

HYDROGRAPH U.S. ARMY ENGINE

NOAA Bathymetry (DREDGING REACH EXTENT)

Aids to Navigation | MLLW

**Channel Features** 

Channel Toe

– – Channel Center Line

← Channel Dimensions

—— Channel Station Lines

I. HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET. 2. ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW TIDE (MLLW) DATUM.

93°56'0"W

B. THIS PROJECT WAS DESIGNED BY THE GALVESTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.

29°51'30"N

- 4. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
- 5. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: HTTP://WWW.SWG.USACE.ARMY.MIL/MISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/
- 6. NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) SURVEYS CONDUCTED BY THE NOAA NATIONAL OCEAN SERVICE/COAST SURVEY, AVAILABLE FROM THE NATIONAL GEOPHYSICAL DATA CENTER. SURVEYS VARY AS TO SOUNDING DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION.

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93°55'30"W

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



29°52'0"N

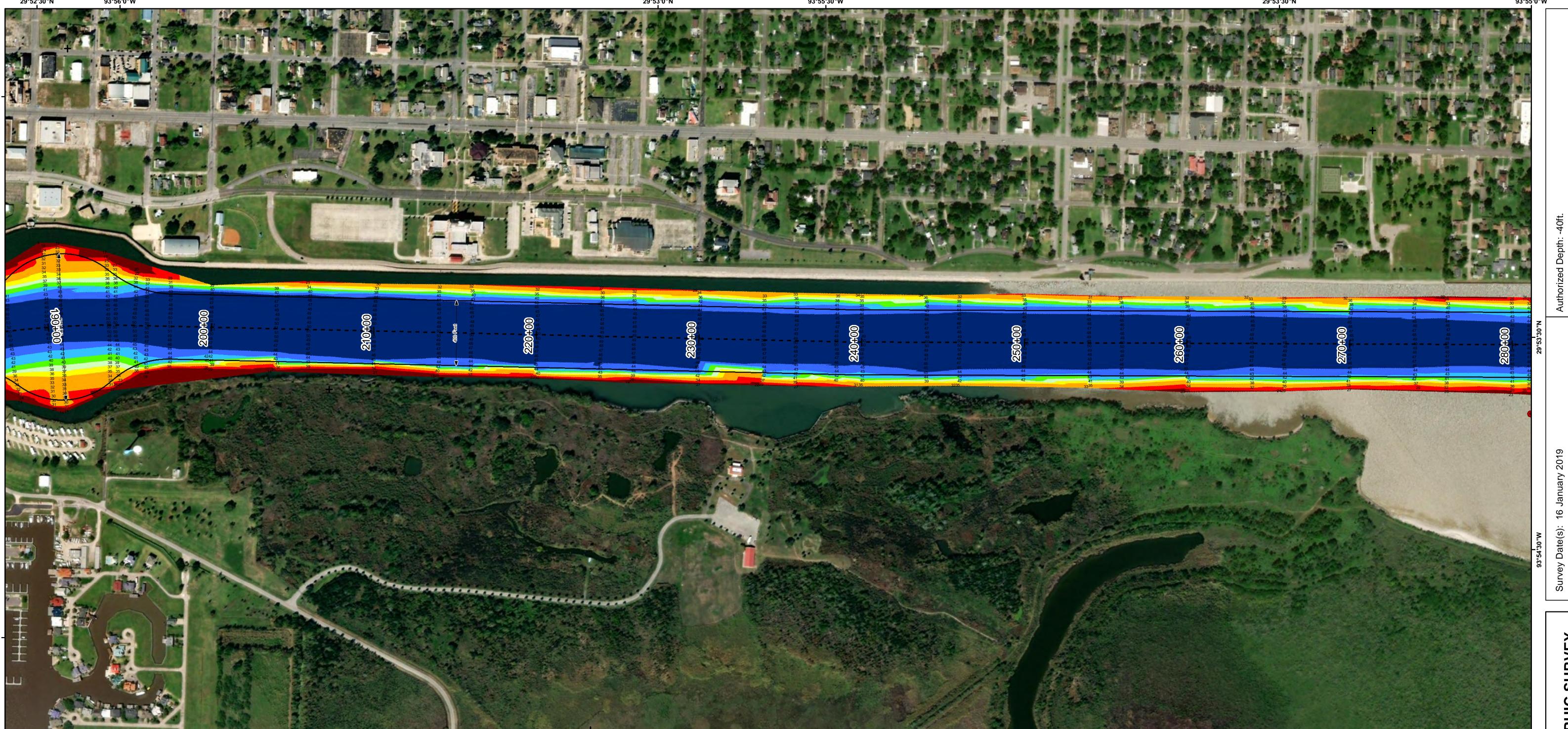
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Projection: Lambert Conformal Conic /Datum: North American 1983 Dredging Reach Extent Hydrographic Survey Extent

1,220









HYDROGR/ U.S. ARMY E

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29°53'0"N

93°54**'**30"W Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Projection: Lambert Conformal Conic /Datum: North American 1983 Dredging Reach Extent

Hydrographic Survey Extent 1,220

#### Sabine Neches Waterway: Junction with Port Arthur Canal to Neches River SABINE NECHES HYDROGRAP U.S. ARMY ENGIN 93°54<sup>'</sup>30"W 29°53'30"N 93°54'0"W 29°54'0"N 93°53<sup>'</sup>30"W Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Aids to Navigation | MLLW 4. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS **Channel Features** Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., Projection: Lambert Conformal Conic /Datum: North American 1983 MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL I. HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET. Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap Dredging Reach Extent Channel Toe DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE contributors, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325 2. ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW TIDE (MLLW) DATUM. 5. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: – – Channel Center Line B. THIS PROJECT WAS DESIGNED BY THE GALVESTON DISTRICT OF THE U.S. ARMY HTTP://WWW.SWG.USACE.ARMY.MIL/MISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/ CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION USDA, USGS, AeroGRID, IGN, and the GIS User Community Hydrographic Survey Extent DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN 6. NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) Channel Station Lines THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152. SURVEYS CONDUCTED BY THE NOAA NATIONAL OCEAN SERVICE/COAST SURVEY, AVAILABLE FROM THE NATIONAL GEOPHYSICAL DATA CENTER. SURVEYS VARY AS TO SOUNDING DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION. 1,220 NOAA Bathymetry (DREDGING REACH EXTENT) ← Channel Dimensions





Dredging Reach Extent

Storing

 VEY
 Survey Date(s): 16 January 2019
 Authorized Depth: -40ft.

 Page: 28 of 74 Map: Scale: 1:3,500
 Side Slope Ratio: (Rise: Run)

 Scale: 1:3,500
 Additional Imagery: © DigitalGlobe Imagery: © DigitalGlobe Imagery: DigitalGlobe Imagery: DigitalGlobe Imagery: © DigitalGlobe Imagery

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
GALVESTON, TEXAS
tation: 40+00 to 593+68.50

Channel Features

Aids to Navigation

Channel Tea

Channel Features

Channel Toe

Channel Center Line

Channel Station Lines

← Channel Dimensions

Aids to Navigation
Green Side Aids
Red Side Aids

- 41 - 43 - 45 + 5 +

NOAA Bathymetry (DREDGING REACH EXTENT)

HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET.

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93°53'0"W



29°55'0"N

		formal Conic /Datum: No	nn American 1963
Dreag	ing Reach Exte 0.375	ent 0.75	1.5
	0.373	0.10	Miles





HYDROGRAPHIC U.S. ARMY ENGINEER D

93°52<sup>'</sup>30"W 93°52'0"W 29°55'30"N 29°56'0"N

**Channel Features** Channel Toe – – Channel Center Line

**←** Channel Dimensions

GIWW

Aids to Navigation | MLLW —— Channel Station Lines

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### Sabine Neches Waterway: Junction with Port Arthur Canal to Neches River GIWW R MARINE SERVICES DOCK WHARF HYDROGRAPHIC S U.S. ARMY ENGINEER DIS CORPS OF ENGINEER GALVESTON. TEXAS 93°51**'**30"W 29°57'0"N 93°51'0"W Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Aids to Navigation | MLLW 4. THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS **Channel Features** Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., Projection: Lambert Conformal Conic /Datum: North American 1983 MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL . HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET. Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap Dredging Reach Extent Channel Toe DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325 contributors, and the GIS User Community 2. ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW TIDE (MLLW) DATUM. Esri, Garmin, GEBCO, NOAA NGDC, and other contributors Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community 5. FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: – – Channel Center Line B. THIS PROJECT WAS DESIGNED BY THE GALVESTON DISTRICT OF THE U.S. ARMY HTTP://WWW.SWG.USACE.ARMY.MIL/MISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/ CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION Hydrographic Survey Extent DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN 6. NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) —— Channel Station Lines THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152. SURVEYS CONDUCTED BY THE NOAA NATIONAL OCEAN SERVICE/COAST SURVEY, AVAILABLE FROM THE NATIONAL GEOPHYSICAL DATA CENTER. SURVEYS VARY AS TO SOUNDING DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION. 1,220 NOAA Bathymetry (DREDGING REACH EXTENT) **←** Channel Dimensions