

## LOG OF BORING AND TEST RESULTS

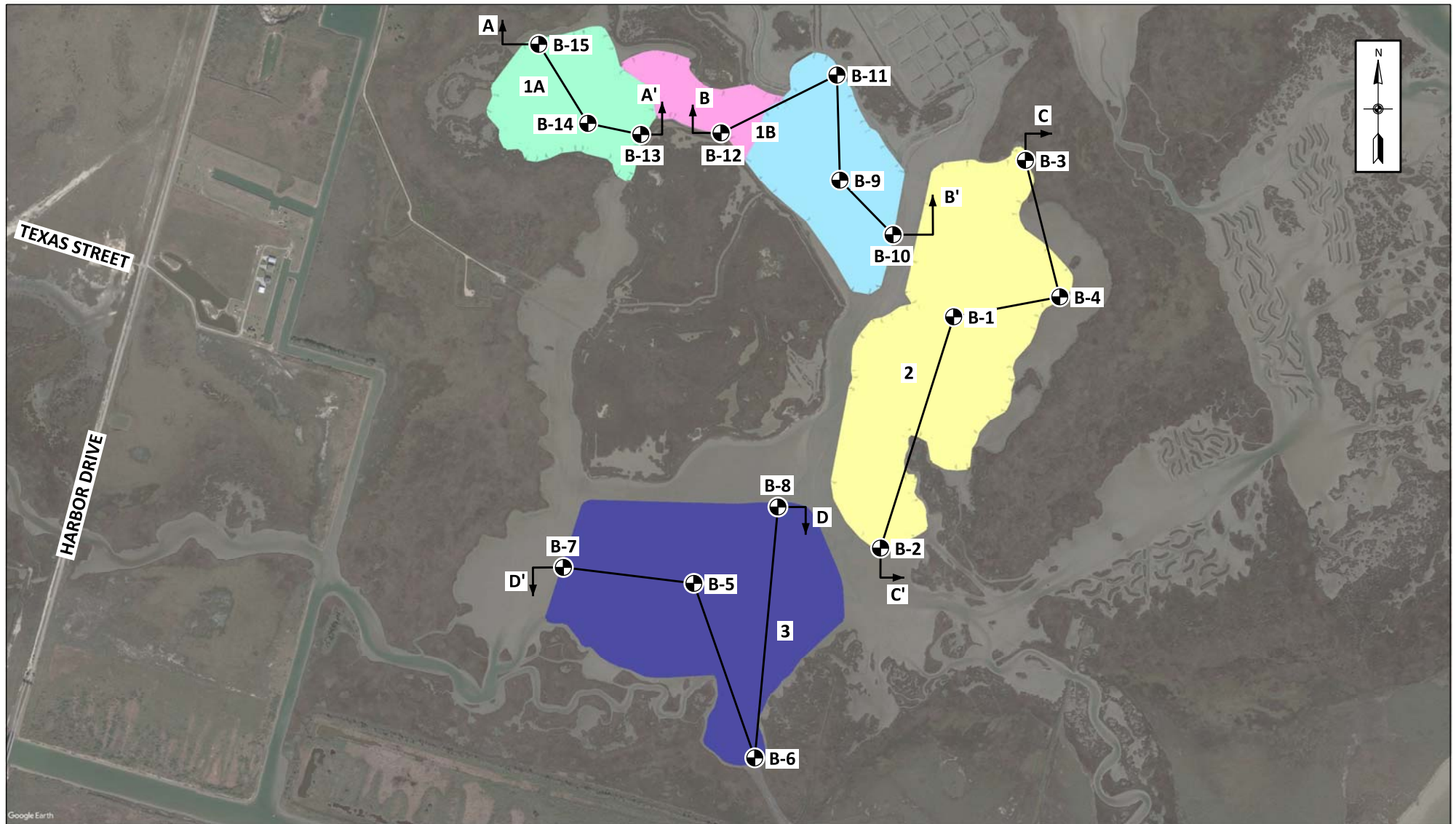
**Boring: B-14**

**Project No:** H0048  
**Date:** 07/12/2022  
**Latitude:** 29.31915°  
**Longitude:** -94.97110°

**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					Moist, soft gray LEAN CLAY	CL	1A	0	42									
	1.00				Moist, medium stiff to stiff gray & tan FAT CLAY w/trace of concretions	CH	1B	1	38									
	1.00						2A	2	37	85	116	OB	0	532				
							2B	3										
5	1.00				Moist, very stiff gray & tan LEAN CLAY w/organic matter	CL	3A	4	27									
	1.00				Moist, stiff gray & tan FAT CLAY w/trace of organic matter	CH	3B	5	26									
	1.00						4A	6	33									
	1.00				Moist, stiff gray & tan LEAN CLAY	CL	4B	7	22						60	18	42	
	2.00				Moist, stiff gray & tan FAT CLAY w/trace of concretions	CH	5A	8	27									
10	1.00				Moist, stiff gray & tan FAT CLAY w/trace of concretions	CL	5B	9	31	92	120	OB	0	1264				
	1.00				Moist, stiff reddish-brown LEAN CLAY	CH	6A	10	38									
	1.00				Moist, stiff reddish-brown & gray FAT CLAY w/trace of concretions	CL	6B	11										
	1.00				Wet, very soft reddish-brown LEAN CLAY	CH	7A	12	33									
15	1.00				Moist, very stiff to extremely stiff red & brown FAT CLAY w/trace of concretions	CH	7B	13	30									
	1.00				Moist, stiff to very stiff red & brown FAT CLAY w/trace of concretions	CH	8A	14	30									
	1.00						8B	15	27	97	124	OB	0	1688	70	20	50	
	1.00						9A	16	32									
20	1.00						9B	17	28									
							10A	18	24									
							10B	19	28									
25	1.00				Moist, soft to medium stiff tan & gray LEAN CLAY w/trace of organic matter	CL	11A	23	30									
							11B	24	26	99	125	OB	0	752				
30	0.50				Moist, compact tan & gray SILT w/few clay pockets & trace of clay lenses	ML	12A	28	32									
					Moist, soft brown & tan LEAN CLAY w/organic matter	CL	12B	29	28									
35	0.50						13A	33	32									
							13B	34	31	91	119	OB	0	462				
40	0.50				Moist, medium stiff gray & tan LEAN CLAY w/trace of silt pockets & lenses, & trace of concretions	CL	14A	38	31									
							14B	39	30	90	117	OB	0	640				
45																		
50																		

NOTES: Boring 14 was drilled in 1 ft. 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



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.