


Boring Designation CB-DUC03-9R

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District			SHEET 1 OF 3 SHEETS	
1. PROJECT Duval County, FL, BEC St. John's River Entrance, North Jetty				9. SIZE AND TYPE OF BIT 3" Vibracore				
2. BORING DESIGNATION CB-DUC03-9R		LOCATION COORDINATES X = 526,197 Y = 2,207,811		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)			HORIZONTAL NAD83	VERTICAL MLLW
3. DRILLING AGENCY Athena Technologies		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Athena Technologies Vibracore System				
				12. TOTAL SAMPLES			DISTURBED 11	UNDISTURBED (UD) 0
4. NAME OF DRILLER G. Bonn				13. TOTAL NUMBER CORE BOXES 3				
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		14. ELEVATION GROUND WATER N/A				
				15. DATE BORING STARTED 08-09-03 COMPLETED 08-11-03				
6. THICKNESS OF OVERBURDEN N/A				16. ELEVATION TOP OF BORING -1.5 Ft.				
7. DEPTH DRILLED INTO ROCK N/A				17. TOTAL RECOVERY FOR BORING 64 %				
8. TOTAL DEPTH OF BORING 30.0 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR Julie Minton, Geologist				

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-1.5	0.0						-1.5		
			SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, trace silt, trace shell, strong reaction with HCl, moist, 5Y 6/1 gray (SP)	100			Vibracore		
				100	1		Vibracore		
				100			Vibracore		
-4.4	2.9		From El. -4.2 to -4.4 Ft., layer of fat clay				-4.5		
-4.7	3.2		SAND, silty, mostly fine-grained sand-sized quartz, little silt, weak reaction with HCl, moist, 5Y 4/1 dark gray (SM)	100	4		Vibracore		
-5.0	3.5		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, weak reaction with HCl, moist, 5Y 5/1 gray (SP-SM)	100	5		Vibracore		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace silt, trace shell, no reaction with HCl, moist, 5Y 7/1 light gray (SP)	100	2		Vibracore		
			At El. -6.9 Ft., few medium to coarse-grained sand-sized shell	100			Vibracore		
			At El. -7.9 Ft., little sand to gravel-sized shell up to 1/2"	100	3		Vibracore		
				100			Vibracore		
			At El. -10.7 Ft., few medium to coarse-grained sand-sized shell				Vibracore		
			At El. -11.5 Ft., trace shell, strong reaction with HCl	100	1AJ		Vibracore		
				100			Vibracore		
			At El. -14.0 Ft., little sand to gravel-sized shell up to 3/4", 5Y 6/1 gray	100	4AJ		Vibracore		
			At El. -14.7 Ft., few sand to gravel-sized shell up to 1"	100	2AJ		Vibracore		
				100			Vibracore		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 3 SHEETS			
PROJECT Duval County, FL, BEC			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLW			
LOCATION COORDINATES X = 526,197 Y = 2,207,811			ELEVATION TOP OF BORING -1.5 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-20.8	19.3	 <p>At El. -18.9 Ft., mostly fine to medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, 5Y 5/1 gray At El. -19.5 Ft., few medium to coarse-grained sand-sized shell</p>		100			Vibracore		
				100	5AJ		-17.5	Vibracore	
				100			-18.0	Vibracore	
				100			-19.0	Vibracore	
				100	3AJ		-19.5	Vibracore	
				100			-20.5	Vibracore	
				100	6AJ		-20.8	Vibracore	
-31.5	30.0	NO RECOVERY		0			Vibracore		
		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Boring was completed through multiple attempts of the vibracore to reach the target depth. These multiple attempts were combined to produce the final boring log. Physical samples of each separate attempt were prepared under the original boring designations of CB-DUC03-9 and CB-DUC03-9AJ. 3. X,Y							

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 3 OF 3 SHEETS																																							
PROJECT Duval County, FL, BEC			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLW																																							
LOCATION COORDINATES X = 526,197 Y = 2,207,811			ELEVATION TOP OF BORING -1.5 Ft.																																										
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																				
			<p>data from initial drilling attempt (9) is used for 9R.</p> <p>4. Lab samples have a letter following the sample number which refers to the initial assigned hole number. Example: sample number 1AJ reflects sample 1 from hole AJ.</p> <p>5. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.5/1.0</td><td>SP*</td></tr> <tr><td>4</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>5</td><td>3.3/3.8</td><td>SP*</td></tr> <tr><td>2</td><td>4.0/4.5</td><td>SP*</td></tr> <tr><td>3</td><td>7.0/7.5</td><td>SP*</td></tr> <tr><td>1AJ</td><td>10.0/10.5</td><td>SP*</td></tr> <tr><td>4AJ</td><td>12.0/12.5</td><td>SP*</td></tr> <tr><td>2AJ</td><td>13.5/14.0</td><td>SP*</td></tr> <tr><td>5AJ</td><td>16.0/16.5</td><td>SP*</td></tr> <tr><td>3AJ</td><td>17.5/18.0</td><td>SP*</td></tr> <tr><td>6AJ</td><td>19.0/19.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p> <p>6. Additional Laboratory Testing</p> <p>1 Specific Gravity</p>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.5/1.0	SP*	4	3.0/3.3	SP*	5	3.3/3.8	SP*	2	4.0/4.5	SP*	3	7.0/7.5	SP*	1AJ	10.0/10.5	SP*	4AJ	12.0/12.5	SP*	2AJ	13.5/14.0	SP*	5AJ	16.0/16.5	SP*	3AJ	17.5/18.0	SP*	6AJ	19.0/19.3	SP*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																											
1	0.5/1.0	SP*																																											
4	3.0/3.3	SP*																																											
5	3.3/3.8	SP*																																											
2	4.0/4.5	SP*																																											
3	7.0/7.5	SP*																																											
1AJ	10.0/10.5	SP*																																											
4AJ	12.0/12.5	SP*																																											
2AJ	13.5/14.0	SP*																																											
5AJ	16.0/16.5	SP*																																											
3AJ	17.5/18.0	SP*																																											
6AJ	19.0/19.3	SP*																																											

