

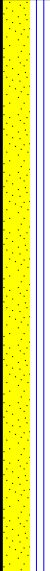
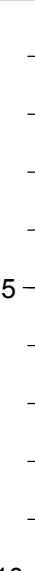
BORING LOG NO. B-7

Page 1 of 1

PROJECT: Galveston Island Sand Source Investigation

CLIENT: Atkins North America, Inc.
Houston, Texas

SITE: Sunset Cove Property
Galveston, Texas

GRAPHIC LOG	LOCATION See Exhibit A-5 Latitude: 29.1455° Longitude: -95.0377°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	STRENGTH TEST			WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
						TEST TYPE	COMPRESSIVE STRENGTH (tsf)	STRAIN (%)				
	POORLY GRADED SAND WITH SILT (SP-SM) , tan, loose to dense - gray below 4 feet											
						4-4-5 N=9						
						5-9-12 N=21			15			10
						9-15-18 N=33						
						12-14-16 N=30						
	Boring Terminated at 10 Feet	10										

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Rope and Cathead

Advancement Method:
Dry augered to 10 feet.

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

Notes:

WATER LEVEL OBSERVATIONS

-  8 ft While drilling
-  7 ft After 5 minutes
-  4.5 ft After 15 minutes

Terracon
551 League City Pkwy Ste F
League City, TX

Boring Started: 09-27-2017

Drill Rig: Truck

Project No.: 91175091

Boring Completed: 09-27-2017

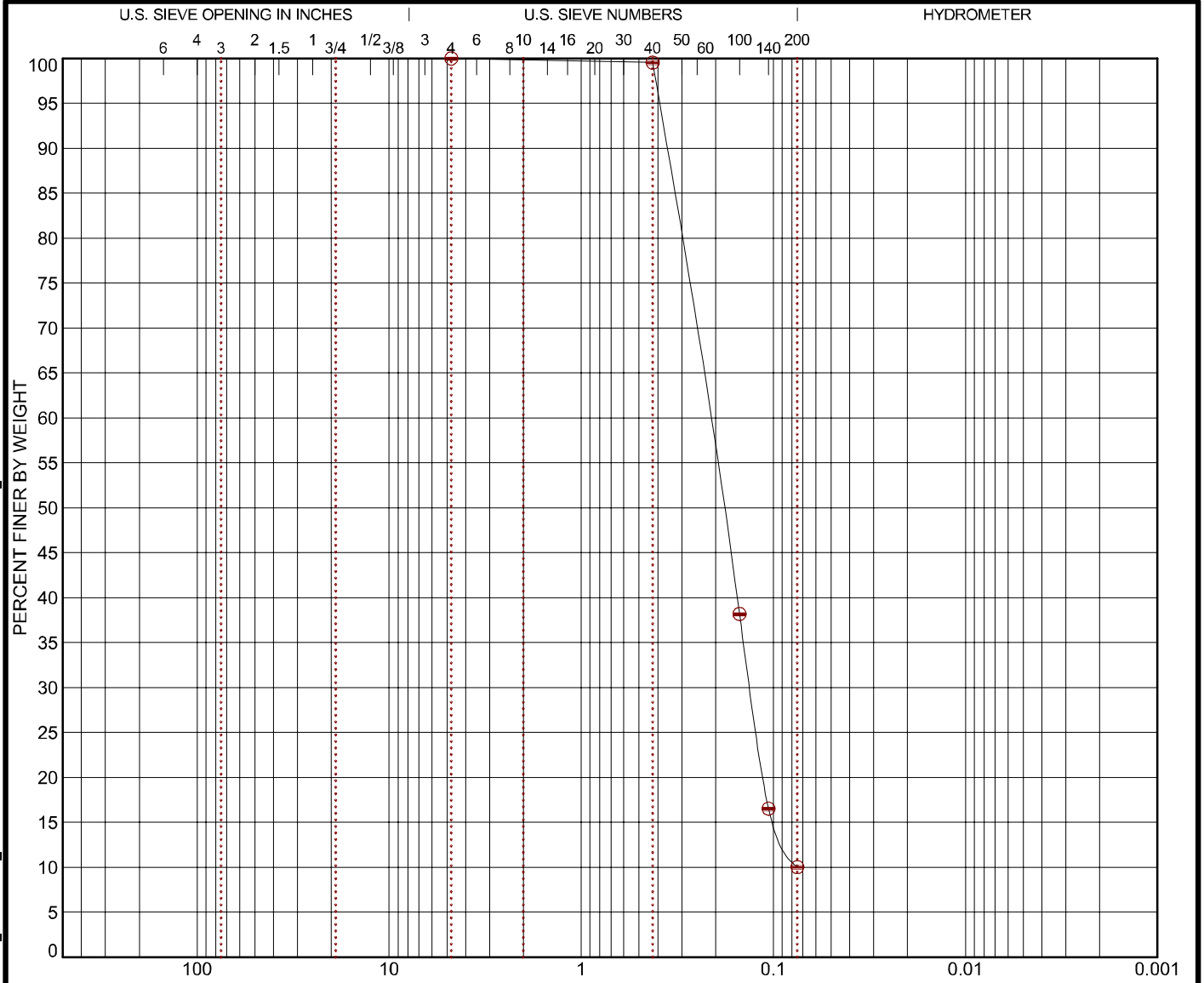
Driller: Van and Sons

Exhibit: A-12

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. 91175091_ATKINS_NORTH_GRAINSIZE_TEMP_91175091_GALVESTON_ISLAND.GPJ TERRACON_DATATEMPLATE.GDT 11/6/17



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification				WC (%)	LL	PL	PI	Cc	Cu
⊖ B-7	4.5 - 6	POORLY GRADED SAND WITH SILT (SP-SM)				15				1.06	2.90
Boring ID	Depth	D ₁₀₀	D ₈₅	D ₅₀	D ₁₀	%Gravel	%Sand	%Silt	%Fines	%Clay	
⊖ B-7	4.5 - 6	4.75	0.332	0.183		0.0	90.0		10.0		

PROJECT: Galveston Island Sand Source Investigation	 551 League City Pkwy Ste F League City, TX	PROJECT NUMBER: 91175091
SITE: Sunset Cove Property Galveston, Texas		CLIENT: Atkins North America, Inc. Houston, Texas
		EXHIBIT: A-29