







- Legend**
-  PA4 Project Study Area (294.12 Acres)
 -  SS1 Project Study Area (589.90 Acres)
 -  SS2 Project Study Area (250.60 Acres)
 -  HI-E Project Study Area (269.40 Acres)
 -  MI Project Study Area (764.48 Acres)



Vicinity Map - Aquatic Survey
 Corpus Christi Ship Channel Deepening Project
 (SWG-2019-00067)

Prepared By: Triton Environmental Solutions, LLC
 P.O. Box 1755
 Rockport, Texas 78381



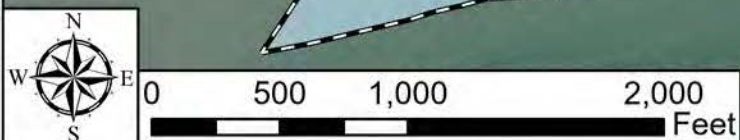
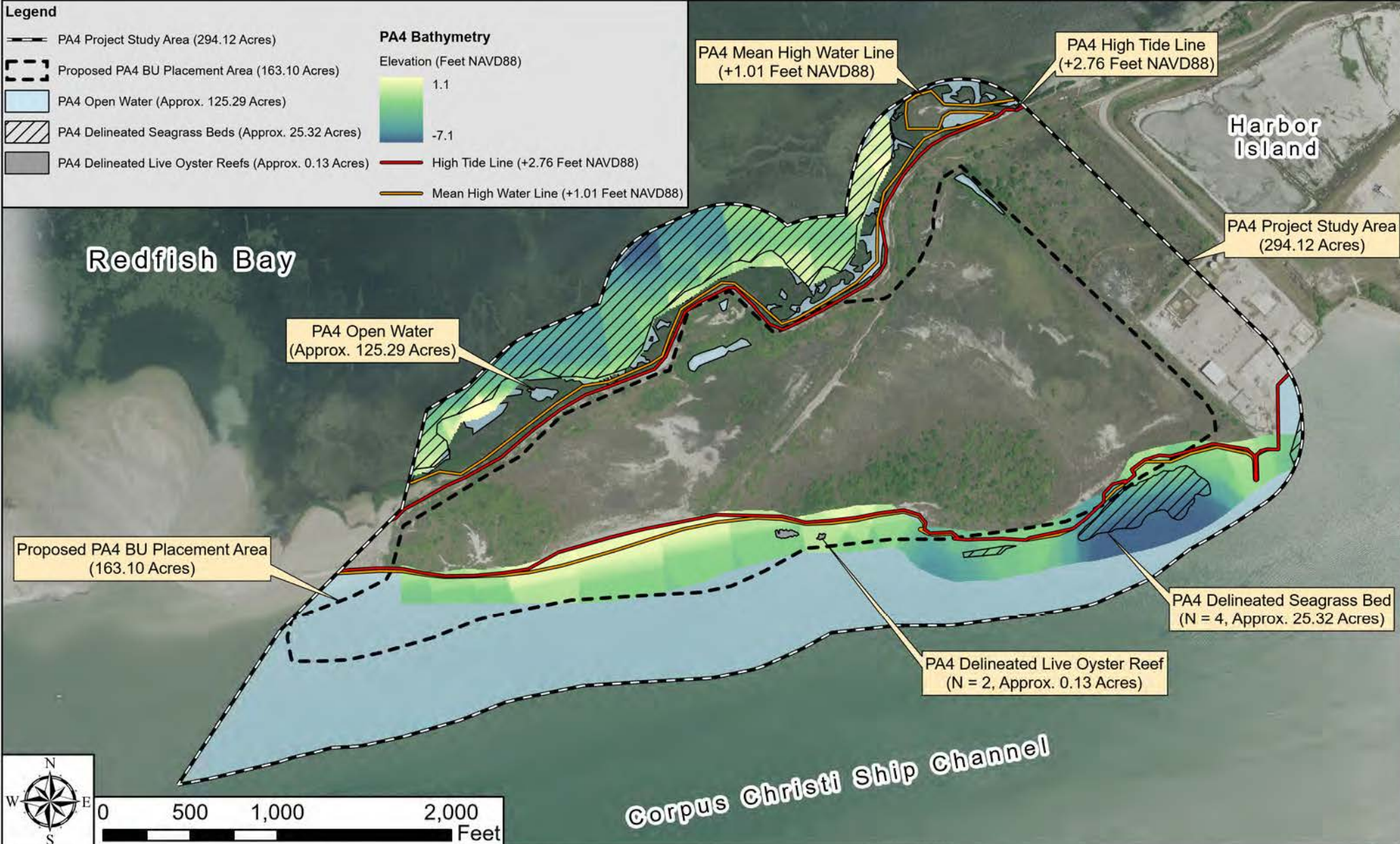
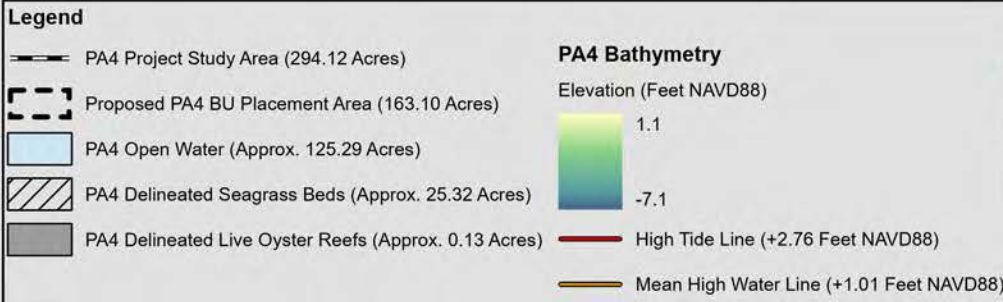
Prepared For: Port of Corpus Christi Authority
 222 Power Street
 Corpus Christi, Texas 78401

Map Notes

- Base Map Source: Image obtained from ArcGIS Pro; World Imagery.
- BU Placement Area boundary and shapefiles for SS1, SS2, & HI-E were provided by the Port of Corpus Christi Authority.
- Shapefile for PA4 obtained from the U.S. Army Corps of Engineers.
- Map preparation date: October 29, 2021 (JW).


Figure 2.
PA4 Aquatic Survey Overview Map





Aquatic Survey Overview Map - PA4
Corpus Christi Ship Channel Deepening Project
(SWG-2019-00067)

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Rockport, Texas 78381

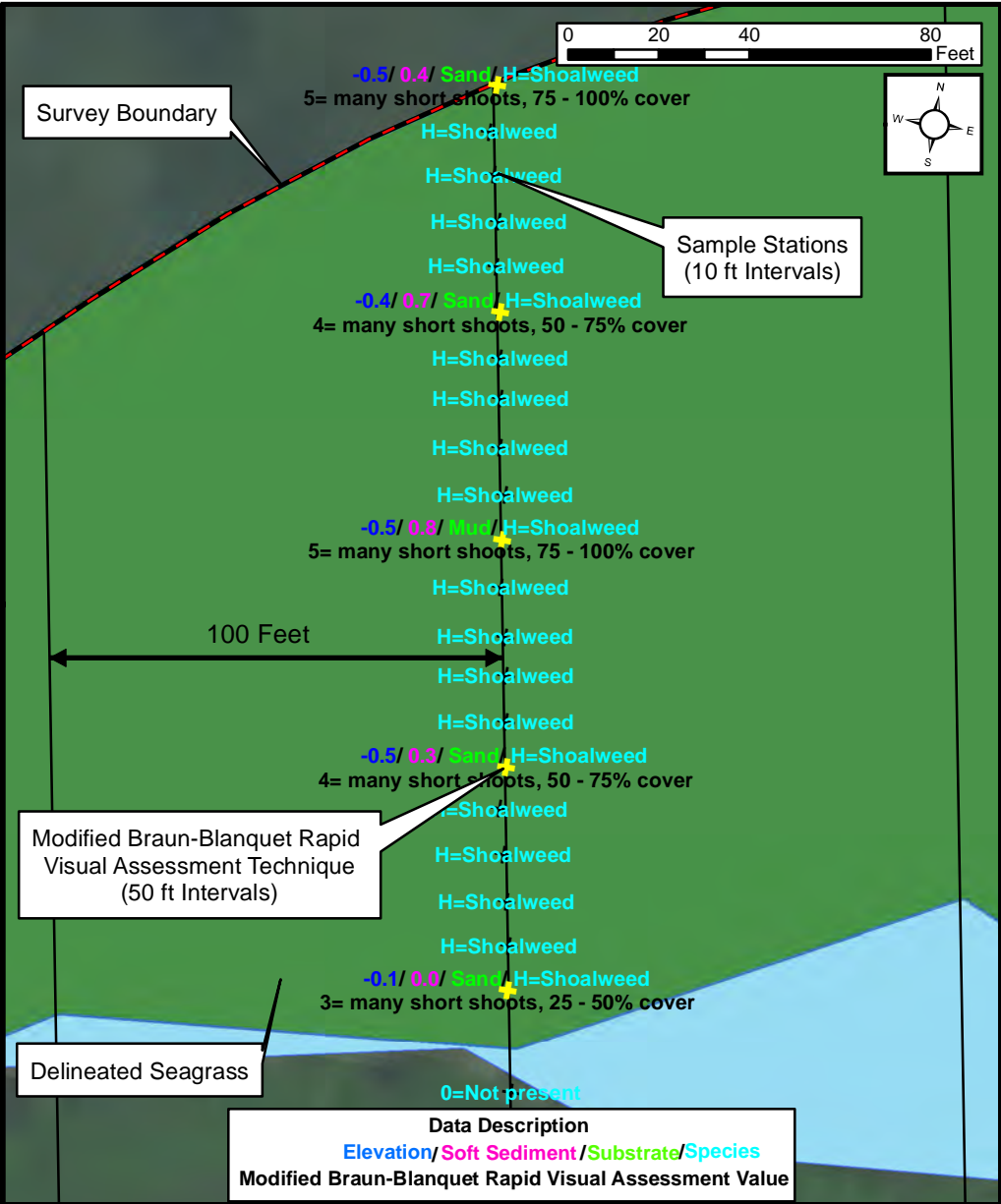
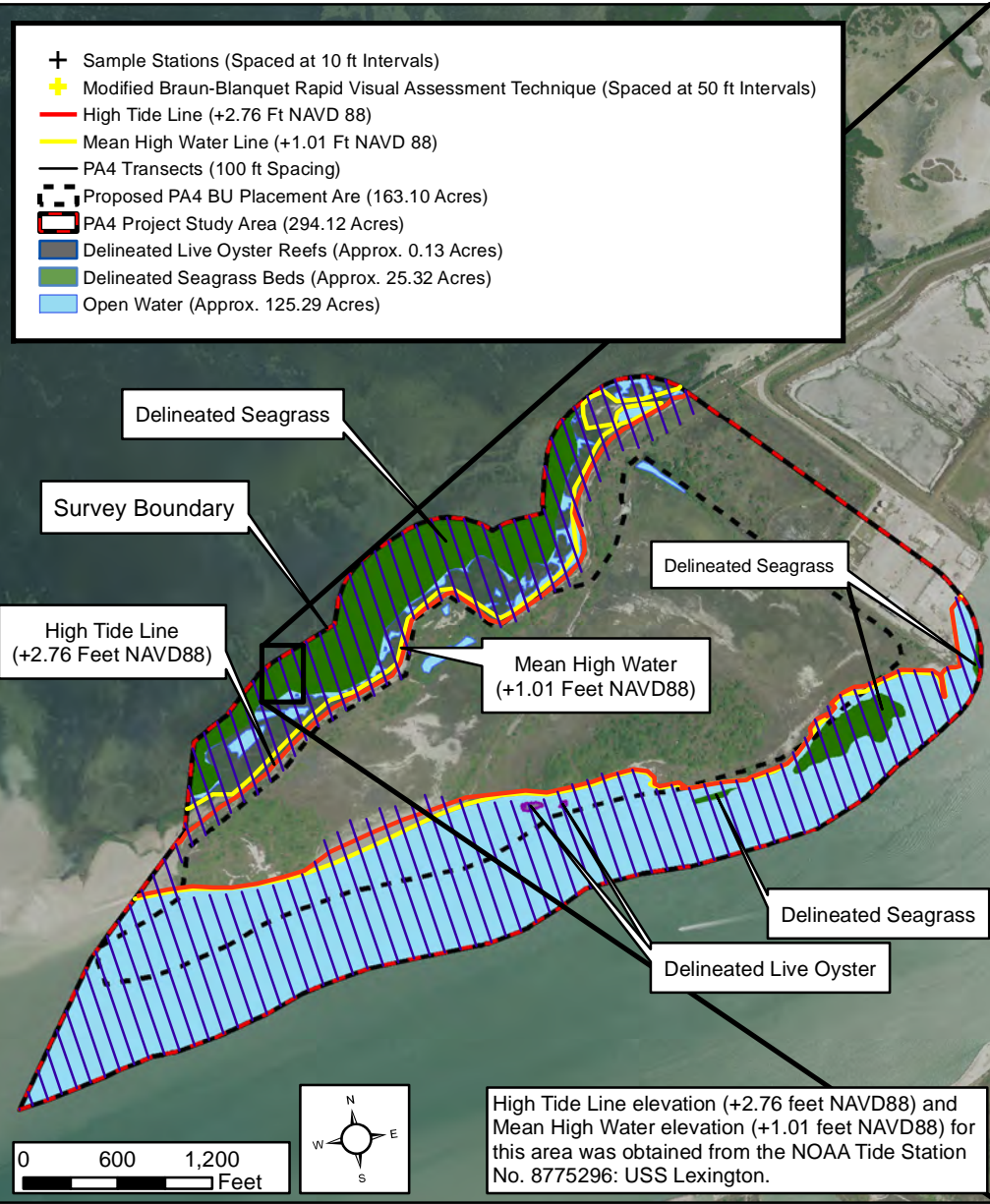


Prepared For: **Port of Corpus Christi Authority**
222 Power Street
Corpus Christi, Texas 78401

Map Notes
 -Base Map Source: Image obtained from TNRIS; NAIP 2020.
 -BU Placement Area boundary and shapefiles for SS1, SS2, & HI-E were provided by the Port of Corpus Christi Authority.
 -Shapefile for PA4 obtained from the U.S. Army Corps of Engineers.
 -HTL elevation (+2.76 Feet NAVD88) & MHW elevation (+1.01 Feet NAVD88) for this area was obtained from the NOAA Tide Station No. 8775296: USS Lexington.
 -Map preparation date: October 28, 2021 (JW).

Figure 3.
PA4 Aquatic Survey Data View Map





**Aquatic Resources Survey
 Data View Map - PA4
 Corpus Christi Ship Channel Deepening Project
 (SWG-2019-00067)**

Prepared By: Triton Environmental Solutions, LLC
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 Rockport, TX 78381

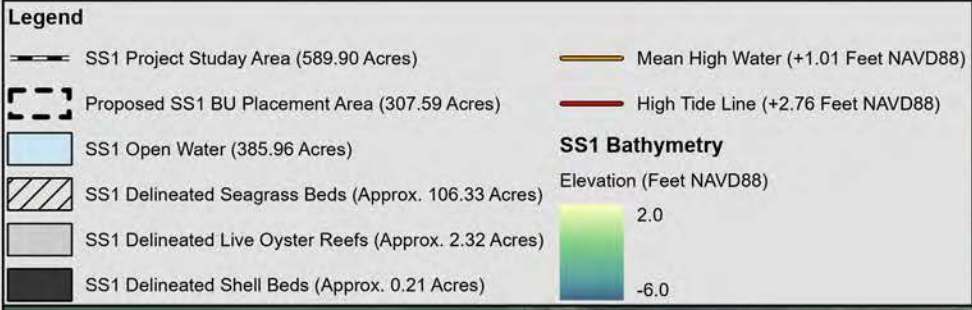


Prepared for: Port of Corpus Christi Authority
 222 Power Street
 Corpus Christi, Texas 78401

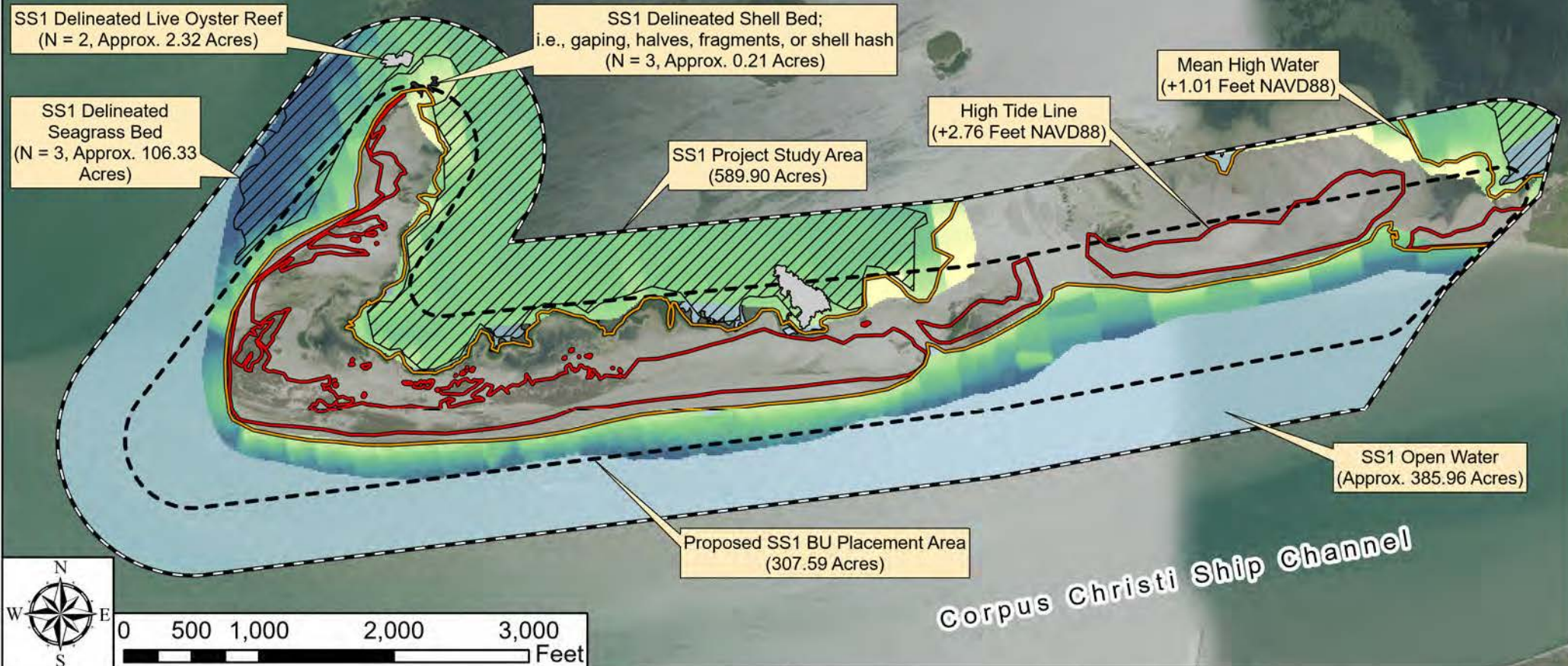
Map Notes:
 For planning and permitting purposes only, not for construction.
 Map Preparation Date: October 29, 2021 (RKW).
 Base Map Source: United States Department of Agriculture (USDA).
 Texas NAIP Imagery, 2020-04-01. Web. 2021-05-16.

Figure 4.
SS1 Aquatic Survey Overview Map





Redfish Bay



Aquatic Survey Overview Map - SS1
Corpus Christi Ship Channel Deepening Project
(SWG-2019-00067)

Prepared By: Triton Environmental Solutions, LLC
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Rockport, Texas 78381



Prepared For: Port of Corpus Christi Authority
222 Power Street
Corpus Christi, Texas 78401

Map Notes
 -Base Map Source: Image obtained from TNIRIS; NAIP 2020.
 -BU Placement Area boundary and shapefiles for SS1, SS2, & HI-E were provided by the Port of Corpus Christi Authority.
 -Shapefile for PA4 obtained from the U.S. Army Corps of Engineers.
 -HTL elevation (+2.76 Feet NAVD88) & MHW elevation (+1.01 Feet NAVD88) for this area was obtained from the NOAA Tide Station No. 8775296: USS Lexington.
 -Map preparation date: October 28, 2021 (JW).

Figure 5.
SS1 Aquatic Survey Data View Map



Legend

- ✕ Sample Stations (Spaced at 10 ft Intervals)
- ⊕ Modified Braun-Blanquet Rapid Visual Assessment Technique (Spaced at 50 ft Intervals)
- High Tide Line (+2.76 Ft NAVD 88)
- Mean High Water Line (+1.01 Ft NAVD 88)
- SS1 Transects (100 ft Spacing)
- ▭ Proposed SS1 BU Placement Area (307.59 Acres)
- ▭ SS1 Project Study Area (589.90 Acres)
- ▭ SS1 Delineated Oyster Shell (gaping, halves, fragments, shell or hash)(Approx. 0.21 Acres)
- ▭ SS1 Delineated Live Oyster Reefs (2.32 Acres)
- ▭ SS1 Delineated Seagrass Beds (Approx. 106.33 Acres)
- ▭ SS1 Open Water (Approx. 385.96 Acres)

Delineated Live Oyster

Delineated Shell (gaping, halves, or fragments, shell or hash)

High Tide Line (+2.76 Feet NAVD88)

Delineated Seagrass

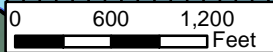
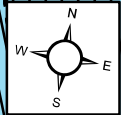
Survey Transects

Mean High Water (+1.01 Feet NAVD88)

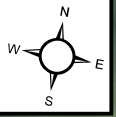
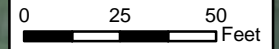
SS1

Delineated Live Oyster

High Tide Line elevation (+2.76 feet NAVD88) and Mean High Water elevation (+1.01 feet NAVD88) for this area was obtained from the NOAA Tide Station No. 8775296: USS Lexington.



Data Description
 Elevation/Soft Sediment/Substrate/Species
 Modified Braun-Blanquet Rapid Visual Assessment Value



Delineated Seagrass

Survey Boundary

Sample Stations
(10 ft Intervals)

Survey Transects

Modified Braun-Blanquet Rapid
 Visual Assessment Technique
 (50 ft Intervals)

Delineated Live Oyster

0.2 / 0.0 / Sand / H=Shoalweed
 5= many short shoots, 75 - 100% cover
 T=Turtle grass
 T=Turtle grass
 T=Turtle grass
 -0.3 / 0.1 / Sand / T=Turtle grass
 5= many short shoots, 75 - 100% cover
 H=Shoalweed
 H=Shoalweed
 T=Turtle grass
 T=Turtle grass
 T=Turtle grass
 -0.3 / 0.0 / Sand / T=Turtle grass
 4= many short shoots, 50 - 75% cover
 T=Turtle grass
 T=Turtle grass
 T=Turtle grass
 T=Turtle grass
 -0.3 / 0.7 / Sand / T=Turtle grass
 4= many short shoots, 50 - 75% cover
 H=Shoalweed
 H=Shoalweed
 H=Shoalweed
 T=Turtle grass
 -0.2 / 0.8 / Mud / H=Shoalweed
 5= many short shoots, 75 - 100% cover
 0=Not present
 H=Shoalweed

**Aquatic Resource Survey
 Data View Map-SS1
 Corpus Christi Ship Channel Deepening Project
 (SWG-2019-00067)**

Prepared for:
 Port of Corpus Christi Authority
 222 Power Street
 Corpus Christi, Texas 78401

Prepared By:
Triton Environmental Solutions, LLC
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 Rockport, TX 78381








Map Notes:
 For planning and permitting purposes only, not for construction.
 Map Preparation Date: June 17, 2021 (RKW).
 Base Map Source: United States Department of Agriculture (USDA).
 Texas NAIP Imagery, 2020-04-01. Web. 2021-05-16.


Figure 6.
SS2 Aquatic Survey Overview Map



Legend

-  Proposed SS2 BU Placement Area (94.80 Acres)
-  SS2 Open Water (Approx. 82.65 Acres)
-  SS2 Project Study Area (250.60 Acres)
-  Mean High Water (+1.01 Feet NAVD88)
-  High Tide Line (+2.76 Feet NAVD88)

SS2 Bathymetry
Elevation (NAVD88)



1.1
-10.8

Corpus Christi Ship Channel

Mustang Beach Channel

SS2 Open Water
(82.65 Acres)

Proposed SS2 BU Placement Area
(94.80 Acres)

SS2 Project Study Area
(250.60 Acres)

Mustang Island





0 250 500 1,000 1,500 2,000 Feet

Note:
 -No seagrasses or oyster reefs were found within the SS2 Project Study Area.
 -The southern portion of the SS2 PSA was dominated by tidal flats and lacked aquatic resources.

Aquatic Survey Overview Map - SS2
 Corpus Christi Ship Channel Deepening Project
 (SWG-2019-00067)

Prepared By: Triton Environmental Solutions, LLC
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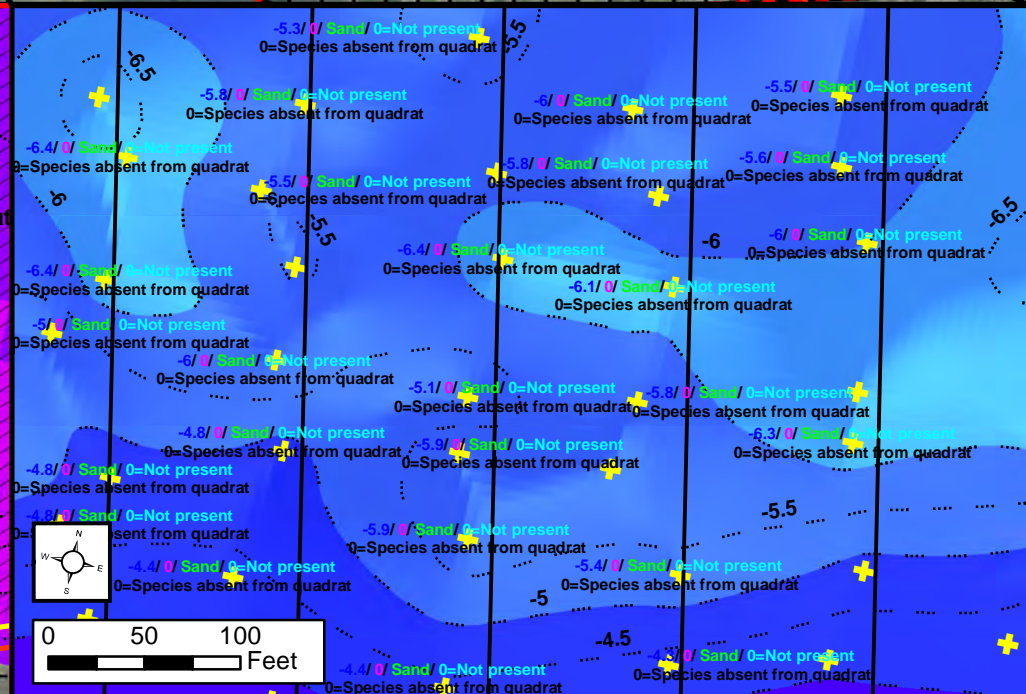
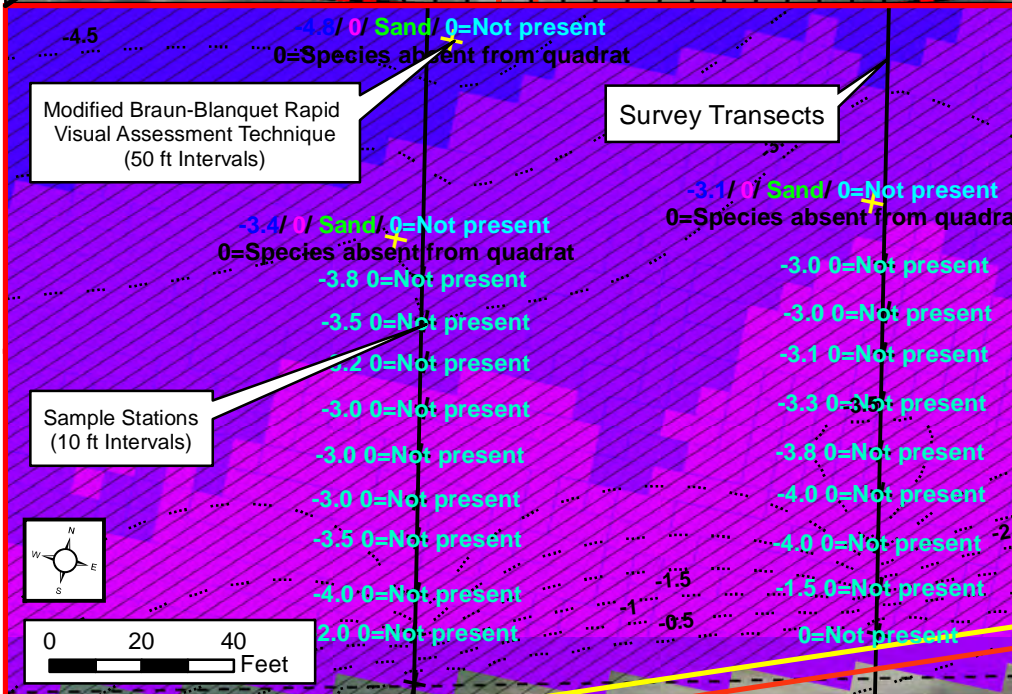
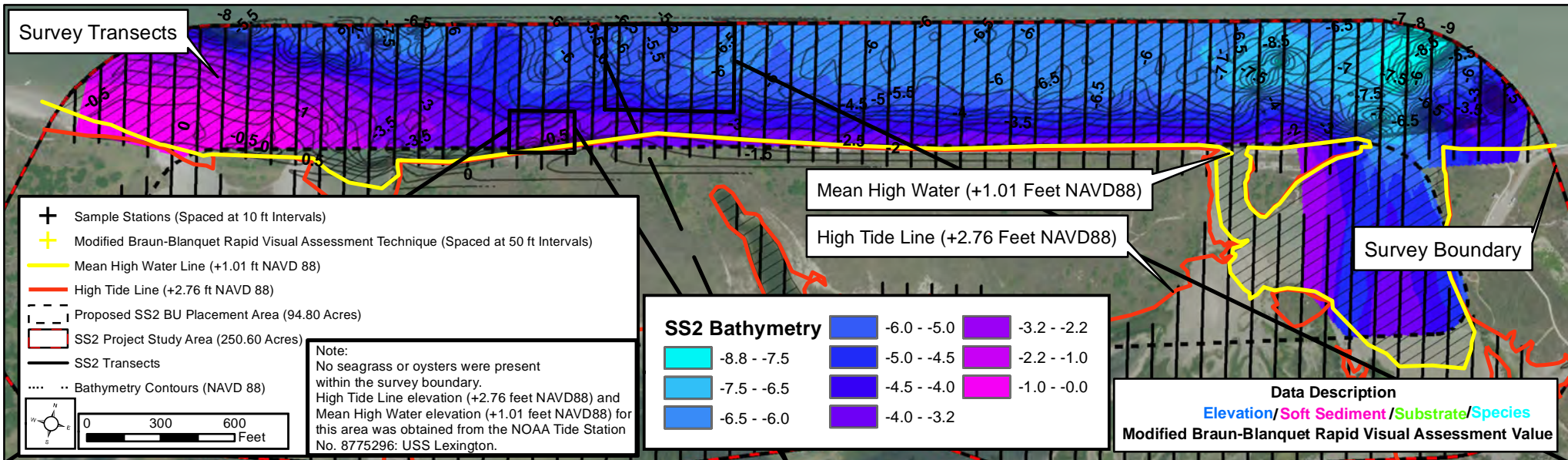


Prepared For: Port of Corpus Christi Authority
 222 Power Street
 Corpus Christi, Texas 78401

Map Notes
 -Base Map Source: Image obtained from TNIRIS; NAIP 2020.
 -BU Placement Area boundary and shapefiles for SS1, SS2, & HI-E were provided by the Port of Corpus Christi Authority.
 -Shapefile for PA4 obtained from the U.S. Army Corps of Engineers.
 -HTL elevation (+2.76 Feet NAVD88) & MHW elevation (+1.01 Feet NAVD88) for this area was obtained from the NOAA Tide Station No. 8775296: USS Lexington.
 -Map preparation date: October 28, 2021 (JW).

Figure 7.
SS2 Aquatic Survey Data View Map





**Aquatic Resources Survey
Data View Map - SS2
Corpus Christi Ship Channel Deepening Project
(SWG-2019-00067)**

Triton Environmental Solutions, LLC
Prepared By: P.O. Box 1755
Rockport, TX 78381

Prepared for: **Port of Corpus Christi Authority**
222 Power Street
Corpus Christi, Texas 78401

Map Notes:
For planning and permitting purposes only, not for construction.
Map Preparation Date: October 29, 2021 (RW).
BaseMap Source: United States Department of Agriculture (USDA). Texas NAIP Imagery, 2018-12-31. Web. 2021-02-22.
All created survey areas on this map were provided by client.

Figure 8.
HI-E Aquatic Survey Overview Map

