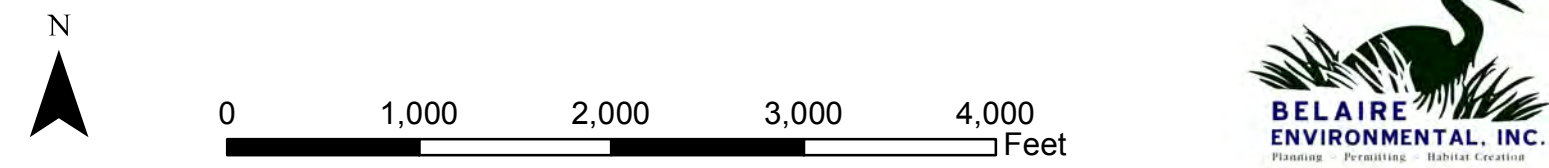


Figure 4a: Data Overview Map Seagrass Survey Area Corps of Engineers GIWW PA63, Galveston County, Texas

Notes:
 -Base map source: 0.5-meter NAIIP Imagery obtained online from TNIRIS; Galveston County, 2009.
 -Prepared by Belaire Environmental, Inc December 12, 2012 (JZG).
 -Elevation data obtained with RTK GPS and provided in NAVD 88 datum.
 -For planning purposes only; not for construction.
 -Seagrass survey performed from November 15 to November 19, 2012.
 -Location of dredge material approximated using Pictometry aerial photography from January 28, 2012, and data taken at observation points in the field.



Data Set Example

Example: -1.4② hxd0.6(0.4/S)

First number (Drk Blue) is recorded elevation (Ft. NAVD88).
 Circled number is Braun-Blanquet score (2).
 h = Post hole grab with shoalgrass
 hd = Post hole grab with dead shoalgrass roots
 x = Post hole grab with bare substrate
 The underlined number (0.6) is the deepest dead root found by measuring the post hole grab
 First number in parenthesis is the soft sediment depth (0.4).
 Last character in parenthesis represents the material found in the post hole grab (S=sand).

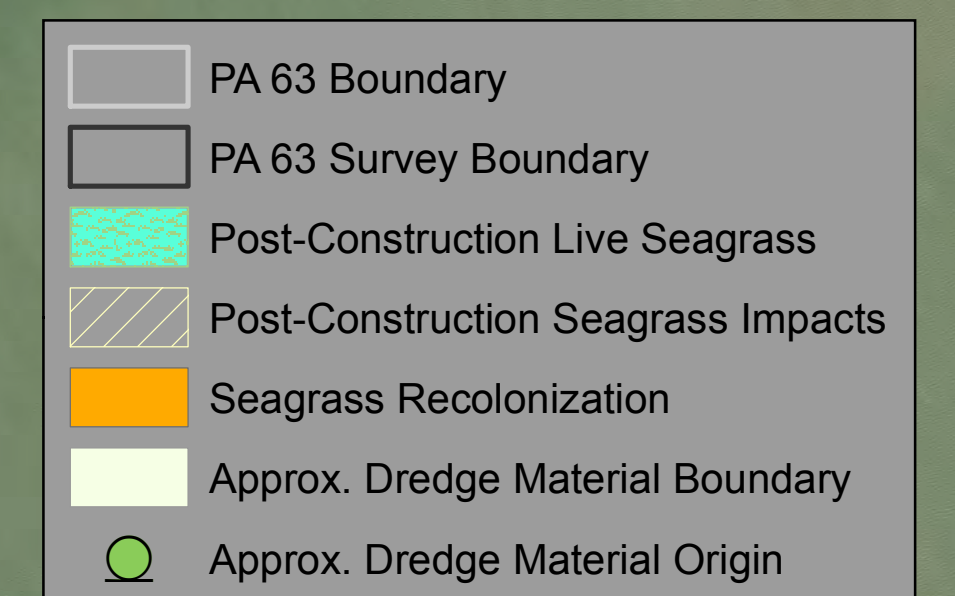
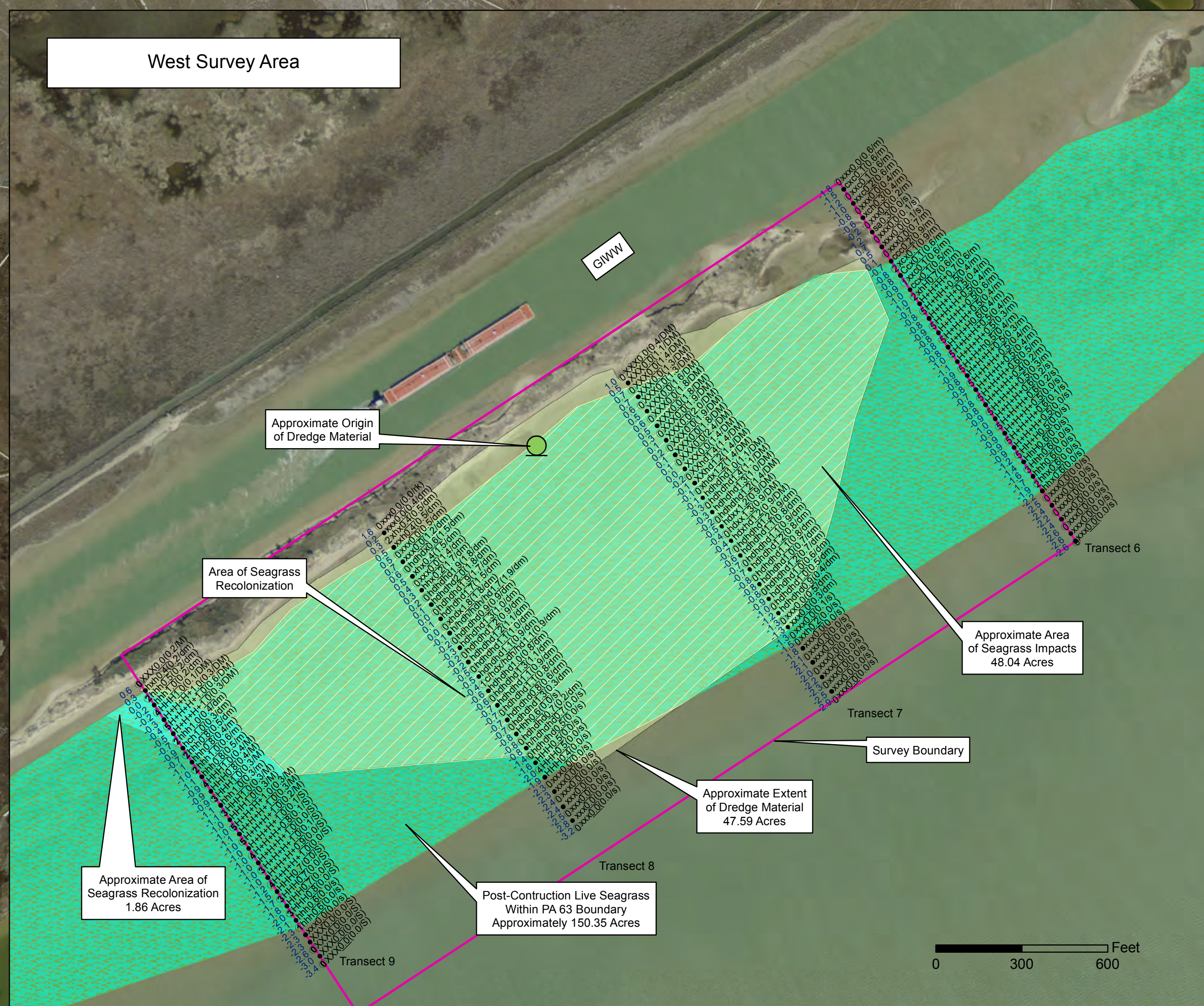
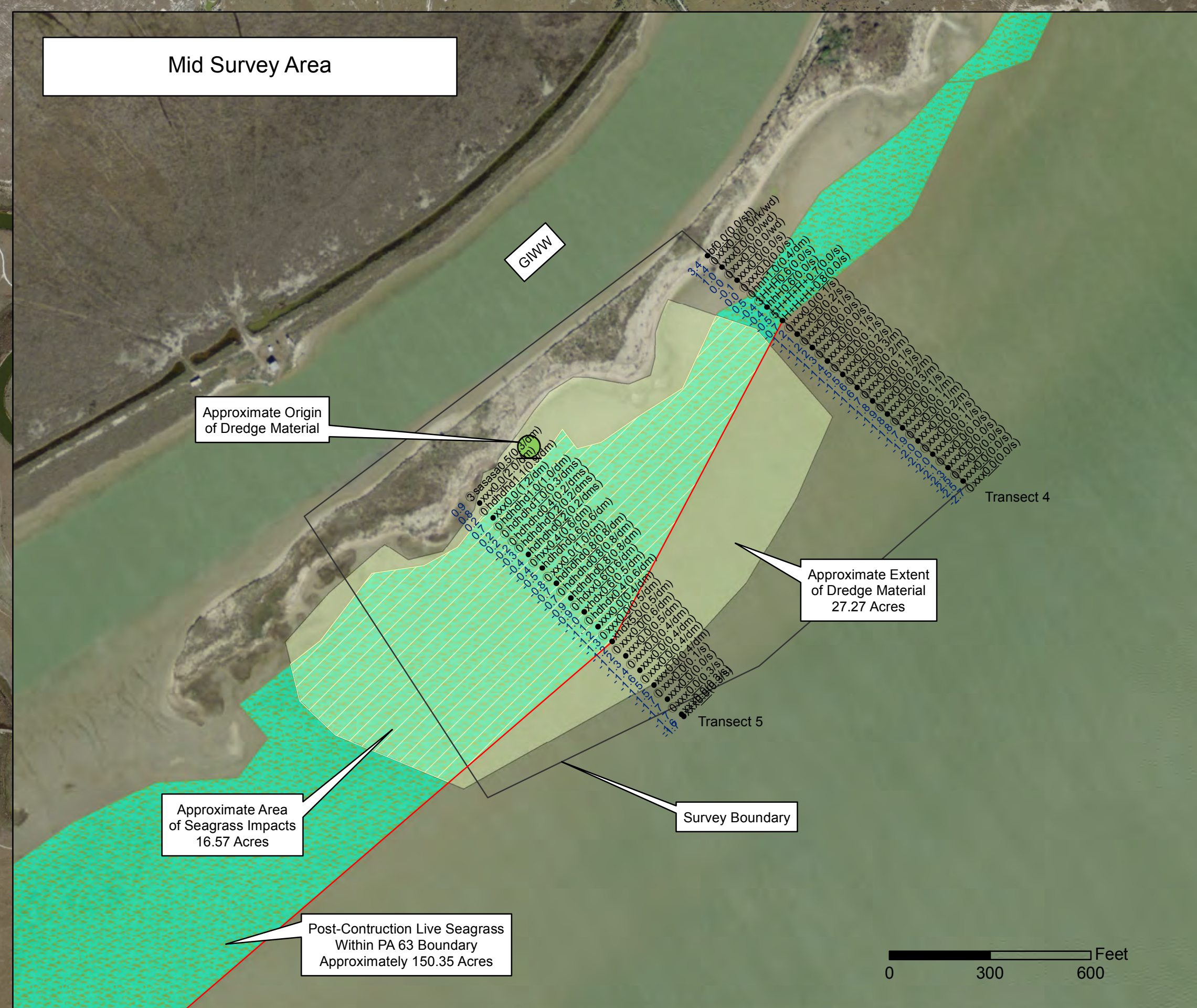
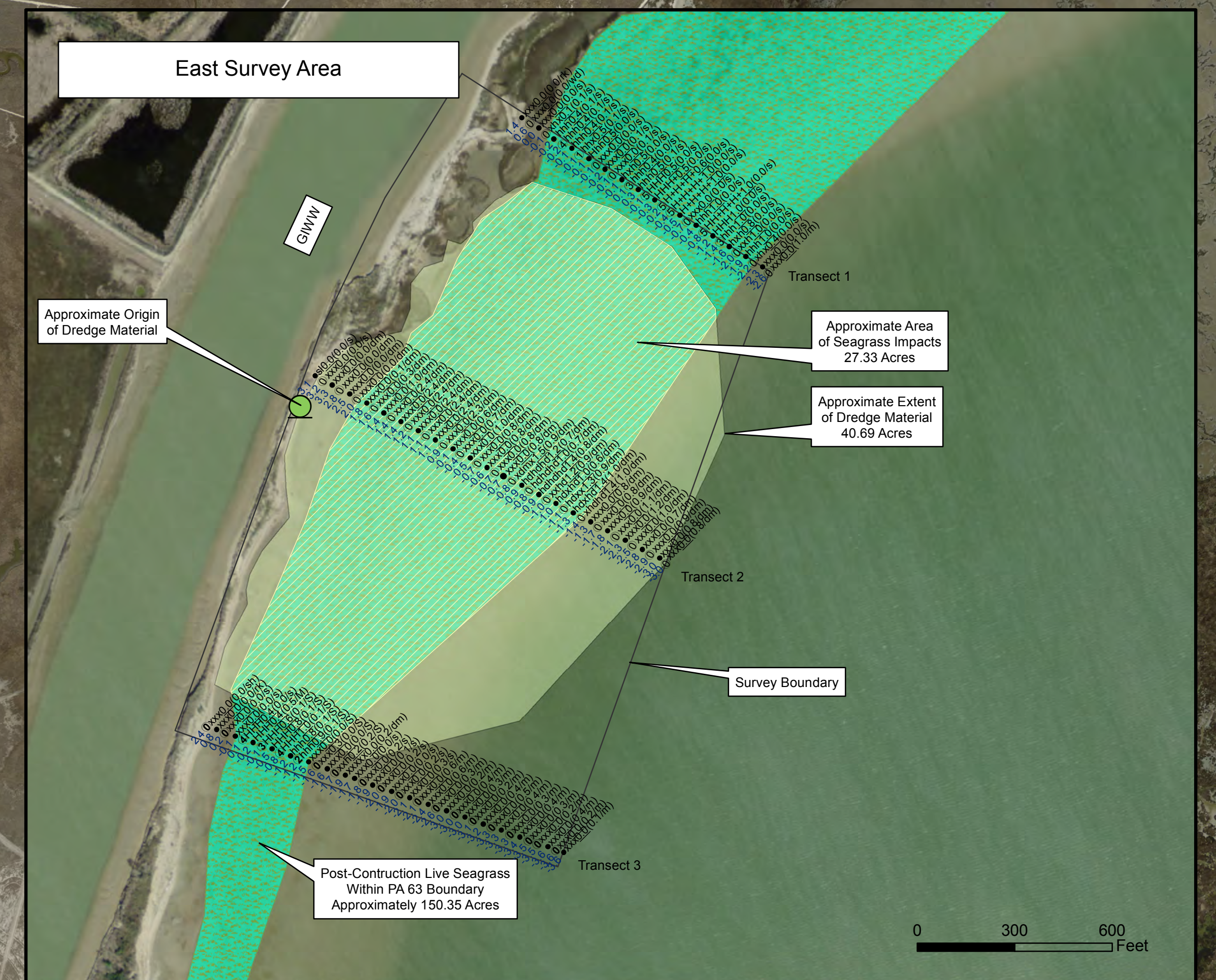
Braun-Blanquet
 -Every other observation point (i.e., 20-m intervals) was visually assessed using a 0.25-meter quadrat and given a Braun-Blanquet score (0-5).
 -Braun-Blanquet scores are shown in circles on the location of the observation point.

Belaire Environmental, Inc. Data Key

Seagrass Species:
 h= Shoal grass (*Halodule wrightii*)
 c= Clover grass (*Halophila englemanni*)

Substrate:
 s= Sand
 m= Mud
 rk= Rock
 o= Oyster
 dm= Dredge Material

Dredge Material Key:
 hd= Presence of Seagrass Roots & Rhizomes (dead *Halodule*)



Seagrass Data Key Braun-Blanquet Abundance Scores

- 0= Species absent from quadrat
- 0.1=Species represented by a solitary short shoot, <5% cover
- 0.5=Species represented by a few (<5%) short shoots, <5% cover
- 1= Species represented by many (>5%) short shoots, <5% cover
- 2= Species represented by many (>5%) short shoots, 5%-25% cover
- 3= Species represented by many (>5%) short shoots, 25%-50% cover
- 4= Species represented by many (>5%) short shoots, 50%-75% cover
- 5= Species represented by many (>5%) short shoots, 75%-100% cover