

RS-3



5400 Glenwood Avenue, Suite 300
Raleigh, NC 27612

ROTONSONIC BORING LOG

LR_RS- 3

Client: SFWM District
Project Location: Okeechobee, FL

Project Name: LOFT - Lakeside Ranch
Project Number: 30327-51606

Drilling Contractor: Boart Longyear
Drilling Method/Rig: Rotary Sonic/Mini Sonic
Drillers: Jason Giwing
Drilling Date: Start: 5-22-06 **End:** 5-23-06
Borehole Coordinates:
N 1,015,653.94 E 765,471.75

Surface Elevation (ft-NAVD 1988): 18.6
Total Depth (ft.): 150
Depth to Groundwater Level (ft. BLS): 4.1 (5/30/06)*
Abandonment Method: Grouted to ground surface
Field Screening Instrument: None
Logged By: J.M. Mills

Sample Type	Sample Number	Sample Recovery (Inches)	Elev. Depth (ft.)	Graphic Log	ASTM Group Symbol	Material Description	Moisture content (%)	%gravel/%sand	%fines	Liquid Limit/ Plasticity Index
			18.6							
RS	S-1	6	0		SP	Grass cover and sod about 3 to 4-inch thick. Poorly Graded SAND, fine, dry, light gray; quartz sand. Grades to white.				
			13.6		SP-SM	Poorly graded SAND with Silt, fine, dry, dark brown. Grades to dark grayish brown.				
			8.6		SM	Silty SAND, fine, wet, light olive brown; quartz sand.				
RS	S-2	6	10							
			3.6		OL	Organic Silty CLAY, black.				
			15		SM	Silty SAND, fine, wet, light yellowish brown; mostly carbonate sand, some cemented sand nodules; carbonate silt.				
RS	S-3	6								
			-1.4				31.2		27.0	
RS	S-4	6								

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EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
AS - Auger/Grab Sample
CS - California Sampler
BX - 1.5" Rock Core
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

4-in. core barrel/ 6-in. temporary casing.
RS - Rotosonic/Grab Sample.
* = The groundwater depth reading was taken from the adjacent piezometer; PZ-9 on the date shown. The depth to groundwater is expected to fluctuate with time.

Reviewed by:

Date:



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			-1.4 20		SM					
					SP-SM	Poorly Graded SAND with Silt, fine, wet, light brownish gray; quartz sand; trace shell fragments.				
RS	S-5	6	-6.4 25		SM	Silty SAND, fine, wet, grayish brown; few shell fragments; quartz sand; calcareous silt.	22.3		15.6	
RS	S-6	6	-11.4 30		SP-SM	Grades to Poorly Graded SAND with Silt.	22.4		29.3	
RS	S-7	6	-16.4 35		SP-SM	Poorly Graded SAND with Silt, fine to medium, wet, greenish gray; quartz sand; little shell fragments.				
RS	S-8	6	-21.4 40			Grades to light greenish gray, some shell fragments.	19.3		7.9	
RS	S-9	6	-26.4 45							
RS	S-10	6	-31.4 50		SM	Silty SAND, fine to medium, wet, greenish gray; some shells fragments.	20.0		14.9	
RS	S-11	6	-36.4 55							
RS	S-12	6	-41.4			Increased silt content.				

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			-41.4 60		SM						
RS	S-13	6	-46.4 65		Decreased silt content; shell fragments (0.5 to 1.0 mm in size).						
RS	S-14	6	-51.4 70				20.1		20.7		
RS	S-15	6	-56.4 75								
					SM	Silty SAND, fine to medium, wet, greenish gray; few shell fragments.					
RS	S-16	6	-61.4 80			LIMESTONE, fine to medium, wet, greenish gray to gray; trace shell fragments; severely weathered; sandy carbonate; poorly consolidated silt; trace cemented calcite.	28.4		39.2	NP	
RS	S-17	6	-66.4 85				22.1		12.5		
					SM	Silty SAND, fine to medium, wet, greenish gray; carbonate sand; strong reaction with dilute HCl.					
RS	S-18	6	-71.4 90								
RS	S-19	6	-76.4 95			SM/ML	Silty SAND, fine, wet, greenish gray; trace shell fragments; carbonate sand, trace quartz sand, phosphatic sand; carbonate silt, massive.				
RS	S-20	6	-81.4					28.1		49.2	26/10

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			-81.4 100		SM/ML	Increased carbonate content.				
RS	S-21	6	-86.4 105							
RS	S-22	6	-91.4 110		SM	Silty SAND, fine to medium, wet, light greenish gray; carbonate sand, few cemented sand nodules to weathered limestone; calcareous silt.				
RS	S-23	6	-96.4 115			LIMESTONE, medium, wet, light greenish gray; severely weathered, poorly indurated pack stone; calcareous silt.	28.1		18.3	
RS	S-24	6	-101.4 120		SM/ML	Silty SAND, fine, wet, light greenish gray; carbonate, trace quartz sand, phosphate; trace cemented nodules (calcite cement).				
RS	S-25	6	-106.4 125			Decreased carbonate content.	30.9		42.4	
RS	S-26	6	-111.4 130			Grades to dark greenish gray; weak to strong reaction with dilute HCl.				
RS	S-27	6	-116.4 135		SM	Silty SAND, wet, dark greenish gray.				
RS	S-28	6	-121.4				28.6		16.9	29/2

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			-121.4 140		SM	Increased sand and carbonate content, strong reaction with dilute HCl.						
RS	S-29	6										
			-126.4 145			Decreased carbonate content, weak reaction with dilute HCl.						
RS	S-30	6										
			-131.4 150			Boring terminated at 150 ft-bl.						
			-136.4 155									
			-141.4 160									
			-146.4 165									
			-151.4 170									
			-156.4 175									
			-161.4									

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