

**RS-2**



5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612

# ROTONSONIC BORING LOG

## LR\_RS- 2

**Client:** SFWM District  
**Project Location:** Okeechobee, FL

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

**Drilling Contractor:** Boart Longyear

**Surface Elevation (ft-NAVD 1988):** 15.1

**Drilling Method/Rig:** Sonic Drilling/Gus Pech Sonic Drill Rig

**Total Depth (ft.):** 150

**Drillers:** Mark Beermeyer

**Depth to Groundwater Level (ft. BLS):** 2.9 (5/30/06)\*

**Drilling Date: Start:** 5-31-06 **End:** 5-31-06

**Abandonment Method:** Grouted to ground surface

**Borehole Coordinates:**

**Field Screening Instrument:** None

N 1,007,044.82 E 767,559.22

**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
			15.1							
			0		OL/OH SP	ORGANIC SOIL with Sand, fine, moist, black; quartz sand.				
						Poorly Graded SAND, fine, moist to wet, very dark gray; quartz sand.				
						Grades to dark grayish brown.				
RS	S-1	6	10.1		SM	Poorly Graded SAND, fine, wet, gray; few shell fragments.	27.3		4.9	
			5			Silty SAND, fine, wet, light olive gray; quartz sand.				
					LS SP-SM	LIMESTONE, light olive gray; friable.				
						Poorly Graded SAND with Silt, fine, wet, light olive gray; quartz sand; some shell fragments (up to 50 mm in size); medium dilatancy.				
RS	S-2	6	5.1							
			10							
RS	S-3	6	0.1		SM	Silty SAND, fine, wet, gray; quartz sand; some shell fragments (up to 30 mm in size).	22.9		5.1	
			15							
RS	S-4	6	-4.9							

ROTONSONIC LOFT-ALL BORINGS 091306.GPJ\_CDM\_CORP.GDT 9/28/06

### 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-13A on the date shown. The depth to groundwater is expected to fluctuate with time.

**Reviewed by:**

**Date:**



5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612

# ROTONSONIC BORING LOG

## LR\_RS-2

**Client:** SFWM District

**Project Name:** LOFT - Lakeside Ranch

**Project Location:** Okeechobee, FL

**Project Number:** 30327-51606

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
			-4.9 20		SM					
					SP-SM	Poorly Graded SAND with Silt, fine, wet, greenish gray; quartz sand; some shell fragments.				
RS	S-5	6	-9.9 25				26.4		8.7	
RS	S-6	6	-14.9 30							
RS	S-7	6	-19.9 35			SP-SM	Poorly Graded SAND with Silt, fine, wet, greenish gray; quartz sand; few shell fragments (up tp 35 mm in size).			
RS	S-8	6	-24.9 40					27.3		10.6
						SP-SM	Increased shell content.			
RS	S-9	6	-29.9 45			SP-SM	Decreased shell content.  Grades to gray.			
RS	S-10	6	-34.9 50							
RS	S-11	6	-39.9 55		SM	Silty SAND, fine, wet, greenish gray; some whole shell and shell fragments.				
RS	S-12	6	-44.9							

ROTONSONIC LOFT ALL BORINGS 091306.GPJ CDM\_CORP.GDT 9/28/06



5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612

# ROTONSONIC BORING LOG

## LR\_RS-2

**Client:** SFWM District

**Project Name:** LOFT - Lakeside Ranch

**Project Location:** Okeechobee, FL

**Project Number:** 30327-51606

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
			-44.9 60		SM	Increased silt content.				
RS	S-13	6	-49.9 65				32.5		30.1	NP
RS	S-14	6	-54.9 70		SC	Clayey SAND, fine to medium, wet, greenish gray to gray; few shell fragments (0.5 to 1.0 mm in size).	35.8		34.7	
RS	S-15	6	-59.9 75		SM	Silty SAND, fine to medium, wet, greenish gray; quartz sand; little shell fragments (0.5 to 1.0 mm in size).				
RS	S-16	6	-64.9 80		SM	Increased silt content, decreased shell content.				
RS	S-17	6	-69.9 85				32.0		34.6	
RS	S-18	6	-74.9 90				Silty SAND, medium, wet, greenish gray; carbonate sand, trace fine phosphatic sand; trace cemented nodules; calcite cement.			
RS	S-19	6	-79.9 95				Increased carbonate sand content.	31.1		24.0
RS	S-20	6	-84.9				Strong reaction with dilute HCl.			

ROTONSONIC LOFT ALL BORINGS 091306.GPJ CDM\_CORP.GDT 9/28/06



5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612

# ROTONSONIC BORING LOG

## LR\_RS-2

**Client:** SFWM District

**Project Name:** LOFT - Lakeside Ranch

**Project Location:** Okeechobee, FL

**Project Number:** 30327-51606

ROTONSONIC LOFT ALL BORINGS 091306.GPJ\_CDM\_CORP.GDT 9/28/06

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	
			-84.9 100		SM	Silty SAND, fine, wet, greenish gray; quartz sand; weak to strong reaction with dilute HCl; few phosphate sand.					
RS	S-21	6	-89.9 105								
RS	S-22	6	-94.9 110			Decreased sand content.  Grades to greenish gray.	24.1		37.9		
RS	S-23	6	-99.9 115			Silty SAND, fine, wet, dark greenish gray; quartz sand; weak reaction with dilute HCl; few phosphate sand; massive.					
RS	S-24	6	-104.9 120				25.0		27.5	NP	
RS	S-25	6	-109.9 125			Increased sand content.					
RS	S-26	6	-114.9 130			Grades with trace decomposed white shell fragments.	22.3		29.3	22/6	
RS	S-27	6	-119.9 135			Silty SAND, fine to medium, wet, greenish gray; quartz sand, trace phosphate.					
RS	S-28	6	-124.9								



5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612

# ROTONSONIC BORING LOG

## LR\_RS- 2

**Client:** SFWM District

**Project Name:** LOFT - Lakeside Ranch

**Project Location:** Okeechobee, FL

**Project Number:** 30327-51606

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	
			-124.9 140		SM	Silty SAND, fine to medium, wet, light greenish gray; quartz sand; some whole shell and shell fragments.					
RS	S-29	6			SM						
			-129.9 145								
RS	S-30	6									
			-134.9 150			Boring terminated at 150 ft-bl.					
			-139.9 155								
			-144.9 160								
			-149.9 165								
			-154.9 170								
			-159.9 175								
			-164.9								