

<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-13-13			<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> 01-24-13 10:18	
<b>8. TOTAL DEPTH OF BORING</b> 20.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -11.4 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 18.6 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
-11.4	0.0					Shell Hash calculated from visual estimate of shell <4.75mm and >2.8mm.
-12.3	0.9		Sandy SHELL HASH, little whole shell, trace shell fragments, trace silt, shell frags up to 1.0", whole shells up to 0.75", light gray (5Y-7/1), (GW).		1	Sample #1, Depth = 0.3'
-12.8	1.4		SAND, some shell hash, trace silt, white (5Y-8/1), (SW).		2	Mean (mm): 0.86, Phi Sorting: 1.75 Fines (230): 0.71% (SW)
-14.7	3.3		SAND, trace shell hash, trace silt, (3.0"x2.0") shell hash pockets @ 2.0' & 2.7', white (5Y-8/1), (SP).		3	Sample #2, Depth = 1.2'
-15.3	3.9		Sandy SHELL HASH, little shell fragments, trace whole shell, shell frags and whole shells up to 1.0", light gray (5Y-7/1), (GW).		1	Mean (mm): 0.23, Phi Sorting: 1.08 Fines (230): 1.13% (SW)
-16.0	4.6		SAND, trace shell fragments, trace shell hash, trace silt, shell frags up to 0.75", (3.0"x2.0") whole shell @ 4.4', white (5Y-8/1), (SP).		3	Sample #3, Depth = 2.3'
-16.7	5.3		Shelly SAND, shell component is shell hash, shell frags up to 1.0" and whole shells up to 0.25", light gray (5Y-7/1), (GW).		4	Mean (mm): 0.18, Phi Sorting: 0.56 Fines (230): 1.70% (SP)
-17.1	5.7		SAND, some shell hash, trace silt, (2.0"x0.5") shell hash pocket @ 5.4', white (5Y-8/1), (SW).		2	Sample #4, Depth = 4.8'
-18.0	6.6		Sandy SHELL HASH, little shell fragments, shell frags up to 0.75", 1.0" whole shell @ 5.9', light gray (5Y-7/1), (GW).		1	Mean (mm): 0.63, Phi Sorting: 1.94 Fines (230): 0.50% (SW)
-20.9	9.5		SAND, trace shell hash, trace silt, silt distributed in pockets up to 0.25", (3.0"x1.5") pocket of shell frags up to 0.5" @ 7.0', (2.0"x1.0") shell hash pocket @ 8.8', white (5Y-8/1), (SW).		5	Sample #5, Depth = 8.3'
-21.8	10.4		Shelly SAND, trace silt, shell component is shell hash, shell frags and whole shells up to 1.5", (3.0"x1.5") shell hash pocket @ 10.2', gray (5Y-6/1), (SW).		6	Mean (mm): 0.18, Phi Sorting: 0.91 Fines (230): 1.38% (SW)
-23.2	11.8		SHELL HASH, some sand, trace shell fragments, trace whole shell, whole shells up to 1.0", shell frags up to 1.75", gray (5Y-5/1), (GW).		1	Sample #6, Depth = 9.8'
-24.2	12.8		SAND, some shell hash, trace shell fragments, trace silt, trace whole shell, light gray (5Y-7/1), (SW).			Mean (mm): 0.45, Phi Sorting: 1.77 Fines (230): 1.52% (SW)
-24.9	13.5		SAND, some shell fragments, little shell hash, trace silt, trace whole shell, light gray (5Y-7/1), (SW).			
-26.5	15.1		SHELL HASH, little sand, trace rock fragments, trace whole shell, rock frags up to 0.75", gray (5Y-5/1), (SW).			
-30.0	18.6		SAND, little silt, trace organics, trace shell fragments, trace shell hash, gray (5Y-6/1) mottled with, gray (5Y-5/1), (SM).			
-31.4	20.0		No Recovery.			