

<b>DRILLING LOG</b>		<b>DIVISION</b>	<b>INSTALLATION</b>	<b>SHEET 1</b> <b>OF 1 SHEETS</b>
<b>1. PROJECT</b> AMI 2013 Sand Search Anna Maria Island, FL			<b>9. SIZE AND TYPE OF BIT</b> 3.0 In.	
<b>2. BORING DESIGNATION</b> AMVC-13-21			<b>10. COORDINATE SYSTEM/DATUM</b> Florida State Plane West	
<b>3. DRILLING AGENCY</b> Athena Technologies, Inc.			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Electric	
<b>4. NAME OF DRILLER</b> Palmer McLellan			<b>12. TOTAL SAMPLES</b> DISTURBED UNDISTURBED (UD)	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b>	
<b>6. THICKNESS OF OVERBURDEN</b> 0.0 Ft.			<b>14. ELEVATION GROUND WATER</b>	
<b>7. DEPTH DRILLED INTO ROCK</b> 0.0 Ft.			<b>15. DATE BORING</b> 01-25-13 11:24	
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -9.7 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 19.7 Ft.	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> LC	

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-9.7	0.0					Shell Hash calculated from visual estimate of shell <4.75mm and >2.8mm.
-10.8	1.1		SAND, fine grained, quartz, some shell hash, trace shell fragments, trace silt, shell frags up to 1.0", light gray (5Y-7/1), (SW).		1	Sample #1, Depth = 0.6' Mean (mm): 0.26, Phi Sorting: 1.22 Fines (230): 1.10% (SW)
-11.6	1.9		SANDY SHELL, shell component is shell hash, whole shells and shell frags up to 1.0", gray (2.5Y-6/1), (SW).		2	Sample #2, Depth = 1.3' Mean (mm): 0.61, Phi Sorting: 2.01 Fines (230): 0.79% (SW)
-13.2	3.5		SAND, fine grained, quartz, little shell hash, trace shell fragments, trace silt, shell frags up to 1.0", 0.5" whole shell @ 2.2', light gray (5Y-7/1), (SP).		3	Sample #3, Depth = 2.6' Mean (mm): 0.18, Phi Sorting: 0.84 Fines (230): 1.60% (SP)
-15.8	6.1		SAND, fine grained, quartz, little shell hash, trace shell fragments, shell frags up to 1.0", shell hash distributed in pockets up to (3.0"x2.0"), 1.0" silty pocket @ 4.4', 2.0" clay pocket @ 5.1', (3.0"x0.5") clay pocket @ 5.5', light gray (5Y-7/1), (SW).		4	Sample #4, Depth = 4.2' Mean (mm): 0.34, Phi Sorting: 1.15 Fines (230): 1.23% (SW)
-16.1	6.4				5	Sample #5, Depth = 6.2' Mean (mm): 1.78, Phi Sorting: 1.89 Fines (230): 2.16% (SW)
-16.8	7.1		SHELL, trace sand, shell component is shell frags up to 1.5" and whole shells up to 1.0", gray (5Y-6/1), (GW).		6	Sample #6, Depth = 6.8' Mean (mm): 0.16, Phi Sorting: 0.34 Fines (230): 1.66% (SP)
-18.4	8.7		SAND, fine grained, quartz, trace silt, silt distributed in pockets up to 0.25" and decreases with depth, (10Y-7/0), (SP).			
-19.3	9.6		SAND, fine grained, quartz, trace silt, silt distributed in pockets up to 0.25", (3.0"x0.5") pocket of shell frags up to 1.0" @ 8.0', (10Y-7/0), (SP).			
-20.2	10.5		SAND, fine grained, quartz, trace silt, silt distributed in pockets up to 0.25", light greenish gray (10Y-7/1), (SP).			
-21.3	11.6		SAND, fine grained, quartz, trace silt, (3.0"x0.25") clay pockets @ 9.7' & 9.8', white (5Y-8/1) mottled with, (10Y-7/0), (SP).			
-22.2	12.5		SAND, fine grained, quartz, trace silt, silt distributed in laminae, (10Y-7/0), (SP).			
-22.9	13.2		SAND, fine grained, quartz, little clay, trace silt, clay distributed in laminae, 0.25" organic frag @ 11.8', white (5Y-8/1), (SC).			
-23.4	13.7		SAND, fine grained, quartz, trace silt, white (5Y-8/1), (SP).			
-29.4	19.7		SHELL HASH, some sand, trace shell fragments, shell frags up to 1.0", 2.0" rock frags @ 13.4' & 13.6', dark gray (5Y-4/1), (SW).			
-29.7	20.0		SAND, fine grained, quartz, trace clay, trace shell fragments, trace shell hash, trace silt, trace whole shell, shell frags up to 2.0", whole shells up to 1.0", 2.5" rock frag @ 15.4', 1.0" rock frag @ 15.5', light gray (5Y-7/2), (SP).			
			No Recovery.			
			End of Boring			