

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-01		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 6		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-06-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -8.9 Ft.		
		17. TOTAL RECOVERY FOR BORING 73 %		
		18. SIGNATURE AND TITLE OF INSPECTOR Stephanie A. Setser, P.E., Geotechnical Engineer		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE		
-8.9	0.0						-8.9				
-9.2	0.3										
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, trace organic matter, weak reaction with HCl, 2.5Y 7/2 light gray (SP) At El. -9.8 Ft., discontinue organic matter At El. -10.3 Ft., trace shell At El. -11.8 Ft., few medium-grained sand-sized shell At El. -12.4 Ft., little fine to medium-grained sand-sized shell, strong reaction with HCl At El. -13.4 Ft., few medium-grained sand-sized shell, weak reaction with HCl At El. -13.9 Ft., trace silt At El. -14.9 Ft., trace shell At El. -17.9 Ft., few medium-grained sand-sized shell At El. -18.9 Ft., little fine to medium-grained sand-sized shell, strong reaction with HCl At El. -19.9 Ft., few fine-grained sand-sized shell At El. -20.6 Ft., little fine to medium-grained sand-sized shell At El. -21.6 Ft., some fine to medium-grained sand-sized shell At El. -22.1 Ft., little medium-grained sand-sized shell	1450			Vibracore				
					1				-9.9		
					2				-11.9		
					3				-14.9		
					4				-17.9		
					5				-19.9		
					6				-21.9		
-23.4	14.5										

NO RECOVERY

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 877,188 Y = 2,029,329			ELEVATION TOP OF BORING -8.9 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																			
-28.8	19.9	NO RECOVERY																																										
			<p>NOTES:</p> <ol style="list-style-type: none"> USACE Jacksonville is the custodian for these original files. Soils are field visually classified in accordance with the Unified Soils Classification System. Laboratory Testing Results <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>1.0/1.3</td><td>SP*</td></tr> <tr><td>2</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>5</td><td>11.0/11.3</td><td>SP*</td></tr> <tr><td>6</td><td>13.0/13.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <ol style="list-style-type: none"> Additional Laboratory Testing <table border="1"> <tbody> <tr><td>1</td><td>Percent Carbonate</td></tr> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	3.0/3.3	SP*	3	6.0/6.3	SP*	4	9.0/9.3	SP*	5	11.0/11.3	SP*	6	13.0/13.3	SP*	1	Percent Carbonate	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:		
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-02		LOCATION COORDINATES X = 877,012 Y = 2,028,556		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO. 6738-15-5449		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore	
4. NAME OF DRILLER Talon Smith			12. TOTAL SAMPLES		DISTURBED 6
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 07-07-15
8. TOTAL DEPTH OF BORING 19.9 Ft.			16. ELEVATION TOP OF BORING -9.6 Ft.		COMPLETED 07-07-15
			17. TOTAL RECOVERY FOR BORING 70 %		
			18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-9.6	0.0						-9.6		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/2 light gray (SP)	1380			Vibracore		
					1		-10.6		
			At El. -11.6 Ft., trace shell, trace silt, no reaction with HCl, 2.5Y 7/1 light gray				-12.6		
					2		-15.6		
			At El. -15.6 Ft., discontinue shell, discontinue silt				-18.6		
					3		-21.6		
			At El. -18.6 Ft., trace shell				-22.6		
					4				
			At El. -21.6 Ft., few medium-grained sand-sized shell, trace silt, strong reaction with HCl						
			At El. -21.9 Ft., trace shell, no reaction with HCl						
					5				
-22.4	12.8		SAND, poorly-graded with clay, mostly fine-grained sand-sized quartz, few clay, no reaction with HCl, occasional clayey sand seams, 5GY 6/1 greenish gray (SP-SC)						
					6				
-23.4	13.8								
		NO RECOVERY							

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 877,012 Y = 2,028,556			ELEVATION TOP OF BORING -9.6 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																			
-29.5	19.9	NO RECOVERY																																										
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1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION VB-SAFS15-03			10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)	
3. DRILLING AGENCY Corps of Engineers - CESAJ			11. MANUFACTURER'S DESIGNATION OF DRILL vibracore	
4. NAME OF DRILLER Talon Smith			12. TOTAL SAMPLES 6	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES 0	
6. THICKNESS OF OVERBURDEN N/A			14. ELEVATION GROUND WATER	
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING 07-07-15	
8. TOTAL DEPTH OF BORING 19.9 Ft.			16. ELEVATION TOP OF BORING -3.6 Ft.	
			17. TOTAL RECOVERY FOR BORING 83 %	
			18. SIGNATURE AND TITLE OF INSPECTOR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-3.6	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/2 light gray (SP)	1650			-3.6 Vibracore		0
			At El. -6.4 Ft., little medium-grained sand-sized shell, trace silt, strong reaction with HCl		1		-4.6		
			At El. -7.4 Ft., few fine to medium-grained sand-sized shell, weak reaction with HCl		2		-7.1		5
			At El. -9.4 Ft., little fine to medium-grained sand-sized shell, strong reaction with HCl				-10.6		
			At El. -10.6 Ft., few fine-grained sand-sized shell, weak reaction with HCl At El. -10.9 Ft., trace shell, no reaction with HCl		3		-14.1		10
			From El. -14.8 to -14.9 Ft., sandy silt seam		4		-17.6		
			At El. -15.4 Ft., few fine to medium-grained sand-sized shell, weak reaction with HCl						
			At El. -16.1 Ft., little fine to medium-grained sand-sized shell, strong reaction with HCl						
			At El. -17.3 Ft., few fine-grained sand-sized shell, discontinue silt, weak reaction with HCl		5				

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																					
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																					
LOCATION COORDINATES X = 877,860 Y = 2,028,905			ELEVATION TOP OF BORING -3.6 Ft.																																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																		
-20.1	16.5	•••••			6			-19.1																																			
-23.5	19.9	NO RECOVERY						-23.5																																			
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. 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>1.0/1.3</td><td>SP*</td></tr> <tr><td>2</td><td>3.5/3.8</td><td>SP*</td></tr> <tr><td>3</td><td>7.0/7.3</td><td>SP*</td></tr> <tr><td>4</td><td>10.5/10.8</td><td>SP*</td></tr> <tr><td>5</td><td>14.0/14.3</td><td>SP*</td></tr> <tr><td>6</td><td>15.5/15.8</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Carbonate</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	3.5/3.8	SP*	3	7.0/7.3	SP*	4	10.5/10.8	SP*	5	14.0/14.3	SP*	6	15.5/15.8	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Carbonate	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:	
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION VB-SAFS15-04		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES		DISTURBED 6
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED 07-07-15
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -11.8 Ft.		COMPLETED 07-07-15
		17. TOTAL RECOVERY FOR BORING 73 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE		
-11.8	0.0						-11.8				
-12.7	0.9			1440			Vibracore				
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/2 light gray (SP) At El. -14.2 Ft., trace silt, discontinue shell, no reaction with HCl From El. -15.3 to -16.4 Ft., intermittent silt seams At El. -17.3 Ft., little medium-grained sand-sized shell, strong reaction with HCl From El. -18.2 to -18.6 Ft., shelly sand seam SAND, poorly-graded, mostly fine to coarse-grained sand-sized shell, some fine-grained sand-sized quartz, strong reaction with HCl, 2.5Y 5/2 grayish brown (SP) SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace silt, trace shell, no reaction with HCl, 2.5Y 7/1 light gray (SP) At El. -20.8 Ft., discontinue shell, discontinue silt At El. -23.8 Ft., trace shell At El. -24.6 Ft., mostly fine to medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray		1		-12.8				
							2		-14.8		
							3		-17.8		
-18.9	7.1						4		-20.8		
-20.0	8.2						5		-23.8		
							6		-25.3		
-26.2	14.4										

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 877,203 Y = 2,027,886			ELEVATION TOP OF BORING -11.8 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																			
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8. TOTAL DEPTH OF BORING 19.8 Ft.		16. ELEVATION TOP OF BORING -11.7 Ft.		
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			At El. -13.4 Ft., some fine to medium-grained sand-sized shell, 2.5Y 7/1 light gray	497			Vibracore		
			At El. -14.7 Ft., little medium to coarse-grained sand-sized shell, discontinue silt		1		-14.7		
			At El. -15.3 Ft., trace shell, trace silt, no reaction with HCl						
			At El. -17.2 Ft., few fine-grained sand-sized shell, discontinue silt, weak reaction with HCl		2		-17.7		
			At El. -20.8 Ft., few medium-grained sand-sized shell, trace silt, strong reaction with HCl		3		-20.7		
-23.6	11.9		At El. -23.4 Ft., very shelly sand seam				-23.7		
-24.2	12.5		SAND, poorly-graded, mostly sand to gravel-sized shell, some fine to medium-grained sand-sized quartz, discontinue silt, 2.5Y 7/2 light gray (SP)		4				
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, 2.5Y 6/1 gray (SP)				-25.7		
			From El. -24.9 to -25.1 Ft., shell seam		5				
-26.6	14.9		At El. -25.1 Ft., trace shell, trace silt, no reaction with HCl, 2.5Y 6/1 gray						

NO RECOVERY

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																	
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																	
LOCATION COORDINATES X = 877,533 Y = 2,027,998			ELEVATION TOP OF BORING -11.7 Ft.																																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																														
-31.5	19.8	NO RECOVERY																																					
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DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																											
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																											
LOCATION COORDINATES X = 877,517 Y = 2,027,367			ELEVATION TOP OF BORING -12.7 Ft.																																														
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																								
-28.5	15.8	*At El. -27.5 Ft., some sand to gravel-sized shell, 2.5Y 6/1 gray																																														
-32.6	19.9	NO RECOVERY					-32.6																																										
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. 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>1.0/1.3</td><td>SP*</td></tr> <tr><td>2</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>8.0/8.3</td><td>SP*</td></tr> <tr><td>5</td><td>9.0/9.3</td><td>SP*</td></tr> <tr><td>6</td><td>11.5/11.8</td><td>SP*</td></tr> <tr><td>7</td><td>14.0/14.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Carbonate</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> <tr><td>7</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	3.0/3.3	SP*	3	6.0/6.3	SP*	4	8.0/8.3	SP*	5	9.0/9.3	SP*	6	11.5/11.8	SP*	7	14.0/14.3	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Carbonate	6	Percent Visual Shell	7	Percent Visual Shell				Abbreviations:		
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-07		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 6		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-06-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -14.7 Ft.		
		17. TOTAL RECOVERY FOR BORING 75 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-14.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/2 light gray (SP)	1500			-14.7 Vibracore		0
					1		-15.7		
			At El. -17.7 Ft., little medium to coarse-grained sand-sized shell, discontinue silt				-17.7		
			At El. -18.3 Ft., some fine to medium-grained sand-sized shell		2				5
			At El. -19.9 Ft., trace shell, weak reaction with HCl, 2.5Y 7/1 light gray				-20.7		
			At El. -20.5 Ft., trace silt, no reaction with HCl, 2.5Y 6/1 gray		3				
			At El. -21.5 Ft., discontinue silt, 2.5Y 7/1 light gray				-22.2		
			At El. -22.5 Ft., few fine-grained sand-sized shell, weak reaction with HCl		4				
			At El. -23.1 Ft., discontinue shell, no reaction with HCl				-25.2		10
			At El. -24.5 Ft., trace shell						
			At El. -25.4 Ft., few fine-grained sand-sized shell, trace silt, weak reaction with HCl		5				
			At El. -26.7 Ft., some sand to gravel-sized shell, strong reaction with HCl				-28.7		
			At El. -27.6 Ft., few fine-grained sand-sized shell, weak reaction with HCl						
			From El. -28.6 to -28.9 Ft., strong reaction with HCl, shell seam		6				
-29.7	15.0		At El. -28.9 Ft., some medium to						15

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 878,327 Y = 2,027,407			ELEVATION TOP OF BORING -14.7 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																			
-34.6	19.9	NO RECOVERY	coarse-grained sand-sized shell, N 6/ gray																																									
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. 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>1.0/1.3</td><td>SP*</td></tr> <tr><td>2</td><td>3.0/3.3</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.3</td><td>SP*</td></tr> <tr><td>4</td><td>7.5/7.8</td><td>SP*</td></tr> <tr><td>5</td><td>10.5/10.8</td><td>SP*</td></tr> <tr><td>6</td><td>14.0/14.3</td><td>SP*</td></tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr><td>1</td><td>Percent Carbonate</td></tr> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> <tr><td>5</td><td>Percent Visual Shell</td></tr> <tr><td>6</td><td>Percent Visual Shell</td></tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.3	SP*	2	3.0/3.3	SP*	3	6.0/6.3	SP*	4	7.5/7.8	SP*	5	10.5/10.8	SP*	6	14.0/14.3	SP*	1	Percent Carbonate	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Visual Shell	6	Percent Visual Shell				Abbreviations:		
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-08		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 6		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-07-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -7.1 Ft.		
		17. TOTAL RECOVERY FOR BORING 81 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-7.1	0.0						-7.1		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace silt, no reaction with HCl, 2.5Y 8/2 pale yellow (SP)	1600			Vibracore		
					1				
							-8.1		
			At El. -10.1 Ft., trace shell, discontinue silt		2				
							-10.1		
			At El. -13.1 Ft., trace silt		3				
							-13.1		
			At El. -14.6 Ft., 1" silt seam						
			At El. -15.0 Ft., little fine-grained sand-sized shell, weak reaction with HCl, 2.5Y 7/2 light gray						
			At El. -16.1 Ft., few fine-grained sand-sized shell, discontinue silt		4				
			At El. -16.6 Ft., 2.5Y 8/2 pale yellow				-16.1		
							-19.1		
			At El. -19.1 Ft., trace silt, discontinue shell		5				
							-21.1		
			At El. -21.0 Ft., strong reaction with HCl, 1" shell seam						
			At El. -21.1 Ft., some sand to gravel-sized				-22.1		

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 878,444 Y = 2,027,645			ELEVATION TOP OF BORING -7.1 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																			
-23.1	16.0	shell, discontinue silt At El. -22.1 Ft., little fine to medium-grained sand-sized shell		6																																							
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION VB-SAFS15-09		LOCATION COORDINATES X = 876,843 Y = 2,027,137		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO. 6738-15-5449		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore
4. NAME OF DRILLER Talon Smith			12. TOTAL SAMPLES	DISTURBED 6
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN		N/A		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK		N/A		15. DATE BORING
8. TOTAL DEPTH OF BORING		19.9 Ft.		STARTED 07-07-15
			16. ELEVATION TOP OF BORING	COMPLETED 07-07-15
			17. TOTAL RECOVERY FOR BORING	70 %
18. SIGNATURE AND TITLE OF INSPECTOR				

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-8.0	0.0						-8.0		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, some sand to gravel-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/1 gray (SP)	1400			Vibracore		
			At El. -9.7 Ft., 2.5Y 5/1 gray		1				
-10.8	2.8						-9.0		
			SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, occasional clay seams, 10GY 4/1 dark greenish gray (SM)						
			From El. -11.1 to -12.0 Ft., sand seams		2				
-12.3	4.3						-11.5		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, trace silt, strong reaction with HCl, 10GY 4/1 dark greenish gray (SP)						
			At El. -13.0 Ft., few sand to gravel-sized shell, 2.5Y 7/1 light gray		3				
			At El. -14.0 Ft., little sand to gravel-sized shell		4				
			At El. -14.8 Ft., few fine to medium-grained sand-sized shell, weak reaction with HCl						
			At El. -15.3 Ft., trace shell, no reaction with HCl						
			At El. -16.4 Ft., little medium-grained sand-sized shell, weak reaction with HCl		5				
-18.3	10.3						-12.5		
			SAND, poorly-graded, mostly fine to coarse-grained sand-sized shell, some fine-grained sand-sized quartz, trace silt, strong reaction with HCl, 2.5Y 4/1 dark gray (SP)						
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 2.5Y 5/1 gray (SP)						
			At El. -20.3 Ft., few medium-grained sand-sized shell		6				
			From El. -21.0 to -21.3 Ft., strong reaction with HCl, shell seams						
			At El. -21.6 Ft., little fine gravel-sized shell, 2.5Y 4/1 dark gray						
-22.0	14.0						-14.0		
							-17.0		
							-20.0		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 876,843 Y = 2,027,137			ELEVATION TOP OF BORING -8.0 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																			
-27.9	19.9	NO RECOVERY																																										
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-10		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 5		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-08-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -8.2 Ft.		
		17. TOTAL RECOVERY FOR BORING 71 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-8.2	0.0						-8.2		
-10.8	2.6		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, trace silt, strong reaction with HCl, 2.5Y 7/1 light gray (SP) From El. -9.2 to -9.4 Ft., organic seam (wood) At El. -9.4 Ft., little fine to medium-grained sand-sized shell, 2.5Y 6/1 gray At El. -9.9 Ft., few fine to medium-grained sand-sized shell	473			Vibracore		
-11.3	3.1		At El. -10.2 Ft., some fine to medium-grained sand-sized shell, occasional gravel-sized shell, 2.5Y 5/1 gray		1		-11.2		
			SAND, poorly-graded, mostly sand to gravel-sized shell, some fine-grained sand-sized quartz (SP)						
			SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some sand to gravel-sized shell, 2.5Y 7/1 light gray (SP) At El. -12.1 Ft., little fine to medium-grained sand-sized shell, weak reaction with HCl At El. -12.9 Ft., trace shell, no reaction with HCl		2		-14.2		
			At El. -15.0 Ft., few fine-grained sand-sized shell				-15.7		
			At El. -16.0 Ft., little fine to medium-grained sand-sized shell, trace silt, weak reaction with HCl At El. -16.5 Ft., some fine to medium-grained sand-sized shell, strong reaction with HCl		3		-17.2		
			From El. -18.1 to -18.2 Ft., trace shell, no reaction with HCl, 1" silt seams At El. -19.1 Ft., 1" thick silt seam		4		-20.2		
			From El. -21.7 to -21.8 Ft., silty sand seam		5				
-22.4	14.2	NO RECOVERY							

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																	
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																	
LOCATION COORDINATES X = 877,602 Y = 2,026,201			ELEVATION TOP OF BORING -8.2 Ft.																																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																														
-28.1	19.9	NO RECOVERY																																					
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-11		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 6		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-08-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -6.9 Ft.		
		17. TOTAL RECOVERY FOR BORING 76 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-6.9	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP) From El. -7.7 to -8.1 Ft., silty sand seam	1520			-6.9 Vibracore		0
					1		-7.9		
			At El. -9.8 Ft., few fine-grained sand-sized shell, weak reaction with HCl At El. -10.3 Ft., little fine to medium-grained sand-sized shell At El. -10.7 Ft., 2.5Y 7/1 light gray		2		-9.9		5
			At El. -12.8 Ft., mostly fine to medium-grained sand-sized quartz, some sand to gravel-sized shell, discontinue silt, strong reaction with HCl At El. -13.3 Ft., little medium-grained sand-sized shell		3		-12.9		
-14.4	7.5		SAND, poorly-graded, mostly fine to coarse-grained sand-sized shell, some fine-grained sand-sized quartz, 2.5Y 7/2 light gray (SP)		4		-15.9		
-15.4	8.5		SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to medium-grained sand-sized shell (SP) At El. -15.9 Ft., some sand to gravel-sized shell, trace silt At El. -16.9 Ft., little fine to medium-grained sand-sized shell At El. -17.6 Ft., some fine to medium-grained sand-sized shell From El. -17.8 to -18.4 Ft., silty very shelly sand seam		5		-18.9		10
-19.5	12.6		At El. -18.9 Ft., some fine to medium-grained sand-sized quartz, some medium to coarse-grained sand-sized shell		6		-20.4		
-20.1	13.2		SAND, poorly-graded, mostly sand to gravel-sized shell, some fine-grained sand-sized quartz, 2.5Y 5/1 gray (SP) SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, weak reaction with HCl, 2.5Y 6/1 gray (SP)						15

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 877,270 Y = 2,025,679			ELEVATION TOP OF BORING -6.9 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																			
-22.1	15.2	NO RECOVERY																																										
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION VB-SAFS15-12		LOCATION COORDINATES X = 877,388 Y = 2,025,584		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO. 6738-15-5449		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore
4. NAME OF DRILLER Talon Smith			12. TOTAL SAMPLES	DISTURBED 6
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN		N/A		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK		N/A		15. DATE BORING
8. TOTAL DEPTH OF BORING		19.9 Ft.		STARTED 07-07-15
			16. ELEVATION TOP OF BORING	COMPLETED 07-07-15
			17. TOTAL RECOVERY FOR BORING	71 %
18. SIGNATURE AND TITLE OF INSPECTOR				

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-7.0	0.0						-7.0		
-8.0	1.0		SAND, poorly-graded, mostly sand to gravel-sized shell, some fine-grained sand-sized quartz, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP)	1410			Vibracore		
			SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some sand to gravel-sized shell, trace silt (SP)		1				
			-At El. -8.4 Ft., 2.5Y 6/1 gray						
			-At El. -9.0 Ft., 2.5Y 5/1 gray						
			-At El. -9.2 Ft., mostly fine-grained sand-sized quartz, few silt, strong reaction with HCl, 2.5Y 5/1 gray			2		-10.0	
			-At El. -9.7 Ft., some fine to coarse-grained sand-sized shell, 2.5Y 6/2 light brownish gray						
-12.4	5.4		-At El. -10.0 Ft., little medium to coarse-grained sand-sized shell						
			-At El. -11.3 Ft., some fine to coarse-grained sand-sized shell						
			SAND, poorly-graded, mostly sand to gravel-sized shell, some fine to medium-grained sand-sized quartz, discontinue silt (SP)		3		-13.0		
			-At El. -15.9 Ft., trace silt		4		-16.0		
-17.2	10.2		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 2.5Y 5/1 gray (SP)		5		-18.0		
-19.9	12.9								
-21.1	14.1		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, strong reaction with HCl, occasional intermittent silt seams, 2.5Y 4/1 dark gray (SP-SM)		6		-20.0		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 877,388 Y = 2,025,584			ELEVATION TOP OF BORING -7.0 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																			
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION VB-SAFS15-13			10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)	
3. DRILLING AGENCY Corps of Engineers - CESAJ			11. MANUFACTURER'S DESIGNATION OF DRILL vibracore	
4. NAME OF DRILLER Talon Smith			12. TOTAL SAMPLES 6	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES 0	
6. THICKNESS OF OVERBURDEN N/A			14. ELEVATION GROUND WATER	
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING 07-08-15	
8. TOTAL DEPTH OF BORING 19.9 Ft.			16. ELEVATION TOP OF BORING -6.9 Ft.	
			17. TOTAL RECOVERY FOR BORING 65 %	
			18. SIGNATURE AND TITLE OF INSPECTOR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-6.9	0.0						-6.9		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP) -At El. -7.2 Ft., 2.5Y 6/1 gray -At El. -7.9 Ft., some medium to coarse-grained sand-sized shell -At El. -8.0 Ft., few fine to medium-grained sand-sized shell -At El. -8.8 Ft., little fine to medium-grained sand-sized shell -At El. -9.9 Ft., mostly fine to medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell -At El. -10.3 Ft., 2.5Y 7/2 light gray -At El. -11.2 Ft., little fine to coarse-grained sand-sized shell -At El. -12.0 Ft., mostly fine-grained sand-sized quartz, some sand to gravel-sized shell	1300	1		Vibracore		
					2		-7.9		
					3		-9.9		
-12.8	5.9		SAND, poorly-graded, mostly sand to gravel-sized shell, some fine-grained sand-sized quartz, N 4/ dark gray (SP) From El. -13.8 to -14.3 Ft., sand seam				-12.4		
					4		-15.4		
			SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell (SP) -At El. -15.4 Ft., little medium-grained sand-sized shell -At El. -15.8 Ft., trace shell, weak reaction with HCl, 2.5Y 6/1 gray -At El. -16.9 Ft., few medium-grained sand-sized shell -At El. -18.5 Ft., 2.5Y 5/1 gray -At El. -18.9 Ft., few fine-grained sand-sized shell, 1"x0.5" piece of wood -At El. -19.6 Ft., few fine to medium-grained sand-sized shell, strong reaction with HCl		5		-16.9		
					6		-18.9		
-19.9	13.0								

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District				SHEET 2																																					
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PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83		VERTICAL NAVD88																																					
LOCATION COORDINATES X = 876,466 Y = 2,025,092			ELEVATION TOP OF BORING -6.9 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																																			
-26.8	19.9	NO RECOVERY					-26.8																																					
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION VB-SAFS15-14		LOCATION COORDINATES X = 876,019 Y = 2,024,781		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO. 6738-15-5449		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore
4. NAME OF DRILLER Talon Smith			12. TOTAL SAMPLES	DISTURBED 7
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN		N/A		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK		N/A		15. DATE BORING
8. TOTAL DEPTH OF BORING		19.9 Ft.		STARTED 07-07-15
			16. ELEVATION TOP OF BORING	COMPLETED 07-07-15
			17. TOTAL RECOVERY FOR BORING	77 %
18. SIGNATURE AND TITLE OF INSPECTOR				

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-7.3	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, some sand to gravel-sized shell, trace silt, strong reaction with HCl, 2.5Y 6/2 light brownish gray (SP)	1530			-7.3 Vibracore		0
			At El. -8.9 Ft., mostly fine to medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, 2.5Y 6/1 gray		1		-8.3		
			From El. -9.8 to -10.0 Ft., shell seam						
			From El. -10.2 to -10.5 Ft., shell seam		2		-10.3		
			At El. -10.3 Ft., mostly fine-grained sand-sized quartz, little medium to coarse-grained sand-sized shell						
			At El. -12.3 Ft., some fine to coarse-grained sand-sized shell						5
			At El. -13.2 Ft., 2.5Y 7/2 light gray						
			At El. -13.8 Ft., some sand to gravel-sized shell		3		-13.8		
			At El. -15.4 Ft., little medium to coarse-grained sand-sized shell, 2.5Y 6/1 gray						
			From El. -16.3 to -16.6 Ft., shell seam		4		-16.3		
			From El. -16.6 to -16.9 Ft., silt seam						
			From El. -17.4 to -17.8 Ft., silt seam, 2.5Y 5/1 gray		5		-17.8		10
			At El. -17.8 Ft., trace shell, 2.5Y 6/1 gray						
			At El. -17.9 Ft., little fine to medium-grained sand-sized shell						
			At El. -18.8 Ft., trace shell, no reaction with HCl		6		-19.3		
			At El. -21.0 Ft., little medium to coarse-grained sand-sized shell, weak reaction with HCl		7		-21.3		
			At El. -21.8 Ft., trace shell, no reaction with HCl						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																											
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																											
LOCATION COORDINATES X = 876,019 Y = 2,024,781			ELEVATION TOP OF BORING -7.3 Ft.																																														
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																								
-22.6	15.3	NO RECOVERY																																															
-27.2	19.9						-27.2																																										
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DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																																						
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																						
LOCATION COORDINATES X = 878,076 Y = 2,025,103			ELEVATION TOP OF BORING -6.7 Ft.																																									
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																																			
-23.5	16.8	•••••	At El. -21.7 Ft., 2.5Y 7/2 light gray		6																																							
-26.6	19.9	NO RECOVERY					-26.6																																					
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Boring Designation VB-SAFS15-16

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-16		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 5		DISTURBED 5
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-07-15		STARTED 07-07-15
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -7.0 Ft.		COMPLETED 07-07-15
		17. TOTAL RECOVERY FOR BORING 75 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-7.0	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium-grained sand-sized shell, trace silt, no reaction with HCl, 2.5Y 7/1 light gray (SP) At El. -8.0 Ft., trace shell	750			-7.0 Vibracore		0
			At El. -10.1 Ft., 2.5Y 6/1 gray		1		-9.0		
			From El. -10.8 to -10.9 Ft., silty sand seam At El. -10.9 Ft., few medium-grained sand-sized shell, weak reaction with HCl		2		-11.0		
			At El. -12.0 Ft., little fine to medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 7/2 light gray		3		-14.0		5
			At El. -13.1 Ft., mostly fine to medium-grained sand-sized quartz, some sand to gravel-sized shell, 2.5Y 6/2 light brownish gray		4		-16.5		10
			At El. -16.2 Ft., mostly fine-grained sand-sized quartz, some medium to coarse-grained sand-sized shell, 2.5Y 4/1 dark gray		5		-19.5		
			At El. -17.8 Ft., little fine to medium-grained sand-sized shell, 2.5Y 7/1 light gray						
			At El. -19.2 Ft., mostly fine to medium-grained sand-sized quartz, some sand to gravel-sized shell						
			At El. -19.6 Ft., little fine to medium-grained sand-sized shell						
			At El. -20.3 Ft., trace shell, no reaction with HCl						
-22.0	15.0								15

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																					
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 878,748 Y = 2,025,465			ELEVATION TOP OF BORING -7.0 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-26.9	19.9	NO RECOVERY	At El. -23.7 Ft., some fine to medium-grained sand-sized shell At El. -24.7 Ft., some fine to medium-grained sand-sized shell																								
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <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>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>9.5/9.8</td> <td>SP*</td> </tr> <tr> <td>5</td> <td>12.5/12.8</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Carbonate 4 Percent Visual Shell 5 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP*	3	7.0/7.3	SP*	4	9.5/9.8	SP*	5	12.5/12.8	SP*				Abbreviations:		
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION VB-SAFS15-17		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 5		DISTURBED 5
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		STARTED 07-07-15
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-07-15		COMPLETED 07-07-15
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -6.3 Ft.		17. TOTAL RECOVERY FOR BORING 75 %
18. SIGNATURE AND TITLE OF INSPECTOR				

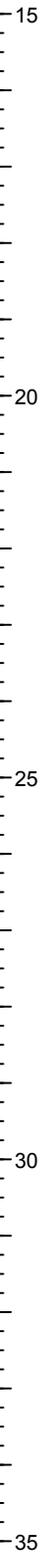
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-6.3	0.0						-6.3		
-8.1	1.8			750			Vibracore		
-10.1	3.8		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)		1		-8.3		
-12.3	6.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, weak reaction with HCl, occasional intermittent silty fine sand seams, 2.5Y 5/1 gray (SP-SM) At El. -11.1 Ft., 2.5Y 6/2 light brownish gray		2		-10.3		5
-14.3	8.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace shell, trace silt, weak reaction with HCl, 2.5Y 6/2 light brownish gray (SP)		3		-12.3		
-14.8	8.5		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, no reaction with HCl, 2.5Y 6/2 light brownish gray (SP-SM)		4		-14.3		
-15.5	9.2		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, no reaction with HCl, 2.5Y 6/2 light brownish gray (SP-SM)		5		-15.3		
-19.0	12.7		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, intermittent sand seams, N 4/ dark gray (SM) SILT, inorganic-H, some fine-grained sand-sized quartz, weak reaction with HCl, occasional sand seams, N 4/ dark gray (MH) At El. -15.7 Ft., N 3/ very dark gray						10
-20.7	14.4		SAND, silty, mostly fine-grained sand-sized quartz, some silt, weak reaction with HCl, N 3/ very dark gray (SM) At El. -19.7 Ft., little medium-grained sand-sized shell, strong reaction with HCl, 2.5Y 4/1 dark gray						
-21.3	15.0		SAND, poorly-graded with silt, mostly						15

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																																	
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																																	
LOCATION COORDINATES X = 879,622 Y = 2,025,763			ELEVATION TOP OF BORING -6.3 Ft.																																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																														
-26.2	19.9	NO RECOVERY	fine-grained sand-sized quartz, some sand to gravel-sized shell, few silt, strong reaction with HCl, 2.5Y 5/2 grayish brown (SP-SM)																																				
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. 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>2.0/2.3</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.3</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>6.0/6.3</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>8.0/8.3</td> <td>SP-SM*</td> </tr> <tr> <td>5</td> <td>9.0/9.3</td> <td>SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> <tr> <td>5</td> <td>Percent Carbonate</td> </tr> <tr> <td>5</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.3	SP*	2	4.0/4.3	SP-SM*	3	6.0/6.3	SP*	4	8.0/8.3	SP-SM*	5	9.0/9.3	SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell	5	Percent Carbonate	5	Percent Visual Shell				Abbreviations:		
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5	Percent Carbonate																																						
5	Percent Visual Shell																																						

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-18		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-07-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -4.9 Ft.		
		17. TOTAL RECOVERY FOR BORING 82 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-4.9	0.0						-4.9		
-5.5	0.6		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, weak reaction with HCl, 2.5Y 5/1 gray (SP-SM) At El. -5.2 Ft., some silt, 10Y 5/1 greenish gray SILT, inorganic-H, some fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 10Y 5/1 greenish gray (MH) At El. -8.1 Ft., little fine-grained sand-sized quartz						
-9.8	4.9		SAND, silty, mostly fine-grained sand-sized quartz, some silt, weak reaction with HCl, 10Y 5/1 greenish gray (SM) SILT, inorganic-H, little fine-grained sand-sized quartz, trace shell, weak reaction with HCl, 10Y 5/1 greenish gray (MH) At El. -15.5 Ft., some fine-grained sand-sized quartz	82			Vibracore		
-10.4	5.5								
-16.6	11.7		SAND, silty, mostly fine-grained sand-sized quartz, little silt, weak reaction with HCl, sand seams, 2.5Y 5/1 gray (SM) SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, weak reaction with HCl, N 7/ light gray (SP-SM)						
-17.3	12.4								

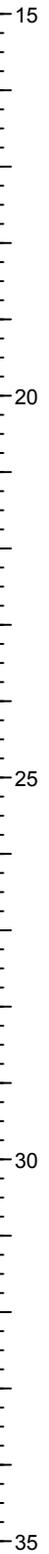
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS			
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 879,391 Y = 2,024,576			ELEVATION TOP OF BORING -4.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-21.2	16.3								
-24.8	19.9	NO RECOVERY		82			Vibracore		
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System.						



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-19		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-07-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -8.4 Ft.		
		17. TOTAL RECOVERY FOR BORING 82 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-8.4	0.0						-8.4		
-9.0	0.6		SILT, inorganic-H, little fine-grained sand-sized quartz, weak reaction with HCl, N 4/ dark gray (MH)						
-10.1	1.7		SAND, silty, mostly fine-grained sand-sized quartz, some silt, weak reaction with HCl, N 4/ dark gray (SM)						
			SILT, inorganic-H, few fine-grained sand-sized quartz, weak reaction with HCl, N 4/ dark gray (MH)						
				82			Vibracore		
-21.9	13.5		At El. -21.0 Ft., some fine-grained sand-sized quartz						
			SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, weak reaction with HCl, 2.5Y 5/2 grayish brown (SP-SM)						
			From El. -22.0 to -23.3 Ft., intermittent silt						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS			
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 880,019 Y = 2,024,874			ELEVATION TOP OF BORING -8.4 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-24.7	16.3		seams At El. -24.1 Ft., few medium-grained sand-sized shell, 2.5Y 6/1 gray						
-28.3	19.9	NO RECOVERY		82			Vibracore		
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System.						



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St Johns County SPP		9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION VB-SAFS15-20		10. COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL vibracore		
4. NAME OF DRILLER Talon Smith		12. TOTAL SAMPLES 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 07-07-15		
8. TOTAL DEPTH OF BORING 19.9 Ft.		16. ELEVATION TOP OF BORING -6.6 Ft.		
		17. TOTAL RECOVERY FOR BORING 78 %		
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-6.6	0.0		SILT, inorganic-H, few fine-grained sand-sized quartz, trace shell, weak reaction with HCl, N 3/ very dark gray (MH)				-6.6		
			At El. -12.0 Ft., discontinue shell						
-14.7	8.1			78			Vibracore		
-15.6	9.0		SAND, silty, mostly fine-grained sand-sized quartz, some silt, weak reaction with HCl, N 4/ dark gray (SM)						
			At El. -15.3 Ft., little silt, 2.5Y 5/1 gray						
			SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, weak reaction with HCl, 2.5Y 6/1 gray (SP-SM)						
			At El. -17.5 Ft., 2.5Y 5/1 gray						
			At El. -18.1 Ft., few fine-grained sand-sized shell, 2.5Y 6/1 gray						
			At El. -20.8 Ft., trace shell						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS			
PROJECT St Johns County SPP			COORDINATE SYSTEM/DATUM State Plane, FLW (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 880,041 Y = 2,024,037			ELEVATION TOP OF BORING -6.6 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-22.1	15.5	NO RECOVERY		78			Vibracore		
-26.5	19.9							-26.5	
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