

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
2. LOCATION (Coordinates or Station) X=41360,8.7 Y=211436,1.9		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-1		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +1.2	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/23/96 0954	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -38.3 Ft.	
9. TOTAL DEPTH OF HOLE 19.6 Ft.		18. TOTAL CORE RECOVERY FOR BORING 100 %	
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-38.3	0.0		SAND, fine to medium grained, gray, trace of shell fragments, trace of shell gravel (SP)			-38.3
					2.5'	Lat-Lon 30 08 58.7N 81 16 24.0W Laboratory Data Depth USCS 2.5 SP 6.0 SP 8.5 SP 14.0 SP-SM 19.0 SP-SM
-45.3	7.0		SAND, fine grained, gray, trace of shell fragments (SP)		6.0'	
				100	8.5'	
-50.0	11.7		SAND, fine grained, gray-green, trace of shell fragments (SP-SM)		14.0'	
					19.0'	
-57.9	19.6		End of Boring			-57.9
Soils are field visually classified in accordance with the Unified Soils Classification System.						

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
2. LOCATION (Coordinates or Station) X=41191,6.7 Y=210986,2.5		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-2		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +3.0	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/23/96 1150	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -40.0 Ft.	
9. TOTAL DEPTH OF HOLE 19.9 Ft.		18. TOTAL CORE RECOVERY FOR BORING 100 %	
19. SIGNATURE OF GEOLOGIST ROCKLAND BURR			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-40.0	0.0					-40.0
			SAND, fine grained, gray, trace of shell fragments (SP)		15'	Lat-Long 30 08 14.1N 81 16 43.1W Laboratory Data Depth USCS 1.5 SP 4.5 SP 9.0 SM 14.5 SM 18.5 SM
			SILTY SAND, fine grained, gray, trace of shell fragments, trace of shell gravel (SM)		9.0'	
				100	14.5'	
			SILTY GRAVEL, gray, mostly shell fragments (GM)		18.5'	
			SILTY SAND, fine to coarse grained, gray, mostly shell fragments (SM)			
			End of Boring			-59.9
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DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
	2. LOCATION (Coordinates or Station) X=41106,6.4 Y=203034,4.8		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
	3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE
	4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-3		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0
	5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2
	6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +4.0
	7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/22/96 1304
	8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -10.8 Ft.
9. TOTAL DEPTH OF HOLE 20.0 Ft.		18. TOTAL CORE RECOVERY FOR BORING 100 %	
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-10.8	0.0		SAND, gray, fine grained, trace of shell fragments (SP)			-10.8
					3.0'	Lat-Long 29 55 6.7N 81 16 50.6W Laboratory Data Depth USCS 3.0 SP 6.5 SM 9.5 SP 18.0 SP 19.0 SP
-16.9	6.1		SILTY SAND, fine grained, brown, mostly shell fragments (SM)		6.5'	
-17.9	7.1		SAND, fine grained, gray (SP)		9.5'	
				100		
-27.8	17.0		CLAY, gray (CL)		18.0'	
-28.8	18.0		SAND, fine to medium grained, gray, mostly shell fragments, trace of shell gravel (SP)		19.0'	
-30.8	20.0		End of Boring			-30.8
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DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=41334,9.5 Y=203081,9.7	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	14. TOTAL NUMBER OF CORE BOXES 1	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-4	15. ELEVATION GROUND WATER Tide = +4.1	16. DATE HOLE STARTED COMPLETED 6/22/96 1407	
5. NAME OF DRILLER NICK PRICE	17. ELEVATION TOP OF HOLE -7.4 Ft.	18. TOTAL CORE RECOVERY FOR BORING 75 %	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		
7. THICKNESS OF BURDEN 0 Ft.			
8. DEPTH DRILLED INTO ROCK N/A Ft.			
9. TOTAL DEPTH OF HOLE 11.0 Ft.			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-7.4	0.0		SAND, fine grained, light gray (SP)		1.0'	-7.4
						Lat-Lon 29 55 11.6N 81 16 24.7W Laboratory Data Depth USCS 1.0 SP 4.0 SP 6.5 SP 8.5 SP
-12.6	5.2		SAND, fine grained, gray (SP)	75	6.5'	
-15.4	8.0		SAND, fine grained, light gray (SP)		8.5'	
-18.4	11.0		End of Boring			-18.4
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
2. LOCATION (Coordinates or Station) X=41847,2,3 Y=209493,7,3		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-5		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +3.6	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/23/96 1235	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -41.2 Ft.	
9. TOTAL DEPTH OF HOLE 19.9 Ft.		18. TOTAL CORE RECOVERY FOR BORING 96 %	
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-41.2	0.0		SAND, fine grained, gray, trace of shell fragments (SP)			-41.2
					3.5'	Lat-Lon 30 05 46.5N 81 15 28.1W Laboratory Data Depth USCS 3.5 SP 7.0 SP-SM
-47.7	6.5		SAND, fine grained, green-gray, a little shell fragments, trace of shell gravel (SP-SM)		7.0'	
-48.9	7.7		CLAY, green-gray, trace of shell fragments, laminations of sand (CL)	96		
-61.1	19.9		End of Boring			-61.1
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DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
2. LOCATION (Coordinates or Station) X=43463,9.1 Y=208065,5.4		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-6		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
6. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
8. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +4.0	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/23/96 1330	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -41.0 Ft.	
9. TOTAL DEPTH OF HOLE 19.8 Ft.		18. TOTAL CORE RECOVERY FOR BORING 98 %	
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-41.0	0.0		SAND, fine grained, gray (SP)			-41.0
					3.0'	Lat-Lon 30 03 25.4N 81 12 23.8W Laboratory Data Depth USCS 3.0 SP 11.0 SP 16.0 SP 19.0 SP
-46.4	5.4		SAND, fine grained, gray, trace of shell fragments (SP)	98	11.0'	
-57.0	16.0		SAND, fine grained, gray (SP)		16.0'	
-60.8	19.8		End of Boring		19.0'	-60.8
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1		
1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe				
2. LOCATION (Coordinates or Station) X=42351,4.9 Y=207560,4.7		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW				
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE				
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-7		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0				
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2				
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +4.2				
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/23/96 1419				
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -47.3 Ft.				
9. TOTAL DEPTH OF HOLE 20.0 Ft.		18. TOTAL CORE RECOVERY FOR BORING 99 %				
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-47.3	0.0					-47.3
-47.8	.5		SAND, fine to medium grained, brown, trace of shell fragments (SP-SM)		1.0'	Lat-Lon 30 02 35.2N 81 14 30.2W
-49.3	2.0		SAND, fine grained, gray, trace of shell fragments, trace of shell gravel (SP)		3.0'	Laboratory Data Depth USCS 1.0 SP 3.0 SP-SM 6.0 SP-SM
-51.8	4.5		SAND, fine grained, gray-green, trace of shell fragments (SP-SM)			
-52.3	5.0		SAND, medium to coarse grained, gray-green, mostly shell fragments (SP)		6.0'	
-55.1	7.8		SAND, fine to medium grained, gray-green, a little shell fragments (SP-SM)			
-57.8	10.5		SILT, gray, laminations of sand (MH)	99		
-59.8	12.5		CLAY, gray, laminations of sand (CL)			
-60.8	13.5		CLAYEY SAND, fine grained, gray, trace of shell fragments (SC)			
-61.8	14.5		SILTY SAND, fine grained, gray (SM)			
-64.6	17.3		SILTY SAND, fine grained, light gray, some shell fragments (SM)			
-67.3	20.0		SILTY SAND, fine to medium grained, gray, some shell fragments (SM)			
			End of Boring			-67.3
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=41380,2.4 Y=202900,2.8		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-8		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +4.1	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/24/96 1503	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -10.3 Ft.	
9. TOTAL DEPTH OF HOLE 19.8 Ft.		18. TOTAL CORE RECOVERY FOR BORING 81 %	
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-10.3	0.0		SAND, fine grained, light gray, trace of shell fragments (SP)			-10.3
			Lens of mostly shell fragments from 1.6' to 1.9'			Lat-Lon 29 54 53.7N 81 16 19.5W
					3.0'	Laboratory Data Depth USCS 3.0 SP 6.0 SP 8.0 SP 12.5 SP 16.0 SP-SM
-15.8	5.5		SAND, fine to coarse grained, brown, mostly shell fragments, trace of shell gravel (SP)			
-17.0	6.7		SAND, fine grained, light gray, a little shell fragments (SP)			
					8.0'	
-21.0	10.7		SAND, fine grained, gray (SP)	81		
					12.5'	
					16.0'	
-30.1	19.8		End of Boring			-30.1
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=43189,6.7 Y=206333,2.5	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	14. TOTAL NUMBER OF CORE BOXES 2	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-9	15. ELEVATION GROUND WATER Tide = +2.9	16. DATE HOLE STARTED COMPLETED 6/22/96 1107	
5. NAME OF DRILLER NICK PRICE	17. ELEVATION TOP OF HOLE -49.9 Ft.	18. TOTAL CORE RECOVERY FOR BORING 87 %	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		
7. THICKNESS OF BURDEN 0 Ft.			
8. DEPTH DRILLED INTO ROCK N/A Ft.			
9. TOTAL DEPTH OF HOLE 19.8 Ft.			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-49.9	0.0		SAND, fine grained, gray, trace of shell fragments, trace of shell gravel (SP-SM)			-49.9
					2.0'	Lat-Lon 30 00 33.9N 81 12 54.6W
						Laboratory Data Depth USCS 2.0 SP-SM
-53.4	3.5		CLAY, gray, laminations of fine sand (CL)			
				87		
-62.7	12.8		SILTY GRAVEL, gray, mostly shell fragments (GM)			
-64.1	14.2		SILT, light gray (ML)			
-65.8	15.9		SILTY SAND, fine grained, light gray, trace of shell fragments (SM)			
-69.7	19.8		End of Boring			-69.7
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DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
2. LOCATION (Coordinates or Station) X=43640,4.0 Y=205838,8.2		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-10		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +2.1	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/22/96 1021	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -45.4 Ft.	
9. TOTAL DEPTH OF HOLE 19.4 Ft.		18. TOTAL CORE RECOVERY FOR BORING 100 %	
19. SIGNATURE OF GEOLOGIST ROCKLAND BURR			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-45.4	0.0					-45.4
			SAND, fine grained, gray, trace of shell fragments (SP)		2.0'	Lat-Long 29 59 45.0N 81 12 3.2W Laboratory Data Depth USCS 2.0 SP 4.5 SP 7.5 SP-SM 11.0 SP-SM
-51.9	6.5		SAND, fine grained, gray-green, a little shell fragments (SP-SM)		7.5'	
				100	11.0'	
-58.6	13.2		CLAY, gray, laminations of sand (CH)			
-63.4	18.0		SANDY CLAY, green, trace of shell fragments (CL)			
-64.8	19.4		End of Boring			-64.8
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DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=41523,5.0 Y=202771,6.3	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	14. TOTAL NUMBER OF CORE BOXES 2	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-11	15. ELEVATION GROUND WATER Tide = +4.1	16. DATE HOLE STARTED COMPLETED 6/24/96 1538	
5. NAME OF DRILLER NICK PRICE	17. ELEVATION TOP OF HOLE -14.3 Ft.	18. TOTAL CORE RECOVERY FOR BORING 100 %	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		
7. THICKNESS OF BURDEN 0 Ft.			
8. DEPTH DRILLED INTO ROCK N/A Ft.			
9. TOTAL DEPTH OF HOLE 19.6 Ft.			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-14.3	0.0		SAND, fine grained, gray (SP)			-14.3
					15'	<u>Lat-Lon</u> 29 54 41.0N 81 16 3.2W <u>Laboratory Data</u> Depth USCS 1.5 SP 6.5 SP 13.5 SP 19.0 SP-SM
				100	6.5'	
					13.5'	
			A little shell fragments at 16.5'		19.0'	
-33.9	19.6		End of Boring			-33.9
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
2. LOCATION (Coordinates or Station) X=42748,5.6 Y=203604,4.8		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-12		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +2.4	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/22/96 1648	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -42.1 Ft.	
9. TOTAL DEPTH OF HOLE 19.4 Ft.		18. TOTAL CORE RECOVERY FOR BORING 100 %	
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-42.1	0.0		SAND, fine grained, gray, trace of shell fragments (SP)			-42.1
					1.5'	Lat-Lon 29 56 3.7N 81 13 44.2W
						Laboratory Data
						Depth USCS
						1.5 SP
						4.5 SP
						6.0 SM
						11.0 SM
						18.0 SM
-46.2	4.1		SILTY SAND, fine grained, gray trace of shell fragments, trace of shell gravel (SM)		4.5'	
					6.0'	
				100		
					11.0'	
-55.6	13.5					
-56.1	14.0		SILTY SAND, fine grained, green-gray, a little gravel (SM)			
			SAND, fine to medium grained, gray, trace of cemented sand gravel (SP-SM)			
					18.0'	
-61.5	19.4		End of Boring			-61.5
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
	2. LOCATION (Coordinates or Station) X=41922,6.4 Y=202559,9.2	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
	3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
	4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-13	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
	5. NAME OF DRILLER NICK PRICE	14. TOTAL NUMBER OF CORE BOXES 2	
	6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	15. ELEVATION GROUND WATER Tide = +1.7	
	7. THICKNESS OF BURDEN 0 Ft.	16. DATE HOLE STARTED COMPLETED 6/22/96 1736	
	8. DEPTH DRILLED INTO ROCK N/A Ft.	17. ELEVATION TOP OF HOLE -30.5 Ft.	
9. TOTAL DEPTH OF HOLE 19.8 Ft.	18. TOTAL CORE RECOVERY FOR BORING 80 %		
	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-30.5	0.0					-30.5
			SAND, fine grained, gray, trace of shell gravel (SP)		0.5'	Lat-Lon 29 54 20.1N 81 15 17.8W
-32.7	2.2		SAND, fine grained, gray (SP)		3.5'	Laboratory Data Depth USCS 0.5 SP 3.5 SP 11.5 SM 15.5 SM
-36.1	5.6		SILTY CLAY, gray, lenses of sand (CL)			
-38.2	7.7		SILTY SAND, fine grained, gray, trace of shell fragments, laminations of clay (SM)	80		
					11.5'	
-46.4	15.9		SILTY CLAY, gray, laminations of sand (CL)		15.5'	
-50.3	19.8		End of Boring			-50.3
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=41937,7.1 Y=201752,0.8	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	14. TOTAL NUMBER OF CORE BOXES 2	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-14	15. ELEVATION GROUND WATER Tide = +3.1	16. DATE HOLE STARTED COMPLETED 6/24/96 1306	
5. NAME OF DRILLER NICK PRICE	17. ELEVATION TOP OF HOLE -23.9 Ft.	18. TOTAL CORE RECOVERY FOR BORING 98 %	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		
7. THICKNESS OF BURDEN 0 Ft.			
8. DEPTH DRILLED INTO ROCK N/A Ft.			
9. TOTAL DEPTH OF HOLE 19.5 Ft.			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-23.9	0.0		SAND, fine grained, gray (SP)		0.5'	-23.9
						Lat-Lon 29 53 0.1N 81 15 15.8W
-26.9	3.0		SAND, fine grained, gray, trace of shell fragments (SP-SM)		2.5'	Laboratory Data Depth USCS 0.5 SP 2.5 SP 7.0 SP-SM 10.5 SP-SM
				98	7.0'	
					10.5'	
-37.3	13.4		SILT, gray, a little fine sand (ML)			
-40.8	16.9		SILT, gray, a little fine sand, trace of shell fragments (ML)			
-42.2	18.3		CLAY, gray, laminations of sand (CH)			
-43.4	19.5		End of Boring			-43.4
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=41437.07 Y=202732.44	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	14. TOTAL NUMBER OF CORE BOXES 2	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-15	15. ELEVATION GROUND WATER Tide = +3.9	16. DATE HOLE STARTED COMPLETED 6/24/96 1406	
5. NAME OF DRILLER NICK PRICE	17. ELEVATION TOP OF HOLE -11.6 Ft.	18. TOTAL CORE RECOVERY FOR BORING 85 %	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		
7. THICKNESS OF BURDEN 0 Ft.			
8. DEPTH DRILLED INTO ROCK N/A Ft.			
9. TOTAL DEPTH OF HOLE 19.3 Ft.			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-11.6	0.0	[Dotted pattern]	SAND, fine to coarse grained, brown, mostly shell fragments, trace of shell gravel (SP)	85		-11.6
-16.1	4.5		SAND, fine grained, light gray, trace of shell fragments (SP)		3.0'	Lat-Lon 29 54 37.1N 81 16 13.0W Laboratory Data Depth USCS 3.0 SP 6.0 SP 11.0 SP 14.5 SP-SM 17.0 SP-SM
-22.6	11.0		SAND, fine grained, gray (SP-SM)		6.0'	11.0'
-30.9	19.3		End of Boring			-30.9
Soils are field visually classified in accordance with the Unified Soils Classification System.						



DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=43278,8.2 Y=200646,2.1	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	14. TOTAL NUMBER OF CORE BOXES 2	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-16	15. ELEVATION GROUND WATER Tide = +2.0	16. DATE HOLE STARTED COMPLETED 6/24/96 1150	
5. NAME OF DRILLER NICK PRICE	17. ELEVATION TOP OF HOLE -51.6 Ft.	18. TOTAL CORE RECOVERY FOR BORING 98 %	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		
7. THICKNESS OF BURDEN 0 Ft.			
8. DEPTH DRILLED INTO ROCK N/A Ft.			
9. TOTAL DEPTH OF HOLE 19.5 Ft.			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-51.6	0.0					-51.6
			SILT, dark gray, a little fine sand, trace of shell fragments (ML)			Lat-Long 29 51 10.9N 81 12 43.3W
						Laboratory Data Depth USCS
-55.1	3.5		SILT, gray, trace of sand, a little shell fragments (ML)			
-56.5	4.9		SANDSTONE, gray, fossiliferous (SS)			
-57.6	6.0		SILTY SAND, fine grained, gray, trace of shell fragments (SM)			
-59.7	8.1		SILTY SAND, fine grained, gray-green (SM)	98		
-68.0	16.4		LIMESTONE, light brown, fossiliferous (LM)			
-70.4	18.8		SILTY SAND, fine grained, gray-green, trace of cemented sand (SM)			
-71.1	19.5		End of Boring			-71.1
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
2. LOCATION (Coordinates or Station) X=43239,7.8 Y=199214,2.8	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	14. TOTAL NUMBER OF CORE BOXES 2	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-17	15. ELEVATION GROUND WATER Tide = +1.5	16. DATE HOLE STARTED COMPLETED 6/24/96 1115	
5. NAME OF DRILLER NICK PRICE	17. ELEVATION TOP OF HOLE -50.1 Ft.	18. TOTAL CORE RECOVERY FOR BORING 94 %	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		
7. THICKNESS OF BURDEN 0 Ft.			
8. DEPTH DRILLED INTO ROCK N/A Ft.			
9. TOTAL DEPTH OF HOLE 18.8 Ft.			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-50.1	0.0		SILT, gray-green, trace of shell fragments (ML)			-50.1 Lat-Lon 29 48 49.1N 81 12 47.4W Laboratory Data Depth USCS
-56.2	6.1		SANDY CLAY, gray, trace of shell fragments (CL)			
-59.6	9.5		SILTY SAND, fine grained, gray, a little shell fragments, lenses of clay from 11' to 12' (SM)	94		
-63.8	13.7		SILTY SAND, fine grained, light brown, traces of shell gravel (SM)			
-67.1	17.0		SILTY SAND, fine grained, green-gray (SM)			
-68.9	18.8		End of Boring			-68.9
Soils are field visually classified in accordance with the Unified Soils Classification System.						





DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
	2. LOCATION (Coordinates or Station) X=43186,3.6 Y=198138,6.4	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
	3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
	4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-18	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
	5. NAME OF DRILLER NICK PRICE	14. TOTAL NUMBER OF CORE BOXES 2	
	6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	15. ELEVATION GROUND WATER Tide = +0.9	
	7. THICKNESS OF BURDEN 0 Ft.	16. DATE HOLE STARTED COMPLETED 6/24/96 1030	
	8. DEPTH DRILLED INTO ROCK N/A Ft.	17. ELEVATION TOP OF HOLE -48.5 Ft.	
9. TOTAL DEPTH OF HOLE 19.4 Ft.	18. TOTAL CORE RECOVERY FOR BORING 83 %		
	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-48.5	0.0		SILT, gray, a little shell fragments (ML)			-48.5 Lat-Lon 29 47 2.7N 81 12 53.2W Laboratory Data Depth USCS
-55.3	6.8		CLAY, gray, laminations of sand (CH)	83		
-63.7	15.2		SILTY SAND, fine to coarse grained, gray, a little shell fragments (SM)			
-67.9	19.4		End of Boring			-67.9
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP		10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe
2. LOCATION (Coordinates or Station) X=43953,4.0 Y=197303,5.6		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.		12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-19		13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
5. NAME OF DRILLER NICK PRICE		14. TOTAL NUMBER OF CORE BOXES 2	
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		15. ELEVATION GROUND WATER Tide = +0.3	
7. THICKNESS OF BURDEN 0 Ft.		16. DATE HOLE STARTED COMPLETED 6/24/96 0932	
8. DEPTH DRILLED INTO ROCK N/A Ft.		17. ELEVATION TOP OF HOLE -47.2 Ft.	
9. TOTAL DEPTH OF HOLE 19.4 Ft.		18. TOTAL CORE RECOVERY FOR BORING 98 %	
		19. SIGNATURE OF GEOLOGIST ROCKLAND BURR	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-47.2	0.0					-47.2
			SAND, fine grained, gray, trace of shell fragments (SP)			Lat-Lon 29 45 40.4N 81 07 39.1W Laboratory Data Depth USCS 3.5 SP 7.0 SP-SM 11.5 SP-SM 16.0 SP-SM 18.0 SP
-53.7	6.5		SAND, fine grained, gray-green, trace of shell fragments (SP-SM)		3.5'	
-56.0	8.8		SAND, fine grained, gray, trace of shell fragments (SP-SM)	98	7.0'	
					11.5'	
-64.1	16.9		Lens of fat clay @ 16.7'		16.0'	
			SAND, fine grained, gray, trace of shell fragments, trace of shell gravel (SP)		18.0'	
-66.6	19.4		End of Boring			-66.6
			Soils are field visually classified in accordance with the Unified Soils Classification System.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1
	1. PROJECT ST. JOHNS COUNTY SPP	10. SIZE AND TYPE OF BIT 3 1/2" Drive Shoe	
	2. LOCATION (Coordinates or Station) X=44789,6.7 Y=204239,2.4	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
	3. DRILLING AGENCY ALPINE OCEAN SURVEY, INC.	12. MANUFACTURER'S DESIGNATION OF DRILL VIBRACORE	
	4. HOLE NO. (As shown on drawing title and file number) CB-SJ96-20	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0 undisturbed: 0	
	6. NAME OF DRILLER NICK PRICE	14. TOTAL NUMBER OF CORE BOXES 2	
	6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED	15. ELEVATION GROUND WATER Tide = +1.2	
	7. THICKNESS OF BURDEN 0 Ft.	16. DATE HOLE STARTED COMPLETED 6/22/96 0921	
	8. DEPTH DRILLED INTO ROCK N/A Ft.	17. ELEVATION TOP OF HOLE -55.3 Ft.	
9. TOTAL DEPTH OF HOLE 20.0 Ft.	18. TOTAL CORE RECOVERY FOR BORING 95 %		
	19. SIGNATURE OF GEOLOGIST ROCKLAND BURR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-55.3	0.0					-55.3
-57.6	2.3		SAND, fine grained, green-gray (SP)		2.0'	Lat-Long 29 57 6.9N 81 09 52.3W
-62.9	7.6		SAND, fine grained, green-gray, trace of shell fragments (SP-SM)		6.0'	Laboratory Data Depth USCS 2.0 SP 6.0 SP-SM
-72.8	17.5		SILTY CLAY, green (CL)	95		
-75.3	20.0		SAND, fine grained, brown, trace of cemented sand gravel (SP-SM)			
			End of Boring			-75.3
			Soils are field visually classified in accordance with the Unified Soils Classification System.			