

BORING LOG NO. B-2

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PROJECT: Galveston Island Sand Source Investigation

CLIENT: Atkins North America, Inc.
Houston, Texas

SITE: Stavanger Property
Galveston, Texas

GRAPHIC LOG	LOCATION See Exhibit A-4 Latitude: 29.1189° Longitude: -95.0801°	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 (%)				
DEPTH												
	SILTY SAND (SM) , tan, loose to dense - with scattered roots 0 to 2 feet				0.25 (HP)							
	- gray 2 to 6 feet				4-5-6 N=11							
	- tan 6 to 10 feet				4-6-9 N=15				24			13
					6-8-14 N=22							
					8-13-19 N=32							
10.0	POORLY GRADED SAND (SP) , gray, medium dense to dense	10			8-14-15 N=29				27			3
					9-15-17 N=32							
					5-7-9 N=16							
					5-6-14 N=20							
					5-9-15 N=24							
20.0	Boring Terminated at 20 Feet	20										

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

Hammer Type: Rope and Cathead

Advancement Method:
Dry augered to 6 feet; wet rotary thereafter.

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

Notes:

WATER LEVEL OBSERVATIONS

- 6 ft While drilling
- 6 ft Caved-in

Terracon
551 League City Pkwy Ste F
League City, TX

Boring Started: 09-29-2017

Drill Rig: ATV

Project No.: 91175091

Boring Completed: 09-29-2017

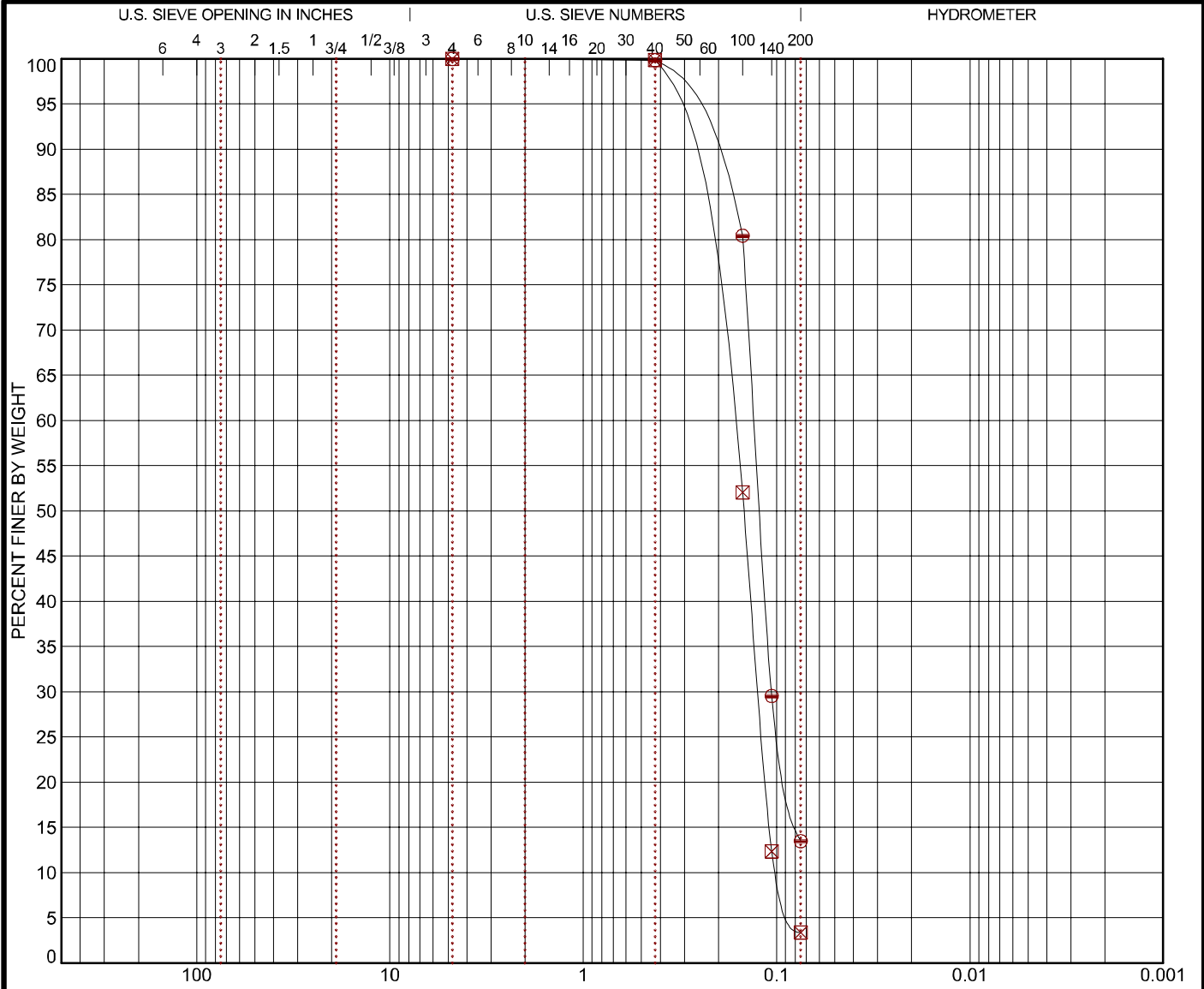
Driller: Van and Sons

Exhibit: A-8

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 91175091 GALVESTON ISLAND REDO.GPJ TERRACON_DATATEMPLATE.GDT 11/2/17

GRAIN SIZE DISTRIBUTION

ASTM D422 / ASTM C136



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring ID	Depth	USCS Classification				WC (%)	LL	PL	PI	Cc	Cu
⊖ B-2	4.5 - 6	SILTY SAND (SM)				24					
⊠ B-2	10.5 - 12	POORLY GRADED SAND (SP)				27				0.89	1.84
Boring ID	Depth	D ₁₀₀	D ₈₅	D ₅₀	D ₁₀	%Gravel	%Sand	%Silt	%Fines	%Clay	
⊖ B-2	4.5 - 6	4.75	0.192	0.122		0.0	86.5		13.5		
⊠ B-2	10.5 - 12	4.75	0.307	0.147	0.097	0.0	96.6		3.4		

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EXHIBIT: A-25