

Page 1 of 1

**CLIENT: Atkins North America, Inc.
Houston, Texas**

SITE: Sullivan Ranch Property
Galveston, Texas

[illegible]

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

Hammer Type: Rope and Cathead

Advancement Method:
Dry augered to 8 feet; wet rotary thereafter.

Abandonment Method:
Boring backfilled with soil cuttings upon completion.

Notes:

WATER LEVEL OBSERVATIONS

	8 ft While drilling
	7 ft After 5 minutes
	6 ft After 15 minutes

Terracon
551 League City Pkwy Ste F
League City, TX

Boring Started: 09-27-2017

Boring Completed: 09-27-2017

Drill Rig: ATV

Driller: Van and Sons

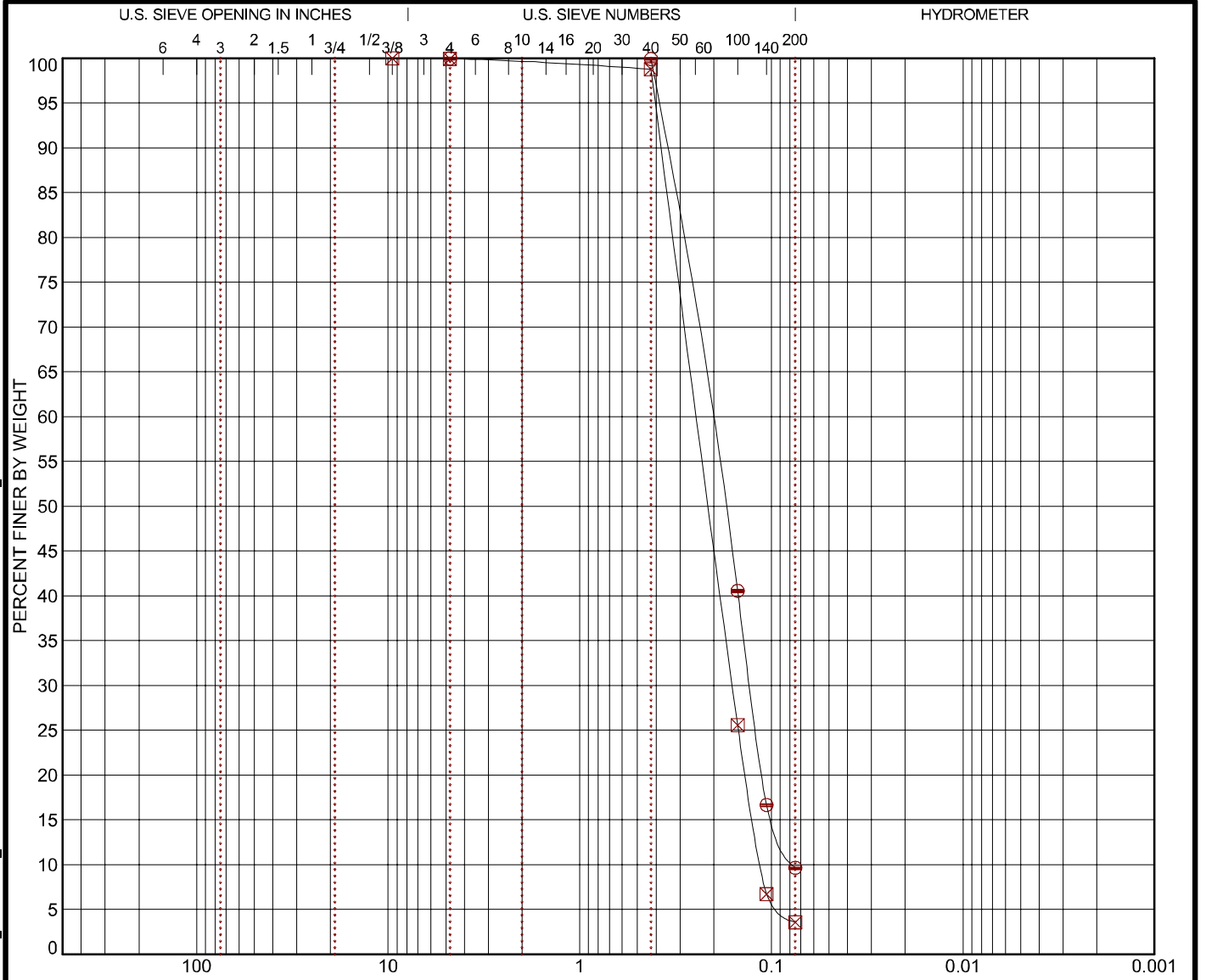
Project No.: 91175091

Exhibit: A-19

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-14	2.5 - 4	POORLY GRADED SAND WITH SILT (SP-SM)				22				1.03	2.77
⊗ B-14	8.5 - 10	POORLY GRADED SAND (SP)				22				0.93	2.17
Boring ID	Depth	D ₁₀₀	D ₈₅	D ₅₀	D ₁₀	%Gravel	%Sand	%Silt	%Fines	%Clay	
⊖ B-14	2.5 - 4	4.75	0.327	0.177	0.076	0.0	90.3		9.7		
⊗ B-14	8.5 - 10	9.5	0.349	0.212	0.113	0.1	96.4		3.6		

PROJECT: Galveston Island Sand Source Investigation	 551 League City Pkwy Ste F League City, TX	PROJECT NUMBER: 91175091
SITE: Sullivan Ranch Property Galveston, Texas		CLIENT: Atkins North America, Inc. Houston, Texas
		EXHIBIT: A-36