Project Center (Lat: 29° 12' 36" N, Long: 94° 55' 26" W)

Project Area

The north toe of dune, as shown herein, is approximate and based on a combination of survey contour lines and depiction from aerial imagery. Atkins does not certify to the location of said toe. Aerial imagery shown for informational purposes only.
The north toe of dune, as shown herein, is approximate and based on a combination of survey contour lines and depiction from aerial imagery. Atkins does not certify to the location of said line. Aerial imagery shown for informational purpose only.

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: Bing Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
Job No.: 100053964

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
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Scale: 1" = 200'
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

Aerials: BING Aerial (accessed 8/22/2017)

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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2017 3' CONTOUR
2017 4' CONTOUR
2017 LINE OF VEGETATION
2017 SOUTH TOE OF DUNE
2017 NORTH TOE OF DUNE
2017 MEAN HIGH WATER
2017 MEAN LOW WATER
2017 25' OFFSET NORTH TOE OF DUNE
2017 ENHANCED CONSTRUCTION ZONE

2016 4' CONTOUR
2016 APPROXIMATE LINE OF VEGETATION
2016 SOUTH TOE OF DUNE
2016 NORTH TOE OF DUNE
2016 MEAN HIGH WATER
2016 MEAN LOW WATER
2016 25' OFFSET NORTH TOE OF DUNE
2016 ENHANCED CONSTRUCTION ZONE

CONTOURS

Scale: 1" = 200'

Data shown hereon is for informational purposes only and does not constitute a boundary survey.

City of Galveston
Galveston County, Texas
Page 15 of 57
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

Aerials: Bing Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
Job No.: 100053964

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: Bing Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
Job No.: 100053964

2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 17 of 57
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

The north toe of dune, as shown herein, is approximate and based on a combination of survey contour lines and depiction from aerial imagery. Atkins does not certify to the location of said line. Aerial imagery shown for informational purposes only.

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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City of Galveston
Galveston County, Texas
Page 19 of 57
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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

Aerials: BING Aerial (accessed 8/22/2017)

0 100 Feet

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Scale: 1" = 200 Feet

2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 21 of 57
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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

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2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 24 of 57
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: Bing Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
Job No.: 100053964

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CONTOURS

2017 3' CONTOUR
2017 4' CONTOUR
2017 LINE OF VEGETATION
2017 SOUTH TOE OF DUNE
2017 NORTH TOE OF DUNE

2016 4' CONTOUR
2016 APPROXIMATE LINE OF VEGETATION
2016 SOUTH TOE OF DUNE
2016 NORTH TOE OF DUNE

2016 MEAN HIGH WATER
2016 MEAN LOW WATER
2016 25' OFFSET NORTH TOE OF DUNE
2016 ENHANCED CONSTRUCTION ZONE


Datum: NAD 1983
Vertical Datum: NAVD 88
Projection: State Plane Texas South Central
Units: Feet
Aerials: Bing Aerial (accessed 8/22/2017)

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2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 26 of 57
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

0

100

200

Feet

N:\Clients\G_H\Galveston\100053964\geo\figs\Wading_Depth_Survey_2017_11x17_v3.mxd

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
Job No.: 100053964

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Aerial imagery shown for informational purposes only.

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Scale: 1" = 200'

CONTOURS

2016 ENHANCED CONSTRUCTION ZONE
2017 SOUTH TOE OF DUNE
2017 MEAN LOW WATER
2017 MEAN HIGH WATER
2016 NORTH TOE OF DUNE
2016 SOUTH TOE OF DUNE
2016 APPROXIMATE LINE OF VEGETATION
2016 25' OFFSET NORTH TOE OF DUNE
2017 NORTH TOE OF DUNE
2017 3' CONTOUR
2017 LINE OF VEGETATION
2017 4' CONTOUR
2017 MEAN HIGH WATER
2017 MEAN LOW WATER
2016 NORTH TOE OF DUNE
2016 SOUTH TOE OF DUNE
2016 MEAN HIGH WATER
2016 MEAN LOW WATER
2016 25' OFFSET NORTH TOE OF DUNE
2016 ENHANCED CONSTRUCTION ZONE

2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 30 of 57
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

0
100
200
Feet

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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 41 of 57
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Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
Job No.: 100053964

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2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 43 of 57
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
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CONTOURS

2017 3' CONTOUR
2017 4' CONTOUR
2017 LINE OF VEGETATION
2017 SOUTH TOE OF DUNE
2017 NORTH TOE OF DUNE

2016 4' CONTOUR
2016 APPROXIMATE LINE OF VEGETATION
2016 SOUTH TOE OF DUNE
2017 NORTH TOE OF DUNE
2017 MEAN HIGH WATER
2017 MEAN LOW WATER
2017 25' OFFSET NORTH TOE OF DUNE
2017 ENHANCED CONSTRUCTION ZONE

2016 MEAN HIGH WATER
2016 MEAN LOW WATER
2016 SOUTH TOE OF DUNE
2016 NORTH TOE OF DUNE
2016 25' OFFSET NORTH TOE OF DUNE
2016 ENHANCED CONSTRUCTION ZONE

Scale: 1" = 200'

City of Galveston
Galveston County, Texas
Page 44 of 57
### Metadata

**Datum:** NAD 1983  
**Vertical Datum:** NAVD88  
**Projection:** State Plane Texas South Central  
**Units:** Feet  
**Aerials:** Bing Aerial (accessed 8/22/2017)

### Survey Contours

- **2017 3' ConTOUR**
- **2017 4' ConTOUR**
- **2017 LINE OF VEGETATION**
- **2017 SOUTH TOE OF DUNE**
- **2017 NORTH TOE OF DUNE**

- **2016 4' ConTOUR**
- **2016 APPROXIMATE LINE OF VEGETATION**
- **2016 SOUTH TOE OF DUNE**
- **2016 NORTH TOE OF DUNE**

### Data

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### Reference

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**By:** Atkins/WHIT6392  
**Prepared By:** Atkins/WHIT6392  
**Job No.:** 100053964  
**Scale:** 1" = 200'  
**Date:** Sep 06, 2017  
**Prepared By:** Atkins/WHIT6392  
**Date:** Sep 06, 2017
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 48 of 57
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Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

Aerials: BING Aerial (accessed 8/22/2017)

Scale: 1 " = 200 '

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2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 54 of 57
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

2017 3' CONTOUR
2017 4' CONTOUR
2017 LINE OF VEGETATION
2017 SOUTH TOE OF DUNE
2017 NORTH TOE OF DUNE

2017 MEAN HIGH WATER
2017 MEAN LOW WATER
2017 25' OFFSET NORTH TOE OF DUNE
2017 ENHANCED CONSTRUCTION ZONE

2016 4' CONTOUR
2016 APPROXIMATE LINE OF VEGETATION
2016 SOUTH TOE OF DUNE
2016 NORTH TOE OF DUNE
2016 MEAN HIGH WATER
2016 MEAN LOW WATER
2016 25' OFFSET NORTH TOE OF DUNE
2016 ENHANCED CONSTRUCTION ZONE

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Scale: 1" = 200'
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet
Aerials: BING Aerial (accessed 8/22/2017)

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2017 SOUTH TOE OF DUNE
2017 NORTH TOE OF DUNE
2017 SOUTH TOE OF DUNE
2017 MEAN HIGH WATER
2017 MEAN LOW WATER
2017 LINE OF VEGETATION
2017 2' OFFSET NORTH TOE OF DUNE
2017 ENHANCED CONSTRUCTION ZONE

2016 SOUTH TOE OF DUNE
2016 NORTH TOE OF DUNE
2016 MEAN HIGH WATER
2016 MEAN LOW WATER
2016 25' OFFSET NORTH TOE OF DUNE
2016 ENHANCED CONSTRUCTION ZONE

CONTOURS

2017 3' CONTOUR
2017 4' CONTOUR
2017 25' OFFSET NORTH TOE OF DUNE
2017 SOUTH TOE OF DUNE
2017 NORTH TOE OF DUNE
2017 MEAN HIGH WATER
2017 MEAN LOW WATER
2017 LINE OF VEGETATION
2017 ENHANCED CONSTRUCTION ZONE

2016 4' CONTOUR
2016 APPROXIMATE LINE OF VEGETATION
2016 SOUTH TOE OF DUNE
2016 NORTH TOE OF DUNE
2016 MEAN HIGH WATER
2016 MEAN LOW WATER
2016 25' OFFSET NORTH TOE OF DUNE
2016 ENHANCED CONSTRUCTION ZONE

CONTOURS

Reference: NAD 1983

Atkins

Prepared by Atkins/WHIT6392

Job No.: 100053964

Galveston County, Texas
City of Galveston
Page 56 of 57

2017 Wading Depth Survey

Data: 3' Contour

City of Galveston

Prepared by: Atkins/WHIT6392

Date: Sep 06, 2017

Scale: 1" = 200'
Datum: NAD 1983
Vertical Datum: NAVD88
Projection: State Plane Texas South Central
Units: Feet

Aerials: BING Aerial (accessed 8/22/2017)

Date: Sep 06, 2017
Prepared By: Atkins/WHIT6392
Job No.: 100053964

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2017 Wading Depth Survey
City of Galveston
Galveston County, Texas
Page 57 of 57