	LING	LOG	South Atlantic		INSTAL Jack		lle Di	strict		SHEET 1 Of 2 Si	
1. PROJ	ЕСТ				9. SIZ	E AND	ΤΥΡΙ	E OF BIT Se	e Remarks		
Fla	agler HSDI	R			10. CC	ORDI	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
-	fshore Sar		-					e, FLE (U.S. Ft.)		NAVD	88
	NG DESIGN				11. MA	NUF	ACTU	RER'S DESIGNATI			
	3-FC18-33			7 Y = 1,900,572 ONTRACTOR FILE NO.						MANUAL HAI	
	orps of Eng		1	UNIRACIUR FILE NU.	12. ТО	TAL	SAMP	LES	4	0	0)
					42 70	TAL		ER CORE BOXES	2	0	
Та	lon Smith								2		
	TION OF E	BORING	G DEG. FROM	BEARING	14. EL	EVAT		ROUND WATER			
	ERTICAL NCLINED		VERTICAL		15. DA	TE BO	ORING)	STARTED		
					40 51				01-01-19	01-01-	19
6. THICH	KNESS OF	OVERE	BURDEN N/A					OP OF BORING	-57.52 Ft.		
7. DEPT	H DRILLED	ΙΝΤΟ	ROCK N/A					VERY FOR BORIN	00 /0		
8. TOTA	L DEPTH O	F BOR	19.88 Ft.		18. 50			AND TITLE OF INS	SPECTOR		
			13.0011.				Davi	dson, Geologist		-	
ELEV. (ft)	DEPTH (ft)	EGEND	CLASSIFICATION		%	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
(ft)	(ft)	Ê	CLASSIFICATION	OF MATERIALS	RÉC.	Sam (ŬĎ		REWARKS	11 1	
					_		<u> </u>				T
-57.52	0.00							-57.5			
F		ŀ⊡Ī	SAND, poorly-graded, m sand-sized quartz, little f		100						
F			sand-sized shell, trace s	ilt, 10Y 6/1 greenish	100			-58.5	Vibracore		
Ŀ	-		gray (SP)	-		1		-50.5			
F		•				<u> </u>					
F	-				100				Vibracore		
-60.14	2.62							-60.1			
-		1	SAND, poorly-graded, m			2	1				
F	-	$\left \cdot \cdot \cdot \right $	sand-sized quartz, little f sand-sized shell, trace s	ine to medium-grained							
È			10Y 5/1 greenish gray (
F	-	· · · ·									
F					100				Vibracore		
F	-				100				VIBIGOOIC		-
Ŀ		····									
-		$\left \cdot \cdot \cdot \right $									
	-	$ \cdots $									
-64.14 -	6.62	ł∵ ł	SAND, poorly-graded, m	ostly fine-grained				-64.1			-
-		 	sand-sized quartz, some	fine to coarse-grained		-3-					- - ·
F		$ \cdots $	sand-sized shell, trace s	ilt, 10Y 5/1 greenish	100				Vibracore		
	-	[⊡]	gray (SP)								
-66.14	8.62	 ····						-65.9			_
-00.14 -	0.02	ŀ∷ŀ	SAND, poorly-graded, m	ostly fine-grained		4					
	-	[⊡]	sand-sized quartz, little f	ine to medium-grained		_					
-		 ····	sand-sized shell, trace s gray (SP)	III, IUY 5/I greenish							
-67.64	- 10.12										
ļ		ŀ. 1	SAND, poorly-graded wit fine-grained sand-sized	n silt, mostly							
-68.64	-11 12	 :•!!#	silt, shell size up to 2", 1	0Y 5/1 greenish gray							
		╏╷┽╎┽╏	∖(SP-SM)		1						
		: :	SAND, silty, mostly fine- quartz, little silt, few fine		100				Vibracore		
	-		sand-sized shell, 10Y 5/								
F		 ↓↓↓↓									
	-	!									
E											
F		 ↓†↓†									
	-	: :									
		11111				1	I I	1			1
F		+ +									

DRILLING L	OG (Cont. Sheet)	INSTALLA Jacksor		Dict-1	. +		SHEET 2 OF 2 S	
PROJECT	· · ·					M		HEET 3
Flagler HSDR		State P	ane, l	FLE (U.S. F	t.) NAD83	NAVD88	
LOCATION COORDINA		ELEVATIO		OF B	ORING	· · · · · · · · · · · · · · · · · · ·		
X = 669,837 Y =		-57.5 F	t.					
ELEV. DEPTH	CLASSIFICATION OF MATER	RIALS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
73.24 - 15.72	SAND, silty, mostly fine to coarse- sand-sized shell, little silt, few fine- sand-sized quartz, few sand to grav limestone, 10Y 4/1 dark greenish g	grained /el-sized	100			Vibraco	re	
76.02 18.50	From El75.5 to -76.0 Ft., mostly gravel-sized shell, little silt, few fine sand-sized quartz, 10Y 4/1 dark gra	-grained	0			-76.0 Vibraco (No Reco		
-77.40 - 19.88						-77.4		
	ID DEPTH CLASSI 1 1.0/1.5 5 1 1.0/1.5 5 2 2.6/3.1 5 3 6.6/7.1 5	in Classification RATORY IFICATION SP* SP* SP* SP* SP* SP*						

DRI	LLING	106	DIVISIO			INSTAL			0 0		SHEET	
1. PRO.		200	Sout	th Atlantic				lle Dis		Cas David	OF 2	SHEET
	lagler HSD	P							OF BIT	See Remarks	L VERTIC	A1
	ffshore Sa		Ircos 3A						e, FLE (U.S.		NAV	
	ING DESIG		-	LOCATION COOP	RDINATES	11. MA				NATION OF DRILL		
	B-FC18-34			,	Y = 1,901,300						MANUAL H	AMMER
	LING AGE		05041	CO	NTRACTOR FILE NO.	12. то	TAL	SAMPL	ES	DISTURBED	UNDISTURE	ED (UD)
	orps of En	0	; - CESAJ	i		42 70	TAL 1			4	0	
	alon Smith								ER CORE BO	-		
-	CTION OF	BORIN	3	DEG. FROM	BEARING	14. EL	EVAT	ION G	ROUND WAT	ER STARTED	COMPL	TED
_	VERTICAL					15. DA	TE BO	DRING	;	12-04-18		
6. THIC	KNESS OF	OVER		N/A	1	16. EL	EVAT		OP OF BORI			
				N/A		17. то	TAL	RECON	/ERY FOR BO	DRING 100 %		
7. DEP	TH DRILLEI					18. SI	GNAT	URE A	ND TITLE OF	FINSPECTOR		
8. ТОТ	AL DEPTH		ING 10	0.00 Ft.				t Davi	dson, Geolo	ogist		
ELEV. (ft)	DEPTH (ft)	LEGEND	CL	LASSIFICATION C	OF MATERIALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/	N-VALUE
-59.35	0.00								-59.4			
	-	·		orly-graded, mos								
	-	····			nd to gravel-sized eenish gray (SP)	100			-60.4	Vibracore	9	
	-		-	0	/		1		-00.4			
	_						⊢.́					
	-	···										
	_					100				Vibracore)	
		<u> </u>]										
	-	[···]										
-63.35	4.00			orly-graded, mos	stly fine-grained		_		-63.4			
	-		sand-sized	d quartz, little fin	e to medium-grained		2					
-64.35	5.00		sand-sized gray_(SP).		, 10Y 6/1 greenish	100				Vibracore		
]		 ⊡]	^L SAND, po	orly-graded, mos	stly fine-grained							
	-		sand-sized	d shell, trace silt,	e to coarse-grained 10Y 5/1 greenish				-65.4			
	_		gray (SP)		-		3					
	-					100				Vibracore	`	
	_											
-67.35	8.00	…							-67.4			
	_	⊡	SAND, por	orly-graded, mos	stly fine-grained nd to gravel-sized		4					
	-				eenish gray (SP)	100						
	-	[⊡]				100				Vibracore	9	
-69.35	- 10.00								-69.4			
50.00	-		NOTES:						00.7			
	-											
	 		1. USACE these origi		the custodian for							
	-		2. Soils a accordanc System.	re field visually c ce with the Unifie	lassified in ed Soils Classificatior	n						
			3. Labora	atory Testing Res	sults							
	-		SAMPLE	SAMPLE DEPTH	LABORATORY CLASSIFICATION							
		1			SENSOI IOATION	1						
	_		1	1.0/1.5	 SP*	-						

-62.5'

-64.5'

DR	ILLING	LOC	G (Co	nt. S	hee	t)			INSTA	ksonv		Distric	t						SHEET OF 2		EETS	
PROJEC									COOR					ЛМ	ORIZO	ONTAL		_				1
	er HSDR									ite Plai					NAC				AVD8	8		
	ON COORDI	NATE	3						ELEVA						 							1
	670,507									9.4 Ft.												
ELEV. (ft)	DEPTH (ft)	LEGEND		CLAS	SIFICA	ATION	OF MA	ATERIA			жес.	BOX OR SAMPLE	RQD OR UD			REMAR	ks		BLOWS/	1 FT.	N-VALUE	
			1 2 3 4 *Lab \ curve	isual d	4.0/ 6.0/ 8.0/	/1.5 /4.5 /8.5 /8.5 cation	based	SP SP SP	* *												2	

oring Designation VB-EC18-35 D

DRILLING	LOG	DIVISION South Atlantic	Jack		on ille Dis	strict		SHEET 1 OF 2 SH	IEE.
1. PROJECT		Godiff Additio					e Remarks		
Flagler HSD	R					SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Offshore Sa	nd Sourc	es 3A		State	e Plan	e, FLE (U.S. Ft.)	NAD83	NAVD8	8
2. BORING DESIG		LOCATION COORDINATES	11. M/	ANUF	ACTU	RER'S DESIGNATIO		AUTO HAMME	
VB-FC18-35		X = 671,166 Y = 1,902,094 CONTRACTOR FILE NO.						MANUAL HAN	
Corps of En		1	12. TC	TAL	SAMPI		4	0	(0
4. NAME OF DRILL	ER		13. тс	TAL	NUMB	ER CORE BOXES	2		_
Talon Smith		DEG. FROM BEARING	14. EL	.EVAT	ION G	ROUND WATER			
	BURING	DEG. FROM BEARING VERTICAL	15. DA	TER			STARTED	COMPLETE	D
			15. 04		ORING	•	01-03-19	01-03-1	9
6. THICKNESS OF	OVERBU	rden N/A	16. EL	EVAT	ION T	OP OF BORING	-61.08 Ft.		
7. DEPTH DRILLED	INTO R	рск N/A				ERY FOR BORING	0070		
8. TOTAL DEPTH C	OF BORIN	IG 19.87 Ft.	18. SI			AND TITLE OF INSI dson, Geologist	PECTOR		
				-	-			7	_
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
-61.08 0.00						-61.1			
-		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some sand	100	1	1	-61.6	Vibracore		\square
F	[···] †	o gravel-sized shell, trace silt, 10Y 6/1 greenish	ι 📃	1	1				\square
-	l.∷. !	gray (SP)	100		1		Vibracore		
-62.71 - 1.63	l ∷ k	SAND, poorly-graded, mostly fine to			-	-62.7			—
E E	. [.]	medium-grained sand-sized guartz. little sand to		2	4				
-63.71 - 2.63		gravel-sized shell, trace silt, 10Y 6/1 greenish gray (SP)							
	$ \cdots ^{\vee}$	SAND, poorly-graded, mostly fine-grained	100				Vibracore		
		sand-sized quartz, few sand to gravel-sized shell, trace silt, silt seam at 0.8' and 1.1' depths			1				1-
<u>-65.11 4.03 - </u>	l K	10Y 6/1 greenish gray (SP) SAND, poorly-graded, mostly fine-grained							
F		sand-sized quartz, little fine to medium-grained				-65.7			
E .		sand-sized shell, trace silt, shell seam at 8.5' depth, 10Y 4/1 dark greenish gray (SP)		3					
E E		······································							
E.) <i>(</i> 1		
È			100				Vibracore		
-68.31 7.23		SAND, poorly-graded with silt, mostly	\dashv			-68.7			
Ł	1.1111	fine-grained sand-sized quartz, few fine to medium-grained sand-sized shell, few silt,		4	1				\square
-69.71 - 8.63		10Y 6/1 greenish gray (SP-SM)			1				
-03.11 - 0.03		SAND, silty, mostly fine-grained sand-sized	\neg						
F		quartz, little silt, trace shell, interbedded clay, 5GY 6/1 greenish gray (SM)							
F		······································							
F									
E E			1						
F			100				Vibragara		
È			100				Vibracore		
F									
F									
F									
F									
-74.71 - 13.63		211 T in arrangia L came cand to group laized		1	1	1			1
<u>-74.71 - 13.63</u> 	:	SILT, inorganic-L, some sand to gravel-sized shell, few fine-grained sand-sized quartz, 5GY 4/1 dark greenish gray (ML)							

	G (Cont. Sheet)	INSTALLAT Jacksor				g Designation VB-FC18-	SHEET 2 OF 2 SHEETS
PROJECT	. ,	Jacksor				IM HORIZONTAL	VERTICAL
Flagler HSDR		State Pl				1 1	NAVD88
LOCATION COORDINATE	S	ELEVATIO	N ТОР	OF B	ORING	ì	
X = 671,166 Y = 1,	,902,094	-61.1 F	t.				
ELEV. DEPTH	CLASSIFICATION OF MATERIA	LS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT. N-VALUE
-77.31 16.23	shell, few fine-grained sand-sized qua 5GY 4/1 dark greenish gray (CL) From El76.7 to -77.3 Ft., little silt, fe medium-grained sand-sized shell, trac 5GY 4/1 dark greenish gray SAND, silty, mostly sand to gravel-sized little silt, few fine-grained sand-sized o 5GY 6/1 greenish gray (SM)	ew fine to ce quartz, 	100			Vibracore	
- <u>79.58 18.50 1111</u>						-79.6 Vibracore	
-80.95 - 19.87			0			(No Recovery -81.0	/)
	NOTES: 1. USACE Jacksonville is the custodi these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classified 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC 1 0.5/1.0 SP 2 1.6/2.1 SP 2 1.6/2.1 SP 3 4.6/5.1 SP-8 *Lab visual classification based on gracurve	TORY CATION * * * *					

DRILLIN	g log	DIVISION South Atlantic	INSTAL Jack		on ille Di:	strict		SHEET 1 OF 2 SH	EE
1. PROJECT		1					e Remarks		
Flagler H	ISDR		10. CC	ORD	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
	Sand Sourc					e, FLE (U.S. Ft.)		NAVD8	8
2. BORING DES VB-FC18		LOCATION COORDINATES X = 671,834 Y = 1,902,839	11. M	ANUF	ACTUI	RER'S DESIGNATI		AUTO HAMME MANUAL HAM	
3. DRILLING A		CONTRACTOR FILE N					DISTURBED	UNDISTURBED	
	Engineers -	CESAJ	12. TO	TAL	SAMPI	LES	3	0	
4. NAME OF DE			13. то	TAL	NUMB	ER CORE BOXES	2		
Talon Sn 5. DIRECTION		DEG. FROM BEARING		EVAT	ION G	ROUND WATER			
		VERTICAL	15. D/	TE B	ORING	6	STARTED 01-03-19	COMPLETE 01-03-1	
6. THICKNESS	OF OVERBU	rden N/A	16. EL	EVAT	ION T	OP OF BORING	-58.50 Ft.		
7. DEPTH DRIL	LED INTO RO	OCK N/A	17. то	TAL	RECO	VERY FOR BORIN	G 95 %		
8. TOTAL DEP		G 19.91 Ft.	18. SI			ND TITLE OF INS	PECTOR		
		- 19.911t.		-		dson, Geologist		79	
ELEV. DEPT (ft) (ft)	H LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
-58.50 0.00						-58.5			
-		SAND, poorly-graded, mostly fine to nedium-grained sand-sized quartz, little fine	, to						
Ē		coarse-grained sand-sized shell, trace silt,							
-	[∧]	N 5/ gray (SP)	100				Vibracore		
-						60.5			
-				1	1	-60.5			-
E				<u> </u>	1				
F			100				Vibracore		
F									
-62.59 4.09					-	-62.6			L
È		SAND, poorly-graded, mostly fine-grained and-sized quartz, trace shell, trace silt,		2					
E		N 5/ gray (SP)							
-64.09 5.59			100						
E		SAND, poorly-graded, mostly fine-grained	100		l		Vibracore		
-	s i s	and-sized quartz, few fine to coarse-grained and-sized shell, trace silt, shelly seam at 7.							
F	c	lepth, 5GY 5/1 greenish gray(SP)				-65.6			
-66.09 - 7.59				3	1	-00.0			╞
-		SAND, poorly-graded with silt, mostly		Ē	1				
-66.59 <u>8.09</u>		ine-grained sand-sized quartz, few fine to coarse-grained sand-sized shell, few silt,	h						
Ę		5GY 5/1 greenish gray (SP-SM)	/		1				
F		SAND, silty, mostly fine-grained sand-sized juartz, little silt, few fine to coarse-grained							
F		and-sized shell, 5GY 5/1 greenish gray (SI	M)		1				
F		From El67.6 to -71.8 Ft., mostly fine-grain and-sized quartz, little sand to gravel-sized	led		1				
F	s	hell, little silt, silty seam at 12.2 depth. she	11						
F		ize up to 3", 10Y 5/1 greenish gray	100		1		Vibracore		ĺ
F	 <u> </u> <u> </u> <u> </u>				1				
F	┃┇┥┇								
Ę	 ∔‡∔ <u>†</u>				1				
F	│ <u>│</u> ↓↓↓↓								
<u>-71.79 13.29</u>		SAND, clayey, mostly fine-grained sand-size	ed		1				
F		uartz, few fine to medium-grained sand-size	ed						
F	Silis S	hell, 5GY 5/1 greenish gray (SC)			1				
Ę				[1				
	<u>V//////</u>			1	1		(Continued)		1

	DG (Cont. Sheet)	INSTALLA				g Designation VB-FC	SHEET 2	
PROJECT		Jacksor COORDINA					OF 2 SH	EETS
Flagler HSDR		State P					NAVD88	
LOCATION COORDINAT		ELEVATIO						
X = 671,834 Y =		-58.5 F	t.					
ELEV. DEPTH	CLASSIFICATION OF MATER	RIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-74.19 - 15.69 -74.19 - 15.69 	SAND, silty, mostly sand to gravel-i little fine-grained sand-sized quartz trace plant debris, 5G 6/1 greenish From El76.6 to -77.5 Ft., some fi coarse-grained sand-sized shell, so fine-grained sand-sized quartz, 10Y greenish gray NOTES: 1. USACE Jacksonville is the custor these original files. 2. Soils are field visually classified accordance with the Unified Soils C System. 3. Laboratory Testing Results SAMPLE SAMPLE ID DEPTH CLASSI 1 2.0/2.5	sized shell, , little silt, gray (SM) ne to ome silt, little (7/1 light odian for in Classification RATORY FICATION SP* SP* SP* *	RÉC.	BOX		-77.5 Vibrace -78.4 (No Reco	ore	

NO DREDGE

DRI	LLING	106	DIVISION	11	NSTAL		DN			SHEET 1	
I. PRO.			South Atlantic		-		lle Dis		Demonster	OF 2 S	HEETS
	lagler HSD	R						SYSTEM/DATUM	Remarks	VERTICAL	
	offshore Sa		rces 3A					e, FLE (U.S. Ft.)	NAD83	NAVD	
2. BORI	ING DESIG	NATION	LOCATION COORDINATES		1. MA			RER'S DESIGNATIO			
	B-FC18-3		X = 672,464 Y = 1,90 CONTRACTOR					'r		MANUAL HAI	
	orps of En		1		2. ТО	TAL S	SAMPL		2	0	000)
4. NAM	E OF DRILI	.ER		1:	3. ТО	TAL I	NUMB	ER CORE BOXES	2		
	alon Smith		DEG. FROM BEARIN	1	4. EL	EVAT	ION G	ROUND WATER			
\boxtimes v	VERTICAL	BORING	VERTICAL		5. DA	TE BO	ORING	i	STARTED 01-03-19	COMPLET 01-03-	
6. THIC	KNESS OF	OVERB	urden N/A	10	6. EL	EVAT	ION T	OP OF BORING	-61.42 Ft.		
7. DEPT	TH DRILLEI	D INTO P	ROCK N/A					ERY FOR BORING	95 %		
з. тот/	AL DEPTH		NG 19.90 Ft.	1	8. SI			ND TITLE OF INSP	ECTOR		
			19.90 1 1.				-	dson, Geologist			ш
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIA	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	N-VALUE
61.42	0.00		CAND recently supplied up of the first and	in a d				-61.4			
ļ	-		SAND, poorly-graded, mostly fine-gra sand-sized quartz, few sand to grave	l-sized		1					
62.57	- 		shell, few silt, 10Y 5/1 greenish gray	(SP)							
			SAND, poorly-graded with silt, mostly		100				Vibracore		
ŀ			fine-grained sand-sized quartz, few s to coarse-grained sand-sized shell,	lit, few fine	100				VIDIACOLE		
ŀ	_		10Y 4/1 dark greenish gray (SP-SM))							
ŀ	-							-64.5			
F	-		From El64.3 to -65.8 Ft., mostly fir sand-sized quartz, little sand to grave			2		04.0			
	-		shell, few silt, 10Y 4/1 dark greenish			-					
65.82	- 4.40										
	-		CLAY, inorganic-H, little fine-grained sand-sized quartz, few fine to coarse								
ļ	-		sand-sized shell, with intermittent silt	ysand							
ŀ	_		layer., 10GY 5/1 greenish gray (CH)								
ŀ	-										
ŀ	_										
F											
F	-										
ļ	-										
ļ	-										
ļ	-		From El70.2 to -70.8 Ft., little fine		100				Vibracore		
70.84	- 9.42		coarse-grained sand-sized shell, few fine-grained sand-sized quartz,		4						
ŀ	-		10GY 5/1 greenish gray	/							
Ŀ	-		SAND, silty, mostly fine-grained sand shell, some silt, few fine-grained sand								
F	_		quartz, 5GY 5/1 greenish gray (SM)								
F	-										
ŀ	-										
ļ	-										
ļ	-										
	-										
ŀ	_										
ŀ		11111	From El75.2 to -76.6 Ft., mostly sa gravel-sized shell, little silt, few fine-g								
ŀ	-		sand-sized quartz, 5GY 4/1 dark gree								
			-	-							1

			INSTALLA	TION	1	Sonn	g Designation	VD-FC10-3	SHEET 2	
DRILLING	LOC	G (Cont. Sheet)	Jackso		Distrio	ct			OF 2 SH	EETS
								1	VERTICAL NAVD88	
Flagler HSDR			State P					<u>33 i</u>	NAVDoo	
LOCATION COORDI X = 672,464			ELEVATIO -61.4 F		OF B	ORING	1			
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIA		REC.	BOX OR SAMPLE	RQD OR UD	F	REMARKS	BLOWS/ 1 FT.	N-VALUE
-76.62 - 15.20 	L	CLAY, inorganic-L, little sand to grave shell, little fine-grained sand-sized qu 5GY 7/1 light greenish gray (CL)	el-sized artz,		ω. M					z
-79.02 - 17.60		SAND, clayey, some sand to gravel-s some clay, few fine-grained sand-size 5GY 5/1 greenish gray (SC) SAND, silty, some sand to gravel-size some silt, few fine-grained sand-size	ed quartz, ed shell,	100				Vibracore		
-80.42 19.00		5GY 5/1 greenish gray (SM)	u quaitz,				-80.4			
- <u>81.32 - 19.90</u>	NR			0			-81.3	Vibracore (No Recovery)		
		NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Cla System. 3. Laboratory Testing Results SAMPLE SAMPLE LABOR/ ID DEPTH CLASSIFI 1 0.0/0.5 SF 2 3.1/3.6 SP-5 *Lab visual classification based on gr curve	ATORY CATION 							

DRILLING		South Atlantic			ille Dis			OF 2 SH	JEE
	_					OF BIT See Remarks			
Flagler HSD			10. CC			SYSTEM/DATUM HORIZO		VERTICAL	
Offshore Sa			44 M			e, FLE (U.S. Ft.) NAD		NAVD8	
VB-FC18-38		X = 670,574 $Y = 1,899,901$	11. 141/	ANOF	ACTO	CER 5 DESIGNATION OF DRILL		TO HAMME NUAL HAN	
3. DRILLING AGEN		CONTRACTOR FILE NO.				DISTURBED		ISTURBED	
Corps of Eng	gineer	s - CESAJ	12. TC	DTAL S	SAMPI	_ES 4	0	I.	
4. NAME OF DRILL	ER		13. ТС	TAL I	NUMB	ER CORE BOXES 2			
Talon Smith			14. EL	EVAT	ION G	ROUND WATER			
5. DIRECTION OF I	BORIN	G DEG. FROM BEARING VERTICAL				STARTE	D (COMPLETE	D
			15. DA	TE B	ORING	01-0	6-19	01-06-1	9
6. THICKNESS OF	OVER	BURDEN N/A	16. EL	.EVAT	ION T	OP OF BORING -58.60 F	t.		
7. DEPTH DRILLED		ROCK N/A	17. то		RECO	/ERY FOR BORING 97 %			
7. DEPTH DRILLED		ROCK IN/A	18. SI	GNAT	URE A	ND TITLE OF INSPECTOR			
8. TOTAL DEPTH C	F BOF	RING 18.62 Ft.		Scot	t Davi	dson, Geologist			
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIALS	REC.	BOX OR SAMPLE	RQD OR UD	REMARK	S	BLOWS/ 1 FT.	
-58.60 0.00						-58.6			
-	$ \cdots $	SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine to medium-grained	100			\ <i>P</i> 1			
-		sand-sized shell, trace silt, 10Y 6/1 greenish	100			-59.6	core		
-		gray (SP)		1	1				T
E C				<u> </u>	1				
-			100			Vibra	ooro		
-	\cdots					VIDIA	2016		
-62.08 3.48	ŀ				4	-62.1			╞
-	• • • •	SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine to		2					┡
F		coarse-grained sand-sized shell, trace silt,	100			Vibra	ooro		
Ē		10Y 5/1 greenish gray (SP)				VIDIA	2016		
-	:•:•:					-64.0			
	$ \cdot \cdot \cdot \cdot$			3	1				Γ
<u>-64:58 - 5.98</u>		SAND, poorly-graded with silt, mostly			1				1-
F	 .	fine-grained sand-sized quartz, few silt, few							1
<u>ل</u>	ŀ ∶ İ	sand to gravel-sized shell, 10Y 5/1 greenish gray (SP-SM)	100			Vibra	core		1
Ł	 ::! !	J , ()							
ŀ	 · :								
F	 :.	From El66.5 to -71.0 Ft., mostly fine-grained sand-sized quartz, few silt, few fine to				-67.0			
Ę		coarse-grained sand-sized shell, silt seam at		4					
F	ŀ ∶	14.6' depth, 10Y 5/1 greenish gray			1				
ŀ	 :•!!								
F	ŀ: ∦₫								1
Ę	 								1
Ł									1
F	 . 1								
Ę	 : •		100			Vibra	core		
-70.98 - 12.38	 .:								
		SAND, silty, mostly fine-grained sand-sized							1
F		quartz, some sand to gravel-sized shell, little silt, 10GY 5/1 greenish gray (SM)							
Ę		From El71.8 to -74.3 Ft., some fine to							
Ł		coarse-grained sand-sized shell, some silt, few fine-grained sand-sized quartz, few clay,							
L	[+]+]	5G 5/1 greenish gray	1						
		ee e, r greenien gray							

	LOG	(Cont. Sheet)	INSTALLA				g Designation VB-FC1	SHEET 2
			Jackson COORDINA					OF 2 SHEET
ROJECT Flagler HSDR			State P				1	NAVD88
OCATION COORDIN	IATES		ELEVATIO					
X = 670,574 Y	′ = 1,89	99,901	-58.6 F	t.				
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT. N-VALUE
74.28 - 15.68		CLAY, inorganic-H, few fine-grained s quartz, trace shell, sand seam at 18.2 5G 5/1 greenish gray (CH)	and-sized ' depth,	100			Vibraco	re
76.60 18.00	MN MN						-76.6 Vibraco	re
77.22 - 18.62		NOTES:		0			-77.2 (No Recov	
		 USACE Jacksonville is the custodi these original files. Soils are field visually classified in accordance with the Unified Soils Classystem. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIE 1 1.0/1.5 SP 1 1.0/1.5 SP 2 3.5/4.0 SP 3 5.4/5.9 SP 4 8.4/8.9 SP *Lab visual classification based on gra curve 	TORY CATION * * * *					

DRII	LLING	LOG	DIVISION South Atlantic	INSTAL		יוו פ Di	strict		SHEET 1 OF 2 SI	
1. PROJ	ECT		South Adamic	_				ee Remarks	0. 2 0.	
Fk	agler HSD	R					SYSTEM/DATUM		VERTICAL	
Of	ffshore Sa	and Sou	rces 3A		State	e Plan	ne, FLE (U.S. Ft.)) NAD83	NAVD	38
2. BORI	NG DESIG	NATION	LOCATION COORDINATES	11. M			RER'S DESIGNAT			ER
	B-FC18-39		X = 671,269 Y = 1,900,652						MANUAL HA	
). 12. то	TAL	SAMP	LES	i i) (U
	orps of En	0	- CESAJ						0	
	alon Smith			13. TC	DTAL	NUMB	SER CORE BOXES	2		
	CTION OF		DEG. FROM BEARING	14. EL	EVAT		GROUND WATER			
	ERTICAL		VERTICAL	15. DA	TE B	ORING	G	STARTED	COMPLET	
			<u> </u>	40 51				01-06-19	01-06-	19
6. THIC	KNESS OF	OVERB	urden N/A	_			OP OF BORING	-57.18 Ft.		
7. DEPT	'H DRILLEI	D INTO I	ROCK N/A				VERY FOR BORIN			
8. ТОТА		OF BOR	NG 19.72 Ft.	1 10. 31			idson, Geologist			
				- <u> </u>	-	-			2	
ELEV. (ft)	DEPTH (ft)	EGEND	CLASSIFICATION OF MATERIALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
(11)	(11)	Ĕ		REC.	SAD	UD			74	
		+			1					Τ
-57.18	0.00	$+ \cdots +$	SAND, poorly-graded, mostly fine to			<u> </u>	-57.2			+
			medium-grained sand-sized quartz, little fine	to 100				Vibracore		
	—		coarse-grained sand-sized shell, trace silt, 10Y 5/1 greenish gray (SP)			1	-58.2			\perp
ŀ			101 3/1 greenisi gray (SF)		1					
Ē						1				
-59.48	2.30									
Ŀ			SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, trace silt,	100				Vibracore		
F	- -		trace shell, 10Y 5/1 greenish gray (SP)							
F										
-61.18	4.00	┟┄╎					-61.2			
ŀ			-SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, little fine	to	2					
ŀ			coarse-grained sand-sized shell, trace silt, tra	ice						
			gravel-sized shell at 8'., 10Y 5/1 greenish gra							╞
				100				Vibracore		
Ŀ	-									
ŀ										
F	—					-	-64.2			╀
		††			-3	1	1			1-
Ŀ										
-65.78	8.60			100				\/ibra====		
55.70		†∴⊦⊧	SAND, poorly-graded, mostly fine-grained	100				Vibracore		
			sand-sized quartz, few fine to medium-graine sand-sized shell, trace silt, 10Y 5/1 greenish	d						
E			gray (SP)				07.0			
F	-				_	-	-67.2			+
ļ	•				4	-				
	—	$ \cdots $								
Ŀ		 ∷:								
F										
F	_									
-69.96	12.78			100				Vibracore		
F	_	$V\!\!/$	CLAY, inorganic-L, little fine-grained sand-siz quartz, trace shell, 10GY 5/1 greenish gray	red						
F			(CL)							
	•	V/A			1	1				
' L	-	V / //								
-71.56	- 14.38		SAND, silty, some fine-grained sand-sized							

JUN 02

DRILLING	LOC	G (Cont. Sheet)	INSTALLA				g Designation VB-FC1	SHEET 2
PROJECT		. ,	Jackson COORDINA					OF 2 SHEETS
Flagler HSDR			State P				1	NAVD88
LOCATION COORD	NATES	S	ELEVATIO					
X = 671,269	1	900,652	-57.2 F	t.				
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERI	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT. N-VALUE
-72.26 - 15.08 - 		sand-sized shell, 10GY 5/1 greenish SAND, clayey, some sand to gravel- some clay, little fine-grained sand-si 10GY 5/1 greenish gray (SC) CLAY, inorganic-L, little sand to grav shell, few fine-grained sand-sized qu size up to 4", 10GY 5/1 greenish grav	sized shell, zed quartz, /el-sized uartz, shell	100			Vibraco	
75.68 18.50 - - - 76.90 19.72	NR			0			-75.7 Vibraco (No Recov -76.9	
		ID DEPTH CLASSIF 1 1.0/1.5 S 1 1.0/1.5 S 2 4.0/4.5 S 3 7.0/7.5 S	n assification ATORY FICATION P* P* P* P* P*				70.9	

DRILLING I	LOG	DIVISION South Atlantic	INSTAL		DN ille Di:	strict		SHEET 1 OF 2 SH	EF.
1. PROJECT		South Atlantic					Remarks		
Flagler HSDF	र		10. CC	ORD	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Offshore San						ne, FLE (U.S. Ft.)	NAD83	NAVD88	8
2. BORING DESIGN	ATION		11. M/	ANUF	ACTUI	RER'S DESIGNATIO		AUTO HAMME	
VB-FC18-40	CY	X = 671,919 Y = 1,901,410 CONTRACTOR FILE NO.				! o		MANUAL HAM	
Corps of Eng			12. TC	TAL	SAMPI		4	0	(-
4. NAME OF DRILLE	R	· · ·	13. ТС	TAL	NUMB	SER CORE BOXES	2		_
Talon Smith			14. EL	EVAT	ION G	GROUND WATER			
5. DIRECTION OF B	ORING	DEG. FROM BEARING VERTICAL				_	STARTED	COMPLETE	D
			15. DA	IE B	URING	3	01-06-19	01-06-19	9
6. THICKNESS OF (OVERBUI	rden N/A	16. EL	EVAT	ION T	OP OF BORING	-58.18 Ft.		
7. DEPTH DRILLED	INTO RO	OCK N/A	17. то	TAL	RECO	VERY FOR BORING	87 %		
8. TOTAL DEPTH O		G 19.63 Ft.	18. SI			AND TITLE OF INSP	ECTOR		
		19.03 Ft.		-		idson, Geologist T			_
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
-58.18 0.00						-58.2			
-		SAND, poorly-graded, mostly fine to	100			-58.7	Vibracore		
-		nedium-grained sand-sized quartz, little sand t gravel-sized shell, trace silt, 5Y 6/1 gray (SP)		1		00.7			
			100	-		-59.6	Vibracore		ĺ –
-				2					
-									ĺ
-60.85 - 2.67	$\left\ \cdot \right\ _{2}$								Ĺ
- I		SAND, poorly-graded, mostly fine-grained and-sized quartz, few fine to coarse-grained	100				Vibracore		Ĺ
-	· s	and-sized shell, trace silt, 5Y 5/2 olive gray							
		SP)							ĺ –
	•••			3		-62.6			-
-									Ĺ
									Ĺ
-64.05 - 5.87		SAND, poorly-graded, mostly fine-grained	100				Vibracore		
	· • • • • • • • •	and-sized quartz, little-fine to-coarse-grained-							-
-	··· s	and-sized shell, trace silt, 5Y 5/2 olive gray SP)							Ĺ
-65.55 - 7.37	· · · · ·					-65.6			
-	fill fi	SAND, poorly-graded with silt, mostly ine-grained sand-sized quartz, little fine to		4					
-		coarse-grained sand-sized shell, trace silt, shel	1						
		ize up to 3", 10Y 4/1 dark greenish gray SP-SM)							
E I									
<u> </u>				[
-68.95 10.77									
-		SAND, silty, some sand to gravel-sized shell, come fine to medium-grained sand-sized	100				Vibracore		
F] <u> </u>]]	uartz, little silt, 5GY 5/1 greenish gray (SM)					VIDIACUIE		
F		rom El69.6 to -72.6 Ft., some fine-grained and-sized quartz, some silt, little sand to							
F		ravel-sized shell, shell seam at 15.5' depth,							
È I		0GY 5/1 greenish gray							
E	<u> </u>			[
	14141			1					l
E I								1	
-72.55 - 14.37		SAND, silty, mostly sand to gravel-sized shell,							

DRILLING LO)G (Cont. Sheet)	Jacksonville			<u> </u>			SHEET 2 OF 2 S		\$
PROJECT					M	HORIZONTAL		ICAL	-	1
Flagler HSDR		State Plane	, FLE (U.S. I	-t.)	NAD83	N	AVD88		
LOCATION COORDINATI		ELEVATION TO	P OF B	ORIN	3					
X = 671,919 Y = 1		-58.2 Ft.							ш	-
ELEV. DEPTH U		LS RÉG	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/ 1 FT.	N-VALUE	
-75.18 17.00	5G 5/1 greenish gray (SM)	10	0		-75.2	Vibracore	e			
	-		-		-13.2					+
-77.81 - 19.63		0			-77.8	Vibracore (No Recove				
	NOTES:									-2
	 USACE Jacksonville is the custodi these original files. Soils are field visually classified in accordance with the Unified Soils Cla System. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC 	ssification NTORY CATION								
	1 0.5/1.0 SP 2 1.4/1.9 SP 3 4.4/4.9 SP 4 7.4/7.9 SP *Lab visual classification based on gracurve	* *								

pring Designation VB-EC18-41 D

DRI	LLING	LOG	DIVISI	uth Atlantic			I		.ATIC Sonvi	lle Dis	trict			SHEET 1 OF 2 SH	IEET
1. PRO.	JECT		1 000									See Remarks			
FI	lagler HSD	R									SYSTEM/DATU		AL.	VERTICAL	
	offshore Sa		rces 3A						State	Plane	e, FLE (U.S. Ft	NAD83		NAVD	88
	ING DESIG			LOCATION	COORDI	NATES	11.					TION OF DRILL			R
	B-FC18-41			X = 672,		Y = 1,902,160								IANUAL HAN	
	LING AGEN				CONT	RACTOR FILE NO.	12.	то	TAL S	SAMPL	ES	DISTURBED	U	NDISTURBED) (UD
	orps of En		- CESAJ		1							4	_i	0	
							13.	то	TAL N	NUMBI	ER CORE BOXES	s 2			
	alon Smith		1	DEG. FRO	м	BEARING	14.	ELE	VAT	ION G	ROUND WATER				
-	VERTICAL	BORING		VERTICAL	-		45	DAT		ORING		STARTED		COMPLETE	D
<u> </u>	NCLINED						15.	DA		KING		01-06-19	9	01-06-1	9
6. ТНІС	KNESS OF	OVERB	URDEN	N/A			16.	ELE	VAT		OP OF BORING	-58.62 Ft.			
			POCK	N/A			17.	то	TAL F	RECOV	ERY FOR BORI	NG 96 %			
							18.	SIG	NAT	URE A	ND TITLE OF IN	ISPECTOR			
8. ТОТА	AL DEPTH C	OF BORI	NG 1	9.18 Ft.					Scott	Davio	dson, Geologis	st			
ELEV. (ft)	DEPTH (ft)	LEGEND	c	LASSIFICATI	ON OF	MATERIALS	R	% EC.	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/ 1 FT.	N-VALUE
											50.0				
-58.62	0.00	<u> </u>	SAND. D	oorly-graded,	mostlv	fine to	+				-58.6				\vdash
F	-		medium-	grained sand	-sized o	quartz, little sand t	o 1	00				Vibracore	;		1
ļ	-		gravel-siz gray (SF		ce silt, 1	0Y 6/1 greenish	L				-59.6				
ŀ	-	⊡ :	gray (Or	/					1						1
F	-							İ							1
ŀ	-														
ŀ	-	····					1	00				Vibracore	2		
ļ	-						'	55				VIDIACULE	•		
ŀ	-														1
		$\cdot \cdot \cdot$													
Ī	-										-62.9				
-63.44	4.82	 .∵. 						ſ	2	[_		
	-	1∖				fine-grained		t							
ļ	-		sand-size	ed quartz, fev	v sand f	to gravel-sized nish gray (SP)									1
	<u>-</u>	++		55 Sirt, 101 J	, i gieel			00				– – – – – Vibracere)		
-64.94	6.32	l⊷r		oorby marched	ma = 1 41	fine areined									1
t	-					fine-grained medium-grained									1
ŀ	_		sand-size	ed shell, trace	e silt, 10)Y 4/1 dark					-65.9				
F	-		greenish	gray (SP)			F		3						1
Ŀ	-							ł							1
ŀ	-	[····]													1
ļ	-						1	00				Vibracore	2		1
-67.94	9.32				_		_ '	~					•		1
	-					edium-grained									1
ļ	-	 <u> </u> <u> </u> <u> </u>				o coarse-grained Y 5/1 greenish					60.0				
ŀ	-		gray (SN		2, 10	, . <u>.</u>	┝		4		-68.9				\vdash
F	-							ļ	4						1
-69.94	11.32														1
F						coarse-grained w fine-grained									1
F	-					at 17.6 and 17.9									1
Ŀ	-		depth, sh			6/1 greenish gray									
ŀ	-		(SC)				1	00				Vibracore	9		
ļ	-														1
ŀ	-														1
F	-														
ŀ	-														
ŀ	-														
	DRM 183	36										(Continued)			

-62.5'

-64.5'

DRILLING	LOC	G (Cont. Sheet)	INSTALLA					SHEET 2
			Jackson					OF 2 SHEETS
ROJECT Flagler HSDR			COORDINA State P				1	VERTICAL NAVD88
		5	ELEVATIO					
X = 672,582			-58.6 F			-		
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIA	LS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT. N-VALUE
-73.64 - 15.02		CLAY, inorganic-L, little sand to grave shell, few fine-grained sand-sized qua size up to 6", 5G 4/1 dark greenish gr	rtz, shell	100			Vibracore	
77.12 18.50 - 77.80 19.18	NR			0			-77.1 Vibracore -77.8 (No Recove	e
		NOTES: 1. USACE Jacksonville is the custodi these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classified SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIE 1 1.0/1.5 SP 2 4.3/4.8 SP 3 7.3/7.8 SP 4 10.3/10.8 SM *Lab visual classification based on gracurve	TORY CATION * * * *					

DRI	LLING	LOC	DIVISION South Atlantic	INSTAL Jack		ille Di	strict OF 2 SI	HEE
1. PROJ	JECT		County marine				E OF BIT See Remarks	
FI	lagler HSD	R					SYSTEM/DATUM HORIZONTAL VERTICAL	
	ffshore Sa		urces 3A		State	e Plan	e, FLE (U.S. Ft.) NAD83 NAVD8	38
-	ING DESIGN		-	11. MA				ER
VI	B-FC18-42	2	X = 673,238 Y = 1,902,919					име
	LING AGEN		CONTRACTOR FILE NO.	12. TC		SAMPI) (U
	orps of Eng	0	s - CESAJ				4 0	
				13. TC	TAL I	NUMB	ER CORE BOXES 2	
	alon Smith		G DEG. FROM BEARING	14. EL	EVAT	ION G	ROUND WATER	
\boxtimes v	VERTICAL		VERTICAL	15. DA		ORING	STARTED COMPLET	ED
	NCLINED						01-06-19 01-06-7	19
6. THIC	KNESS OF	OVER	BURDEN N/A	16. EL	EVAT	ION T	OP OF BORING -57.09 Ft.	
7. DEPT	TH DRILLED		ROCK N/A	17. TC	TAL I	RECO	VERY FOR BORING 93 %	
				18. SI	GNAT	URE A	ND TITLE OF INSPECTOR	
8. TOTA	AL DEPTH C	OF BO	RING 19.89 Ft.		-	-	dson, Geologist	
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		
-57.09	0.00						-57.1	
	-	····	SAND, poorly-graded, mostly fine to medium-grained sand-sized guartz, little fine to					
	-	····	coarse-grained sand-sized shell, trace silt,	100			Vibracore -58.1	
	-		10Y 6/1 greenish gray (SP)		1	1		
-	-				<u> </u>	-		
	_							
	-			100			Vibracore	
	-							
-	-						60.7	
	-				2	1	-60.7	+
	-				2	-		
	-			100			Vibracore	
	-	$ \cdots $						
-62.70	- - 5.61	<u></u>					-62.7	
_	-	· : ·	SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine to medium-grained		3			
-	-		sand-sized shell, trace silt, 10Y 5/1 greenish			1		
	-		gray (SP)	100			Vibracore	
	-							
		[::::			.	$\left\{ \begin{array}{c} \\ \end{array} \right\}$	-64.7	╞
-65.20	-8.11	\downarrow	CAND poorly graded mostly first main at		4	4		
	-	····	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized					
-66.20	- 	::::	shell, trace silt, 10Y 5/1 greenish gray (SP)					
	-		SAND, silty, mostly fine-grained sand-sized	Τ				
l F	-	 <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	quartz, little silt, little clay, trace shell, 10Y 5/1 greenish gray (SM)					
	-							
	-							
I ⊦	-		From El68.2 to -69.7 Ft., some fine-grained					
l F	-	 <u>†</u> †	sand-sized quartz, some fine to coarse-grained	100			Vibracore	
	-		sand-sized shell, some silt, few clay,					
l f	-	 	10Y 5/1 greenish gray					
-	-	 <u>†</u> †	From El69.7 to -70.7 Ft., mostly fine-grained					
	-	 	sand-sized quartz, little silt, trace shell, 10Y 5/1 greenish gray					
-70.70	- 13.61 -	┨╧┙┤┥	SAND, poorly-graded with silt, mostly	_				
-70.70		1.11	fine-grained sand-sized quartz, few silt, trace			1		
-70.70		1						
-71.70	- 14.61		shell, 10Y 5/1 greenish gray (SP-SM) SAND, silty, mostly fine-grained sand-sized					

		INSTALLA	ION			g Designation VB-FC1	SHEET 2
	G (Cont. Sheet)	Jacksor		Distrio	ct		OF 2 SHEETS
							VERTICAL NAVD88
Flagler HSDR	6	State Pl					INAVDOO
LOCATION COORDINATE $X = 673,238$ $Y = 1,$		-57.1 F		UF B	UKING	,	
ELEV. DEPTH	CLASSIFICATION OF MATERIA	ALS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT. N-VALUE
-73.00 - 15.91	quartz, some silt, trace shell, 10Y 5/1 gray (SM) SILT, inorganic-L, little fine-grained s quartz, with interbedded clay seam, 5GY 5/1 greenish gray (ML)	-	100			-75.6	
-76.98 - 19.89			0			-73.0 Vibracou (No Recov -77.0	
	NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Lost during recovery at depth 19'-2 4. Laboratory Testing Results SAMPLE SAMPLE Laboratory Testing Results SAMPLE SAMPLE Laboratory Testing Results SAMPLE SAMPLE Laboratory Testing Results SAMPLE SAMPLE Laboratory Testing Results SAMPLE SAMPLE 1 1.0/1.5 2 3.6/4.1 SP 3 3 5.6/6.1 SP 4 7.6/8.1 SP *Lab visual classification based on grouve	ATORY CATION					

DRILLING	LOG	DIVISION South Atlantic	INSTAL		on ille Di	etrict		SHEET 1 OF 2 S	HEE.
1. PROJECT							e Remarks		
Flagler HSDI	R					SYSTEM/DATUM		VERTICAL	
Offshore Sar		rces 3A				ne, FLE (U.S. Ft.)		NAVD	88
2. BORING DESIGN			11. MA	ANUF	ACTU	RER'S DESIGNAT		АИТО НАММ	
VB-FC18-43 3. DRILLING AGEN		X = 671,359 Y = 1,899,252 CONTRACTOR FILE NO.						MANUAL HAI	
Corps of Eng		1	12. TO	TAL	SAMP	LES	4	0	
4. NAME OF DRILL			13. TO	TAL	NUMB	ER CORE BOXES	2		
Talon Smith			14. EL	EVAT		ROUND WATER			
5. DIRECTION OF E	BORING	DEG. FROM BEARING VERTICAL				_	STARTED	COMPLET	ED
			15. DA	IE B	URING	2	01-08-19	01-08-	19
6. THICKNESS OF	OVERB	urden N/A	16. EL	EVAT	TION T	OP OF BORING	-57.83 Ft.		
7. DEPTH DRILLED		ROCK N/A				VERY FOR BORIN			
8. TOTAL DEPTH O		NG 19.88 Ft.	18. SI			AND TITLE OF INS	SPECTOR		
	<u>г</u>	10.0011.		-	-	idson, Geologist			
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
-57.83 0.00						-57.8			Τ
-		SAND, poorly-graded, mostly fine to	+		1	01.0			
Ę	$ \cdots $	medium-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt,	100			-58.8	Vibracore		
F		10Y 5/1 greenish gray (SP)		1	1	-56.6			+
E				<u> </u>	-				
Ŀ			100				Vibracore		
F									
Ē-						-61.0			
Ę				2					
È.									
Ł	$ \cdots $. <i>e</i> i		
<u>L</u>			100				Vibracore		+
	···								
<u>-63.55 - 5.72</u>	ŧ∷ŀ	-SAND, poorly-graded, mostly fine-grained				-64.0			
F		sand-sized quartz, few silt, trace silt, shell size up to 2.5", 10Y 5/1 greenish gray (SP)		3	1	07.0			\uparrow
-64.95 -7.12	<u></u> †,†				 				
-04.35 - 1.12 -	t∷⊦	-SAND, poorly-graded, mostly fine-grained							
F		sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, shell size up to 2.5",	100				Vibracore		
F		10Y 5/1 greenish gray (SP)							
Ę									
F					\mathbf{I}	-67.0			+
-67.45 - 9.62		SAND, poorly-graded with silt, mostly	_	4	-				
F	[:•]]	fine-grained sand-sized guartz, few silt, trace							
F	·:	shell, 10Y 5/1 greenish gray (SP-SM)							
F									
F									
F			100				Vibracore		
Ę	·: ‡								
Ł	[::								
	: 			[
-71 45 L 13 62	الخخرجة	SAND, silty, mostly fine-grained sand-sized		1	1				1
<u>-71.45 - 13.62</u>	I + <u>I</u> +II	SAND, Silly, mostly mie-grained sand-sized							
-71.45 - 13.62 - -72.55 - 14.72		quartz, some silt, trace shell, trace clay, 10Y 5/1 greenish gray (SM)							

			INSTALLA	TION	ł	Borin	g Designation VB-F	C18-43	2
DRILLING	S LOO	G (Cont. Sheet)	Jackso		Distrio	ct			² SHEETS
PROJECT			COORDIN	ATE SY	STEN	//DATI	JM HORIZONTAL	VERTICAL	
Flagler HSDR			State F					NAVD88	
LOCATION COOR			ELEVATIO		OF B	ORING)		
X = 671,359		899,252 I	-57.8	⁻ t.		-			
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERI		REC.	BOX OR SAMPLE	RQD OR UD	REMAR	KS /S /S	N-VALUE
- - - - -		quartz, few medium to coarse-graine sand-sized shell, 5GY 5/1 greenish (ed gray (CL)						
74.75 - 16.92 -		SAND, silty, some fine-grained sand quartz, some silt, little fine to coarse-	-sized -grained	100			Vibr	acore	
- <u>75.83 18.00</u> -		sand-sized shell, 5GY 5/1 greenish g	gray (SM)				-75.8		
	RN			0				acore ecovery)	
<u>.77.71 - 19.88</u>	_						-77.7		
		2 3.1/3.6 SI 2 3.1/3.6 SI	ATORY ICATION P* P* P* P* P*						

DRI	LLING	LOG	South Atlantic		INSTAL Jack		ille Dis	strict		SHEET 1 OF 2 SH	IEE
1. PRO	JECT				9. SIZI	E ANC	ТҮРЕ	E OF BIT Se	e Remarks	•	
F	lagler HSD	R			10. CO	ORDI	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
	Offshore Sa							e, FLE (U.S. Ft.)	NAD83	NAVD8	8
-	ING DESIGN				11. MA	NUF	ACTUR	RER'S DESIGNATI		АИТО НАММЕ	
	B-FC18-44			Y = 1,900,000						MANUAL HAN	
-	Corps of Eng		1	TRACTOR FILE NO.	12. ТО	TAL	SAMPI	LES	4		(0
	IE OF DRILL				13. TO			ER CORE BOXES	2	0	
т	alon Smith								2		
-	CTION OF	BORIN	G DEG. FROM	BEARING	14. EL	EVAT	ION G	ROUND WATER			
	VERTICAL INCLINED		VERTICAL		15. DA	TE B	ORING	;	STARTED 01-08-19	COMPLETE	
	CKNESS OF	OVEDI	: Burden N/A		16 EI	EVAT		OP OF BORING	-58.17 Ft.	01-00-1	3
6. 1 HIC	JANESS OF	OVER	BURDEN IN/A								
7. DEP	TH DRILLED) INTO	ROCK N/A					VERY FOR BORING	00 //		
8. ТОТ	AL DEPTH C	OF BOR	RING 19.90 Ft.		10. 31			dson, Geologist	FECTOR		
						_				2	
ELEV. (ft)	DEPTH (ft)	EGEND	CLASSIFICATION O	F MATERIALS	REC.	N N	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
(11)	(11)	Ĕ			REU.	SAI				а 7-	
-58.17	0.00	$\left \ldots \right $	SAND, poorly-graded, mos	tly fine to	_			-58.2			_
	5		medium-grained sand-size	d quartz, little sand to	D 100				Vibracore		
	-		cobble-sized shell, trace si	lt, 5Y 6/1 gray (SP)				-59.2			
	-					1					
	-						1				
	-				100				Vibracore		
	-										
	_							-61.3			
	-					2					
	-						1				
	Γ										
	-	$ \cdots $			100				Vibracore		
	-										
	-										
	-							-64.3			
		<u></u> ii				-3 -					-
	-						1				
6F 77		[····]									
-65.77	- 1.00	1:::	SAND, poorly-graded, mos	tly fine-grained	100				Vibracore		
	F	$ \cdots $	sand-sized quartz, little fine	e to coarse-grained							
	ŀ	[…]	sand-sized shell, trace silt,	ər o/igray (SP)							
	F	$ \cdots $						-67.3			
	ļ.	[:.:				4					
-68 27	_ 10.10	[⊡]]				
55.21	-	tiiit	SAND, silty, mostly fine-gr	ained sand-sized	\neg						
	F	[<u> </u>]]	quartz, little silt, few fine to sand-sized shell, 10Y 5/1	medium-grained							
	F			groomon gray (ON)							
	F										
-70.27	12.10	<u></u> <u></u> <u></u>	Natura 17		100				Vibracore		
	È	<u> </u>	SAND, silty, mostly sand to little fine-grained sand-size	o gravel-sized shell,					10,000,0		
	ŀ		10Y 4/1 dark greenish gra	v quarz, inne sin, / (SM)							
	F	1 1	· · · · · · · · · · · · · · · · · · ·								
	t		_								
	-		From El72.0 to -73.0 Ft.								
	Г	11111	sand-sized quartz, some s sand-sized shell, 5GY 4/1	in, inde nne-grained	1	1	1	1			1
70.07	L 14.80	1 + +	sand-sized shell 5(5Y 4/1	dark greenish grav							

DRILLING	LOC	6 (Cont. Sheet)	INSTALL				g Designation VB-FC ²	SHEET 2	
PROJECT			Jackso					OF 2 S	HEETS
Flagler HSDR			COORDIN State F					NAVD88	
LOCATION COORDIN	ATES	;	ELEVATIO						
X = 672,038 Y	′ = 1,9	900,000	-58.2	Ft.					
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIA	ALS	REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
		SILT, inorganic-L, few fine-grained s quartz, trace shell, 5GY 4/1 dark gree (ML)	and-sized enish gray						
-75.37 - 17.20		CLAY, inorganic-H, trace quartz, trac 5GY 4/1 dark greenish gray (CH)	e shell,	100			Vibraco	bre	
- 							-77.2		
-78.07 - 19.90	AN			0			-78.1 Vibraco		
		NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classified System. 3. Laboratory Testing Results SAMPLE SAMPLE LABOR. ID DEPTH CLASSIF 1 1.0/1.5 SF 2 3.1/3.6 SF 2 3.1/3.6 SF 3 6.1/6.6 SF 4 9.1/9.6 SF *Lab visual classification based on gr curve	ATORY ICATION 						

DRILLIN	g log	DIVISION South Atlantic		INSTAL Jack		ille Di	strict		SHEET 1 OF 2 SH	IEE.
1. PROJECT		Courry Martino						Remarks		
Flagler H	SDR		F	10. CO	ORDI	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
Offshore	Sand Sourc	xes 3A			State	e Plan	e, FLE (U.S. Ft.)	NAD83	NAVD8	38
2. BORING DES		LOCATION COOR	DINATES				RER'S DESIGNATION			ER
VB-FC18			Y = 1,900,741						MANUAL HAN	
3. DRILLING AG			ITRACTOR FILE NO.	12. ТО	TAL	SAMPI			NDISTURBED) (UI
Corps of 4. NAME OF DR	Engineers -	CESAJ						4	0	
			Ļ	13. TO	TAL	NUMB	ER CORE BOXES	2		
Talon Sm		DEG. FROM	BEARING	14. EL	EVAT	ION G	ROUND WATER			
		VERTICAL	. Г	15. DA				STARTED	COMPLETE	ED
	D			15. DA		JRING	•	01-08-19	01-08-1	19
6. THICKNESS	OF OVERBU	rden N/A		16. EL	EVAT	ΙΟΝ Τ	OP OF BORING	-58.86 Ft.		
7. DEPTH DRIL		DCK N/A		17. то		RECO	ERY FOR BORING	90 %		
7. DEPTH DRIE				18. SI	GNAT	URE A	ND TITLE OF INSPE	CTOR		
8. TOTAL DEPT	H OF BORIN	IG 19.90 Ft.			Scot	t Davi	dson, Geologist			
	END				КЩ				s.	-
ELEV. DEPT		CLASSIFICATION O	F MATERIALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
	Ľ				SBC				8	2
-58.86 0.00	<u> </u>	SAND, poorly-graded, most	tly fine to	-	-	<u> </u>	-58.9) Change		+
Ę	r	medium-grained sand-sized	d quartz, some fine	100	<u> </u>	4	-59.4	Vibracore		\vdash
Ł		o coarse-grained sand-size 2.5Y 6/1 gray (SP)	ed shell, trace silt,		1					
-	· · · · · · · · · · · · · · · · · · ·	2.51 0/1 gray (SP)		100				Vibracore		
-60.962.10	–¦∷.∖_,	SAND, poorly-graded, most	tly fine-grained			-	-61.0			-
-		sand-sized quartz, little fine			2					
<u> </u>		sand-sized shell, trace silt,	2.5Y 6/1 gray (SP)							
Ł										
-				100				Vibracore		\vdash
-										
Ł										
-63.96 -5.10							-64.0			\perp
<u>F</u>		SAND, poorly-graded, most sand-sized guartz, little fine			3					
E		sand-sized shell, trace silt,		- 1						1
F										
				100				Vibracore		
-65.96 -7.10	⊣∴∖⊾	SAND, poorly-graded, most	tly fine-grained							
ŀ	···· •	sand-sized quartz, little fine	e to coarse-grained							
F		sand-sized shell, trace silt,	10Y 5/1 greenish				-67.0			
Ę		gray (SP)			4					
ŀ						1				
F AGE	[.·.·]									
-68.46 - 9.60		SAND, silty, mostly fine to	coarse-grained	-						
⊢	lititi s	sand-sized shell, some fine	-grained sand-sized							
		quartz, little silt, 10Y 5/1 gr	eenish gray (SM)							
<u>-69.66 10.80</u>		SAND, clayey, some fine-g	rained sand-sized	-						
ŀ		quartz, some fine to coarse	-grained sand-sized							
Ę		shell, some clay, shell size 5GY 4/1 dark greenish gray		100				Vibracore		
F										
-71.66 12.80										
<u>-71.00 _ 12.00</u>		CLAY, inorganic-L, little sa	nd to gravel-sized	-						
ŀ		shell, few fine-grained sand	d-sized quartz,							
-72.76 - 13.90		10Y 4/1 dark greenish gray								
E		CLAY, inorganic-H, trace q								
		5GY 4/1 dark greenish gray								
ŀ			y (CH)							

DR	ILLING	LOC	G (Cont. Sheet)	INSTALLAT Jacksor				<u> </u>		-	SHEET OF 2	2 SHEETS	5
PROJE	ст			COORDINA				UM	HORIZONTAL	VE	RTICAL		
Flag	ler HSDR			State Pl					NAD83		NAVD88		
LOCATI	ON COORD	INATES	8	ELEVATIO									
X =	672,731	Y = 1,	900,741	-58.9 F	t.								
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/ 1 FT.	N-VALUE	
	- - - - - - - - -				100				Vibracore)			- 1!
-76.86	18.00							-76.9				_	F
	- - - -	NR			0				Vibracore (No Recove				
-78.76	- 19.90	_						-78.8					
			NOTES: 1. USACE Jacksonville is the custodi these original files. 2. Soils are field visually classified in accordance with the Unified Soils Class System. 3. Lost during recovery at depth 19'-2 4. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC 1 0.5/1.0 SP 1 0.5/1.0 SP 2 2.1/2.6 SP 3 5.1/5.6 SP 4 8.1/8.6 SP *Lab visual classification based on gracurve	o'. TORY CATION									

1. PROJ	FCT		South Atlantic			ille Di		. D	OF 2 SH	
		_						e Remarks		
	agler HSDI			10. C			SYSTEM/DATUM	HORIZONTAL	VERTICAL	
	fshore Sar			11 M			e, FLE (U.S. Ft.) RER'S DESIGNATI		NAVD8	
	B-FC18-46		X = 673,347 $Y = 1,901,502$	11. W.	ANUF	ACTU	KER 5 DESIGNATI		AUTO HAMME MANUAL HAM	
	LING AGEN		CONTRACTOR FILE NO.						NDISTURBED	
Co	orps of Eng	gineers	s - CESAJ	12. TO	DTAL	SAMPI	LES	2	0	•
4. NAME	OF DRILL	ER	· · · · · · · · · · · · · · · · · · ·	13. то	TAL	NUMB	ER CORE BOXES	2		
	lon Smith			14 EI	EVAT		ROUND WATER			
-	CTION OF E	BORIN	G DEG. FROM BEARING VERTICAL	14. 21				STARTED		-D
	NCLINED			15. D/	ATE B	ORING	6	01-08-19	01-08-1	
6. THIC	KNESS OF	OVER	burden N/A	16. EI	.EVAT		OP OF BORING	-60.57 Ft.	1 0.00	-
							VERY FOR BORIN			
7. DEPT	H DRILLED	INTO	ROCK N/A				AND TITLE OF INS	00 //		
8. ТОТА	L DEPTH O	F BOF	RING 19.90 Ft.]			dson, Geologist			
					-				2	
ELEV. (ft)	DEPTH (ft)	EGEND	CLASSIFICATION OF MATERIALS	REC	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
(11)	(11)	LEG		REC	SAN	ŬD			JE 1	Ž
						 				
-60.57	0.00	$\left \dots \right $	CAND poorly graded second first makes t			<u> </u>	-60.6			⊢
E		····	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained			1				
ŀ			sand-sized shell, trace silt, 5Y 5/1 gray (SP)							
F	_	• • • •		100				Vibracore		
Ŀ		••••								
	_	••••		_			-62.6			┢
F		••			1	4				
E	-	••••		100				Vibracore		
-64.07	3.50			100				VIDIACOLE		
		•	SAND, poorly-graded, mostly fine-grained				-64.6			
			 -sand-sized quartz, little fine to-medium-grained sand-sized shell, trace silt, 10Y 5/1 greenish 	1-1	2	1				
F		•••	gray (SP)		<u> </u>	-				
-65.57	5.00		SAND, silty, mostly fine-grained sand-sized							
Ē			quartz, little sand to gravel-sized shell, little silt	,						
Ŀ	_	+ † + <u>†</u>	10Y 5/1 greenish gray (SM)							
F		│ †↓†↓								
F										
E	_	l + İ + İ	From El67.6 to -69.0 Ft., some fine-grained							
ŀ		 † ↓ † ↓	sand-sized quartz, little sand to gravel-sized							
F	-	 	shell, little silt, few sand to gravel-sized limestone, 10Y 4/1 dark greenish gray							
-68.97	8.40		SILT, inorganic-L, some fine to coarse-grained	-						
F			sand-sized shell, few fine-grained sand-sized	'						
F	-		\ quartz, 10Y 3/1 very dark greenish gray (ML)							
Ę			From El69.6 to -70.1 Ft., some fine to coarse-grained sand-sized shell, little	100				Vibracore		
F	-		fine-grained sand-sized quartz,							
F			5GY 5/1 greenish gray From EL -70.1 to -73.0 Ft., some fine-grained							
Ŀ	-		sand-sized quartz, little fine to coarse-grained			1				
ŀ			sand-sized shell, 5GY 4/1 dark greenish gray			1				
F						1				
E	-									
F			From El73.0 to -76.2 Ft., little fine-grained			1				
Ę	_		sand-sized quartz, trace shell, 10Y 4/1 dark			1				
┝			greenish gray			1				
F						1				
E	-									
Г				1	1	1				1
F										

DR	ILLING	LO	G (Cont. Sheet)	INSTALLA Jackso				<u> </u>			SHEET OF 2		тѕ
PROJE	т			COORDINA				UM	HORIZONTAL	VE	RTICAL		
	ler HSDR			State P					NAD83		NAVD88	5	
LOCATI	ON COORDI	NATE	S	ELEVATIO	N ТОР	OF B	ORIN	G	•				
X =	673,347	Y = 1,	901,502	-60.6 F	۶t.								
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERI	ALS	REC.	BOX OR SAMPLE	RQD OR UD		REMARKS		BLOWS/		N-VALUE
-77.57	- - - - - - - - - - - -		From El76.2 to -77.2 Ft., some fin sand-sized quartz, little sand to grave shell, 10Y 4/1 dark greenish gray From El77.2 to -77.6 Ft., little fine- sand-sized quartz, few medium to	el-sized	100			-77.6	Vibracor	e			
	- - - - - - -	NO RECOVERY	coarse-grained sand-sized shell, 10Y 6/1 greenish gray	/	0				Vibracor (No Recov				
-80.47	- 19.90				<u> </u>			-80.5					
			NOTES: 1. USACE Jacksonville is the custor these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classifiem. 3. Laboratory Testing Results SAMPLE SAMPLE ID DEPTH CLASSIF 1 2.0/2.5 SI 2 4.0/4.5 Stab visual classification based on grurve	ATORY ICATION									

DR	ILLING	LOG	South Atlantic	Jack	sonv	lle Di	strict		OF 2 SI	IEE
1. PRC	JECT		-					Remarks		
F	-lagler HSE	DR		10. CC	ORDI	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
C	Offshore Sa	and Sou	irces 3A		State	e Plan	e, FLE (U.S. Ft.)	NAD83	NAVD8	38
	RING DESIG			11. M/			RER'S DESIGNATION			ER
	/B-FC18-4		X = 674,019 Y = 1,902,270						IANUAL HAN	
	LLING AGE		CONTRACTOR FILE NO.	12. TC	TAL	SAMP		i	NDISTURBED) (U
	Corps of Er	0	- CESAJ				1	4	0	
	Talon Smith			13. TC	TAL	NUMB	ER CORE BOXES	2		
-			B DEG. FROM BEARING	14. EL	EVAT		ROUND WATER			
	VERTICAL		VERTICAL	15. DA		ORINO	3	STARTED	COMPLET	
	INCLINED			-				01-08-19	01-08-1	19
6. THI	CKNESS OF	OVERE	BURDEN N/A	16. EL	EVAT	ION T	OP OF BORING	-58.00 Ft.		
7. DEP	TH DRILLE	D INTO	ROCK N/A				VERY FOR BORING	98 %		
				18. SI			AND TITLE OF INSPE	ECTOR		
o. 101			ING 19.50 Ft.		1	t Davi	dson, Geologist			
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
-58.00	0.00						-58.0			
	E		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, some fine	100				\ <i>(</i>		
	ŀ		to coarse-grained sand-sized shell, 5Y 6/1 gray				-59.0	Vibracore		
	F		(SP)		1					
	E				<u> </u>	1				
	┝									
	F			100				Vibracore		
	È.									
-61.61	- - 3.61						-61.6			
01.01	-	†∷ł	SAND, poorly-graded, mostly fine-grained		2	1	01.0			
	F		sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt, shelly seam at 6'		<u> </u>	1				
	L	1	depth, 10Y 5/1 greenish gray (SP)	100				Vibracore		+
	┝									
-63.61	- 5.61	_l.∵.					-63.6			
	È.		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little sand to gravel-sized		3					
	<u> </u>	<u>. [::::</u>]	shell, trace silt, 10Y 5/1 greenish gray (SP)		_]				1-
65 11	-									
-00.11	$F^{(.1)}$	ᡰ᠅ᡰ	SAND, poorly-graded, mostly fine-grained	100				Vibracore		
	È		sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, shell size up to 1",							
	F	⊡	10GY 6/1 greenish gray (SP)							
	F						-66.6			
	F				4					
-67.61	- 9.61	·.·								
-67.91	- 9.91		SAND, poorly-graded with silt, mostly							
-68.11	- 10.11		fine-grained sand-sized quartz, few silt, trace shell, 10Y 6/1 greenish gray (SP-SM)	//						
	F	_ 	SAND, clayey, mostly fine-grained sand-sized	11						
	F		quartz, little fine to coarse-grained sand-sized shell, little clay, 10Y 6/1 greenish gray (SC)							
	F	╽╎┼╿┢	SAND, silty, some fine-grained sand-sized	'						
	F		quartz, some fine to coarse-grained sand-sized	100				Vibracore		
	Ę		shell, little silt, with interbedded clay layer, 10GY 5/1 greenish gray (SM)							
	F	┨┦┦┦┨	From El69.4 to -71.4 Ft., some fine-grained							
- <u>7</u> 1.41	- 13.41	_ <u> </u>	sand-sized quartz, some fine to coarse-grained							
	E .	זווווך	sand-sized shell, little silt, 10Y 5/1 greenish gray							
	F	┨╢╢╢	SAND, silty, mostly fine to coarse-grained							
	L 1161		sand-sized shell, some fine-grained sand-sized quartz, little silt, 10Y 5/1 greenish gray (SM)		1					
-72.61	- 14.01		CUARTZ IIIIIE SIIT 10Y 5/1 dreenish drav (SW)	A						

		G (Cont Shoot)	INSTALLA	LION		JUIII	g Designation VB-FC	SHEET 2	
	LUC	G (Cont. Sheet)	Jacksor				1	OF 2 SHE	ETS
PROJECT Flagler HSDR			COORDINA State P					VERTICAL NAVD88	
LOCATION COORDI	NATES	S	ELEVATIO				/	÷	
X = 674,019	Y = 1,	902,270	-58.0 F	t.					
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIA	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS 1 FT.	N-VALUE
-73.91 - 15.91		SAND, poorly-graded with silt, mostly coarse-grained sand-sized shell, som fine-grained sand-sized quartz, few si 10Y 5/1 greenish gray (SP-SM) SAND, silty, some fine-grained sand- quartz, some fine to coarse-grained s shell, little silt, 5GY 4/1 dark greenish (SM) From El74.9 to -77.1 Ft., mostly sa gravel-sized shell, some fine-grained quartz, little silt, shell size up to 3", 5GY 5/1 greenish gray	ilt, sized and-sized gray nd to	100			-77.1	ore	
-77.50 19.50	NO REC			0			-77.5 Vibrac (No Reco		Ē
		NOTES: 1. USACE Jacksonville is the custod these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classystem. 3. Laboratory Testing Results SAMPLE SAMPLE ID DEPTH CLASSIFI 1 1.0/1.5 SF 1 1 1.0/1.5 SF 3.6/4.1 SF 3 4 8.6/9.1 *Lab visual classification based on gracurve	ATORY CATION 						1 1 1

	LLING	LUC	South Atlantic		Jack	sonvi	ille Di	strict		OF 2 SI	IEE.
1. PRO.					9. SIZI) ТҮР	EOFBIT Se	e Remarks		
F	lagler HSE	R		ſ	10. CO	ORDI	NATE	SYSTEM/DATUM	HORIZONTAL	VERTICAL	
-	ffshore Sa		-					e, FLE (U.S. Ft.)		NAVD8	38
	ING DESIG				11. MA	NUF	ACTUI	RER'S DESIGNATI			
	B-FC18-4	-		Y = 1,898,585						MANUAL HAN	
			s - CESAJ		12. ТО	TAL	SAMPI	ES	4	0	, (0
	E OF DRIL	0			13 TO	TAL 1		ER CORE BOXES	2	0	
Та	alon Smith	l							2		
-	CTION OF	BORIN	G DEG. FROM	BEARING	14. EL	EVAT	ION G	ROUND WATER			
	VERTICAL		VERTICAL		15. DA	TE BO	ORING)	STARTED		
									01-08-19	01-08-	19
6. THIC	KNESS OF	OVER	BURDEN N/A					OP OF BORING	-60.08 Ft.		
7. DEP1	TH DRILLE	о імто	ROCK N/A					ERY FOR BORIN	0.70		
8 101	AL DEPTH		RING 19.21 Ft.		18. SIG				PECTOR		
			19.2111.				t Davi T	dson, Geologist			
ELEV.	DEPTH (ft)	EGEND	CLASSIFICATION O		%	BOX OR SAMPLE	RQD OR UD		REMARKS	BLOWS/ 1 FT.	
ELEV. (ft)	(ft)	LEG	CLASSIFICATION	F WATERIALS	REC.	Sam (ŬĎ		REWARKS	15	
		-			_						<u> </u>
-60.08	0.00							-60.1			
-	-	\cdots	SAND, poorly-graded, most medium-grained sand-sized								
	-	·.·.	medium-grained sand-sized	d shell, trace silt,	100			-61.1	Vibracore		
ŀ	-		10Y 6/1 greenish gray (SP			1		-01.1			+
ŀ	-	$ \cdot \cdot \cdot \rangle$					-				
	-	·.·.			100) <i>(</i>]		
	-				100				Vibracore		⊢
-	-	$ \cdots $									
-63.29	-3.21	 ∙.∵	SAND, poorly-graded, most	the fine to				-63.3			+
ŀ	-		medium-grained sand-sized			2					
ŀ		$ \cdots $	medium-grained sand-sized	d shell, trace silt,							
		† – †	_10Y 6/1 greenish gray (SP	?)							- -
-64.99	- 4.91		SAND, poorly-graded, mosi	the fina arainad	100				Vibracore		
	-	\cdot	sand-sized quartz, little san	id to gravel-sized							
ļ	-		shell, trace silt, 10Y 5/1 gre	eenish gray (SP)							
	-							-66.3			_
ŀ	-					3					
-67.29	- 										
	-].∷	SAND, poorly-graded, most								
ŀ	-	····	sand-sized quartz, trace sill 10Y 5/1 greenish gray (SP		100				Vibracore		
-68.39	8.31	4	SAND, poorly-graded, most								
ļ	-		sand-sized quartz, few fine								
ł		[···]	sand-sized shell, trace silt,					-69.3			\perp
	-		greenish gray (SP)			4					
ļ	-]				
ł	-	[···]									
ŀ	-										
ļ	-										
70.00	-										
-72.09	12.01		SAND, silty, some fine-grai	ned sand-sized	100				Vibracore		
ļ	-		quartz, some fine to coarse	e-grained sand-sized					1810000		
	-		shell, little silt, little sand to	gravel-sized							
ŀ	-		limestone, 10Y 4/1 dark gre From El72.7 to -74.7 Ft.,	some fine-grained							
	-		sand-sized quartz, some sil	It, few fine to							
	_	IIIII	coarse-grained sand-sized								
ŀ											
	-		greenish gray Srom El74.7 to -76.3 Ft.,								

		C (Cont Chaot)	INSTALLA				ng Designation VB-FC1	SHEET 2	
DRILLING	LOC	G (Cont. Sheet)	Jacksor	nville [Distrie	ct		OF 2 SH	EETS
PROJECT Flagler HSDR			COORDINA State P				1	VERTICAL NAVD88	
		2						INAVDOO	
X = 672,132			-60.1 F						
ELEV. DEPTH (ft) (ft)	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-76.29 - 16.21		coarse-grained sand-sized shell, some fine-grained sand-sized quartz, 10Y 4/ greenish gray CLAY, inorganic-L, few fine to coarse- sand-sized shell, trace quartz, 5GY 4/ greenish gray (CL)	/1 dark -grained	100			Vibracc		
78.08 18.00							-78.1		
-79.29 - 19.21	NR			0			Vibraco (No Reco -79.3		
		NOTES: 1. USACE Jacksonville is the custodia these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classified System. 3. Laboratory Testing Results SAMPLE SAMPLE LABORA ID DEPTH CLASSIFIC 1 1.0/1.5 * 2 3.2/3.7 SP ⁴ 3 6.2/6.7 SP ⁴ 4 9.2/9.7 SP ⁴ *Lab visual classification based on gracurve	TORY CATION						