [Bench Marks](#) [Data Query](#) [Site Visit](#) [Daily QC](#) [Message](#)

### Tidal Datums - Published

### Station Information

Location: Corpus Christi Bay, Texas

PDB 005      NOAA 87757921  
Latitude: 27° 38.0' N      NOAA Chart: 11308  
Longitude: 97° 14.2' W      USGS Quad: Crane Island NW

### Related Sites

- [Center for Coastal Studies](#)
- [Gulfbase](#)
- [NOAA CO-OPS](#)
- [NOAA Coastal Services Center](#)
- [LSU WAVCIS](#)
- [Tampa PORTS](#)

To reach the tidal bench mark from the intersection of State Highway 358 (South Padre I SE on State Highway 358 (SPID) 10.0 miles (16.1KM), to "Y", turn or bear to right at "Y" (SPID) and go 4.3 miles (6.90KM), cross Gulf Intracoastal Waterway (GIWW) on John F. causeway bridge and immediately turn right under bridge on to north access road, to Co Tackle Shop. The tide station is located on the west side of the Coastway Bait a& Tackle

### Elevations

Status = Published  
Date Computed = 23-Apr-2003  
Length of Observations = 122  
Time Period = 1/91-12/01  
Control Station = 015 (1983-2001)  
Accuracy = unstated

### Elevations of datums above station datum:

	Meters	Feet
Mean Higher High Water (MHHW)	0.944	3.10
Mean High Water (MHW)	0.943	3.09
Mean Tide Level (MTL)	0.887	2.91
Mean Sea Level (MSL)	0.889	2.92
Mean Low Water (MLW)	0.831	2.73
Mean Lower Low Water (MLLW)	0.830	2.72
North American Vertical Datum 1988 (NAVD88)	0.748	2.45
Station Datum (STND)	0.000	0.00

### Bench mark elevations above datum:

Meters above

TEXAS GENERAL LAND OFFICE  
Art. 33.136, Natural Resources Code  
Co. Nueces, Sketch No. 8, small format, sheet 3  
File Date 1-7-2005 by D. J. H.

See Nueces Co. Sketch 8, Large Format



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28 Oct 2004 14:37 UTC 2004302+1437 UTC

### 006: Ingleside

Corpus Christi Bay, Texas      INGLES  
27° 49.3' N 97° 12.2' W      87752831

[Overview](#) [Datums](#) [Bench Marks](#) [Data Query](#) [Site Visit](#) [Daily QC](#) [Message](#)

### Tidal Datums - Published

### Station Information

Location: Corpus Christi Bay, Texas

PDB 006      NOAA 87752831  
Latitude: 27° 49.3' N      NOAA Chart: 11308  
Longitude: 97° 12.2' W      USGS Quad: Port Ingleside, TX

### Related Sites

- [Center for Coastal Studies](#)
- [Gulfbase](#)
- [NOAA CO-OPS](#)
- [NOAA Coastal Services Center](#)
- [LSU WAVCIS](#)
- [Tampa PORTS](#)

To reach the tidal benchmarks from the city of Ingleside Texas at the intersection of hwy South from 4.1 miles to the entrance of Homeport Ingleside. Go south on Hayden Head Rd to Coral Sea. Go left (east) on Coral Sea for 0.1 miles to S. Coral Sea. go right (south) on 0.7 miles to Cross Arleigh Burke, through the gate onto the warf. Go East on the warf 0.1 station on the right. The dock name is Bravo Dock.

### Elevations

Status	=	Published
Date Computed	=	23-Apr-2003
Length of Observations	=	111
Time Period	=	6/92-12/01
Control Station	=	015 (1983-2001)
Accuracy	=	unstated

Elevations of datums above station datum:

	Meters	Feet
Mean Higher High Water (MHHW)	0.937	3.07
Mean High Water (MHW)	0.935	3.07
Mean Tide Level (MTL)	0.849	2.79
Mean Sea Level (MSL)	0.857	2.81
Mean Low Water (MLW)	0.764	2.51
Mean Lower Low Water (MLLW)	0.761	2.50
North American Vertical Datum 1988 (NAVD88)	0.717	2.35
Station Datum (STND)	0.000	0.00

Bench mark elevations above datum:

Meters above

TEXAS GENERAL LAND OFFICE  
Art. 33.136, Natural Resources Code

Co. Nueces, sketch No. B, small format, Sht. 4

File Date 1-7-2005 by D.J.H.

See Nueces Co. Sketch 8, Large format