

<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-13-25			<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> <input type="checkbox"/> AUTO HAMMER Electric <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b> Palmer McLellan			<b>12. TOTAL SAMPLES</b> <b>DISTURBED</b> <b>UNDISTURBED (UD)</b>	
<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> <b>STARTED</b> <b>COMPLETED</b> 01-25-13 12:10 01-25-13 12:12	
<b>8. TOTAL DEPTH OF BORING</b> 22.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -8.3 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 21.5 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
-8.3	0.0					Shell Hash calculated from visual estimate of shell <4.75mm and >2.8mm.
-12.3	4.0		SAND, fine grained, quartz, some shell hash, trace shell fragments, trace silt, shell frags up to 0.75", light gray (5Y-7/1), (SW).		1	Sample #1, Depth = 2.0' Mean (mm): 0.26, Phi Sorting: 1.38 Fines (230): 1.01% (SW)
-13.1	4.8		SAND, fine grained, quartz, trace shell hash, trace silt, light gray (5Y-7/1), (SP).		2	Sample #2, Depth = 4.4' Mean (mm): 0.17, Phi Sorting: 0.53 Fines (230): 1.79% (SP)
-14.2	5.9		SAND, fine grained, quartz, some shell hash, trace shell fragments, trace silt, shell frags up to 1.5", 1.0" whole shell @ 5.4', light gray (5Y-7/1), (SW).		1	
-15.5	7.2		SAND, fine grained, quartz, trace clay, trace shell hash, trace silt, clay distributed in clayey pockets up to 0.5", 2.25" whole shell @ 6.6', white (5Y-8/1), (SP).		2	Sample #3, Depth = 7.6' Mean (mm): 0.31, Phi Sorting: 0.85 Fines (230): 0.93% (SP)
-16.5	8.2		SAND, fine grained, quartz, little shell hash, trace shell fragments, trace silt, shell frags up to 0.25", 0.75" whole shell @ 7.9', light gray (5Y-7/1), (SP).		3	Sample #4, Depth = 9.5' Mean (mm): 0.45, Phi Sorting: 1.42 Fines (230): 1.01% (SW)
-17.4	9.1		SAND, fine grained, quartz, trace shell hash, trace silt, shell frags up to 0.25", 0.75" whole shell @ 7.9', light gray (5Y-7/1), (SP).		2	Sample #5, Depth = 11.0' Mean (mm): 1.12, Phi Sorting: 1.74 Fines (230): 1.44% (SW)
-18.4	10.1		SAND, fine grained, quartz, trace shell hash, trace silt, (1.0"x0.5") pocket of shell frags up to 0.5" @ 8.6', 0.25" silty pocket @ 8.3', white (5Y-8/1), (SP).		4	
-20.0	11.7		Shelly SAND, fine grained, quartz, trace shell fragments, trace silt, shell component is shell hash, shell frags up to 0.5", light gray (2.5Y-7/1), (SW).		5	
-20.5	12.2		SHELL, some sand, trace silt, trace whole shell, shell component is shell hash and shell frags up to 0.75", whole shells up to 1.0", 1.0" rock frag @ 11.0', gray (5Y-5/1), (GW).		1	
-21.0	12.7		SAND, fine grained, quartz, some shell hash, trace silt, light gray (5Y-7/1), (SW).		5	
-21.6	13.3		SHELL, some sand, trace silt, trace whole shell, shell component is shell hash and shell frags up to 0.75", whole shells up to 1.0", gray (5Y-5/1), (GW).			
-27.4	19.1		SAND, fine grained, quartz, little silt, trace shell hash, olive gray (5Y-5/2), (SM).			
-29.0	20.7		Silty SAND, fine grained, quartz, some organics, very dark grayish brown (2.5Y-3/2), (SM).			
-29.8	21.5		Silty SAND, fine grained, quartz, little organics, dark gray (5Y-4/1), (SM).			
-30.3	22.0		Silty SAND, fine grained, quartz, trace shell hash, gray (5Y-5/1), (SM).			
			No Recovery.			

FLORIDA DEP ROSS AMVC-13.GPJ FL DEP ROSS.GDT 4/26/13