

## LOG OF BORING AND TEST RESULTS

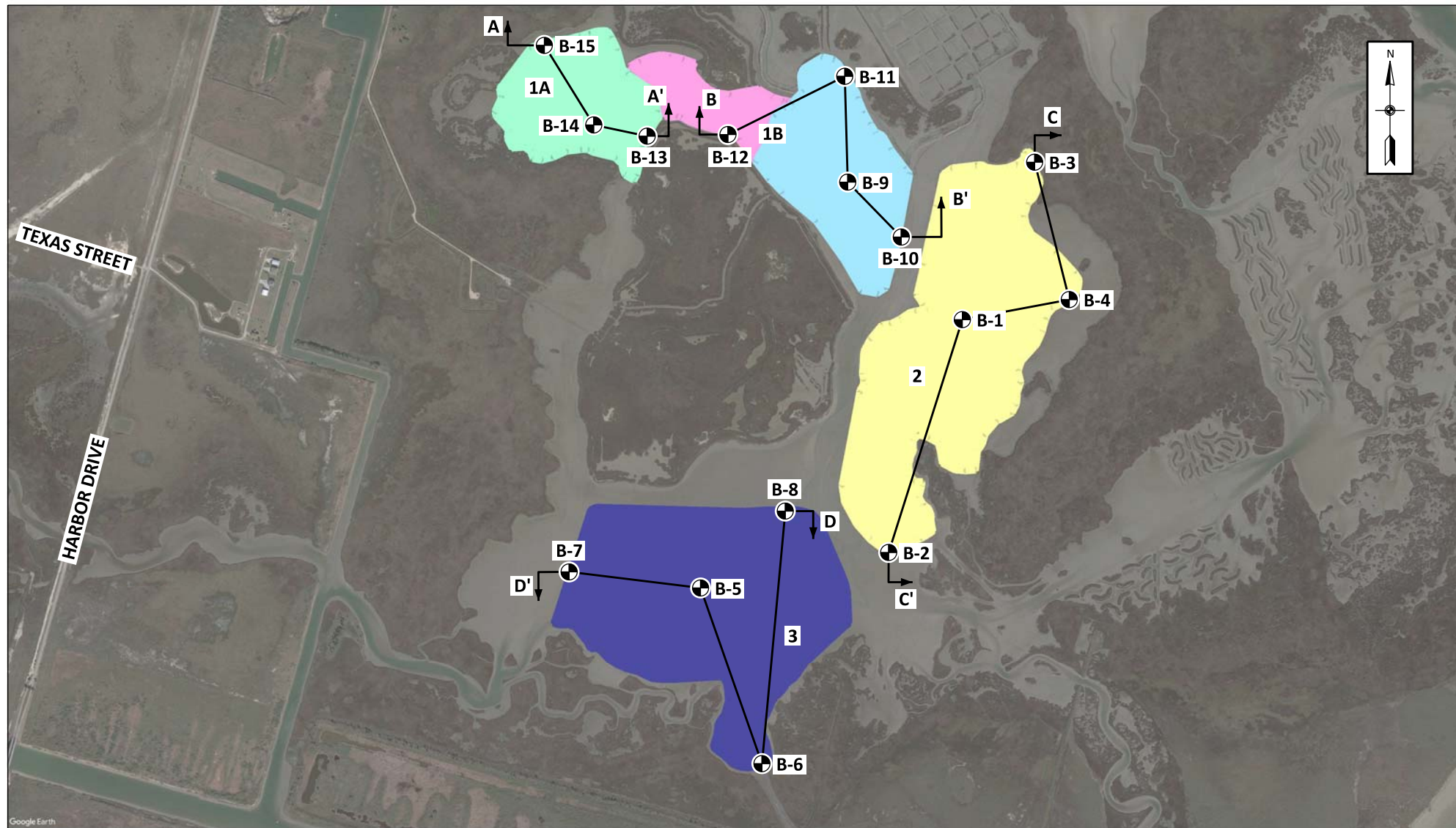
### Boring: B-1

Project No: H0048  
Date: 07/16/2022  
Latitude: 29.31429°  
Longitude: -94.96048°

Water Depth: See Text  
Total Depth: 40.0 ft

Scale in Feet	PP	SPT	SPLR	Symbol	Visual Classification	USC	Sample Number	Depth in Feet	Water Content %	Density		Shear Tests			Atterberg Limits			Other Tests
										Dry pcf	Wet pcf	Type	φ	C psf	LL	PL	PI	
0	0.25				Moist, soft tan & gray FAT CLAY	CH	1A	0	41									
					w/trace of fine sand pockets		1B	1	51									
	0.25						2A	2	53	71	107	OB	0	201				
							2B	3	53									
5	0.25						3A	4	50									
							3B	5	48									
	0.50				Moist, medium stiff to stiff tan & gray FAT CLAY w/trace of fine sand pockets	CH	4A	6	35						72	18	54	
							4B	7	33	89	118	OB	0	701				
	2.00						5A	8	34									
10	1.00						5B	9	29									
							6A	10	40									
	1.00						6B	11	34	89	119	OB	0	215				
							7A	12	42									
	1.00						7B	13	30									
15	0.50				Moist, soft to medium stiff reddish-tan & reddish-brown FAT CLAY	CH	8A	14	46									
							8B	15	51									
	0.50						9A	16	32	90	119	OB	0	423	77	22	55	
							9B	17	23									
	1.00				Moist, stiff reddish-tan & gray fine SANDY LEAN CLAY	CL	10A	18	28									
20							10B	19	28									
					Moist, stiff reddish-tan & reddish-brown FAT CLAY w/trace of fine sand pockets	CH												
	1.00						11A	23	29									
25							11B	24	29	94	121							
	1.00						12A	28	31									
30							12B	29	30						73	19	54	
					Moist, stiff gray, reddish-tan, & brown LEAN CLAY w/trace of fine sand pockets	CL												
	1.00						13A	33	24									
35							13B	34	24	102	127							
	1.00						14A	38	32									
40							14B	39	25									
45																		
50																		

NOTES: Boring B-1 was drilled in 6 in. of water.



SATELLITE IMAGERY DATED: JANUARY 2022

NOT TO SCALE

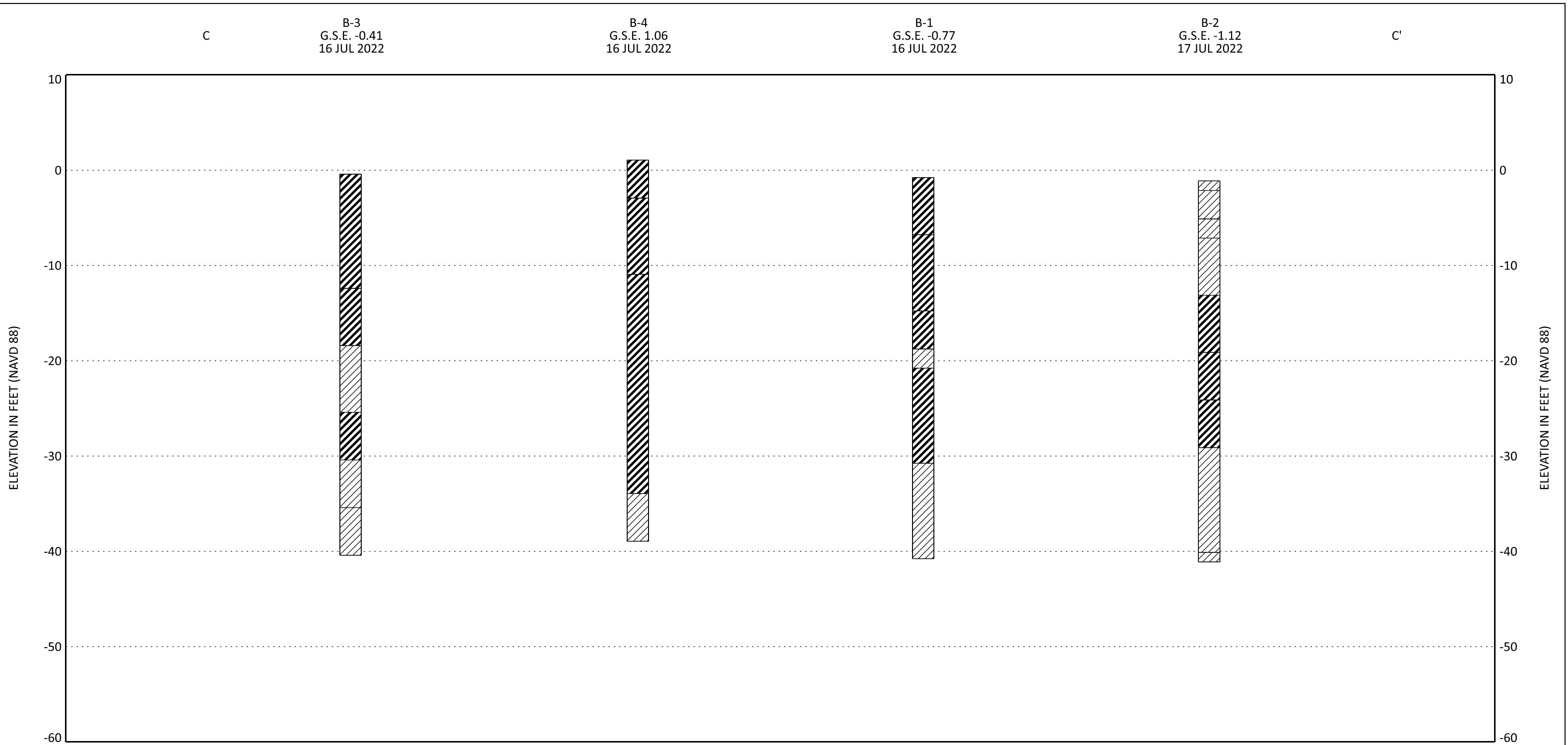
⊙ DENOTES APPROXIMATE LOCATIONS OF SOIL BORINGS DRILLED BETWEEN 11 AND 18 JULY 2022

# BORING LOCATION PLAN

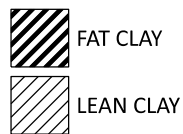
PHASE 1  
DUCKS UNLIMITED, INC.  
PIERCE MARSH BENEFICIAL USE MARSH CREATION  
NORTH OF WEST BAY NEAR GALVESTON ISLAND  
GALVESTON COUNTY, TEXAS  
DU CONTRACT NO. TX-0-2  
DU PROJECT NO. TX-194-4  
DU TASK ORDER NO. 1



DRAWN BY: S.T.S.	JOB NO.: H0048
CHECKED BY: H.C.W.	DATE: 15 AUG 2022
CADD FILE: LOCATION PLAN.DGN	FIGURE 2



## BORING MATERIAL GRAPHICS



NOTE:

1. G.S.E. = GROUND SURFACE ELEVATION

SUBSURFACE SOIL PROFILE  
MCA-2  
PHASE 1  
DUCKS UNLIMITED, INC.  
PIERCE MARSH BENEFICIAL USE MARSH CREATION  
NORTH OF WEST BAY NEAR GALVESTON ISLAND  
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DRAWN BY: S.T.S.

JOB NO.: H0048

CHECKED BY: H.C.W.

DATE: 23 AUG 2022







CADD FILE:  
PROFILE.DGN

FIGURE 3  
(SHEET 3 OF 4)

PP Pocket penetrometer: Resistance in tons per square foot

SPT Standard Penetration Test: Number of blows of a 140-lb hammer dropped 30 inches required to drive 2-in. O.D., 1.4-in. I.D. sampler a distance of 1 foot into the soil after first seating it 6 inches. Values shown have not been corrected.

SPLR Type of Sampling  Shelby  SPT  Auger  Vibracore  Geoprobe  No sample

SYMBOL Clay  Silt  Sand  Peat/Humus  Shells  Stone/Gravel   
Predominant type shown heavy; modifying type shown light

USC Unified Soil Classification

DENSITY Unit weight in pounds per cubic foot

#### SHEAR TESTS

##### TYPE

UC Unconfined compression shear

OB Unconsolidated undrained triaxial compression shear on one specimen confined at the approximate overburden pressure

UU Unconsolidated undrained triaxial compression shear

$\phi$  Angle of internal friction in degrees

c Cohesion in pounds per square foot

#### ATTERBERG LIMITS

LL Liquid Limit

PL Plastic Limit

PI Plasticity Index

#### OTHER TESTS

CON Consolidation

-#200 Percent passing a U.S. No. 200 sieve

SV Particle size distribution (sieve only)

PD Particle size distribution (sieve and hydrometer)

k Coefficient of permeability in centimeters per second

SP Swelling pressure in pounds per square foot

Other laboratory test results reported on separate figures

#### GENERAL NOTES

- (1) If a ground water depth is shown on the boring log, these observations were made at the time of drilling and were measured below the existing ground surface. These observations are shown on the boring logs. However, ground water levels may vary due to seasonal fluctuations and other factors. If important to construction, the depth to ground water should be determined by those persons responsible for construction immediately prior to beginning work.
- (2) While the individual logs of borings are considered to be representative of subsurface conditions at their respective locations on the dates shown, it is not warranted that they are representative of subsurface conditions at other locations and times.