AMENDMENT OF SOLICITATION/MOD	IFICATION OF CON	TRACT	1. CONTRACT ID	CODE	PAGE OF PAGES
					1 2
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	4. REQUISITI	ON/PURCHASE		TNO. (If applicable)
W9127821B0001-0001 6. ISSUED BY CODE	4 FEB 2021	7 ADMINIST	ERED BY(If other the	CHC2	0010
6. ISSUED BY CODE		CODE	ERED BY (II other that	an item 6)	
				L	
Corps of Engineers 109 St. Joseph St.					
Mobile, AL 36602					
8. NAME AND ADDRESS OF CONTRACTOR	(No., street, county, St	ate and ZIP code)		$\sim$	DMENT OF SOLICITATION
				NO. W912782	21B0001
					D (SEE ITEM 11)
				14 JAN 20	. ,
			┟╼		IFICATION OF
				11	T/ORDER NO.
				10B. DATE	ED (SEE ITEM 13)
CODE	FACILITY CODE				
<b>11. THIS ITEM ONLY APPLIES TO </b> The above numbered solicitation is amended as set for				N is autondad	is not outon dad. Offens
must acknowledge receipt of this amendment prior to the h	nour and date specified in	the solicitation of	r as amended, by one	of the following	methods: (a) By completing
items 8 and 15, and returning copies of the amendment or telegram which includes a reference to the solicitation a					mitted; or (c) By separate letter
PLACE DESIGNATED FOR THE RECEIPT OF OFF	ERS PRIOR TO THE H	IOUR AND DAT	<b>TE SPECIFIED MAY</b>	Y RESULT IN F	REJECTION OF YOUR
<b>OFFER.</b> If by virtue of this amendment you desire to cha makes reference to the solicitation and this amendment, an	nge an offer already subm id is received prior to the	nitted, such chang opening hour and	e may be made by tel date specified.	legram or letter, p	provided each telegram or letter
	1		•		
12. ACCOUNTING AND APPROPRIATION DATA		(if require	<i>d</i> )		
13. THIS ITEM APPL					
A. THIS CHANGE ORDER IS ISSUED PURSU	HE CONTRACT/C		AS DESCRIBEI	) IN ITEM 1	4.
THE CHANGES SET FORTH IN ITEM 14 AR			NO. IN ITEM 10A		
B. THE ABOVE NUMBERED CONTRACT/O appropriation date, etc.) SET FORTH IN ITEM				ANGES (such as	changes in paying office,
C. THIS SUPPLEMENTAL AGREEMENT IS I	ENTERED INTO PURSU	ANT TO AUTH	ORITY OF:		
D. OTHER (Specify type of modification and	authority)				
E. IMPORTANT: Contractor is not, is	required to sign this docu	ment and return	copies to the issu	ung office	
	1 0		1	0	
14. DESCRIPTION OF AMENDMENT/MODIFICATION		5	8, 8		ct subject matter where feasible)
The subject solicitation for: MOBILE HARBOR Is modified in the following: REFER TO THE E	2, ALABAMA, DEEPEN XNCLOSED REVISED S	ING AND WIDI SPECIFICATIO	ENING – PHASE 3, NS/REVISED AND	MOBILE, ALA ADDED DRAW	ABAMA /INGS FOR
AMENDMENT NO NOTE: THE RECEIPT OF PROPOSAL DAT	. 0001				
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Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type of	or print)		ME AND TITLE OF	· · · ·	
	- <i>·</i>				
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNEI	D 16B. UN BY	TED STATES OF AN	MERICA 10	6C. DATE SIGNED
(Signature of person authorized to sign)		-	ature of contracting of	officer)	
NSN 7540-01-152-8070		30-105	and of contracting (	,	RD FORM 30 (REV. 10-83)
PREVIOUS EDITION UNUSABLE		55 105		Prescribed	

#### PART I - REVISIONS MADE BY ADDED AND/OR REPLACEMENT PARAGRAPHS/PAGES/SECTIONS

The items listed below are to be replaced by the corresponding added and/or revised paragraphs/pages or sections. Added and/or revised paragraphs/pages or sections are indicated by a note in bottom right hand corner of each paragraph or page. Added sections are hereby made a part of the contract and are to be inserted in the specification in the proper numerical/alphabetical sequence.

Within the specifications, deletions from the specifications are indicated by strikethrough, e.g.: deletions are marked with strikethrough and additions to the specifications including revisions/substitutions are indicated in bold, italic and underlined, e.g.: additions are indicated thus.

SECTION	Corresponding Added or Revised Paragraph Page, and/or Section
VOLUME 1	
SF1442, Solicitation, Offer & Award Form	Revised Block 13.A as indicated herein.
Bid Schedule	Reissued as indicated herein.
Explanation of Bid Items	Revised as indicated herein.
01 00 01	Revised Paragraphs 2 and 30
35 20 23.00 36	Revised Paragraphs 3.1.2, 3.1.4 and 3.4.5
VOLUME 2	
Appendix A	Replaced in its entirety.

**PART II** - NOTE: Revised and added drawings are listed below. These revised and added drawings are to be inserted into the folio in the proper numerical sequence. Drawings that have been revised by this amendment shall be deleted from the folio. All drawings listed below are revised unless indicated otherwise.

Sheet Reference Number

Title

COVER SHEET G-002 INDEX OF DRAWINGS CN103.1 PARTIAL DREDGE PLAN (ADDED)

Encl as stated:

Revised, reissued and replaced pages of the specifications as indicated in Part I. 3 Revised and added drawings as indicated in Part II.

SF 30 Page 2

SOLICITATION, OFFER AND AWARD (Construction, Alteration, or Repair)	1. SOLICITATION NO. W9127821B0001	2. TYPE OF SOLICITATION SEALED BID NEGOTIATEI	· /	3. date issued 14 JAN 2021	PAGES OF PAGES
IMPORTANT - The "offer" section on the revers	e must be fully completed by offero	r.			L
4. CONTRACT NO.	5. REQUISITION/PURCHASE	REQUEST NO.	-	JECT NO. C20010	
7. ISSUED BY CODE	СТ	8. ADDRESS OF			
U.S. ARMY ENGINEER DISTR CONTRACTING DIVISION (C (109 ST. JOSEPH ST. 36602) MOBILE, AL 36628-0001	ESAM-CT)	SEE CLAU	SE 30	IN SECTION 0	1 00 01
	A. NAME CHANDA D. STRENTH			HONE NO. (Include area o 41-5595	code) (NO COLLECT CALLS)
I		SOLICITA	TION		
NOTE: In sealed bid solicitations "offer" and "offeror"					
10. THE GOVERNMENT REQUIRES PERFORMANCE	E OF THE WORK DESCRIBED IN THE	SE DOCUMENTS (Titl	le, identifyir	ng no., date):	
MOBILE HARBOR, ALABAMA, D	EEPENING AND WIDENI	NG – PHASE 3	, MOBI	LE, ALABAMA	

\* See Section 00 70 00, Paragraph "COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK". \*\* For information pertaining to submission of electronic bids and virtual bid opening, see clause 30 in Section 01 00 01.

<ul> <li>11. The Contractor shall begin performance within calendar days ar</li> <li>☐ award,</li></ul>	
12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMA (If "YES," indicate within how many calendar days after award in Item 12B.)	NCE AND PAYMENT BONDS? 12B. CALENDAR DAYS 10
	are due at the place specified in Item 8 by <u>1400</u> (hour) local time <u>17 FEB 19 MAR 2021</u> ime. Sealed envelopes containing offers shall be marked to show the offeror's name and address,
B. An offer guarantee 🖾 is, 🗌 is not required.	
<ul> <li>C. All offers are subject to the (1) work requirements, and (2) other provisions</li> <li>D. Offers providing less than <u>120</u> calendar days for Government and the subject to the</li></ul>	and clauses incorporated in the solicitation in full text or by reference.
NSN 7540-01-155-3212 1442-1	01 STANDARD FORM 1442(REV. 4-85) Prescribed by GSA FAR(48 CFR) 53.236-1(e)

14. NAME AND ADDR	ESS OF OFFER	OR (Include ZIP	Code)			15. TELEPHONE NO. (Include area code)									
						16. F	REMITTANC	E ADDRESS (I	nclude only if d	ifferent than Iter	n 14)				
CODE	FACILIT	Y CODE													
17. The offeror agrees to	perform the wor	rk required at the	prices sp	pecified below	in strict a	accordance	e with the term	ns of this solicita	ation, if this offe	er is accepted by	the				
Government in writing w	"ithin	calendar days af	ter the da	ate offers are di	ue. (Inse	ert any nun	iber equal to c	or greater than th	ne minimum req	luirement					
AMOUNTS															
18. The offeror agrees to	furnish any requ	uired performanc		yment bonds. CKNOWLED	GMEN	T OF AM	IENDMENT	S							
	(The	e offeror acknow							of each)	1					
AMENDMENT NO.															
DATE															
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21. ITEMS ACCEPTED:			Α	WARD (To be	e comple	ted by Gov	vernment)								
22. AMOUNT				23. ACCOUI	NTING A	AND APP	ROPRIATION	N DATA							
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<ul><li>obligations of the parties</li><li>(b) the solicitation, and (control of the solicitation)</li></ul>	c) the clauses, rep	presentations, cer	tification	ns, and	ard,										
specifications incorporate	ed by reference in	n or attached to tl	his contra	act.											
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STANDARD FORM 1442 BACK (REV. 4-85)

BIDDER'S NAME:\_\_\_\_\_

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		BIDDING SCH	IEDULE		
Item No.	Description	Estimated Quantity	Unit	Unit Price	Estimated Amount
1.	Mobilization and Demobilization	1	Job	XXX	
2.	Channel Dredging	7,675,631	СҮ		

Total Bid

OFFEROR ELECTS TO WAIVE THE PRICE EVALUATION PREFERENCE FOR HUBZONE SMALL BUSINESS CONCERNS: ( )NO ( )YES

(SEE BIDDING SCHEDULE NOTE NOS. 6 AND 7)

#### NOTES FOR BIDDING SCHEDULE

NOTE NO. 1. To better facilitate the public bid opening process, all modifications to bids are to be submitted on copies of the latest bid schedules as published in the solicitation or the latest amendment thereto. In lieu of indicating additions/deductions to bid items, all bidders should state their revised prices for each item. The company name should be indicated on the face of the bidding schedule to preclude being misplaced.

NOTE NO. 2. Bidders must insert a price on all numbered items of the bidding schedule by the Government. Failure to do so will disqualify the bid.

NOTE NO. 3. All extensions of the unit prices shown will be subject to verification by the Government. In case of variation between the unit price and extension, the unit price will be considered to be the bid.

NOTE NO. 4. If a modification to a bid is submitted and provides for a job adjustment to the total estimated cost, the application of the job adjustment to each unit price and/or job price in the bid schedule must be stated or, if it is not stated, the bidder agrees that the job adjustment shall be applied on a pro rata basis to every bid item in the bid schedule.

NOTE NO. 5. CONDITIONS GOVERNING EVALUATION OF BIDS AND AWARD OF CONTRACTS.

Only one contract will be awarded on this Bid Schedule and award will be made to the low bidder on the Total Bid.

NOTE NO. 6. IMPORTANT NOTICE: Due to the suspension of the utilization of the price adjustment for small disadvantaged businesses (FAR Clause 52.219-23) by the Under Secretary of Defense on March 12, 2010, effective until further notice, said FAR Clause is not included in or made a part of this RFP. FAR Clause 52.219-4, relating to a 10% price evaluation preference for HUB ZONE small business concerns, is included in and made a part of this RFP. PLEASE NOTE HOWEVER that paragraph (b) (3) of the preceding clause is inapplicable also due to the referenced suspension of FAR Clause 52.219-23.

Consequently, if you are a small business qualified as a HUB ZONE and as an SDB, you will only receive the HUB ZONE 10% price evaluation preference in the evaluation process of this RFP.

NOTE NO. 7. This procurement is not restricted to Hubzone Small Business Concerns. However, offerors certifying as a Hubzone Small Business Concern must be certified by the SBA on or prior to date set for receipt of offers.

END OF BID SCHEDULE

#### EXPLANATION OF BID ITEMS

<u>GENERAL</u>: This section comprises an explanation of the bid items identified in the bid schedule for each item of work. The bid schedule and the contract drawings shall be worked together to identify the various items of work to which each bid item will apply. The Contractor shall bid the work under the applicable bid item for the specific areas identified in the bid schedule. All work specified herein shall be accomplished in accordance with the requirements of the technical provisions of the specifications and the contract drawings. Payment described for the various bid items will be full compensation for all labor, materials, and equipment required to complete the work. Compensation for any item of work described in the contract but not listed in the bid schedule shall be included in the payment for the item of work to which it is made subsidiary.

#### Bid Item No. 1 - Mobilization/Demobilization:

(a) All costs associated with initial mobilization to the work site at the Bar portion of the Mobile Harbor Shipping Channel in Mobile County, Alabama and final demobilization of all dredge plant, dredge attendant plant, and support equipment will be included in the contract lump sum price for Mobilization and Demobilization, Bid Item No. 1. This shall include any and all costs to (1) construct the necessary features to access and prepare the work site and (2) adapt, modify, reconstruct, and/or reconfigure the dredge plant and/or other equipment to a configuration capable of performing this contract work. No other separate payment shall be made for any such configuration preparations, and payment of this bid item is considered complete compensation for such actions. Sixty percent (60%) of the lump sum price will be paid after completion of the Contractor's mobilization at the work sites. The remaining forty percent (40%) will be paid after completion of demobilization.

(b) The Contracting Officer may require the Contractor to furnish cost data to justify this portion of the bid if the Contracting Officer believes that the percentages in paragraph (a) above do not bear a reasonable relation to the cost of the work in this contract. Failure to justify such price to the satisfaction of the Contracting Officer will result in payment, as determined by the Contracting Officer, of -

(i) Actual mobilization costs at completion of mobilization;(ii) Actual demobilization costs at completion of demobilization; and(iii) The remainder of this item in the final payment under this contract.

The Contracting Officer's determination of the actual costs in paragraph (b) of this clause is not subject to appeal.

#### Bid Item No. 2 - Channel Dredging:

Payment for Bid Item No. 2 will include all costs associated with the dredging and disposal of approximately 7,675,631 cubic yards of material. The quantity of material to be dredged includes approximately 1,642,334 cubic yards of maintenance material and 6,033,297 cubic yards of new work material. Payment will be made for the volume of material dredged between Stations 950+00 and 1590+00. For the purpose of acceptance and payment, the work shall

EXPLANATION OF BID ITEMS page 1 Revised by Amendment No. W9127821B0001-0001 MOBILE HARBOR, ALABAMA, DEEPENING AND WIDENING - PHASE 3 W9127821B0001 MOBILE, ALABAMA

CHC20010

be divided into reaches of 600 linear feet, or less at partial reaches. The quantity of material dredged for payment shall be calculated as the difference between the before- and after-dredging surveys of the area within the acceptance prism. The acceptance prism shall be defined as the lines and grades shown on the drawings. Payment will not be made for any volume dredged that exceeds the acceptance prism. Subsidiary features of work including surveying, utility location verification, shorebird monitoring, sea turtle monitoring, and turbidity monitoring shall also be included in this bid item. Details of the surveying requirements are provided in Section 35 20 23.00 36 - DREDGING, paragraph DREDGING SURVEYS. Details of the sea turtle, and turbidity monitoring are provided in section 01 57 20 - ENVIRONMENTAL PROTECTION, paragraph PROTECTION OF FISH AND WILDLIFE.

-End of Section-

MOBILE HARBOR, ALABAMA, DEEPENING AND WIDENING - PHASE 3 W9127821B0001 MOBILE, ALABAMA

SECTION 01 00 01

### 2. REQUESTS FOR INFORMATION

Any questions about this solicitation, including technical questions about plans and specifications, shall be submitted via the Bidder Inquiry Portal in ProjNet at https://www.projnet.org. To submit and review inquiry items, prospective vendors will need to use the Bidder Inquiry Key presented below and follow the instructions listed below the key for access. A prospective vendor who submits a comment /question will receive an acknowledgement of their comment/question via email, followed by an answer to the comment/question after it has been processed by our technical team. All timely questions and approved answers will be made available through ProjNet.

Questions shall be submitted no later than February 2 11, 2021 at 2:00 p.m. Central Time to allow time for a response, and amendment to the solicitation if necessary. On this date and time the portal will be closed.

For technical questions, no other means of communication, e-mail, fax, or telephone will be accepted. Oral exchanges between Offerors or Bidders and the government prior to award of the contract will not be binding. In addition to information available to Offerors or Bidders on the Bidder Inquiry Portal, any information concerning this solicitation will be furnished to all Offerors or Bidders as an amendment to the solicitation if the information is necessary to the submittal of offers or bids.

#### The Solicitation Number is: W9127821B0001 The Bidder Inquiry Key is: G6EB3Y-KBSR54

#### **Specific Instructions for ProjNet Bid Inquiry Access:**

- 1. From the ProjNet home page linked above, click on Quick Add on the upper right side of the screen.
- 2. Identify the Agency. This should be marked as USACE.
- 3. Key. Enter the **Bidder Inquiry Key** listed above.
- 4. Email. Enter the email address you would like to use for communication.
- 5. Click Continue. A page will then open saying that a user account was not found and will ask you to create one using the provided form.
- 6. Enter your First Name, Last Name, Company, City, State, Phone, Email, Secret Question, Secret Answer, and Time Zone. Make sure to remember your Secret Question and Answer as they will be used from this point on to access the ProjNet system.
- 7. Click Add User. Once this is completed you are now registered within ProjNet and are currently logged into the system.

#### **Specific Instructions for Future ProjNet Bid Inquiry Access:**

1. For future access to ProjNet, you will not be emailed any type of password. You will utilize your Secret Question and Secret Answer to log in.

- 2. From the ProjNet home page linked above, click on Quick Add on the upper right side of the screen.
- 3. Identify the Agency. This should be marked as USACE.
- 4. Key. Enter the **Bidder Inquiry Key** listed above.
- 5. Email. Enter the email address you used to register previously in ProjNet.
- 6. Click Continue. A page will then open asking you to enter the answer to your Secret Question.
- 7. Enter your Secret Answer and click Login. Once this is completed you are now logged into the system.

Note: Questions/comments should be entered in the system one at a time. Lists of questions uploaded into ProjNet, regardless of the format, will not be answered.

Offerors are requested to review the solicitation and amendments in their entirety, as well as to review the Bidder Inquiry Portal for previous questions and responses, prior to submission of a new inquiry on the Portal.

CAUTION: ANY INQUIRY SUBMITTED AND ANSWERED WITHIN THIS SYSTEM, WILL BE ACCESSIBLE TO VIEW BY ALL INTERESTED OFFERORS OR BIDDERS ON THIS SOLICITATION. The call center for the ProjNet operates weekdays from 8 AM to 5 PM U.S. Central Time Zone. The telephone number is 1-800-428-HELP.

End of Paragraph

#### 30. PROCEDURES FOR SUBMISSION OF BIDS AND VIRTUAL BID OPENING

In accordance with FAR 14.202-8 and FAR Part 4.5, bidders will be required to submit their bids in response to this IFB solicitation by 2 pm CST on 17 February 19 March 2021 via electronic means, to include bid bonds. Physical copies of bid bonds will not be required to be submitted unless otherwise requested by the Contracting Officer at a later date. Bidders that are interested in submitting bids will use the DoD Secure Access File Exchange (DoD SAFE), which provides a time stamped notification to the Government when a file is uploaded. Interested bidders should contact Ms. Chanda Strenth at Chanda.d.strenth@usace.army.mil to obtain a unique "request code" needed for each offeror to upload their bids. Once bidders receive this code, they will be allowed to upload their bids from 8 February 2021 at 0900 am up to 17 February 19 March 2021 by 2 pm CST. A timely bid is the one time-stamped by DoD SAFE before the deadline established above.

The public bid opening will be held virtually on 17 February 19 March 2021 at 2:30 pm CST. Interested parties are welcome to participate by joining the teleconference call via WebEx. The details of the teleconference are provided below:

Phone Number: 844-800-2712 Access Code: 1990707194 Security Code: 1111

End of Paragraph

\*\*\*\*\*

(NOTE: The remainder of the section is unchanged by the amendment.)

SECTION 35 20 23.00 36

#### 3.1.2 Required Dredging

The contract prices shall include the cost of performing the work described below and shown on the contract drawings. Required dredging under this contract includes all material lying within the designated side slopes of one foot vertical to five feet horizontal (1V to 5H) originating at the plane of elevation -54 -52 feet MLLW from Station 950+00 to Station 1590+00, at the widths shown on the contract drawings.

#### 3.1.4 End Slope and Transition Slope Dredging NOT USED

End slopes and transition slopes will not be estimated or paid for. In such locations, a vertical (1V:0H) slope will be used for measurement and payment, with no allowance for materials removed outside the required channel prism.

3.4.5 Quality Control

The Contractor shall establish and maintain a quality control plan for surveying operations to assure compliance with contractual requirements. The Contractor shall maintain records of quality control qualifications for survey personnel. These records shall include, but not be limited to, the following requirements:

(a) Survey work shall be performed in accordance with the Manual of Survey Instructions, copies of which are available for review at the Corps of Engineers Mobile District Office USACE Hydrographic Surveying Engineering Manual, EM 1110-2-1003. The manual can be found online at the following link:

#### https://www.publications.usace.army.mil/USACE-Publications/Engineer-Manuals/u43544q/687964726F67726170686963/

At least one responsible member of the Contractor's survey group shall have a valid and current land surveyors registration (any state), or be an ACSM Certified Hydrographer. Names and résumés of registered surveyors shall be included in the Contractor's quality control plan. Sole responsibility for accuracy, completeness, and verification of all

survey work performed during execution of this contract, with the exception of the initial and final quantity surveys performed by the Government, shall rest with the Contractor.

(NOTE: The remainder of Paragraph 3.4.5 is unchanged by the amendment.)

\*\*\*\*\*

(NOTE: The remainder of the section is unchanged by the amendment.)

## APPENDIX A

# GEOTECHNICAL BORING LOGS AND LAB DATA

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Replaced in its entirety by Amendment No. W9127821B0001-0001

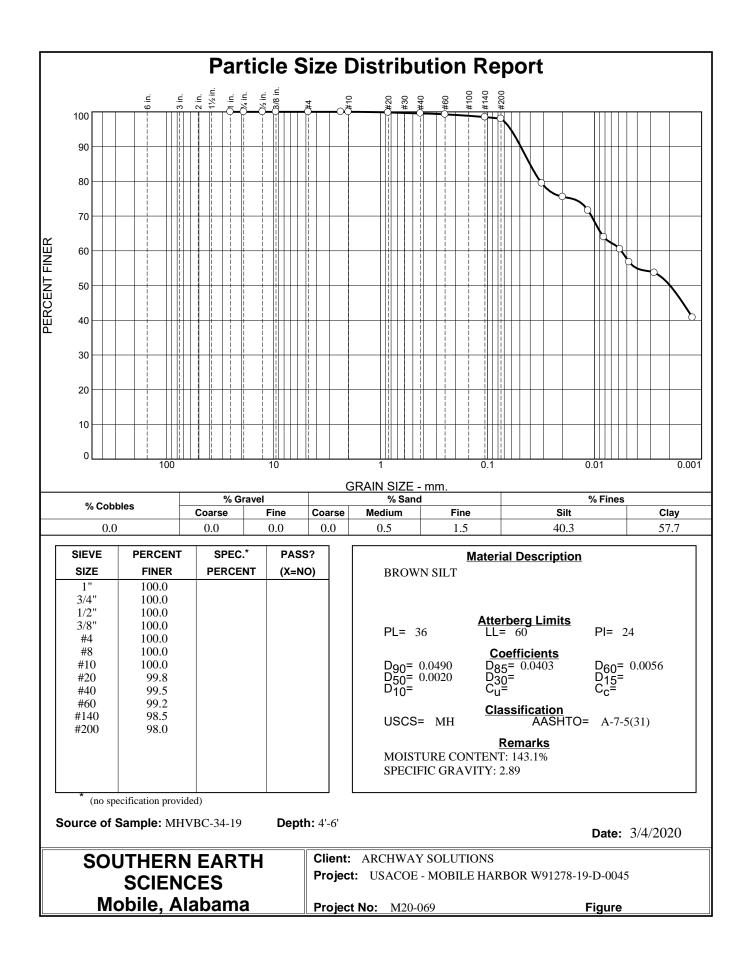
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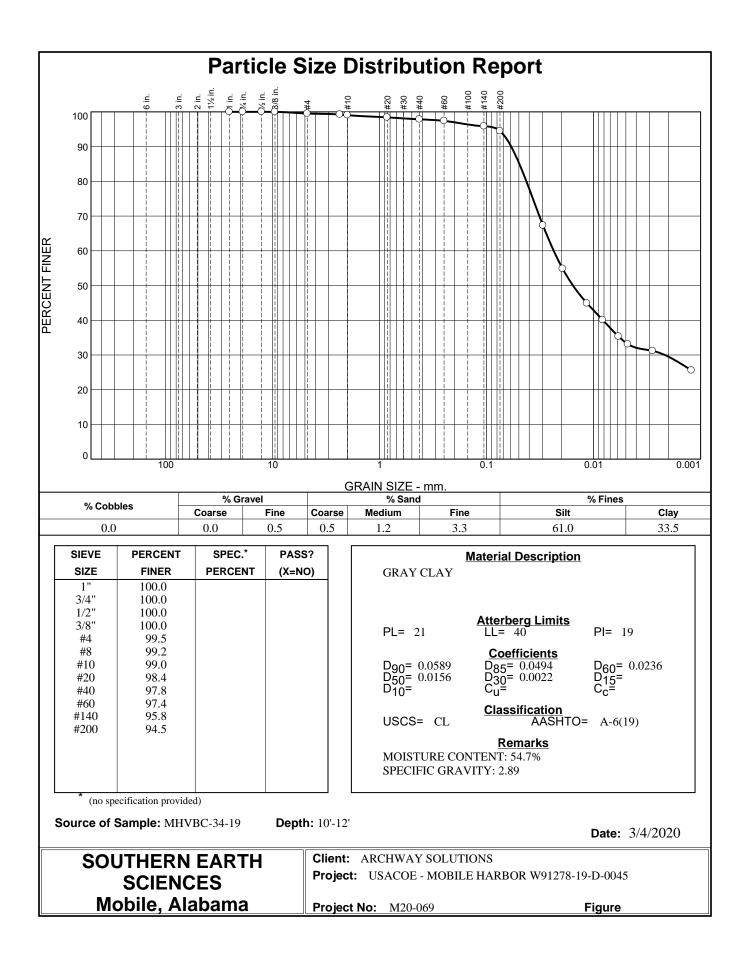
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		FEQ	State Plane - Alabama West - U.S. Survey Ft.       NAD83       MLLW         ELEVATION TOP OF BORING										
X = 1,805,4			-27.8			BURING	2						
								DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE			
		NOTES:         1. Soils are field visually classified in accordance with the Unified Soils Classification System.         Classification System.			Sec		140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).	signation	SS-95				

roject I.D.								Bo	oring Desig	nation		/BC-34	4-19
DRILLING L	OG	DIVISI	ON So	uth Atlantic	IN	IST/	ALLA	ΤΙΟΙ	Mobile	District		EET 1 2 Shi	EETS
PROJECT					LAT	LONG	COORE	DINATES	LAT = 30.4	16976648	LONG	= -88.01	16430
2020 Geotecl	nnical Ir	nvestigation	ı		STA	TE PL/	ANE CO	ORDINA	<b>TES</b> X = 1,8	305,806	Y = 171,	215	
DATE OF BORING	•		<b>STARTED</b> 01-09-20	01-09-20					<b>TUM/UNITS</b> Vest - U.S. Su	urvey Ft.	<i>horiz.</i> NAD83	VEF MLI	
DRILLING AGEN	CY C	Corps of F	Engineers -						<i>тор ог вс</i> -48.0 Fe	DRING	GROUN		
NAME & TITLE OF F	IELD INS	PECTOR	NAM	NE OF DRILLER	MAN	UFAC	TURER	'S DESIC	-40.0 F			erwater	
J. McConnell, G				CSI BEARING	Vi	broco	re			C		L HAMM	IER
			EG. FROM ERTICAL	DEANING	SIZE	AND	ТҮРЕ О	FBIT	See R	emarks			
THICKNESS OF OVE	RBURDE	N//	A		тот	AL NU	MBER (	CORE B	DXES (	)			
DEPTH TO TOP OF I	ROCK	N//	A		тот	AL SA	MPLES	D	<b>STURBED</b> 1	UNI	DISTURBED	(UD)	0
TOTAL DEPTH OF B	ORING	17.	0 Feet		тот		COVER	Y FOR E	oring 10	0 %			
		CLASSIFIC	ATION OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR RE	AILLING MARKS	BLOWS/ 1 FT.	N-VALUE
-48.0 0.0		I) SILT, inorg consistency,		h plasticity, very ray									
-56.0 8.0	cons grav		ne silt, few f		100	1		V	ibracore	-200= 36, LL	-52 Ft. 98%, PL= = 60, PI= C= 143%, .89		
	gray												

DRILLING LO	G (Cont. Sheet)			iot				SHEET	
		Mobile						OF 2	
PROJECT		COORDINA State Plan				<b>лм</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VER1 ML	
LOCATION COORDINATE	S		INADOS						
X = 1,805,806 Y =		-48.0 Ft							
ELEV. DEPTH	CLASSIFICATION OF MATERIALS	R	ĚC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 1 FT. N-VALUE
	(PT) PEAT, wet, dark brown NOTES:		00	1		Vibracore	At El58 F -200= 95%, 21, LL= 40, 19, MC= 55 Gs= 2.89	t. PL= PI=	
	1. Soils are field visually classified in accordance with the Unified Soils Classification System.								





rojec	t I.D.										Вс	oring Design	ation			SS	-97		
DRI	LLIN	G LO	G I	DIVIS	SION	So	uth Atlantic	IN	ISTA	<b>ALL</b>	ΤΙΟΙ	Mobile I	Distric	F	SHEET OF 2		ETS		
PROJ	ECT							LAT	LONG	COORI	DINATE	LAT = 30.46	8135	LONG	= -88.0	)1518	35		
19	63-196	4 Subs	surface	Invest	igatio	n		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,80	06,196	Y = 1	70,620	)			
	OF BOI				_	RTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Sur	vov Et	HOR NAD		VER: MLL\			
DRILI	LING AG	ENCY	(	Corps	of Engi	neers -	L					TOP OF BOI	RING	GRO	DUND N	IND WATER			
			D INSPEC	-				MAN	UFAC	TURER	'S DESI	-33.8 Fe		Inderwa o HAMN					
		I/A, Ge	-				N/A	N/	Ά				Č			HAMMER			
_	TION OF VERTICA		INCLINE	D	DEG. VERT	FROM	BEARING	SIZE		ГҮРЕ О	FBIT	See Re	marks						
тніск	NESS OF	OVERB	URDEN		N/A			тот	AL NU	MBER	CORE B	oxes 0							
DEPTH	і то тор	OF ROC	к		N/A			тот	AL SAI	MPLES	D	STURBED ()	UNI	DISTURE	BED (UD	<b>)</b> (	)		
ΓΟΤΑΙ	DEPTH	OF BORI	ING		17.5 Fe	eet		тот	AL REG	COVER	Y FOR E	oring Not	Record	ed					
ELEV.	DEPTH	LEGEND	c	CLASSI	FICATIO	ON OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE		
-33.8	0.0		(CH) C	LAY, fa	at, higi	n plastic	ity, very soft												
-	F		consiste	ency, w	vet, gra	iy													
-	+										Adva	nced Boring							
-	ł											J. J							
-	F																		
-	+														F	0			
-	ł							NR			60	T Sampler			ŀ	0			
-	-										01				ŀ	-	0		
-	+															0			
-	ł																		
-	-																		
-	+																		
-	ŀ																		
-	ł										Adva	nced Boring							
-	t F																		
-	ł																		
-	ł																		
-	+																		
-	ł							$\vdash$							┝	0			
-	╞														┝				
-	ŧ							NR			SP	T Sampler			╞	0	0		
-	ŧ															0			
-	ł															Ī			
-	ŧ										Adva	nced Boring							
AM F	I FORM 1	1836	AFT	TER ILLING	DI	JRING	<u>∑</u> (C	ontinue	ed)			Boring Des	ianati	on s	S-97				
G 201			DRI	ILLING <sup>-</sup>	- DI	JRING RILLING	≚			by Aı	<b> </b> mendi	-	-						

COORDINATE State Plane - ELEVATION TO -33.8 Ft. RÉC.	Alaba	ma We	est - U.S. Survey Ft.	HORIZONTAL NAD83		0.5 FT. 0 N-VALUE
elevation tr -33.8 Ft. RĚC.	OP OF	BORING	Advancement Advanced Boring			0.5 FT. N-VALUE
-33.8 Ft.	•		Advanced Boring SPT Sampler	DRILLIN REMARK	0	0
RĚC.	BOX OR SAMPLE	RORUS	Advanced Boring		0	0
	BOX OR	ROR DD	Advanced Boring		0	0
NR			SPT Sampler		0	0
NR					0	0
			Advanced Boring			
	1					
			140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
			l			
	d in its ent	d in its entirety	d in its entirety by A	spoon (1-3/8" 1.D. x 2" O.D.). Boring De	spoon (1-3/8" I.D. x 2" O.D.). Boring Designation	spoon (1-3/8" I.D. x 2" O.D.).

DRI	LLIN	G LO	G	DIVISI	ON	South Atlantic	IN	IST/	LLA	τιοι	oring Desig Mobile		t I	SHEET		
PROJ			-											OF 3		
10	00.404			las ti						ORDINA	LAT - 30.4	306,105		00.0 69,277		
			surface	lnvestiga	ation TARTED	COMPLETED		RDINA	TE SYS	STEM/D	ATUM/UNITS	500,105	HOR		VER	т.
DATE	OF BO	RING		0	1-08-84	01-08-84	State	Plan	e - Alal	bama V	Vest - U.S. Sı		NAD		MLL	
DRILL	ING A	GENCY		Corps of E	Engineer	s - CESAM	E	LEV		IS	<i>тор ог во</i> -44.0 Fe		1	<b>DUND N</b> Inderw		2
NAME		OF FIEL				NAME OF DRILLER C. Fuller		<b>IUFAC</b> brocoi		S DESIG	SNATION OF DI		_	O HAMI UAL H		
DIREC		Gates, BORING	-	DI	G. FRON	BEARING	VI		e							.R.
$\boxtimes$	VERTIC		INCLINE		ERTICÁL		SIZE	AND .	ТҮРЕ О	FBIT	See R	emarks				
тніск	NESS O	F OVERB	URDEN	N//	4		тот	AL NU	MBER (	ORE B	DXES (	)				
DEPTH	то то	P OF ROC	ĸ	N//	4		тот	AL SAI	MPLES	D	<b>STURBED</b> 1	UN	DISTURE	BED (UL	<b>)</b> (	)
TOTAL	. DEPTH	OF BOR	NG	27.	0 Feet		тот	AL RE	COVER	Y FOR B	oring 10	0 %				
ELEV.	DEPTH	LEGEND		CLASSIFIC	ATION OF	MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT	DI RE	RILLING EMARKS		BLOWS/ 1 FT.	N-VALUE
-44.0	0.0															
			organio	tency, wet, c material	black a	sticity, very soft nd dark gray, with stency, light gray	100	1		V	ïbracore		-48.5 F 97.6%	t.		
-																
	ORM	1000			DURINO DRILLII	G ⊈ (C	continue				Boring De			/C-24		

DR		G LC	)G (Coi	nt. Sheet)	INSTAL			B			SHEET OF 3	
ROJEC				,		ile Dis		M/DAT	IM	HORIZONTAL	OF 3 VERT	
	- 1								est - U.S. Survey Ft.		MLI	
OCATI	ON COOP	RDINAT	ES		ELEVAT							
X = <sup>-</sup>	1,806,10	5 Y	= 169,277	7	-44.	0 Ft.						
ELEV.	DEPTH	LEGEND	с	LASSIFICATION OF MATE	RIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS 1 FT. N-VALUE
- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -		(OL) CL brown	_AY, organic-L, wet, blac	k and	100	1		Vibracore	At El58.5 -200=97.6%		
-64.7 	- - - - -		consiste	LAY, fat, high plasticity, sency, wet, light gray		-				At El64.5 -200=96.3%	Ft.	
-	ţ	<b> </b> <u> </u> ¦¦¦¦¦		, and, siry, wer, while, p	Sony graded	1						
-	t	111111 1836-/	• • • • • •			l ontinue				esignation	VC-24-	

DRILLING L	.OG (Cont. Sheet)	INSTALLA						SHEET 3	
		Mobile						OF 3 SI	
ROJECT							HORIZONTAL	VERTIC	
		1				est - U.S. Survey Ft.	NAD83	MLLV	V
OCATION COORDIN		ELEVATIO		P OF I	BORING	3			
X = 1,806,105	Y = 169,277	-44.0 [	Ft.				-		<b></b>
ELEV. DEPTH U	CLASSIFICATION OF MATERIALS	F	RÉC.	SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	Sign Sign Sign Sign Sign Sign Sign Sign	1 FT. N-VALUE
-71.0 27.0			100	1		Vibracore			
	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.								
+ + + + + + + + + + + + + + + + + + +									

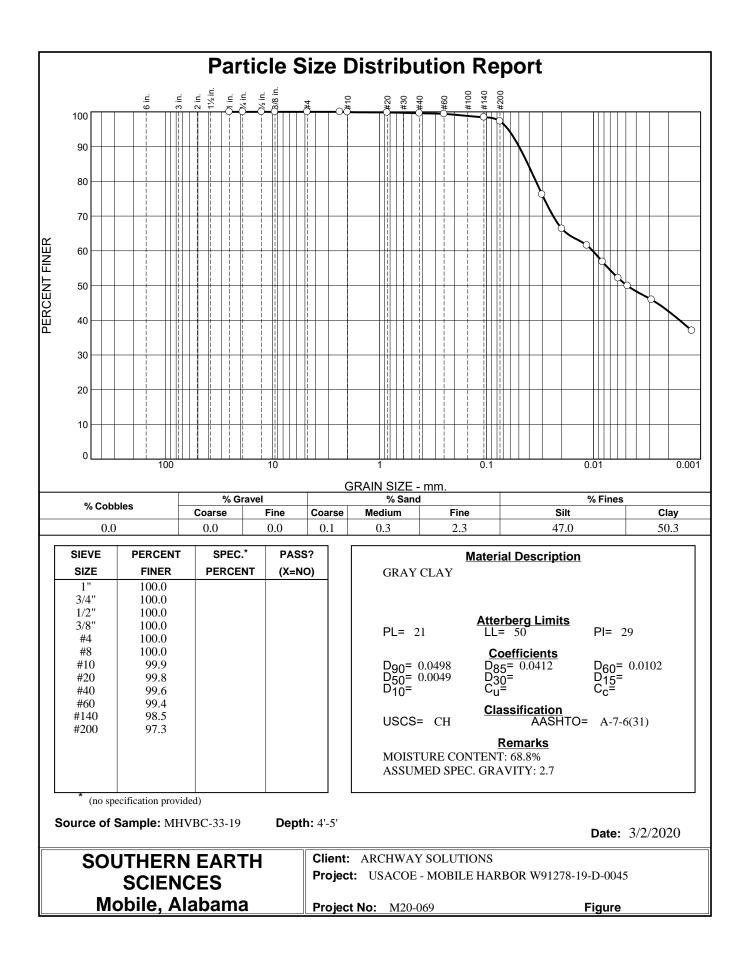
rojec	t I.D.										Bo	oring Design	ation			SS	-99
DRI	LLIN	G LO	G	DIV	ISION	So	uth Atlantic	IN	IST	ALLA	ΤΙΟΙ	Mobile [	Distric	t	SHEET OF 3		ETS
PROJ	ECT							LAT	LONG	COOR	DINATE	<b>b</b> LAT = 30.46	62516	LONG	= -88.	0163	11
19	63-196	4 Subs	surfac	ce Inve	stigatio	n		STA	TE PL/	NE CO	ORDINA	X = 1,80	)5,832	Y = 1	68,57	8	
	OF BO					RTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Sur	vov Et	HOR NAD		VER MLL	
	ING AG	FNCY		Corps	e of Eng	ineers - (						TOP OF BOR			03 OUND		
	& TITLE		D INSF			-	E OF DRILLER					-26.8 Fee			Inderv		
		I/A, Ge					N/A	N/	/A	-					O HAN		ER
	TION OF			NED	DEG. VERT	FROM FICAL	BEARING	SIZE	E AND '	ТҮРЕ О	FBIT	See Re	marks				
	NESS OF				N/A			тот		MBER	CORE B	DXES ()					
					N/A					MPLES		STURBED ()	UN	DISTUR	BED (U	<b>D)</b> (	)
	DEPTH				24.5 F	eet					Y FOR E		Record		(0	_,	5
LEV.	DEPTH			CLASS	_	ON OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD				RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
									,							-	2
-26.8	0.0																
	-				, fat, higl , wet, gra		ty, very soft										
-	ļ																
-	-																
	F										Adva	nced Boring					
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	F															0	
-	Ł							NR			SP	T Sampler				0	0
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-	-										Adva	nced Boring					
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•	ţ							NR			SD	T Sampler				0	
-	$\vdash$										37	i Samplei					0
-	ţ															0	
	ł										Adva	nced Boring					
				AFTER DRILLING		URING RILLING	<u>∠</u> (C	ontinue				Boring Des			SS-99		

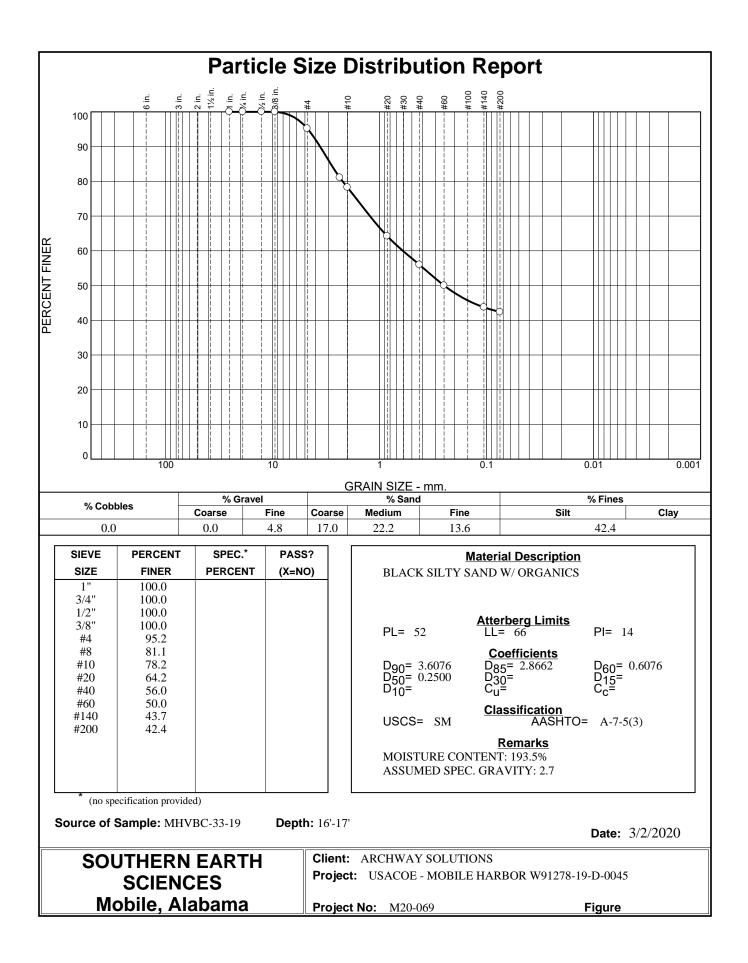
DRILLING LOG (Cont. Sheet)						SHEET 2	
	Mobile D					OF 3 SH	
PROJECT	COORDINAT						
OCATION COOPRIMATES				est - U.S. Survey Ft.	NAD83	MLLW	
LOCATION COORDINATES X = 1,805,832 Y = 168,578	-26.8 Ft.	I UP OF	BURIN	5			
	20.0 FL	<b>~</b> ₩	T				ш
ELEV. DEPTH	s Ré	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	0.5 FT.	N-VALUE
				Advanced Boring			
	NF	2	-	SPT Sampler		0 0 0	- 0
				Advanced Boring			
	NF	R		SPT Sampler		0 0 0	0
				Advanced Boring			
			1				1
CAM FORM 1836-A AFTER ▼ DURING ▽ DRILLING 2017	(Contin	ued)		Boring De	esignation	SS-99	

DR	ILLIN	G LC	)G (Cont. Sheet)							SHEET	
					bile Dis					1	SHEETS
PROJEC	T				DINATE			<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83		<b>fical</b> LW
OCATI	ON COO		FS						INADOS		
			= 168,578		6.8 Ft.		JORINO				
ELEV.	DEPTH	QN	CLASSIFICATION OF MATERIAL		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE
-	+							Advanced Boring			- <u>z</u>
-51.3 - - -	24.5		NOTES: 1. Soils are field visually classified ir accordance with the Unified Soils	1				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x	-		
	- - - - -		Classification System.					(1-3/8° 1.D. x 2" O.D.).			
-	- - - - -										
-	- - - -										
	- - - -										
- - - -	+ + + + +										
-	+ + + +										
	+ + + + + + + + + + + +										
SAM F		1836- <i>/</i>	A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING ▼					Boring De	signation	 SS-99	

roject I.D.	-						Bo	oring Desig	nation	MHV		3-19
DRILLING LOG	DIVISION	South Atlar	ntic	IN	STA	ALLA	ΤΙΟΙ	Mobile	District		ET 1 2 SHI	EETS
PROJECT				LAT/	LONG	COORE	DINATES	LAT = 30.4	16041659	LONG =	-88.01	15136
2020 Geotechnical I	Investigation			STAT	FE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	306,199	Y = 167,8	313	
DATE OF BORING	<b>STARTE</b> 01-18-2							<b>ATUM/UNITS</b> Vest - U.S. Su	irvev Et	<i>HORIZ.</i> NAD83	VEI MLI	
DRILLING AGENCY	Corps of Engine		, 20 (					TOP OF BO	DRING	GROUN	D WATE	R
NAME & TITLE OF FIELD IN		NAME OF DRIL	LER	MAN	UFAC	TURER	'S DESIC	-49.0 Fe				
C. Long, Geotechnica	-	CSI		Vit	orocor	re						
DIRECTION OF BORING	LINED DEG. FRO	DM BEAR	-	SIZE	AND	ТҮРЕ О	F BIT	See Re	emarks			
THICKNESS OF OVERBURD	en N/A			тот	AL NU	MBER (	CORE B	oxes ()	)			
DEPTH TO TOP OF ROCK	N/A			тот	AL SAI	MPLES	D	<b>STURBED</b> 1	UNL	DISTURBED	(UD)	0
TOTAL DEPTH OF BORING	17.0 Feet			тот	AL REG	COVER	Y FOR E	oring 10	0 %			
	CLASSIFICATION	OF MATERIALS	R	хёс.	BOX OR SAMPLE	RGD OR UD	ADV I	ANCEMENT METHOD	DR RE	RILLING MARKS	BLOWS/ 1 FT.	N-VALUE
49.0 0.0	H) SILT, inorganic-H	L high plasticity	Vorv									
- soft	t consistency, wet, d	ark gray, trace	shell									
52.0 3.0	H) CLAY, fat, high p sistency, wet, dark g	asticity, soft arav. trace she										
	rganic	, ,, ,	,							52 Et		
									At El. -200=	97%, PL= = 50, PI=		
			1	100	1		v	ïbracore	29, M	C= 69%		
+												
+ 1												
	El58.0 Ft. some s	hell										

DR	ILLIN	G LC	)G (Cont. Sheet)									ETC
ROJEC			. ,	COORDI	le Dis		M/DAT		HORIZONIZA	OF 2		
RUJE	• 1							est - U.S. Survey Ft.	HORIZONTAL NAD83		TICAL	-
OCATI	ON COOF	RDINAT	ES	ELEVAT								
X = 1	1,806,19	9 Y	= 167,813	-49.0	) Ft.							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	<u>G</u> S	BLOWS/ 1 FT.	N-VALUE
-63.0 -63.0 -63.0 - - - - - - - - - - - - - - - - - - -			(SM) SAND, silty, wet, dark brown, or laden, with roots/wood NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.		100	1		Vibracore	At El65 F -200= 42%, 52, LL= 66, 14, MC= 19	PL= PI=		



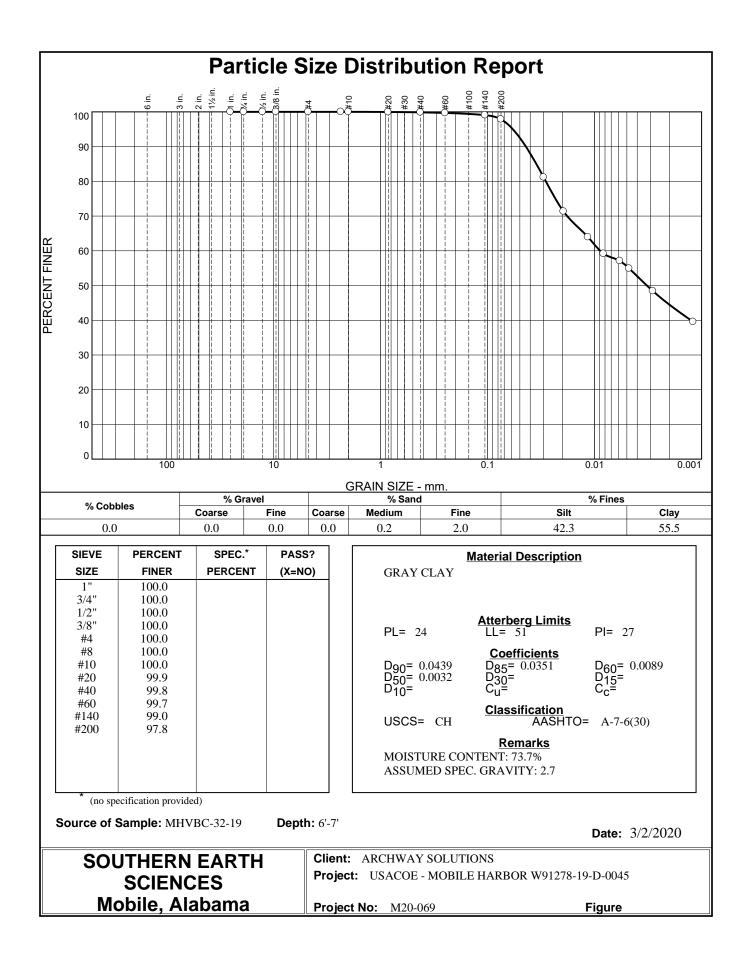


DRI	LLIN	G LO	G	DIVIS	SION	So	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile I	Distric	t I	SHEET OF 2		ETS
PROJ	ECT							LAT	LONG	COOR	DINATE	LAT = 30.4	57116				
10	63-106	1 Qub	surface	e Invest	idation			STA	TE PLA	NE CO	ORDINA			Y = 16			-
	OF BO		Sunace		starte	D	COMPLETED					ATUM/UNITS	,	HORIZ	z.	VER	
												Vest - U.S. Sur <b>TOP OF BOI</b>		NAD8	3 UND 14	MLL VATE	
	ING AG				of Enginee							-38.8 Fe	et	1	nderw		
NAME	& TITLE	OF FIEL I/A, Ge		CTOR		NAM	e of driller N/A	MAN N/		TURER	S DESI	<b>GNATION OF DR</b>	נג נ		) HAMI JAL H/		ER
	TION OF	BORING	i .		DEG. FRO	DM	BEARING	6175		TYPE O	EBIT	See Re	morko				
$\boxtimes$	VERTICA		INCLINE										narks				
тніск	NESS OF	OVERB	URDEN		N/A			тот	AL NU	MBER (	CORE B	-					
	І ТО ТОР				N/A			тот	AL SAI	MPLES	D	ISTURBED ()		DISTURB	ED (UL	)	0
TOTAL	. DEPTH		ING	1	2.5 Feet			тот	-	COVER	Y FOR E	oring Not	Record	led			
ELEV.	DEPTH	LEGEND		CLASSIF		OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
-38.8	0.0		(CH) (	CLAY, fa	at, high pl	astici	ty, very soft										
-	-				et, gray,												
-	-										Adva	nced Boring					
-	-																
-																0	
-	-							NR			90	T Sampler			F	0	
-	-										J-	r Samplei			┝	0	0
-	-															0	
-	-																
-																	
-	$\vdash$																
-																	
-											Adva	nced Boring					
-	-										71070	lioca Doning					
-																	
-	-																
-	F																
-	Ł																
-	ŀ															0	
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-	╞														┝		0
-	F														╞	0	
-	Ł																
-	ŀ										Adva	nced Boring					
-	t i																
								1									

DR		G LC	)G (Cont. Sheet)							SHEET		
					obile Dis					<b>OF</b> 2		TS
PROJEC	T				Plane -			<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83		TICAL _LW	
			ES		ATION T				INAD03		v	
			= 166,612		8.8 Ft.			-				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL	S	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G (S	BLOWS/ 0.5 FT.	N-VALUE
ELEV.	- - - - - - -		NOTES:         1. Soils are field visually classified accordance with the Unified Soils Classification System.		RÉC.	BOX 0		Advanced Boring		G		
-	+ + + + +											
- 	- - - - - - - - - - - - - - - - - - -	836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▽					Boring D	esignation	SS-10	1	

roject I.D.						Bo	oring Desig	nation	MHV	BC-32	2-19
DRILLING LOG	DIVISION	South Atlantic	IN	IST/	<b>ALL</b>		Mobile	District		ET 1 2 Shi	EETS
PROJECT			LAT	LONG	COORI	DINATES	LAT = 30.4	5585261	LONG =	-88.01	14930
2020 Geotechnical I	nvestigation		STA	TE PL/	ANE CO	ORDINA	<b>TES</b> X = 1,8	306,256	Y = 166,1	53	
DATE OF BORING	<b>STARTEL</b> 01-18-20						<b>ATUM/UNITS</b> Vest - U.S. Su	irvey Ft.	<i>horiz.</i> NAD83	VEP MLI	
DRILLING AGENCY	Corps of Enginee	ers - CESAM					<i>тор ог во</i> -50.0 Fe	RING	GROUN	<b>D WATE</b> erwater	
NAME & TITLE OF FIELD INS	SPECTOR	NAME OF DRILLER	MAN	UFAC	TURER	'S DESIG	SNATION OF D				
C. Long, Geotechnica	-	CSI M BEARING	Vi	broco	re					. HAMM	ER
	INED DEG. FRO	L	SIZE	AND	ТҮРЕ О	F BIT	See Re	emarks			
THICKNESS OF OVERBURD	en N/A		тот	AL NU	MBER (	CORE BO	DXES ()				
DEPTH TO TOP OF ROCK	N/A		тот	AL SAI	MPLES	DI	<b>STURBED</b> 1	UND	ISTURBED	(UD)	0
TOTAL DEPTH OF BORING	18.0 Feet		тот	-	COVER	Y FOR B	ORING 10	0 %		_	
	CLASSIFICATION O	OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR REI	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
50.0 0.0		hinh al-stick,									
soft	<ol> <li>SILT, inorganic-H, consistency, wet, data</li> </ol>	ark gray									
<b>— —</b>											
†											
52.5 2.5 (CH	I) CLAY, fat, high pla	asticity, soft	-								
	śistency, wet, dark g El53.0 Ft. with indu										
			100	1			ibracore				
+								At El. ·			
Ŧ M								-200= 24, LL	98%, PL= = 51, PI=		
								27, MC	C= 74%		
T At E	El57.0 Ft. with indu	irated clay nodules									
+											
‡ 🚺											
‡ 💋											
+ 💋											
‡ 💋											
AM FORM 1836	AFTER DURIN DRILLING DRILL	IG <u>√</u> (C	ontinue				Boring De				

DRILLING LOG	(Cont. Sheet)	INSTALLAT Mobile [		<b>~t</b>				SHEET OF 2	
ROJECT	-				M/DAT'	IM	HORIZONTAL		TICAL
						st - U.S. Survey Ft.	NAD83		LW
OCATION COORDINATES		ELEVATION							
X = 1,806,256 Y = 1	66,153	-50.0 Ft	t.						
ELEV. DEPTH	CLASSIFICATION OF MATERIALS	RÉ	<u>د</u> .	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT. N-VALUE
	t El62.0 Ft. trace shell	10	00	1		Vibracore			
	t El66.0 Ft. trace wood								
+ 1.	OTES: . Soils are field visually classified in ccordance with the Unified Soils lassification System.								
	AFTER ▼ DURING ▼ DRILLING ▼						esignation	мнув	

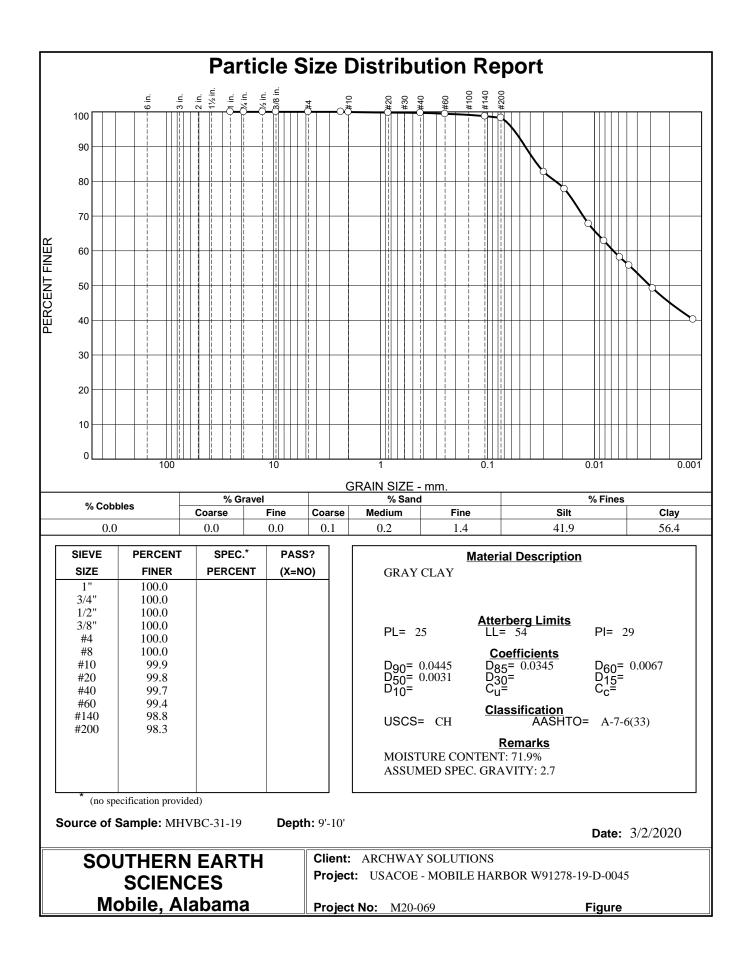


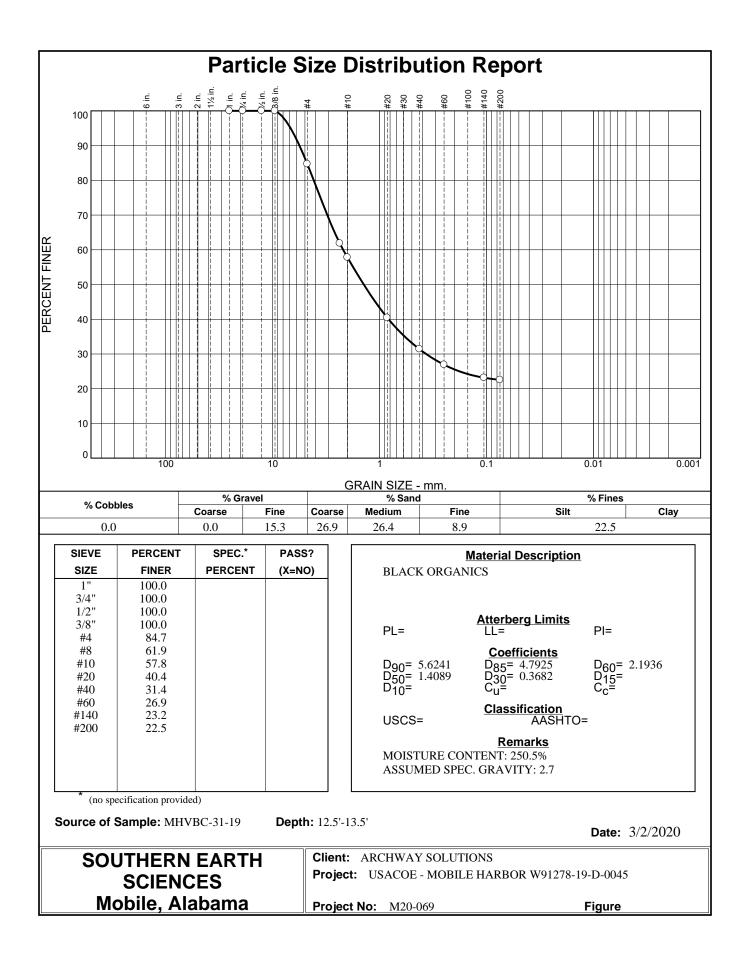
DRI	LLIN	G LO	G	DIVI	SION	So	uth Atlantic	IN	IST/	<b>\LL</b> A	ΤΙΟΙ	Mobile	Distric	t l	HEET 1 F 2 Sh	EETS
PROJ	ЕСТ							LAT	LONG	COORI	DINATE	<b>b</b> LAT = 30.4	51716	LONG =	-88.013	347
10	63-196	4 Subs	urface	e Invest	tigation	ı		STA	TE PL4	NE CO	ORDIN/	<b>XTES</b> X = 1,8	06,748	Y = 164	4,646	
	OF BOI		unaco		STAR		COMPLETED					ATUM/UNITS		HORIZ		RT.
							050444					Vest - U.S. Su TOP OF BO		NAD83	ML JND WAT	LW Er
	ING AG				of Engir		CESAM					-29.8 Fe SNATION OF DR		Un	derwate	r
		I/A, Ge		CIOR		NAN	N/A	N/		IUNEN	5 DESK	SNATION OF DR	[ [		HAMMER AL HAMN	
	TION OF				DEG. F	ROM CAL	BEARING	SIZE			FBIT	See Re	marks			
				ED	N1/A						CORE B					
	NESS OF				N/A N/A					MPLES		ISTURBED ()		DISTURBE	D ((10)	0
	DEPTH				21.5 Fe	at							Record		(עט) ע	0
TOTA					21.5 Fe	el			-		FORE		Record	leu	70	<u> </u>
ELEV.	DEPTH	LEGEND		CLASSI	FICATIO	N OF M/	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DFRE	RILLING MARKS	BLOWS/	N-VALUE
<u>-29.8</u>	0.0		(CH) (	CLAY, f	at, high	plastic	ity, very soft	+							-	
	ŀ				vet, gra											
-	-										Adva	nced Boring				
	-															
	-														0	
-	-							NR			SP	T Sampler			0	
	-										01	r oumpion				0
-	-														0	
	-															
-	-															
	-										م بابر م	need Devine				
-	Ļ										Adva	nced Boring				
	-															
-	-															
-	ł							<b> </b>							0	
-	F															-
-	ŀ							NR			SP	T Sampler			0	0
	ŀ														0	ľ
-	F															
	ł															
-	F										Adva	nced Boring				
-	ł											-				
	ŀ															
	ORM 1	836	AF	TER RILLING		RING	<u>∑</u> (C	ontinue	ـــــــــــــــــــــــــــــــــــــ			Boring Des	innati	<u> </u>	5-103	1

DR	ILLING L	.OG (Cont. Sheet)	INSTALLA Mobile				oring Designatio		5-103 SHEET 2 OF 2 S	
ROJE	т		COORDIN			M/DAT	M	HORIZONTAL	VERTI	AL
			State Plar	1e - /	Alabar	na We	est - U.S. Survey Ft.	NAD83	MLL	V
	ON COORDIN	ATES	ELEVATIO		P OF I	BORING	;;			
X =	1,806,748	Y = 164,646	-29.8 F	₹t.						
LEV.	DEPTH BU	CLASSIFICATION OF MATERIALS	R	хёс.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	8FOWS/	0.5 FT. N-VALUE
- - -							Advanced Boring			
- -				NR			CDT Complex		0	_
- -				NK			SPT Sampler		0	0
-							Advanced Boring			
- - - -			1	NR			SPT Sampler		0	0
- - - -51.3	21.5									
	-	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
<b>AM F</b> JG 201	ORM 1836	DRILLING - DRILLING -		onti			Boring De		SS-103	

roject I.D.								Bo	oring Desig	nation		BC-31	1-19
DRILLING LOG	DIV	ISION	South	n Atlantic	IN	IST	ALLA		Mobile	District		ET 1 2 She	EETS
PROJECT					LAT	LONG	COOR	DINATES	LAT = 30.4	45052422	LONG =	-88.01	14065
2020 Geotechnic	al Investig	ation			STA	TE PL/	NE CO	ORDINA	<b>TES</b> X = 1,5	806,520	Y = 164,2	213	
DATE OF BORING		<i>STARTE</i> 01-19-2		<i>COMPLETED</i> 01-19-20					<b>ATUM/UNITS</b> Vest - U.S. S	urvev Ft	<i>HORIZ.</i> NAD83	VER MLL	
	Corp	s of Engine							TOP OF B	ORING	GROUN	D WATE	R
NAME & TITLE OF FIELD		-		OF DRILLER			_	_	-46.0 F		Unde		
C. Long, Geotech	nical Engine			CSI	Vi	broco	re						
	NCLINED	DEG. FRO VERTICA		BEARING	SIZE	AND	ТҮРЕ О	FBIT	See R	emarks			
HICKNESS OF OVERBU	IRDEN	N/A			тот	AL NU	MBER (	CORE B	DXES (	)			
EPTH TO TOP OF ROCK	<u>د</u>	N/A			тот	AL SAI	MPLES	DI	<b>STURBED</b> 1	UNL	DISTURBED	(UD)	0
OTAL DEPTH OF BORIN	IG	15.0 Feet			тот	AL RE	COVER	Y FOR B	ORING 10	0 %			
	CLAS	SIFICATION	OF MATE	RIALS	REC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT	DR RE	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
	Soft consiste	ency, wet, d	lark gray		100	1		v	ïbracore				
										-200=	-55 Ft. 98%, PL= = 54, PI=		

DR		G LC	)G (Cont. Sheet)	INSTAL						SHEET	
PROJEC			( <b>-</b> )		oile Dis DINATE		MAAT		HORIZONTAL	OF 2 VERT	
RUJEC	• 1							им est - U.S. Survey Ft.	NAD83	ML	
OCATI		RDINAT	ES						10.000		
			= 164,213		0 Ft.		-	-			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT. N-VALUE
58.0 58.0 60.0 61.0 61.0 61.0 	- - - - - - - - - - - - - - - - - - -		(PT) PEAT, soft consistency, wet, with roots (SM) SAND, silty, low plasticity, m consistency, wet, gray, inorganic NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	black,	<b>REC.</b>	1		Vibracore	At El58.5 -200=23%, MC=251%		
-	- - - -										
	- - 										
SAM F	ORM 1	836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼			-	-	Boring De	esignation	MHVB	C-31-





DRI	LLIN	g lo	G	DIVI	SION	So	uth Atlantic	IN	IST/	<b>\LL</b> A	ΤΙΟΙ	Mobile	Distric	t I	HEET F 2		ETS
PROJE	СТ							LAT	LONG	COORI	DINATES	LAT = 30.4	46095	LONG =	-88.0	144	72
104	33-196	4 Sub	surface	e Inves	stigation	1		STA	TE PLA	NE CO	ORDINA	<b>XTES</b> X = 1,8	 06,384	Y = 16	2,603		
	OF BO		Sundoc		STAR:		COMPLETED					ATUM/UNITS		HORIZ		VER	
												Vest - U.S. Su TOP OF BO		NAD83	3   1 UND W.	MLL'	
	ING AG				of Engin							-33.8 Fe	et		nderwa		
NAME 8			D INSPE			NAN	<b>IE OF DRILLER</b> N/A	MAN N/		TURER	'S DESIC	SNATION OF DR	<sup>11.1</sup> [		HAMN AL HA		ER
DIRECT	ION OF	-	<u> </u>		DEG. FI	ROM	BEARING										
<u>ا</u>	/ERTICA		INCLIN	ED	VERIN	CAL		SIZE	E AND	ТҮРЕ О	FBIT	See Re	marks				
тніски	NESS OF	OVERE	URDEN		N/A			тот	AL NU	MBER	CORE B	OXES 0					
DEPTH	то тор	OF ROO	CK		N/A			тот	AL SAI	MPLES	D	STURBED ()	UN	DISTURBE	D (UD)	) (	0
TOTAL	DEPTH	OF BOR	ING		17.5 Fee	et		тот	AL RE	COVER	Y FOR B	oring Not	Record	ed			
ELEV.	DEPTH	LEGEND		CLASS	IFICATIO	N OF MA	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
-33.8	0.0				fot Link	nlest	the war #										
t					fat, high wet, gray		ity, very soft										
+											Adva	nced Boring					
1	-																
ł								<u> </u>							⊢	_	
1	-															0	
ł								NR			SP	T Sampler				0	~
Į																0	0
1	<u>-</u>														F		
Ŧ																	
1	_																
ł																	
t																	
- +	-																
t																	
ł											Adva	nced Boring					
1	-																
ł																	
1	_																
ł																	
ţ																	
+	-							1									
‡																	
ł																0	
1	-							NR			SP	T Sampler			F	0	
1												1			- H		0
								1	1							0	

DRILLING LOG (Cont. Sheet)	INSTALLAT				oring Designatio		SHEET	
	Mobile						OF 2	
OJECT							VERT	
CATION COORDINATES	State Plan				st - U.S. Survey Ft.	NAD83	MLI	_ v v
CATION COORDINATES $X = 1,806,384$ $Y = 162,603$	-33.8 F		OF B	OKING	,			
EV. DEPTH D CLASSIFICATION OF MATERIAL		_	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G (S	BLOWS/ 0.5 FT. N-VALUE
EV. DEPTH B CLASSIFICATION OF MATERIAL		vr	BOX SAM	OR UD	Advanced Boring SPT Sampler Advanced Boring			0.01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
51.3 17.5 NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	n				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

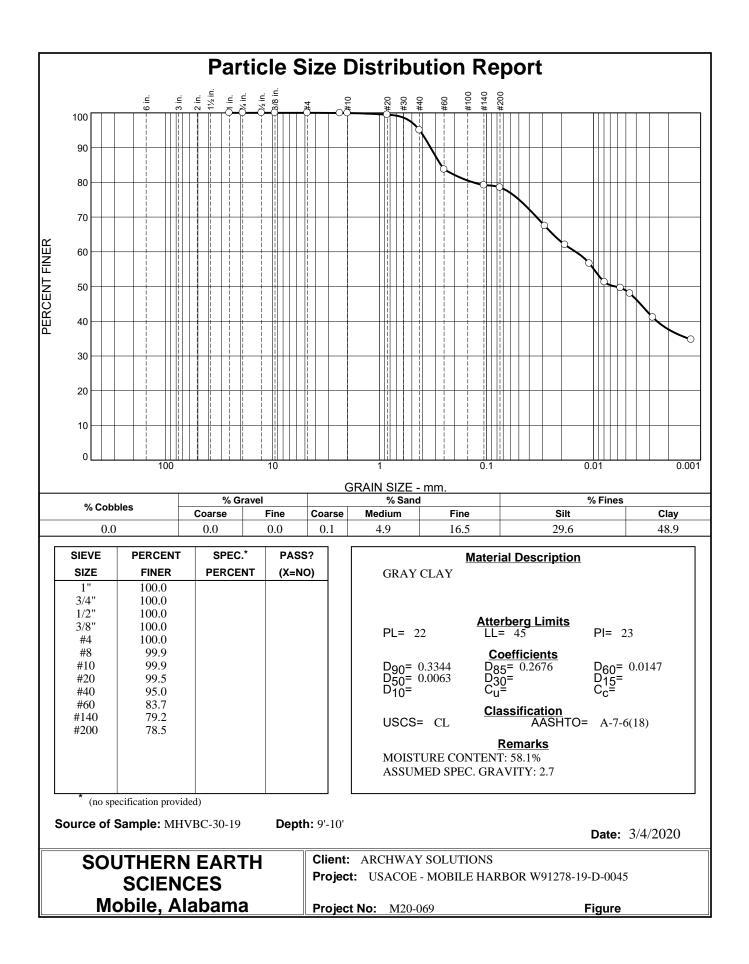
DRI	LLIN	G LO	G	DIVIS	ION S	South Atlantic	IN	IST/	<b>\LLA</b>	TIO	Mobile	Distric		HEET F 3 S		TS
PROJ	ECT						LAT	LONG	COORE	DINATES	LAT = 30.4	45203				
10	82-198	4 Sub	surface	e Investig	nation		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	06,655	Y = 16	2,277		
	OF BO		Surrace		STARTED	COMPLETED					TUM/UNITS		HORIZ	. 1	ERT.	
					01-08-84	01-08-84					Vest - U.S. Su TOP OF BO		NAD83	3 N	ILLW	
				-	-	- CESAM					-43.0 Fe	et	Un	Iderwa	ter	
NAME	& TITLE H. (		Geologi		N	AME OF DRILLER C. Fuller		brocoi		S DESIC	SNATION OF DR	"LL [ [				R
	TION OF	BORING	ì		DEG. FROM	BEARING	S175		TYPE O	EBIT	See Re	marks				_
	VERTICA															
	NESS OF				/A					ORE BO						
	і то тор				/A		-		MPLES		STURBED 1		DISTURBE	:D (UD)	0	
ΤΟΤΑΙ	_ DEPTH	<u>г г</u>	ING	25	5.0 Feet		тот		COVER	Y FOR B	ORING 100	0 %				ш
ELEV.	DEPTH	LEGEND		CLASSIFI	CATION OF	MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT	DF RE	RILLING MARKS			N-VALUE
<u>-43.0</u>			(CH) ( consist	CLAY, fat	, high plas	ticity, soft	100	1		v	ibracore					
	t															

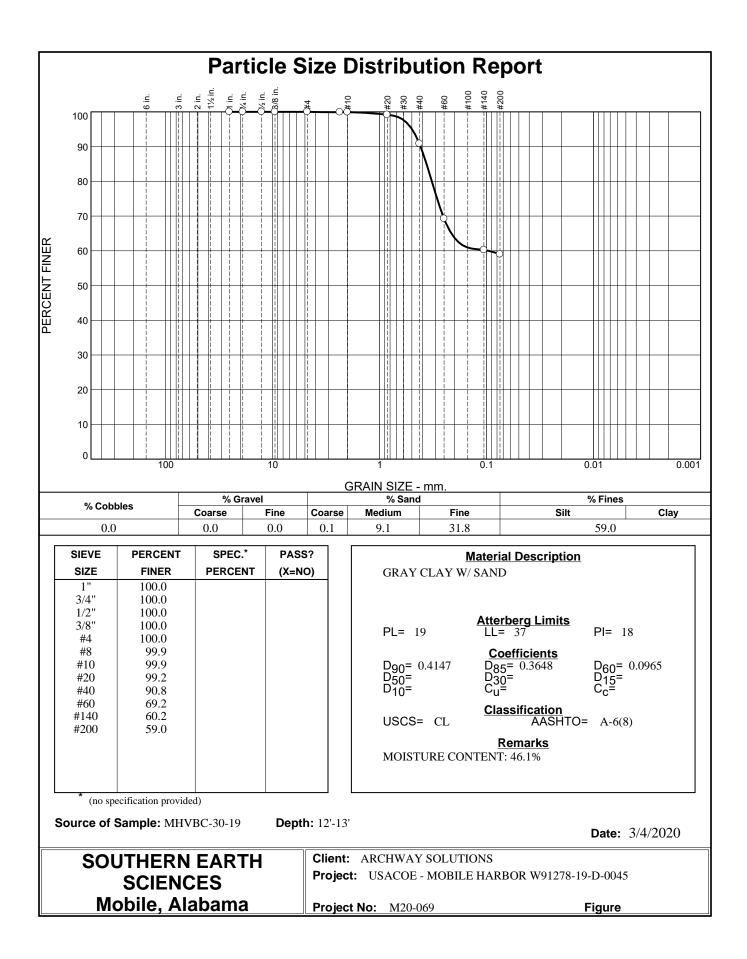
RAVECT         COORDINATE SYSTEMDATUM         HORIZONTAL         VIETUAL           USCATION COORDINATES         State Plane - Astama West - U.S. Survey FL         NADOS         MILLY           LICOATON COORDINATES         ELEVATION OF OF FIORING         NADOS         MILLY           LICOATON COORDINATES         ELEVATION OF OF FIORING         NADOS         Bit           LICOATON COORDINATES         Y = 1000,055         Y = 162,277         -43.0 FL         -43.0 FL           LILY         DEPTH         B         CLASSEPICATION OF MATERIALS         NOC         State Plane - Astama West - U.S. Survey FL         NADOS         Bit         Bit           LILY         DEPTH         B         CLASSEPICATION OF MATERIALS         NOC         State Plane - Astama West - U.S. Survey FL         NADOS         Bit         Bit           LILY         DEPTH         B         CLASSEPICATION OF MATERIALS         NOC         State Plane - Astama West - U.S. Survey FL         NADOS         Bit         Bit </th <th>DRILLING LOG (Cont. Sheet)</th> <th>INSTAL</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>SHEET 2</th> <th></th>	DRILLING LOG (Cont. Sheet)	INSTAL						SHEET 2	
State Plane - Alagama West - U.S. Survey FL         NADB3         MLLW           X = 1,806,655         Y = 162,277         43.0 FL         43.0 FL         43.0 FL           ELEV. DBPTH         99         CLASSIFICATION OF MATERIALS         nBc.         92         PDP MARKENSHT         RBMARKS         91         PDP MARKENSH									
DOUTION COORDINATES         LEVATION OF MATERIALS         LEVATION OF MATERIALS         No.           43.0 FL         43.0 FL         43.0 FL         43.0 FL         100<	roject								
X = 1,800,655       Y = 162,277       43.0 FL         BLEV.       DEPTR       1       CLASSIFICATION OF MATERIALS       REV.							NAD83	MLL	/V
REV         09         CLASSIFICATION OF MATERIALS         No.         NO.         NO.         AVAILABLESS         REMARKS         NO.         NO.				OP OF I	BORING	i i			
100 1 Vibracore		-43.0	/ F L.	¢Ш					ш
	ELEV. DEPTH	5	RÉC.	BOX OF SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	SWO 18	1 FT. N-VALUI
AM FORM 1836-A AFTER V DURING (Continued) Boring Designation VC-26-84	AM FORM 1836-A	(Ссе					esignation	VC-26-8	

DP		GIO	)G (Cont. Sheet)	INSTALL						SHEET	
					le Dis						SHEET
PROJEC	т								HORIZONTAL		
	<b></b>							est - U.S. Survey Ft.	NAD83	ML	LW
	<b>ON COO</b>		<b>ES</b> = 162,277	<b>ELEVAT</b> -43.0		JP OF	BORIN	5			
ELEV.	DEPTH	QN	CLASSIFICATION OF MATERIALS	40.0	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G (S	BLOWS/ 1 FT. N-VALUE
						©0≊					<u> </u>
-	-				100	1		Vibracore			
-68.0	25.0		NOTES:						-		
- -	- - -		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.								
-											
	- - -										
- - -	+ + + +										
-	+ - -										
	- - -										
- - -											
- - -											
- - - -	+ + + + +										
5AM F		 1836-/						Boring De	signation	VC-26	-84

roject I.	.D.							Bo	oring Desig	nation		BC-30	0-19
DRILL	LING LO	G	DIVISION	South Atlanti	ic IN	IST/	ALLA		Mobile	Distric		EET 1 2 SH	EETS
PROJEC	Т				LAT	LONG	COORI	DINATES	LAT = 30.4	4412254	LONG =	-88.013	3463
2020	Geotechn	nical In	vestigation		STA	TE PL/	ANE CO	ORDINA	<b>TES</b> X = 1,8	806,694	Y = 160,	831	
	F BORING		<b>STAR1</b> 01-19						<b>TUM/UNITS</b> Vest - U.S. Si	unyoy Et	HORIZ. NAD83	VEI ML	
	G AGENCY	,	Corps of Engin						TOP OF B				
									-45.0 F			erwater	
	ong, Geote			CSI		broco	re						
	N OF BORING	-	DEG. FI VERTIO	ROM BEARIN CAL		AND	ТҮРЕ С	F BIT	See R	emarks			
					тот	AL NU	MBER	CORE BO	DXES (	)			
ЕРТН ТО	D TOP OF RO	ск	N/A		тот	AL SA	MPLES	ום	STURBED 1	UN	DISTURBED	(UD)	0
OTAL DE	EPTH OF BOF	RING	20.0 Fee	et	тот	AL RE	COVER	Y FOR B	ORING 10	0 %			
LEV. DE	EPTH CENT		CLASSIFICATION	I OF MATERIALS	RĚC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT IETHOD	DF RE	RILLING MARKS	BLOWS/ 1 FT.	N-VALUE
	<u>4.5</u>	(CH) (CL)	CLAY, fat, high istency, wet, dark	plasticity, soft	100	1		V	ibracore				
53.5 <u>8</u> - - -		medi	um sand and she								-54 Ft.		
5 <u>3.5 8</u> - - - - -		medi	um sand and she							-200= 22, LL	-54 Ft. 78%, PL= .= 45, PI= C= 58%		

		G (Cont. Sheet)	<b>I</b>	a						au
		- ,		ile Dist					<b>OF</b> 2	
ROJECT			COORD State P					HORIZONTAL NAD83		rical LW
		-					est - U.S. Survey Ft.	NADOS		
X = 1,806,69			-45.			BURING	,			
ELEV. DEPTH	Q	CLASSIFICATION OF MATERI	•	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT. N-VALUE
-58.0 13.0 -58.0 13.0 58.0 13.0 		At El57.0 Ft., low plasticity, med consistency, wet, gray sandy (SC) SAND, clayey, medium con wet, gray (At El60.0 Ft. sand lense (OH) CLAY, organic-H, wet, gray wood At El61.5 Ft. sand lense (CH) CLAY, fat, high plasticity, so consistency, wet, gray At El64.0 Ft. wood trapped in b	sistency, , with	. 100	± <b>⊠∂</b>		Vibracore	At El57 F -200= 59%, 19, LL= 37, 18, MC= 46	t. , PL= PI=	
-65.0 20.0 		NOTES: 1. Soils are field visually classifie accordance with the Unified Soils Classification System.	d in					-		





DRI	LLIN	G LO	G	DIVIS	ION	Soι	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile I	Distric		HEET F 2		ETS
PROJ	ECT							LAT/	LONG	COOR	DINATES	LAT = 30.44	0666				
10	63 106	1 Quin	surface	Investi	aation			STA	TE PLA	NE CO	ORDINA			Y = 16			
	OF BO		sunace	Investi	gation <b>STARTE</b>	D	COMPLETED					ATUM/UNITS		HORIZ		VER	
												Vest - U.S. Sur TOP OF BOI		NAD8	3 JND V	MLL	
	ING AG				f Enginee	ers - (	CESAM			TION		-32.5 Fe	et	1	derw		~
NAME			D INSPE	CTOR		NAM	e of driller N/A	MAN N/		TURER	'S DESIG	SNATION OF DR	<sup>LL</sup> [				FR
DIREC	TION OF	-			DEG. FRO VERTICA	м	BEARING										
$\boxtimes$	VERTICA		INCLINE	D	VERTICA			SIZE	AND	TYPE O	FBIT	See Re	marks				
тніск	NESS OF	OVERB	URDEN	١	N/A			тот	AL NU	MBER (	CORE B	OXES 0					
DEPTH	і то тор	OF ROO	CK	١	N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UL	)	0
ΤΟΤΑΙ	DEPTH	OF BOR	ING	1	8.5 Feet			тот	-	COVER	Y FOR E	oring Not	Record	ed			
ELEV.	DEPTH	LEGEND		CLASSIFI	ICATION C	OF MA	TERIALS	REC.	SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
-32.5	0.0		(CH) (	CLAV fa	t high pla	asticit	y, very soft										
-					et, gray,												
-	-										<b>A</b> . I	n a d Davia a					
-	-										Adva	nced Boring					
-	-																
-	Ļ														F		
-																0	
-	-							NR			SP	T Sampler				0	
-	F														F	0	0
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DR	ILLING L	DG (Cont. Sheet)							SHEET		-
		· · · · · · · · · · · · · · · · · · ·	Mobile					HODITONT	OF 2		
PROJE	61		COORDIN				<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83		TICAL _LW	
OCAT	ION COORDINA									* *	
	1,806,925 Y		-32.5				-				
ELEV.	DEPTH B	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT.	N-VALUE
-							Advanced Boring				
			-	NR			SPT Sampler	-	-	0 0 0	0
-							Advanced Boring				
<u>-51.0</u> -		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).				
		•A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING ∑					Boring De	esignation	SS-10	7	

Projec	t I.D.										Bo	oring Desig	nation		V	/C-27	7-84
DRI	LLIN	G LO	G	DIV	ISION	So	uth Atlantic	IN	IST/	<b>ALL</b>	ΤΙΟΙ	Mobile	Distric	t	SHEE OF	ET 1 2 Shi	EETS
PROJ	ECT							LAT	LONG	COORI	DINATE	<sup>3</sup> LAT = 30.4	137230	LON	G = -88	3.0134	408
19	82-198	34 Sub	surfac	e Inve	stigatio	n		STA	TE PL/	ANE CO	ORDINA	<b>TES</b> X = 1,8	306,705	Y =	159,37	77	
	OF BO					RTED	<i>COMPLETED</i> 01-08-84					<b>ATUM/UNITS</b> Vest - U.S. Su	Invov Et	1	<b>riz.</b> D83	VEI MLI	
DRILI		GENCY	,	Corps		o-04 ineers - (						TOP OF BO	DRING		ROUND		
	& TITLE											-38.0 Fe		<u> </u>	Under		
	Н.	Gates,	Geolo	gist			C. Fuller	Vi	brocoi	re			L [		TO HA		
	TION OF			NED	DEG. VERT	FROM 'ICAL	BEARING	SIZE	AND .	TYPE O	F BIT	See R	emarks				
	NESS O				N/A			тот	AL NU	MBER (		DXES (	)				
	і то то				N/A			тот	AL SAI	MPLES	D	ISTURBED 1		DISTU	RBED (	UD)	0
OTAL	. DEPTH	OF BOF	RING		22.0 Fe	eet					Y FOR E	ORING 10	0 %		•	,	-
LEV.	DEPTH	LEGEND		CLASS	-		TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT			GS	BLOWS/ 1 FT.	N-VALUE
								+								+-	Z
			mate	rial		onsister		100	1		V	'ibracore	At El. -200=	-42.5 97.2%	Ft.		
AM F	ORM	1836					<u>√</u> (C	Continue	ed)			Boring De	ı sianati	on	VC-2	1 27-84	
<b>IVI F</b> 2011		1836		AFTER DRILLING	g ⊻ Di Di	JRING RILLING	⊻			by Ai	 mendi	-	-				

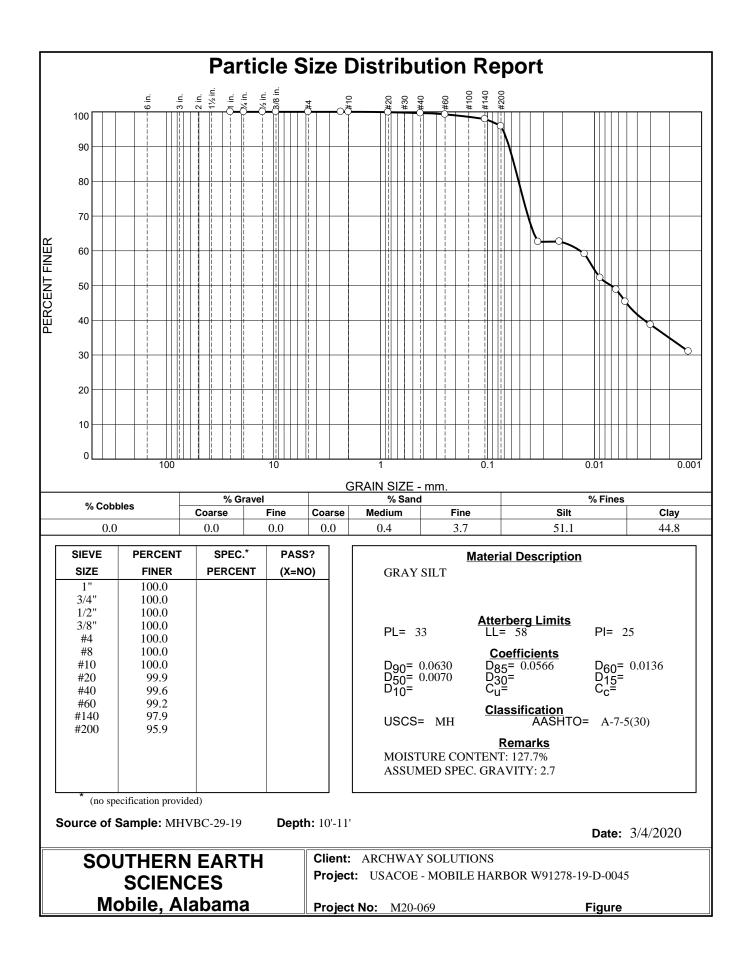
DR	ILLIN	G LC	)G (Cont. Sheet)	INSTALL						SHEET		
					e Dist					OF 2		rs
PROJEC	F			COORDI				<b>ум</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERT ML		
0047	ON COOF								INADOS	IVIL	_ v v	-
			= 159,377	-38.0				-				
ELEV.	DEPTH		CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 1 FT. N-VALUE	
		Ľ				BC	05	METHOD		_	ž 17	ł
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-51.2	13.2											
-	t		(PT) PEAT, wet, dark brown and gray									
	ł		clayey									
-	╞											
-	t											
-	Į								At El52.5	Ft.		
-	l-								LOI=21.7, -200=91%			
	ł											
-	t											
-	Ļ				100	1		Vibracore				
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-60.0	22.0											
			NOTES:						1			
	Į		1. Soils are field visually classified in									
-	ł		accordance with the Unified Soils Classification System.									
	+ FORM 1	1836										_
<b>AIVI F</b> JG 201		1030-/	A AFTER ⊻ DURING ⊻ DRILLING ⊻ DRILLING ∑ Replace					Boring De	esignation	VC-27-	84	

rojec	t I.D.										Bo	oring Design	ation			SS-1	109
DRI	LLIN	G LO	G	DIV	ISION	So	uth Atlantic	IN	ISTA	LLA	ΤΙΟΙ	Mobile [	Distric		SHEET Of 2		ETS
PROJ	ЕСТ							LAT	LONG	COORE	DINATES	LAT = 30.43	5174	LONG	= -88.0	01366	66
19	63-196	4 Subs	urfac	e Inve	stigatio	n		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,80	6,620	Y = 1	58,630	)	
	OF BOI					RTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Sur	(o) / Et	HOR NAD		VER MLL	
	ING AG	ENCY		Corp	e of Eng	ineers - (						TOP OF BOR	-		OS DUND N		
	& TITLE	_	D INSP	•		-						-38.8 Fee			Inderw		
		/A, Ge					N/A	N/		-					O HAMI IUAL H		R
	TION OF VERTICA			NED	DEG. VERT	FROM FICAL	BEARING	SIZE	AND 1	ГҮРЕ О	FBIT	See Rer	narks				
	NESS OF				N/A			тот		MBER (	CORE B	DXES 0					
				•	N/A					MPLES		STURBED ()	1111	DISTURI	3ED ////	<b>)</b> (	)
	DEPTH				12.5 F	eet					Y FOR E	-	Record			, (	,
LEV.	DEPTH	LEGEND		CLASS		ON OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD				RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
		-							ШО								z
38.8	0.0																
-	-					h plastici ay, orga	ty, very soft nic										
-				<b>,</b> ,	, <b>.</b> , <b>.</b>	.,											
-	-										Adva	nced Boring					
-																	
-	-																
-	F															0	
-								NR			SP	T Sampler			F	0	
-	-											. compier			F		0
-															-	0	
-	-																
-	F																
-																	
-	-																
-	-										Adva	nced Boring					
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-	F																
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-	Ł															0	
-	ŀ							NR			SP	T Sampler			Γ	0	
-															F	0	0
-	╞							<u> </u>							┝	<u> </u>	
-	ļ										Adva	nced Boring					
-	ł																
		836															

DR	ILLIN	G LC	DG (Cont. Sheet)							SHEET	
					obile Dis					OF 2	
PROJEC	.1				Plane -			<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83		rical LW
			TES	1					NAD03		
			í = 158,630		8.8 Ft.		Bonne				
ELEV.	DEPTH	QN	CLASSIFICATION OF MATERIA		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE
		5			_	80 NB					<sup>∞°</sup> ż
-	+ + + +							Advanced Boring			
- - -51.3	12.5							Advanced Doning			
- <u>51.5</u> - - -	-		NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	in				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
-											
-	- - - -										
-	+ + + +										
- - -	+ - - -										
- - -	- - -										
-											
-											
			 •								
SAM F		1836-	A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING					Boring De	esignation	SS-10	9

Projec	t I.D.										В	oring Desig	nation	MHV	BC-2	9-29
DRI	LLIN	G LC	DG	DIV	ISION	Sout	h Atlantic	IN	IST/	<b>ALL</b>		Mobile	District		ET 1 2 SH	EETS
PROJ	ECT							LAT	LONG	COORI	DINATE	<b>s</b> LAT = 30.4	3253299	LONG =	-88.0	13913
20	20 Geo	otechi	nical Ir	nvestig	ation			STA	TE PLA	NE CO	ORDIN	<b>ATES</b> X = 1,8	806,538	Y = 157,6	670	
DATE	OF BO	RING			<i>start</i> 01-19-		<i>COMPLETED</i> 01-19-20					<b>ATUM/UNITS</b> Vest - U.S. Su	irvev Ft.	<i>HORIZ.</i> NAD83	VE. ML	rt. LW
DRILL	ING AG	BENC	Y	Corp	s of Engine							TOP OF BO	RING	GROUN	D WAT	ER
NAME	& TITLE	OF FIE	ELD INS	-			OF DRILLER	MAN	UFAC	TURER	'S DESI	-45.0 Fe			erwatei AMMER	
	. Long, TION OF			l Engine			CSI BEARING	Vi	broco	re			Ē			
	VERTIC/			INED	DEG. FR VERTIC	ĂL	BEARING	SIZE	AND .	ТҮРЕ О	FBIT	See Re	emarks			
тніск	NESS OF	OVER	RBURDE	N	N/A	•		тот	AL NU	MBER (	CORE B	oxes ()				
DEPTH	і то тор	OF RO	оск		N/A			тот	'AL SAI	MPLES	D	ISTURBED 1	UNE	DISTURBED	(UD)	0
TOTAL	DEPTH	OF BO	RING		18.0 Fee	ŧ		тот		COVER	Y FOR E	BORING 10	0 %		_	
ELEV.	DEPTH	LEGEND		CLAS	SIFICATION	I OF MAT	ERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	۸DV	ANCEMENT METHOD	DR RE	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
-45.0	0.0															
-	ł		(MH soft	) SILT, consiste	inorganic- ency, wet,	H, high i dark gra	olasticity, very y									
-	ł															
-	F															
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-				AETED				<u> </u>			ļ	<b>-</b> -	<u> </u>			
<b>AIVI F</b> JG 201	ORM '	1030	Í	AFTER DRILLING	G DUR DRIL		. ( <sup>C</sup> Replaced in i	Continue			Ι.	Boring De	-		VBC-	

DR	ILLIN	G LO	G (Cont. Sheet)	INSTALL						SHEET		ET
			,	Mobil			M/D /	114	HODIZOVICA	OF 2		
ROJE	.1			COORDIN State Pla				שנ st - U.S. Survey Ft.	HORIZONTAL NAD83		R <b>TICA</b> I LLW	-
OCAT	ON COOI									1 1/1		
			= 157,670	-45.0			JORINU					
ELEV.	DEPTH		CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	Ģ	<b>BLOWS/ 1 FT.</b>	N-VALUE
-									At El56 F -200= 96%, 33, LL= 58, 25, MC= 12	PL= Pl=		
-57.0 -58.0			(CL) CLAY, lean, low plasticity, soft consistency, wet, gray							-		
-	+ + + + + + + + + + + + + + +		(SC) SAND, clayey, low plasticity, soft consistency, wet, gray, trace wood	t	100	1		Vibracore				
-63.0	- - - - - - - - - - - - - - - - - - -		<sup>∼</sup> At El61.0 Ft. trace shell									
	- - - - - - -		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.									
- - - - - - - - - - - - - 												
SAM F		836-/	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▽					Boring De	signation	MHVE	3C-2	9-2



DRI	LLIN	G LO	G   D	oivisio	DN So	outh Atlantic	IN	IST/	<b>ALLA</b>	ΤΙΟΙ	Mobile I	Distric	t l	<b>IEET</b> 2		ETe
PROJ	ECT						LAT	LONG	COORE	DINATE	<sup>s</sup> LAT = 30.42	0682				
	00.15		<b>,</b> .				STA	TE PLA	NE CO	ORDINA	TES		Y = 156		1-+00	
			surface I		tion TARTED	COMPLETED	600		TE SYS		X = 1,80	06,315	Y = 156	-	VER	т.
DATE	OF BO	RING				000000000000000000000000000000000000000					Vest - U.S. Sur	vey Ft.	NAD83		MLL	W
DRILI	ING AG	BENCY	С	Corps of E	ngineers -	CESAM	E	LEV		IS	<i>тор ог вон</i> -34.8 Fe		GROU	derwa		R
NAME	& TITLE	OF FIEL	D INSPECT	TOR	NA	ME OF DRILLER	MAN	IUFAC <sup>.</sup>	TURER	'S DESI	GNATION OF DR					
			eologist			N/A	N/	Ά				[		AL HA	MME	R
	TION OF		; INCLINED		G. FROM	BEARING	SIZE	AND	ТҮРЕ О	FBIT	See Re	marks				
тніск	NESS OF	OVERE	URDEN	 N/A	۸		тот	AL NU	MBER (	CORE B	OXES ()					
DEPTH	і то тор	OF ROO	ск	N/A	\		тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UD	) (	)
ΤΟΤΑΙ	DEPTH	OF BOR	ING		5 Feet		тот	AL RE	COVER	Y FOR E	SORING Not	Record				
ELEV.	DEPTH	LEGEND	C			IATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD		ANCEMENT				BLOWS/ 0.5 FT.	N-VALUE
								Ω.Ω							<b>60</b>	ż
-34.8	0.0															
<u></u>						city, very soft										
-	ł		consiste	ncy, wet,	gray, org	anic										
-	ļ															
-	-									Adva	nced Boring					
-	ļ															
-	╞															
-	Į													L		
-	ł						NR			SP	T Sampler				0	
-	F								]					0/	'0.0'	0+
- -														07.	-0.5	
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-	ţ									Adva	nced Boring					
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-										Adva	inced Boring					
-							1		1						1	

DRILLING LOG (Cont. Sheet)		Mobile D	istrict				SHEET 2 OF 2 S	HEETS
PROJECT		OORDINAT			<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERTI MLL	
LOCATION COORDINATES						INAD03	IVILL	/v
X = 1,806,315 $Y = 156,634$		-34.8 Ft.		BURIN	6			
2	N OF MATERIALS	RĚ	SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	SWO 18	0.5 FT.
					Advanced Boring			
		NF	2		SPT Sampler		0 0 0	0
-51.3 16.5					Advanced Boring			
NOTES: NOTES: NOTES: NOTES: NOTES: NOTES: Classification System.	Inified Soils				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

DRI	LLIN	G LOO	G DI	VISION	South Atlantic	IN	IST/	ALLA	ΤΙΟΙ	Mobile	Distric	t	SHEET OF 3		ЕТЅ
PROJ	ECT					LAT	LONG	COOR	DINATE	s LAT = 30.4	427741	LONG			
10	82-198	4 Subs	urface Inv	estigation		STA	TE PLA	NE CO	ORDINA	<b>ATES</b> X = 1,8	306,505	Y = 1	55,92 <sup>-</sup>	7	
	OF BO			STARTED	COMPLETED					ATUM/UNITS		HOR		VER	
				01-08-84	01-08-84					Vest - U.S. Su		NAD	83 OUND	MLL'	
			D INSPECTO	ps of Engineer	S - CESAM					-43.0 F		ι ι	Inderv	vater	
NAME			Geologist		C. Fuller		broco		3 DESI	SNATION OF D			O HAN		R
	TION OF			DEG. FROM	BEARING	SIZE		TYPE O	FBIT	See R	emarks				
									CORE B						
	NESS OF			N/A						ISTURBED 1		DIETUR		<b>D)</b> (	
	1 TO TOP			N/A 30.0 Feet				MPLES				DISTUR	5ED (U	<b>b</b> ) (	, 
TOTAL			NG	30.0 Feel		101			TFORE		0 %			7	ш
ELEV.	DEPTH	LEGEND	CLA	SSIFICATION OF	MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DI RI	RILLING EMARKS		BLOWS/ 1 FT.	N-VALUE
-43.0	0.0														
			consistenc	y, wet, black	sticity, very soft										
-	+														
	Ŧ														
-	ł														
	+														
	t t														
-	ŀ														
	ł														
- -	+														
	ł														
	ŧ										At El.	-47.5 F	t.		
-	+					100	1		V	/ibracore		99.4%			
	F														
_	ł														
-	+														
	+		At El49.5	5 Ft., gray											
-	F														
- -	ŧ														
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-	F														
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-	F														
-	ł														
•	Į										At El.	-52.5 F 92.2%	t.		
	1					1		I	1		I -200=	·JL.L%		I	

	OG (Cont Sheet)	INSTALL	ATION			oring Designatio		SHEET	2
	OG (Cont. Sheet)	Mobil	e Dist	trict				OF 3	SHEETS
ROJECT		COORDIN					HORIZONTAL	VERT	
						st - U.S. Survey Ft.	NAD83	MLL	W
OCATION COORDINA		ELEVATI		OP OF	BORING	•			
X = 1,806,505	7 = 155,927	-43.0	Ft.				1		
	CLASSIFICATION OF MATERIALS		RËC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 1 FT. N-VALUE
	(SP) SAND, poorly-graded, wet, gray		100	1		Vibracore			■ Ż

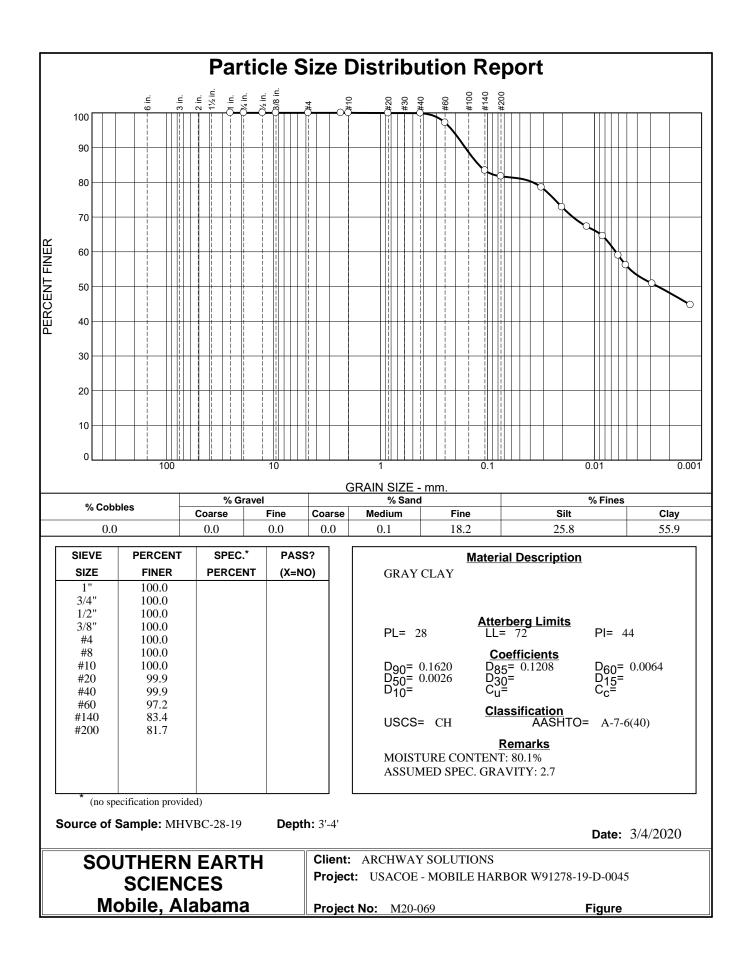
DRILLING LOG (Cont. Sheet)					INSTALLATION Mobile District							
PROJEC		_	- /		HORIZONTAL	OF 3 SHEET L VERTICAL MLLW						
RUJE	• 1				NAD83							
0047	ON COOF		ES					est - U.S. Survey Ft.				
			= 155,927	-43.0								
	,,		· , <b>· - ·</b>			Ц					ı ۳	,-
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT. N-VALUE	
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-	-	••••••										
-												
-73.0	30.0								_			
-	-		NOTES:									
-	-											
-	-		1. Soils are field visually classified in									
-	-		accordance with the Unified Soils Classification System.									
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_	L											
A									<u> </u>			
AIVI F	ORM 1	030-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼					I Borina De	esignation	VC-28	-84	

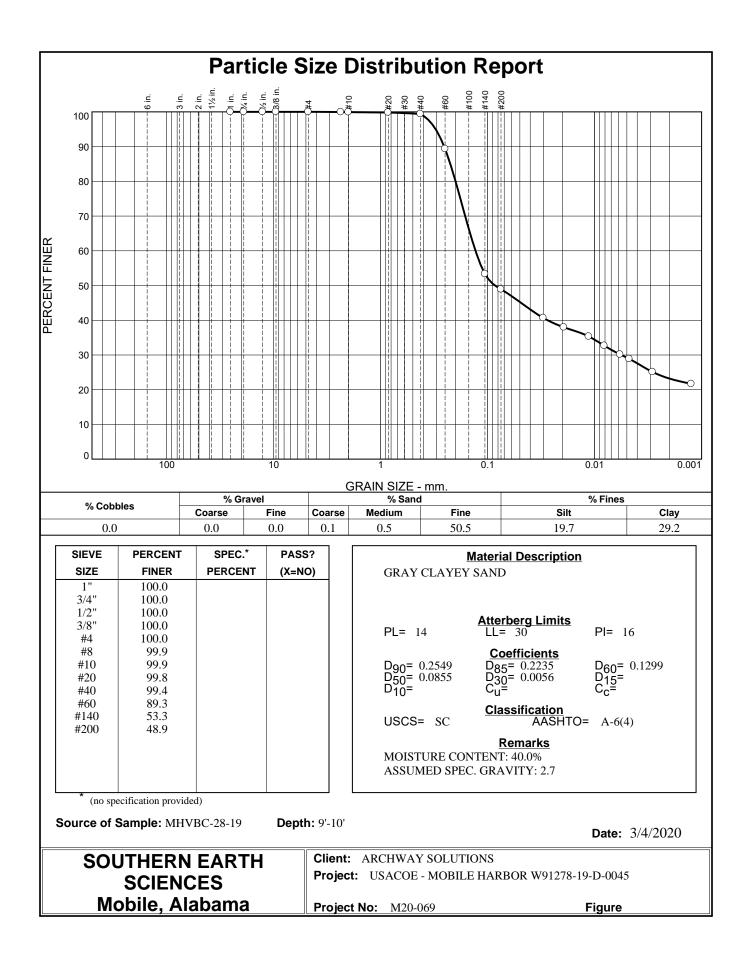
DRI	LLIN	G LO	G	DIV	ISION	So	outh Atlantic	IN	IST/	LLA	ΤΙΟΙ	Mobile I	Distric	t l	HEET 1 F 2 S	IEET
PROJ	ECT							LAT/	LONG	COORI	DINATES	LAT = 30.42	24121			
10	63-196	4 Suba	urface	e Inver	oitenite	n		STA	TE PLA	NE CO	ORDINA			Y = 15		
						RTED	COMPLETED					TUM/UNITS		HORIZ	. v	ERT.
DATE OF BORING										Vest - U.S. Sur TOP OF BOI		NAD8	3 M			
	LING AG				of Engi		CESAM			TION		-30.8 Fe	et		nderwate	
NAME	& TITLE	<b>OF FIEL</b> I I/A, Ge				NAI	ME OF DRILLER N/A	MAN N/		TURER'	'S DESIG	NATION OF DR	ונג [ ר		HAMME	
DIREC	TION OF	-			DEG. VERT	FROM	BEARING									
$\boxtimes$	VERTICA		INCLIN	ED	VERI	ICAL		SIZE	AND	ГҮРЕ О	FBIT	See Re	marks			
тніск	NESS OF	OVERB	URDEN		N/A			тот	AL NU	MBER (	CORE B	OXES 0				
DEPTH	і то тор	OF ROC	ĸ		N/A			тот	AL SAI	<b>NPLES</b>	D	STURBED ()	UN	DISTURB	ED (UD)	0
ΤΟΤΑΙ	. DEPTH	OF BORI	NG		20.5 Fe	eet		тот	AL REG	OVER	Y FOR B	oring Not	Record	ed		
ELEV.	DEPTH	LEGEND		CLASS	IFICATIO	ON OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	RILLING MARKS	BLOWS/	0.5 FT.
<u>-30.8</u> - - - - - - - - - - - - - - - - - - -	0.0 				fat, higł wet, gra		ity, very soft anic	NR				nced Boring			0	- 0
- - - - - - - - - - - - - - - - - - -	+ + - - - - - - - - - -										Adva	nced Boring			0	
-	+ - -							NR			SP	T Sampler			0	- 0
-	-										Adva	nced Boring				
		836		FTER RILLING	-	JRING RILLING	∑ (C	ontinue				Boring Des			S-113	

DR	ILLIN	G LO	G (Cont. Sheet)		Boring Designation S INSTALLATION Mobile District							
PROJEC		-	. /		COORDINATE SYSTEM/DATUM HORIZONTAL							
-KUJE(	*1								NAD83	VERTIO MLL		
OCATI		DINAT	ES		State Plane - Alabama West - U.S. Survey Ft. NAD83  ELEVATION TOP OF BORING							
			= 154,610		8 Ft.							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	BLOWS/	0.5 FT.	
-								Advanced Boring				
- - - -	-				NR			SPT Sampler		0	0	
-								Advanced Boring				
- - - -	- - - -				NR			SPT Sampler		0	0	
	- - - - - - - - - - - - - - - - - - -							Advanced Boring				
	-		NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	in				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).				
SAM F	ORM 1	836-4	AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼					Boring De	signation	SS-113		

DRILLING LOG DI	VISION S	outh Atlantic	IN	IST/			Mobile	Distric	t I		
PROJECT			-						OF		
							LAT - 30.4				113
2020 Geotechnical Invest	tigation <i>started</i>	COMPLETED					X = 1,8	000,207	Y = 153,59	94 VER	<del>.</del>
DATE OF BORING	Lat/LONG COORDINATES       LAT = 30.4213228       LONG = -88.01         STATE PLANE COORDINATES       LAT = 30.4213228       LONG = -88.01         STATE PLANE COORDINATES       X = 1,806,267       Y = 153,594         Corps of Engineers - CESAM       COORDINATE SYSTEM/DATUM/UNITS       HORIZ.       VE         Corps of Engineers - CESAM       ELEVATIONS       TOP OF BORING -45.0 Feet       GROUND WAT Underwate         DINSPECTOR       NAME OF DRILLER       MANUFACTURER'S DESIGNATION OF DRILL Vibrocore       AUTO HAMMEI MANUAL HAMI         INCLINED       DEC. FROM VERTICAL       BEARING       SIZE AND TYPE OF BIT       See Remarks         URDEN       N/A       TOTAL SAMPLES       DISTURBED       1       UNDISTURBED (UD)         NG       19.0 Feet       TOTAL RECOVERY FOR BORING       100 %       100 %	MLL									
DRILLING AGENCY Co	orps of Engineers	- CESAM	E	LEVA	TION	IS					
NAME & TITLE OF FIELD INSPECTO						'S DESI	GNATION OF DI				
M. Shekouh, Geotechnical Er		-	VI	brocol	re			l	MANUAL		ER
	VERTICAL		SIZE	AND	TYPE O	FBIT	See R	emarks			
THICKNESS OF OVERBURDEN	N/A		тот	AL NU	MBER (	CORE B	OXES (	)			
DEPTH TO TOP OF ROCK	N/A		тот	AL SAI	MPLES	D	ISTURBED 1	UN	DISTURBED (	JD)	0
TOTAL DEPTH OF BORING	19.0 Feet		тот	AL RE	COVER	Y FOR E	BORING 10	0 %			
	ASSIFICATION OF	MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT Method	DI Re	RILLING EMARKS	BLOWS/ 1 FT.	N-VALUE
-45.0 0.0											
-47.0 2.0 (CH) CLA	istency, wet, dark	gray icity, very soft	-					-200= 28, Ll	81%, PL= _= 72, PI=		
		um plasticity, soft	100	1		V	/ibracore	-200= 14, Ll	= 49%, PL= _= 30, PI=		

PROJECT			DG (Cont. Sheet)	_		trict				OF 2 \$	HEETS		
LOCATIO X = 1	DN COO			I COORD	Mobile District COORDINATE SYSTEM/DATUM HORIZONTAL								
X = 1							VERTI						
X = 1			750		State Plane - Alabama West - U.S. Survey Ft.         NAD83         MLLW           ELEVATION TOP OF BORING         Image: Content of the second								
	,,20,20		r <b>es</b> <sup>7</sup> = 153,594	<b>ELEVA</b> 1		JP UF	BURING	3					
	DEPTH		CLASSIFICATION OF MATERIAL	•	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	1 FT.		
ł		LEC				BO	UD	метнор					
-57.0	- - - 12.0		(CL) CLAY, lean, low plasticity, soft consistency, wet, gray, sandy	ł									
+	- - - - - - - -		At El58.0 Ft. shell layer		100	1		Vibracore					
-61.0	<u>16.0</u>		(SC-SM) SAND, silty, clayey, wet, <u>c</u>	gray									
-62.0	17.0		(OH) CLAY, organic-H, gray and br with wood	own,									
-63.0 -64.0	<u>18.0</u> - - 19.0		(CH) CLAY, fat, gray										
-			NOTES: 1. Soils are field visually classified i accordance with the Unified Soils Classification System.	'n									
+ + + + + + + + + + + + + + + + + + + +	-												
+													
+ SAM FO		1836	A AFTER ▼ DURING ▼ DRILLING ▼ DRILLING					Destruction	esignation	MHVBO			



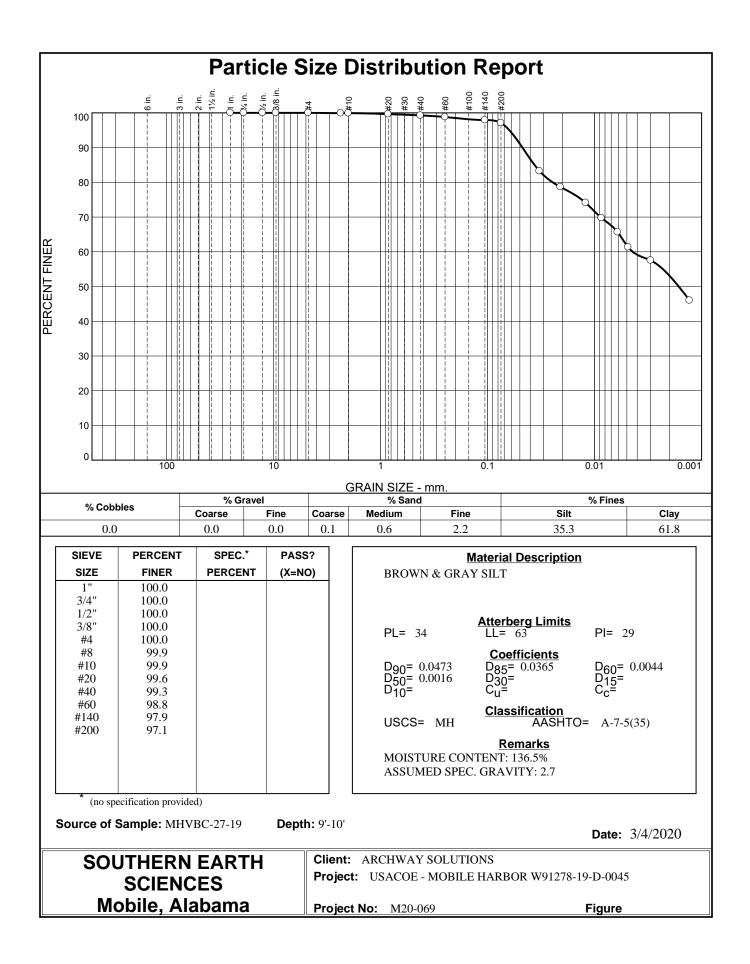


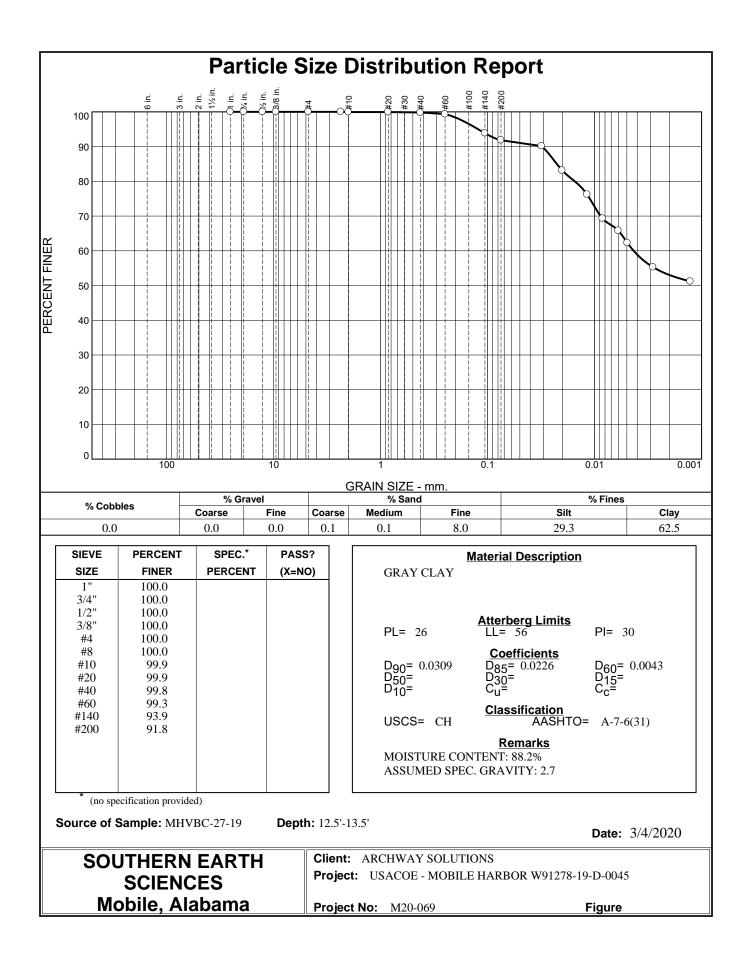
DRILLING L	OG	DIV	ISION	So	uth Atlantic	IN	IST/	<b>ALLA</b>	ΤΙΟΙ	Mobile	Distric	t I	IEET 1 2 Sh	EETS
PROJECT	I					LAT	LONG	COORE	DINATE	<sup>s</sup> LAT = 30.4	18851	LONG =	-88.016	087
1963-1964 S	ubsurfa	ce Inve	estigation	ı		STA	TE PL4	NE CO	ORDINA	<b>X = 1,8</b>	05,830	Y = 152	,697	
DATE OF BORIN		00 1110	STAR		COMPLETED					ATUM/UNITS		HORIZ.		RT.
										Vest - U.S. Su <b>TOP OF BO</b>		NAD83 GROU	ML	LW ER
			s of Engi							-36.8 Fe	et	1	derwate	
NAME & TITLE OF F N/A.	Geologi		2	NAN	<b>N/A</b>	MAN N/		TURER	S DESI	GNATION OF DR			HAMMER	
DIRECTION OF BOR	0		DEG. F VERT	ROM	BEARING						<b>`</b>			
VERTICAL [		INED	VERT			SIZE	AND	TYPE O	FBIT	See Re	marks			
THICKNESS OF OV	RBURDE	N	N/A			тот	AL NU	MBER (	CORE B	OXES 0				
DEPTH TO TOP OF	ROCK		N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UD)	0
TOTAL DEPTH OF B	ORING		14.5 Fe	et		тот	-	COVER	Y FOR E	soring Not	Record	led		
ELEV. DEPTH		CLAS	SIFICATIO	N OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DI RE	RILLING MARKS	BLOWS/	N-VALUE
-36.8 0.0	СН		í fat high	plastic	ity, very soft								_	
			, wet, gra											
									Adva	inced Boring				
													0	
+										<b>T O I</b>				
						NR			SP	T Sampler			0	0
													0	
T V														
+														
									Adva	nced Boring				
	2									0				
Ţ														
+ /						<u> </u>								
													0	
+						NR			SP	T Sampler			0	
													0	0
	2					$\vdash$							F	-
1														
Ţ									Adva	nced Boring				
† [										-				
+	2													
AM FORM 183	6 T	AFTER DRILLIN	V DL	IRING RILLING	∑ (C	ontinue	ed)			Boring Des	sian eti	on <b>6</b> 6	-115	

	G LO	G (Cont. Sheet)	Mob	ile Dist	trict					
т										
							· · ·	NAD83		
					JP OF I	BORING	3			
DEPTH		CLASSIFICATION OF MATERIALS	000	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	იი BLOWS/ BLOWS/	N-VALUE
-							Advanced Boring			
-									0	
-				NR			SPT Sampler		0	0
-							Advanced Boring	-		
<u>14.5</u>		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
· · · · · · · · · · · · · · · · · · ·										
	T DN COOF ,805,83 DEPTH - - - - - - - - - - - - - - - - - - -	T	DN COORDINATES         ,805,830       Y = 152,697         DEPTH       Subscript of the second sec	LLING LOG (Cont. Sheet)       Mob         T       COORD State P         DN COORDINATES       ELEVAT (805,830 Y = 152,697 - 36.4)         DEPTH       0         CLASSIFICATION OF MATERIALS	LLING LOG (Cont. Sheet)       Mobile Dist         T       Coordinates         State Plane - J       State Plane - J         DN COORDINATES       ELEVATION TO         ,805,830       Y = 152,697       -36.8 Ft.         DEPTH       Quadratic and a state of the stat	T     COORDINATE SYSTE       State Plane - Alabai       DN COORDINATES       JON COORDINATES	LLING LOG (Cont. Sheet)       INSTALLATION Mobile District         T       COORDINATE SYSTEM/DATE State Plane - Alabama We BON COORDINATES ,805,830 Y = 152,697         JOEPTH       Orgonomic Classification of MATERIALS         DEPTH       Orgonomic Classification of MATERIALS         NR       NR         Image: State Plane - Alabama We         Classification of MATERIALS       NR         Image: State Plane - Alabama We         Image: State Plane - Alabama We         Joeptin       Orgonomic Plane - Alabama We         Image: State Plane - Alabama We         Image: State Plane - Alabama We         Joeptin       Orgonomic Plane - Alabama We         Image: State Plane - Alabama We	INSTALLATION Mobile District         T       COORDINATE SYSTEM/DATUM State Plane - Alabama West - U.S. Survey Ft.         SN COORDINATES ,805,830 Y = 152,697       ELEVATION TOP OF BORING -36.8 Ft.         DEPTH       Superior	LLING LOG (Cont. Sheet)       INSTALLATION Mobile District         T       COORDINATE SYSTEMDATUM State Plane - Alabama West - U.S. Survey Ft.       HORIZONTAL NADB3         DN COORDINATES       ELEVATION TOP OF BORING       -36.8 Ft.         BEPTH       State Plane - Alabama West - U.S. Survey Ft.       NADB3         CLASSIFICATION OF MATERIALS       REC.       State Plane - Machana         NR       SPT Sampler       Remain Remain Remains       Remain Remains         NR       NR       SPT Sampler       Remain Remains         14.5       NOTES:       1. Soils are field visually classified in accordance with the Unified Soils conditioned with the Unified Soil	LLING LOG (Cont. Sheet)     Mobile District     of 2 sH       T     Coordinate system/batum State Plane - Alabama West - U.S. Survey Ft.     HORIZONTAL NAD83     VERTIC/ MLLW       ON COORDINATES (805,830 Y = 152,697     ELEVATION TOP OF BORING -36.8 Ft.     -36.8 Ft.     -36.8 Ft.       DEPTH     Vertice State Plane - Alabama West - U.S. Survey Ft.     NAD83     Vertice MLLW       NR     SPT Sampler     0       NR     SPT Sampler     0       NR     Advanced Boring     0       NOTES:     1. Solis are field visually classified in accordance with the Unified Solis     140# hammer With 2.0 split spoon

PROJECT 2020 Geotechnical Invo DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INSPE M. Shekouh, Geotechnical DIRECTION OF BORING ⊠ VERTICAL □ INCLINE THICKNESS OF OVERBURDEN DEPTH TO TOP OF ROCK TOTAL DEPTH OF BORING ELEV. DEPTH Q Q Q Q Q Q Q Q Q Q Q Q Q Q	estigation STARTED 01-20-20 Corps of Engineers - ( CTOR NAM I Engineer ED PEG. FROM VERTICAL N/A N/A 19.5 Feet CLASSIFICATION OF MA	IE OF DRILLER CSI BEARING	LAT/ STAT COO State MAN Vil SIZE TOT/	LONG TE PLA RDINA Plane LEVA UFACT brocor	COORD NE COO TE SYS 2 - Alab ATION TURER'S 2 E TYPE OF MBER C MPLES	DINATES     LAT = 3(       ORDINATES     X = 1       STEM/DATUM/UNITS     X = 1       Dama     West - U.S.       Dama     West - U.S.       IS     TOP OF -44.0       S DESIGNATION OF       F BIT     See       CORE BOXES       DISTURBED	BORING Feet DRILL [ Remarks 0		SHE 38.015 4 VER MLL WATE Vater IMER	5829 7. W R
2020 Geotechnical Invo DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INSPE M. Shekouh, Geotechnical DIRECTION OF BORING ☑ VERTICAL ☐ INCLINE THICKNESS OF OVERBURDEN DEPTH TO TOP OF ROCK TOTAL DEPTH OF BORING ELEV. DEPTH Q Q Q Q Q Q Q Q Q Q Q Q Q Q	STARTED 01-20-20       Corps of Engineers - 0       IEngineer       DEG. FROM VERTICAL       N/A       N/A       19.5 Feet	01-20-20 CESAM TE OF DRILLER CSI BEARING	STA COO State E MAN Vii SIZE TOT, TOT,	TE PLA RDINA Plane LEVA IUFACT brocor and ta AL NUI AL SAN	TE SYS - Alat TION TURER'S e TYPE OF MBER C	IS     TOP OF -44.0       STEM/DATUM/UNITS     TOP OF -44.0       S DESIGNATION OF     F BIT       S DESIGNATION S     See       DORE BOXES     DISTURBED	1,805,906 Survey Ft. Boring Feet DRILL Remarks 0 1 UNI	Y = 151,67 HORIZ. NAD83 GROUND Underv AUTO HAM MANUAL H	4 MLL WATEI Vater	<i>T.</i> ₩ R
DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INSPE M. Shekouh, Geotechnical DIRECTION OF BORING VERTICAL I INCLINE THICKNESS OF OVERBURDEN DEPTH TO TOP OF ROCK TOTAL DEPTH OF BORING ELEV. DEPTH	STARTED 01-20-20       Corps of Engineers - 0       IEngineer       DEG. FROM VERTICAL       N/A       N/A       19.5 Feet	01-20-20 CESAM TE OF DRILLER CSI BEARING	COO State MAN Vil SIZE TOT, TOT, TOT,	RDINA Plane LEVA brocor AND AL NUI AL SAN	TE SYS - Alat TION TURER'S C TYPE O MBER C MPLES	X = TEM/DATUM/UNITS Dama West - U.S. IS TOP OF -44.0 S DESIGNATION OF F BIT See CORE BOXES DISTURBED	Survey Ft. BORING Feet DRILL Remarks 0 1 UNI	HORIZ. NAD83 GROUND Underv AUTO HAM MANUAL H	VER MLL WATEI vater	W R ER
DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INSPE M. Shekouh, Geotechnical DIRECTION OF BORING VERTICAL I INCLINE THICKNESS OF OVERBURDEN DEPTH TO TOP OF ROCK TOTAL DEPTH OF BORING ELEV. DEPTH	STARTED 01-20-20       Corps of Engineers - 0       IEngineer       DEG. FROM VERTICAL       N/A       N/A       19.5 Feet	01-20-20 CESAM TE OF DRILLER CSI BEARING	State MAN Vil SIZE TOT, TOT,	Plane	e - Alat TION TURER'S e TYPE OF MBER C	Dama West - U.S.       IS     TOP OF -44.0       S DESIGNATION OF       F BIT     See       CORE BOXES       DISTURBED	BORING Feet DRILL [ Remarks 0 1 UNI	NAD83 GROUND Underv AUTO HAM MANUAL H	MLL water water	W R ER
NAME & TITLE OF FIELD INSPE M. Shekouh, Geotechnical DIRECTION OF BORING VERTICAL INCLINE THICKNESS OF OVERBURDEN DEPTH TO TOP OF ROCK TOTAL DEPTH OF BORING ELEV. DEPTH U U CALO 0.0 (MH) S	Corps of Engineers - ( CTOR NAM I Engineer DEG. FROM VERTICAL N/A N/A 19.5 Feet CLASSIFICATION OF MA	CESAM IE OF DRILLER CSI BEARING	MAN Vil SIZE TOT, TOT,	LEVA brocor AND T AL NUI AL SAN	TION URER'S e TYPE O MBER C	IS TOP OF -44.0 S DESIGNATION OF F BIT See CORE BOXES DISTURBED	BORING Feet DRILL [ Remarks 0 1 UNI	GROUND Underv AUTO HAM MANUAL H	WATER Vater IMER	R
NAME & TITLE OF FIELD INSPECTION OF BORING         DIRECTION OF BORING         VERTICAL       INCLINE         THICKNESS OF OVERBURDEN         DEPTH TO TOP OF ROCK         TOTAL DEPTH OF BORING         ELEV.       DEPTH         QUERTICAL       QUERTICAL         YERTICAL       INCLINE         THICKNESS OF OVERBURDEN         DEPTH TO TOP OF ROCK         TOTAL DEPTH OF BORING         ELEV.       DEPTH         QUERTICAL       QUERTICAL         YERTICAL       QUERTICAL <t< td=""><td>ED DEG. FROM VERTICAL N/A N/A N/A 19.5 Feet</td><td>IE OF DRILLER CSI BEARING</td><td>MAN Vil SIZE TOTA TOTA</td><td>AL NU</td><td>E E E E MBER C MPLES</td><td>s designation of F BIT See core boxes disturbed</td><td>DRILL   []     Remarks   0     1   UNI</td><td>AUTO HAM</td><td>IMER</td><td></td></t<>	ED DEG. FROM VERTICAL N/A N/A N/A 19.5 Feet	IE OF DRILLER CSI BEARING	MAN Vil SIZE TOTA TOTA	AL NU	E E E E MBER C MPLES	s designation of F BIT See core boxes disturbed	DRILL   []     Remarks   0     1   UNI	AUTO HAM	IMER	
DIRECTION OF BORING	ED DEG. FROM VERTICAL N/A N/A 19.5 Feet CLASSIFICATION OF MA	BEARING	SIZE TOT, TOT, TOT,	AND 1 AL NUI AL SAM	MBER C	CORE BOXES	0 1 <b>///</b>	MANUAL H	AMME	
VERTICAL INCLINE THICKNESS OF OVERBURDEN DEPTH TO TOP OF ROCK TOTAL DEPTH OF BORING LEV. DEPTH 2 3 44.0 0.0 (MH) 5	N/A N/A 19.5 Feet		тот, тот, тот,	AL NUI AL SAN AL REC	MBER C	CORE BOXES	0 1 <b>///</b>	DISTURBED (U	<i>ם</i> ) (ס	)
DEPTH TO TOP OF ROCK       FOTAL DEPTH OF BORING       LEV.     DEPTH       9       10       10       10       10       10       10       10        10<	N/A 19.5 Feet classification of ma	ATERIALS	тот, тот,	AL SAN	<b>NPLES</b>	DISTURBED	1 <b>UNI</b>	DISTURBED (U	<i>ם</i> ) (ס	)
COTAL DEPTH OF BORING       LEV.     DEPTH       44.0     0.0	19.5 Feet	ATERIALS	тот	AL REC			-	DISTURBED (U	<b>D)</b> (	)
LEV. DEPTH B 99 44.0 0.0	CLASSIFICATION OF MA	ATERIALS			OVER	for Boring	100 %			
44.0 0.0		ATERIALS	BFC.	КШ						
(MH) 5						ADVANCEMENT METHOD	DF RE	RILLING MARKS	BLOWS/ 1 FT.	N-VALUE
+ (MH) S soft co	OILT 1									
AM FORM 1836			100 ontinue	1		Vibracore	-200= 34, LL	-53 Ft. 97%, PL= = 63, PI= C= 137%		7.4

DRILLING LOG (Cont. Sheet)	INSTALL Mobil						SHEET OF 2	
PROJECT	COORDIN			M/DATI	IM	HORIZONTAL		ICAL
					est - U.S. Survey Ft.	NAD83		LW
OCATION COORDINATES	ELEVATI							
X = 1,805,906 Y = 151,674	-44.0	Ft.						
ELEV. DEPTH	S	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT. N-VALUE
-56.5 12.5 (CH) CLAY, fat, high plasticity, soft consistency, wet, gray, with trace sa shell, inorganic		100	1		Vibracore	At El56.5 -200= 91%, 26, LL= 56, 30, MC= 88	PL= PI=	
NOTES: 1. Soils are field visually classified ir accordance with the Unified Soils Classification System.	ſ							
AM FORM 1836-A AFTER DURING DU								





DRI	LLIN	G LOO	G	DIVI	SION	l So	uth Atlantic	IN	ISTA	<b>LL</b> A	ΤΙΟΙ	Mobile	Distric	t l	HEET 1 F 2 Sh	EETS
PROJ	ECT							LAT	LONG	COORI	DINATES	LAT = 30.4	13300	LONG =	-88.016	007
10	63-196	4 Subs	urface	Inves	tinatio	า		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	05,846	Y = 15	0,678	
	OF BO		unace	/ 111/03	STAR		COMPLETED					TUM/UNITS		HORIZ	. VE	RT.
												Vest - U.S. Su TOP OF BO		NAD83	3 ML	LW ER
	LING AG				of Engi		CESAM			TION		-35.8 Fe	et		Iderwate	
NAME		OF FIELI		CTOR		NAN	<b>N/A</b>	MAN N/		FURER	'S DESIC	SNATION OF DR	ונג [ ו		HAMMER	
	TION OF	BORING			DEG. I VERT	ROM	BEARING					0 D.				
$\square$	VERTICA		INCLINE	ED	VENT			SIZE	AND	ГҮРЕ О	FBIT	See Re	marks			
		OVERB			N/A			тот	AL NU	MBER	CORE B	DXES 0				
DEPTH	і то тор	OF ROC	K		N/A			тот	AL SAI	MPLES	D	STURBED ()	UN	DISTURBE	D (UD)	0
ΤΟΤΑΙ	. DEPTH	OF BORI	NG		15.5 Fe	et		тот	-	COVER	Y FOR E	ORING Not	Record	ed		
ELEV.	DEPTH	LEGEND		CLASSI	FICATIO	N OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DI RE	RILLING MARKS	BLOWS/	N-VALUE
-35.8	0.0		(CH) (		fat high	nlastic	ity, very soft									
-	ţ				wet, gra											
-	ł										Adva	nced Boring				
-	F															
-															0	
_	F														-	_
-	ļ							NR			SP	T Sampler			0	0
-	ł														0	
-	F															
-	t i															
-	F															
-	ļ															
-	-										Adva	nced Boring				
-	F															
-	l															
-	$\vdash$															
-	ţ															
-	ł														0	
-	F							NR			SP	T Sampler			0	
-	Ł															0
-	F							<u> </u>							0	-
-	ţ															
-	ł															
-	ţ										Adva	nced Boring				
-	ł															
-																
AM F	ORM 1	1836	AF	TER RILLING	🔻 DL	IRING RILLING	∑ (C	ontinue	ed)		1	Boring Des	sianati	on S	S-117	

DRILLING LOG (Cont. Sh	loof)	bile Dis			oring Designatio		SHEET 2	
ROJECT	IVIC			M/DAT	IM	HORIZONTAL	VERTI	
					est - U.S. Survey Ft.	NAD83	MLL	
DCATION COORDINATES		ATION TO						
X = 1,805,846 Y = 150,678	-35	5.8 Ft.				1		
	CATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	0.5 FT.
					Advanced Boring			
		NR			SPT Sampler			) ) 0
51.3 15.5					Advanced Boring			
NOTES:	d visually classified in the Unified Soils ystem.				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

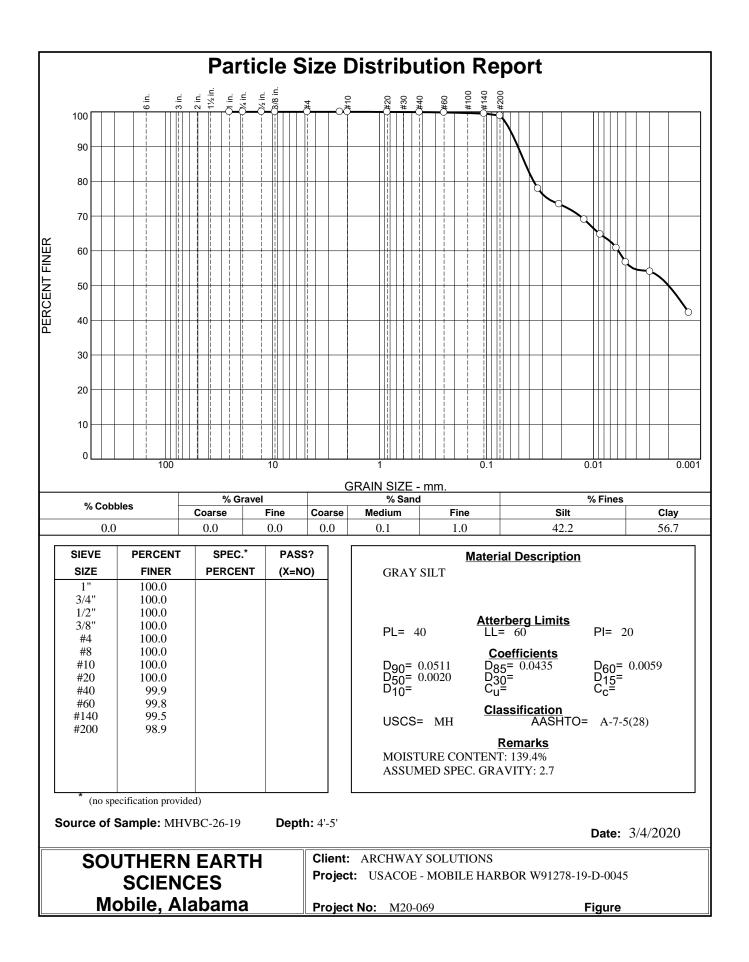
Projec	t I.D.										Bo	oring Desig	nation			;-30	-84
DRI	LLIN	G LO	G I	DIVISI	ON	So	uth Atlantic	IN	IST/	<b>ALL</b>		Mobile	Distric	∽t I	SHEET OF 3		ETS
PROJ	ЕСТ							LAT	LONG	COORI	DINATE	<b>b</b> LAT = 30.	411929	LONG	i = -88.	0145	544
19	82-198	84 Subs	surface	Investig	ation			STA	TE PL/	NE CO	ORDINA	<b>TES</b> X = 1,8	806,305	Y = 1	50,177		
	OF BO				<b>STARTE</b> 08-01-8		<i>COMPLETED</i> 08-01-84					<b>ATUM/UNITS</b> Vest - U.S. Si	uniou Et	HOR NAD		VER MLL	
DRILL		GENCY		Corps of								TOP OF B		_	os Dund n		
	-			-								-42.0 F		<u> </u>	Inderwa		
	Н.	Gates, (	Geologis	st			C. Fuller	Vi	broco	re					O HAMI IUAL HA		ER
					EG. FRO	DM AL	BEARING	SIZE		ТҮРЕ О	FBIT	See R	emarks				
		F OVERB		N	/A			тот		MBER	CORE B	DXES (	)				
DEPTH	тото	P OF ROC	:к		/A			тот	AL SA	MPLES	D	<b>STURBED</b> 1	UN	IDISTURI	BED (UD	<b>)</b> (	)
TOTAL	DEPTH	OF BORI	NG	30	.0 Feet			тот	AL RE	COVER	Y FOR E	ORING 10	0 %		-	-	
ELEV.	DEPTH	LEGEND	(	CLASSIFIC	ATION	OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT	DR	RILLING		BLOWS/ 1 FT.	N-VALUE
-42.0	0.0																
-	- 0.0		(CH) C	LAY, fat, ency, bla	high p	lastici	ty, very soft										
	-		CONSIST	ency, bia	CK												
-	-																
	-																
-	-																
1	-																
	-																
-	-																
	-																
-	-																
]	-			46.0 Ft., ł ency, ligh		asticity	v, soft										
	-		01131310	ency, ligh	it gray									46.5 F			
-	-							100	1		V	ïbracore	LL=7 PI=5	7, PL=2 5	2,		
	-																
-	-																
	-																
	-																
-	-																
1	-																
	-																
4	-																
+	-																
	-																
+	-																
	-																
AM F	ORM	1836	AF1	TER 🔻	DURI	NG V	7 (0	Continue	ed)	<u>I</u>		Borina De	l	ion <b>\</b>	/C-30	-81	
5AM F UG 2017		1836	AF1 DRI	TER T	DURI DRIL	ING LING	עַ Replaced in i	<u>I</u> continue its ent		I bv Ai	mendi	<i>Boring De</i> ment No. W	-		/C-30		

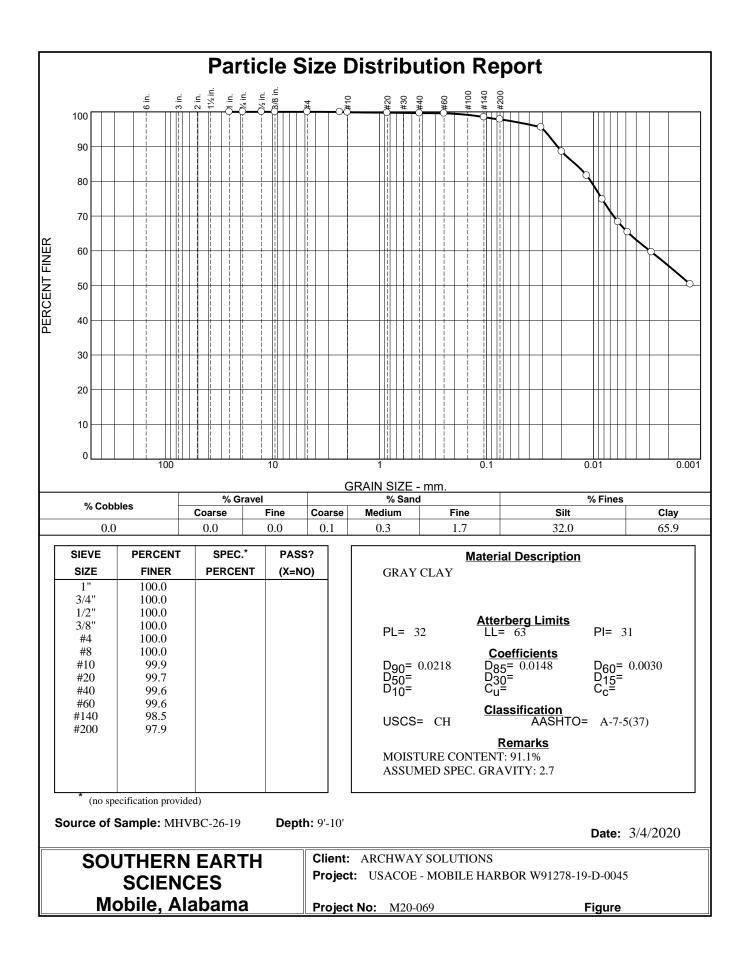
St	elevatioi -42.0 F	ATE S ne - A ON TO	<b>YSTE</b> Alabar	ma We Boring	est - U.S. Survey Ft.	Horizontal NAD83	OF 3 S VERTIC MLL	AL
St           CATION COORDINATES           X = 1,806,305         Y = 150,177	tate Plan ELEVATIOI -42.0 F	ne - A N TO -t.	labar P OF I	ma We Boring	est - U.S. Survey Ft.			
CATION COORDINATES         El           X = 1,806,305         Y = 150,177	elevatioi -42.0 F	ом то =t.	P OF E	BORING		INAD83		r V
X = 1,806,305 Y = 150,177	-42.0 F	=t.						
			X OR MPLE	ROD				
LEV. DEPTH DEPTH CLASSIFICATION OF MATERIALS	RI	хёс.	X OF	ROD				μ
			BO	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	۵.9 BLOWS/	1 FT. N-VALUE
M FORM 1836-A AFTER DURING V	(Conti	100	1		Vibracore Boring De	signation	VC-30-8	4

DR		G LO	G (Cont. Sheet)	INSTAL	LATIO					SHEET	
PROJEC			. /	COORD			M/DAT	IM	HORIZONTAL	VERT	
								est - U.S. Survey Ft.	NAD83	MLL	
OCATI	ON COOF	RDINAT	ES	ELEVA							
X = 1	1,806,30	5 Y	= 150,177	-42.	0 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL	S	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	N-VALUE
-70.0 -70.0	- - - -		(CH) CLAY, fat, high plasticity, soft consistency, light gray with high am organics and wood fragments NOTES: 1. Soils are field visually classified i accordance with the Unified Soils Classification System.	ounts of	100	1		Vibracore			
- - -											
SAM F	ORM 1	836-/	DRILLING - DRILLING -					<i>Boring De</i> mendment No. V	esignation	VC-30-	

DRILLING LOG         DIVISION         South Atlantic         INSTALLATION         Mobile District         Start r or 2 and 0 30.0072471           2020 Geotechnical Investigation         57.47769         14.17.090 GOORDIATES         X = 1.005.766         Y = 1407.20           DATE OF BORING         01.02.02         01.02.02         01.02.02         01.02.02         0.00001ATE SYSTEMATUMENTS         X = 1.005.766         Y = 1407.20           DRILLING AGENCY         CORP of Engineers         CCMP of Engineers         CCMP of Engineers         NAME ATTICE OF ENGINEER         YE = 0.00001ATE SYSTEMATUMENTS         YE = 0.00001ATE SYSTEMATUMENTS         YE = 0.000000ATE SYSTEMATUMENTS         YE = 0.00000ATE SYSTEMATUMENTS         YE = 0.0000ATE SYSTEMATUMENTS         YE = 0.000ATE SYSTEMATUMENTS         YE = 0.000A	rojec	t I.D.									Bo	oring Desig	nation		BC-2	6-19
Construction of the second se	DRI	LLIN	G LO	G DI	IVISION	Sout	h Atlantic	IN	ISTA	ALLA	ΤΙΟΙ	Mobile	District			EETS
2020 Geotechnical Investigation     X=1,805,700* Y=189,742       DATE OF BORING     STARTED     COMPLETED       SellLING AGENCY     Corps of Engineers - CESAM     ELEVATIONS     TO JO S Survey FL     MADB3       Matter 3 THLE OF FIELD INSPECTOR     NAME OF PRILL     MADB3     MILL     MADB3       Milling AGENCY     Corps of Engineers - CESAM     ELEVATIONS     To JO S Survey FL     MADB3       Milling Control     Maker 3 THLE OF FIELD INSPECTOR     NAME OF PRILL     MADB3     MILL       Milling Control     Inserve of PRILLE     MAUNACTURERED ElsoNATION OF DRILL     Information       Milling Control     PERFECT     SEA FIGUR     SEA FIGUR     SEA FIGUR       Milling Control     Inscription     PERFECT     Seaming     Size Ann TYPE OF BIT     See Remarks       EVENT OF OP ROLK     N/A     TOTAL NUMBER CORE BOXES     0     Inderstates       EVENT TO TOP OF ROLK     N/A     TOTAL RECOVERY FOR BORING     100 %       LEV. DEDTIN     93     CLASSIFICATION OF MATERIALS     Ste State Plane     20       46.0     0.0     (MH) SILT, Inorganic-H, high plasticity, very     Inorganic     Nich Consistency, wet, dark gray       52.5     6.5     (CH) CLAY, fat, high plasticity, soft consistency, wet, dark gray     Inorganic     Inorganic	PROJ	ЕСТ						LAT	LONG	COOR	DINATE	<b>S</b> LAT = 30.4	1072471	LONG =	-88.0	16247
NATE OF BORING     976/120-20     COMPLETED     COORDINATE SYSTEMDATIONUNTIS     NADRAL     MADRAL     MADRA	20	20 Ge	otechnie	cal Invest	tigation			STA	TE PL/	ANE CO	ORDIN/	<b>TES</b> X = 1,8	305,766	Y = 149,	742	
BRILLING AGENCY         Corps of Engineers         CESAM         ELEVATIONS         Top or pomed (A) Direct         Order with Underwater           AMME ATTLE OF FILD INSPECTOR         NAME oF DRILLER         MANUFACTURER'S DESIGNATION OF DRILL (NAMARAL HAMME RECORD OF DORING         Auto NAMMER (NAMARAL HAMME RECORD OF DORING         Auto NAMMER (NAMARAL HAMME RECORD OF DORING         Auto NAMMER (NAMARAL HAMME RECORD OF OR DORING         Auto NAMMER (NAMARAL HAMME RECORD OF OR DORING         Auto NAMMER (NAMARAL HAMME RECORD OF OR DORING         Auto NAMMER (NAMARAL HAMME (NAMARAL HAMME RECORD OF OR DORING         N/A         TOTAL NUMBER CORE BOXES         0           OTAL DEPTH OF DORING         10.5 Feet         TOTAL RECOVERY FOR BOXING         100 %         0         0           LEV. DEPTH 46.0         0.0         (MH) SILT, inorganic-H, high plasticity, very (soft consistency, wet, dark gray)         100         1         Vibracore         Att EL -SO FL -200e 98%, PL= 20, MC= 139%         20, MC= 139%           52.5         6.5         (CH) CLAY, fat, high plasticity, soft consistency, wet, gray, with trace shell, inorganic         100         1         Vibracore         Att EL -SO FL -200e 98%, PL= 20, MC= 139%					STAR								IN/OV Et			
AME & TITLE OF FIELD INSPECTOR     NAME OF DRILLER     MANUFACTURER'S DESIGNATION OF DRILL     Undervater       M. Shekouh, Geotechnical Engineer     CSI     WANUFACTURER'S DESIGNATION OF DRILL     Introduction of DRILL     Introduction of DRILL       M. Shekouh, Geotechnical Engineer     CSI     Wanufacturer's DESIGNATION OF DRILL     Introduction of DRILL     Introduction of DRILL       MANUFACTURER'S DESIGNATION OF DRILL     UNDESIGNATION OF DRILL     Introduction of DRILL     Introduction of DRILL       MANUFACTURES     VERTICAL     INCLINED     VERTICAL     BEARING     SIZE AND TYPE OF BIT     See Remarks       NICKNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BOXES     0     Introduction of DRILL     Introduction of DRILL       CAL DEPTH OF DORING     19.5 Feet     TOTAL RECOVERY FOR BORING     100 %       EV. DEPTH     B     CLASSFICATION OF MATERIALS     NEC.     SSE     TOTAL RECOVERY FOR BORING     100 %       EV. DEPTH     B     CLASSFICATION OF MATERIALS     NEC.     SSE     TOTAL RECOVERY FOR BORING     100 %       EV. DEPTH     B     CLASSFICATION OF MATERIALS     NEC.     SSE     TOTAL RECOVERY FOR BORING     100 %       EV. DEPTH     B     CLASSFICATION OF MATERIALS     NEC.     SSE     TOTAL RECOVERY FOR BORING     20. MC = 50 FL.       EV. DEPTH     G     G <td>RILL</td> <td>ING A</td> <td>GENCY</td> <td>Сс</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TOP OF BC</td> <td>DRING</td> <td>GROUN</td> <td>D WAT</td> <td>ER</td>	RILL	ING A	GENCY	Сс								TOP OF BC	DRING	GROUN	D WAT	ER
M. Shekuh, Geotechnical Enginer     CSI     Vibroore     Imanual Hanne       INCLINED     VERTICAL     INCLINED     VERTICAL     Size AND TYPE OF BIT     See Remarks       INCRNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BOXES     0       EPTH TO FOP OF ROCK     N/A     TOTAL SAMPLES     DISTURBED     1     UNDISTURBED (UD) (D)       CTAL DEPTH OF BORING     19.5 Feet     TOTAL RECOVERY FOR BORING     100 %       EV     DEPTH 0F BORING     19.5 Feet     TOTAL RECOVERY FOR BORING     100 %       EV     DEPTH 0F     CLASSIFICATION OF MATERIALS     NCL     SS     NCL     SS       660     0.0     (MH) SILT, Inorganic-H, high plasticity, very soft consistency, wet, dark gray     100     1     Vibracore     ALEL-50 FL, 200 FM, 2-30, MC = 139%       52.5     6.5     (CH) CLAY, fat, high plasticity, soft consistency, wet, gray, with trace shell, inorganic     100     1     Vibracore     ALEL-50 FL, 200 FM, 2-30, MC = 139%	AME	& TITLE	OF FIEL													
EX     UNCLINED     VERTICAL     SIZE AND TYPE OF BIT     See Remarks       NICKNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BOXES     0       EPTH TO TOP OF ROCK     N/A     TOTAL SAMPLES     DISTURBED 1     UNDISTURBED (UD) (0       OTAL DEPTH OF BORING     19.5 Feet     TOTAL RECOVERY FOR BORING     100 %       EV.     DEPTH 0     0     CLASSIFICATION OF MATERIALS     REC.     52 53     800     ADVANCEMENT     PENALING     0 52 54       16.0     0.0     (MH1) SILT, inorganic-H, high plasticity, very soft consistency, wet, dark gray     100     1     At El50 Ft. -200 = 98%, PL= 40, LL= 60, PI= 20, MC= 139%       12.5     6.5     (CH) CLAY, fat, high plasticity, soft consistency, wet, gray, with trace shell, inorganic     100     1     Vibracore     At El55 Ft. -200 = 98%, PL= 40, LL= 65, Ft. -200 = 98%, PL=			-		-			Vi	broco	re			č			
EPT IN TO TOP OF ROCK     N/A     TOTAL SAMPLES     DISTURBED     1     UNDISTURBED     UNDISTURBED<					DEG. F VERTI	CAL	BEARING	SIZE	AND .	ТҮРЕ О	FBIT	See R	emarks			
OTAL DEPTH OF BORING     19.5 Feet     TOTAL RECOVERY FOR BORING     100 %       Lev.     DEPTH     G     CLASSIFICATION OF MATERIALS     REC.     SS     ROB     ADVANCEMENT     RELAINS     SS       16.0     0.0     (MH) SILT, inorganic-H, high plasticity, very soft consistency, wet, dark gray     Image: SS     ROB     ADVANCEMENT     RELAINS     SS       16.0     0.0     (MH) SILT, inorganic-H, high plasticity, very soft consistency, wet, dark gray     Image: SS     Image: SS     ROB     ADVANCEMENT     RELAINS     SS       100     1     Vibracore     (MH) SILT, inorganic-H, high plasticity, very soft consistency, wet, dark gray     Image: SS     Image: SS     ROB     ADVANCEMENT     RELAINS     SS       100     1     Vibracore     (MH) SILT, inorganic-H, high plasticity, soft consistency, wet, gray, with trace shell, inorganic     Image: SS     ROB     Image: SS     ROB     ROB     Image: SS     ROB     ROB     Image: SS     ROB	ніск	NESS O	FOVERB	URDEN	N/A	I		тот	AL NU	MBER (	CORE B	OXES (	)			
Lev.     DEPTH     G     CLASSIFICATION OF MATERIALS     NRC     SS     DS     ADVANCEDENT     REMAINS     SS       16.0     0.0	EPTH	і то тог	OF ROC	ĸ	N/A			тот	AL SAI	MPLES	D	ISTURBED 1	UNL	DISTURBED	(UD)	0
16.0 0.0 (MH) SILT, inorganic-H, high plasticity, very soft consistency, wet, dark gray (MH) SILT, inorganic-H, high plasticity, very soft consistency, wet, dark gray 100 1 Vibracore 100 1 Vibracore (CH) CLAY, fat, high plasticity, soft consistency, wet, gray, with trace shell, inorganic At EL-50 Ft. 200-98%, PL= 20, MC= 139%	ΟΤΑΙ	. DEPTH	OF BORI	NG	19.5 Fe	et		тот	AL RE	COVER	Y FOR E	oring 10	0 %		_	
52.5       6.5         (CH) CLAY, fat, high plasticity, soft         consistency, wet, gray, with trace shell, inorganic	LEV.	DEPTH	LEGEND	CL	ASSIFICATIO	N OF MATE	ERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR RE	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
- 31, MC= 91%	52.5 52.7 - - - - - - - - - - - - - - - - - - -			(CH) CL/	stency, wet,	dark gray	soft	100	1			'ibracore	-200= 40, LL 20, M0 At EL -200= 32, LL	98%, PL= = 60, PI= C= 139% -55 Ft. 98%, PL= = 63, PI=		
M FORM 1836 AFTER ▼ DURING ♀ (Continued) Boring Designation MHVBC-2			1836	AFTER			(C	ontinue	ed)			Borina De			VBC-:	 26-1

DRILLING LOG (Cont. Sheet)	INSTAL				oring Designatio		SHEET 2	
		ile Dis					OF 2 S	
ROJECT	COORD				им est - U.S. Survey Ft.	HORIZONTAL NAD83	MLL	
OCATION COORDINATES	ELEVAT							••
X = 1,805,766 $Y = 149,742$	-46.0		OF OF	BORING	•			
		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	1 FT.
-65.5 19.5 NOTES: 1. Soils are field visually classified i accordance with the Unified Soils Classification System.		100	1		Vibracore			



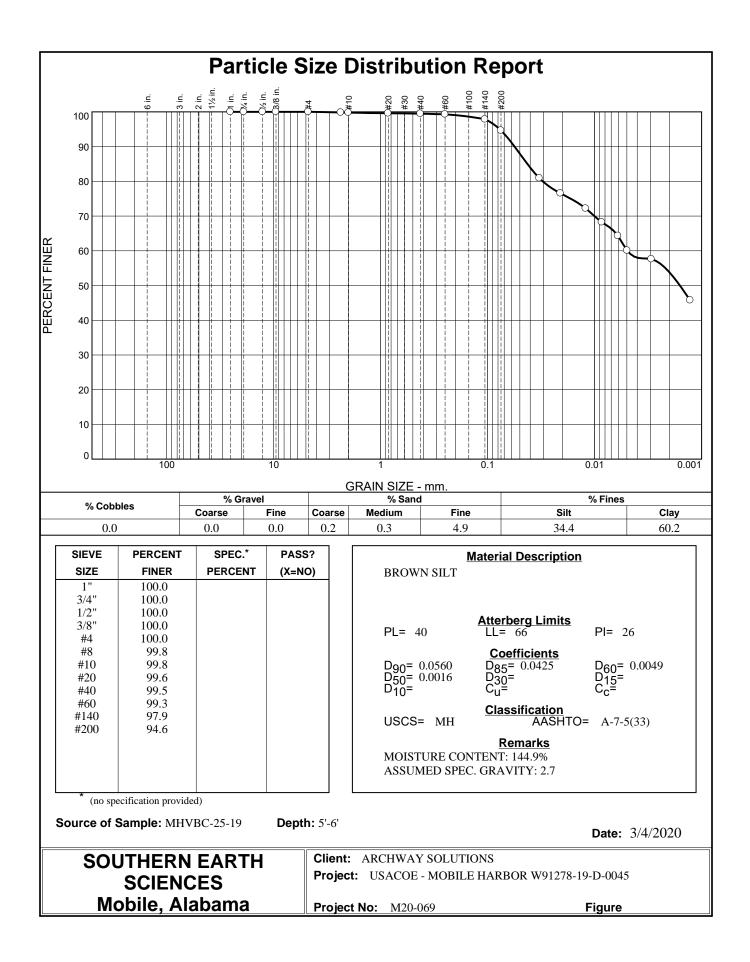


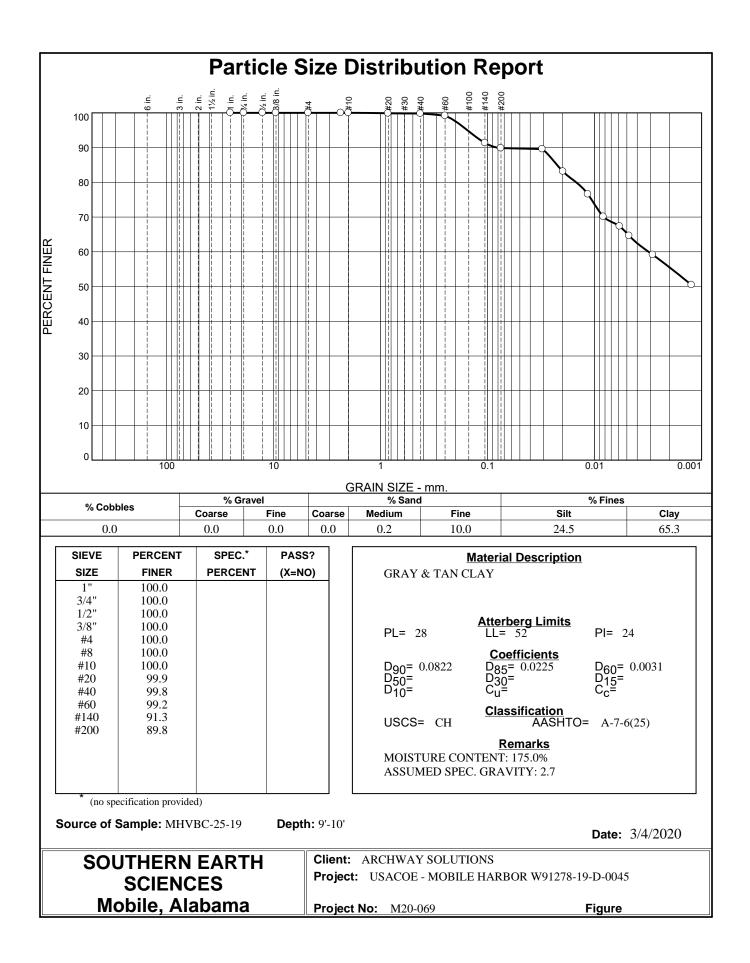
DRI	LLIN	G LO	G	DIVISI	ON Sc	outh Atlantic	IN	IST/	<b>ALLA</b>	ΤΙΟΙ	Mobile I	Distric	t I	SHEET OF 2		ETS
PROJ	ECT		•				LAT	LONG	COORI	DINATES	<sup>3</sup> LAT = 30.40	)7749				
10	63-196	4 Sub	surface	Investio	ation		STA	TE PL4	NE CO	ORDINA	<b>XTES</b> X = 1,80	 )5,861	Y = 14	8,659		
	OF BO		Surraco		STARTED	COMPLETED					ATUM/UNITS		HORIZ		VER	
					<u> </u>	050414					Vest - U.S. Sur <b>TOP OF BOI</b>		NAD8	З UND И	MLL ATE	
		_	.D INSPEC	-	Engineers -						-31.8 Fe	et	U	nderwa	ater	
NAME			eologist	TUR	NAI	ME OF DRILLER N/A	N/AN		IUKEK	5 DESI	SMATION OF DR	[		) HAMN JAL HA		ER
	TION OF				EG. FROM	BEARING	SIZE		TYPE O	FBIT	See Re	marks				
			INCLINE		/ •					CORE B						
	NESS OF				/A						-					0
	I TO TOP				/A				MPLES		-	Record	DISTURB	ED (UD	<i>y</i> (	
			NO	19	.5 Feet		101			TFORE		Record	leu		<u>ن</u> مز	
ELEV.	DEPTH	LEGEND	c	CLASSIFIC	ATION OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
<u>-31.8</u>	0.0		(CH) C	LAY, fat,	high plastic	ity, very soft	+									
-	ł		consiste	ency, we	t, gray, orga	anic										
-	+									Adva	nced Boring					
	+															
	F													Γ	0	
-							NR			SP	T Sampler			F	0	
	+									0.	reampion			⊦	_	0
-	+														0	
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	+									مارم	need Deriver					
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•	ţ						NR			SP	T Sampler				0	0
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-	ļ.								1					F		
	ł															
-	Ę									Adva	nced Boring					
	ţ															
	ł															
		1836	AFT	ER LLING	DURING DRILLING		ontinue	ad)			Boring Des	ianoti		S-119		

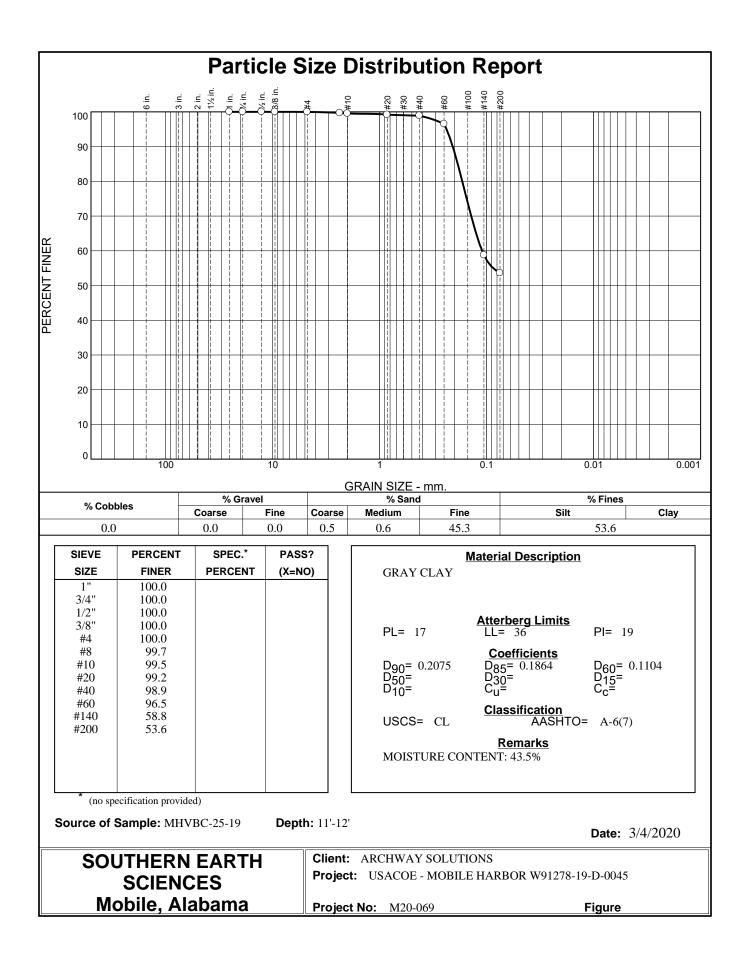
		6 LO	G (Cont. Sheet)		le Dist	rict		oring Designatio		S-119 SHEET 2 OF 2 SH	
ROJE	т			COORDI				<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERTIC MLLV	
OCATI	ON COORI		8						NAD03		V
	1,805,861		• 148,659	-31.8			bonnie				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	ũũ BLOWS/	N-VALUE
- - - -								Advanced Boring			
-					NR			SPT Sampler		0	- 0
								Advanced Boring			
- - - -					NR			SPT Sampler	-	0	0
-51.3	19.5							Advanced Boring			
  	-		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
- - - - - - -											
<b>SAM F</b> UG 201	ORM 18	 836-A	DRILLING - DRILLING -	and in it	s ont	irety	<u> </u>	Boring De	esignation	<b>SS-119</b>	1

DRILLING LOO PROJECT 2020 Geotechnic DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD M. Shekouh, Geote DIRECTION OF BORING VERTICAL	al Investig		outh Atlantic	LAT/	-				District	OF	SHE	
2020 Geotechnic DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELI M. Shekouh, Geote DIRECTION OF BORING	Corp	STARTED			LONG	COORD	DINATES	LAT = 30.4	0555442	I ONG =	.88 በ1	705
DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELI M. Shekouh, Geote DIRECTION OF BORING	Corp	STARTED		CTA.								1351
DRILLING AGENCY NAME & TITLE OF FIELI M. Shekouh, Geote DIRECTION OF BORING	-			51A	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	805,409	Y = 147,86	63	
MAME & TITLE OF FIELD M. Shekouh, Geote DIRECTION OF BORING	-		01-20-20					<b>TUM/UNITS</b> Vest - U.S. Su	irvev Ft	<i>HORIZ.</i> NAD83	VER MLL	
M. Shekouh, Geote	-	os of Engineers -						TOP OF BO	RING	GROUND	WATE	R
	INSPECTOR	-	ME OF DRILLER					-45.0 Fe		Under		
	chnical Eng		CSI	Vi	brocor	re						
	NCLINED	DEG. FROM VERTICAL	BEARING	SIZE	AND 1	ТҮРЕ О	FBIT	See R	emarks			
THICKNESS OF OVERBI	JRDEN	N/A		тот	AL NU	MBER C	CORE BO	DXES (	)			
DEPTH TO TOP OF ROC	ĸ	N/A		тот	AL SAM	MPLES	D	<b>STURBED</b> 1	UNL	DISTURBED (U	) (סו	0
TOTAL DEPTH OF BORI	NG	17.5 Feet		тот	AL REC	COVER	Y FOR B	oring 10	0 %			
	CLAS	SIFICATION OF M	IATERIALS	REC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DR RE	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
45.0 0.0			gh plasticity, very									
		ζ, fat, high plastic , wet, gray, inor		100	1		V	ibracore	-200= 40, LL 26, M0 -200= 28, LL	-50 Ft. 94%, PL= = 66, PI= C= 145% C= 145% = 52, PI= C= 175%		

PROJECT         COORDINATE SYSTEMATION         MORIZON         VENTICAL         MULLW           X = 1,805.409         Y = 147.803         ELEVATION TOP OF BORING         1450 FL         -	DRI	LLIN	G LC	G (Cont. Sheet)	INSTALL Mobile						SHEET OF 2		ETS
LOCATION COORDINATES       ELEVATION TOP OF BORING         X = 1,805,409       Y = 147,863       -45.0 Ft.         ELEV.       DEPTH       Elevation of materials       REC.       SEE       RED.       Advancement       REMAINS       REF.         ELEV.       DEPTH       Elevation of materials       REC.       SEE       RED.       Advancement       REMAINS       REF.       REMAINS       REF.       REMAINS       REF.       REF.       REMAINS       REF.	PROJEC	т											
X = 1,805,409       Y = 147,863       -45.0 Ft.         ELEV.       DEPTH       01/00       CLASSIFICATION OF MATERIALS       n2c.       020/00       ADVANCEMENT       REMARKS       02/01       02/01         Image: Consistency, wet, gray, sandy       Image: Consistency, wet, gray, inorganic       Image: Consistency, wet, gray, inorg										NAD83	ML	LW	
ELEV.       DEPTH       G       CLASSIFICATION OF MATERIALS       REC.       GE       DOP       ADVANCEMENT       REMARKS       REALANS       ReaLANS <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>OP OF</th> <th>BORING</th> <th>3</th> <th></th> <th></th> <th></th> <th></th>							OP OF	BORING	3				
-62.5     17.5       NOTES:       1. Soils are field visually classified in accordance with the Unified Soils	X = 1	,805,40	_	= 147,863	-45.0	⊢t.							
At EL -60 0 Ft., low plasticity, soft consistency, wet, gray, inorganic -62.5 17.5 NOTES: 1. Soils are field visually classified in accordance with the Unified Soils	ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	1	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT.	N-VALUE
	-62.5			At El60.0 Ft., low plasticity, soft consistency, wet, gray, inorganic NOTES: 1. Soils are field visually classified in accordance with the Unified Soils	oft					At El56 F -200= 53%, 17, LL= 36,	t. PL= PI=		
	+ + + + + + + +	- - - - -											
↓       ↓         SAM FORM 1836-A       AFTER ▼ DURING ♀         UG 2017       Boring Designation         MHVBC-25-	-	-											







DRI	LLIN	G LO	G	DIV	ISIOI	So	uth Atlantic	IN	IST/	<b>ALLA</b>	ΤΙΟΙ	Mobile	Distric		EET 1 2 SH	EET
PROJE	СТ							LAT	LONG	COORI	DINATE	LAT = 30.4	)2482	LONG = ·	88.018	447
104	32_106		surface	a Invo	stigatio	'n		STA	TE PLA	NE CO	ORDIN/			Y = 146		
			Sunac				COMPLETED	coo	RDINA	TE SY	STEM/D	ATUM/UNITS	,	HORIZ.		RT.
												Vest - U.S. Su TOP OF BO		NAD83	ML ND WAT	LW ER
				-		ineers -	CESAM			ATION		-34.8 Fe	et	1	lerwate	
NAME						NAN	N/A	MAN N/		TURER	S DESI	SNATION OF DR	ווג [			
DIRECT		-	•		DEG.	FROM	BEARING									
N 🛛	/ERTICA		INCLIN	ED	VER	IICAL		SIZE	AND .	TYPE O	FBIT	See Re	marks			
тніскі	NESS OF	DF BORING     Corps of Engineers - CESAM       TITLE OF FIELD INSPECTOR N/A, Geologist     NAME OF DRI N/A       ON OF BORING ERTICAL     INCLINED       ESS OF OVERBURDEN     N/A       FO TOP OF ROCK     N/A       DEPTH OF BORING     16.5 Feet       0.0     Inclined						тот	AL NU	MBER (	CORE B	OXES 0				
DEPTH	то тор							тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBEL	(UD)	0
TOTAL	DEPTH							тот	AL RE	COVER	Y FOR E	oring Not	Record	ed		_
ELEV.	DEPTH							RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING	BLOWS/	N-VALUE
		IG AGENCY       Corps of Engineers - CESAM         TITLE OF FIELD INSPECTOR       NAME OF DR         N/A, Geologist       N/A         IN OF BORING       DEC. FROM         RTICAL       INCLINED         SS OF OVERBURDEN       N/A         D TOP OF ROCK       N/A         EPTH OF BORING       16.5 Feet         EPTH       0         CLASSIFICATION OF MATERIALS         D.0       (CH) CLAY, fat, high plasticity, very consistency, wet, gray, organic         CH)       (CLAY, fat, high plasticity, very consistency, wet, gray, organic														
-34.8	0.0				fot him	h placti-	ity yory coff								_	
ţ		F BORING     STARTED     COMF       IG AGENCY     Corps of Engineers - CESAM     TITLE OF FIELD INSPECTOR     NAME OF DRI       N/A, Geologist     N/A     N/A     DEG. FROM     DEA       IN OF BORING     DEG. FROM     DEA     DEG. FROM     DEA       IN OF BORING     INCLINED     VENTICAL     DEG. FROM     DEA       ISS OF OVERBURDEN     N/A     O TOP OF ROCK     N/A     DEG. FROM     DEA       EPTH OF BORING     16.5 Feet     EPTH     DEG. FROM     DEG. FROM     DEG. FROM       0.0     (CH)     CLASSIFICATION OF MATERIALS     CLASSIFICATION OF MATERIALS     O.0       0.0     (CH)     CLAY, fat, high plasticity, very s consistency, wet, gray, organic     State of the second sec									Adva	nced Boring				
ł											,	g				
1	<b>-</b>														0	
ł											00	TOwnslaw				
Ŧ	-						NR			5P	T Sampler			0	0	
t															0	
	- - - - - - - - -										Adva	nced Boring				
+								NR				T Sampler			0	- 0
		836	Α	FTFR		URING		ontinue				Boring Des		on 66	-121	

DR	ILLING	i LO	G (Cont. Sheet)	INSTAL Mob	<b>LATIO</b>			oring Designatio		5-121 Sheet 2 Of 2 S	
PROJE	ст			COORD					HORIZONTAL	VERTI	
								est - U.S. Survey Ft.	NAD83	MLL	W
				ELEVAT		OP OF	BORING	G			
X =	1,805,059		= 146,747	-34.8	8 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS GS	0.5 FT.
- - - - - - - - - - - - - - - - - -								Advanced Boring			
					NR			SPT Sampler		(	) ) 0
-51.3	16.5							Advanced Boring			
- - - - - - - - - - - - - - - - - 	- - - - - - - - - -		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).	_		
- - - - - - - -	+ + + + + + + + + + + + + + +										
-											
SAM F	ORM 18	336-4	DRILLING - DRILLING -	ced in it	ts ent	irety	by Ai	Boring De	esignation V9127821B0	<b>SS-121</b>	)1

roject I.D.			<u> </u>	uth Atlantia		CT.			oring Design		s	HEET	<b>D-4</b> -	
DRILLING LOG		/ISION	50	uth Atlantic							0	<b>F</b> 4		
FRUJEVI									LAT - 30.40		LONG =	-88.0	1924	3
1970-1972 Subsu	irface								X = 1,80	04,805	Y = 14		1/=	_
DATE OF BORING		<b>STAR1</b> 09-21-		09-22-72					<b>ATUM/UNITS</b> Vest - U.S. Sur	vey Ft.	HORIZ NAD83		VERT MLLV	
DRILLING AGENCY	Corp	ps of Engin	eers -	CESAM	E	LEVA		IS	<i>тор ог воі</i> -12.7 Fe			<b>derwa</b>		!
NAME & TITLE OF FIELD Wilsford, Ge		R	NAN	<b>NE OF DRILLER</b> Dobbs		ME-75		S DESI	GNATION OF DR	<sup>ILL</sup> [				в
DIRECTION OF BORING	sologist	DEG. FI	ROM	BEARING						L				<u> </u>
	ICLINED	VERIN	CAL		SIZE	AND 1	TYPE O	FBIT	See Re	marks				
THICKNESS OF OVERBU	RDEN	N/A			тот	AL NU	MBER (	CORE B	OXES 0					
<b>DEPTH TO TOP OF ROCK</b>		N/A			тот	AL SAM	<b>IPLES</b>	D	ISTURBED 8	UN	DISTURBE	D (UD	0	
TOTAL DEPTH OF BORIN	G	35.5 Fee	ət		тот		OVER	Y FOR E	BORING 93 9	%				
ELEV. DEPTH	CLAS	SIFICATION	N OF M/	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 1 FT.	N-VALUE
-12.7 0.0														
2.7 0.0 (MH) SILT,	, inorganic-	-H, higl	h plasticity, gray	100	1			.D. Shelby Tube						
	At El17.7 Ft., gray and black with organics		ck with	100	2		3"	.D. Shelby Tube						
							Adva	inced Boring						
-22.7 10.0														

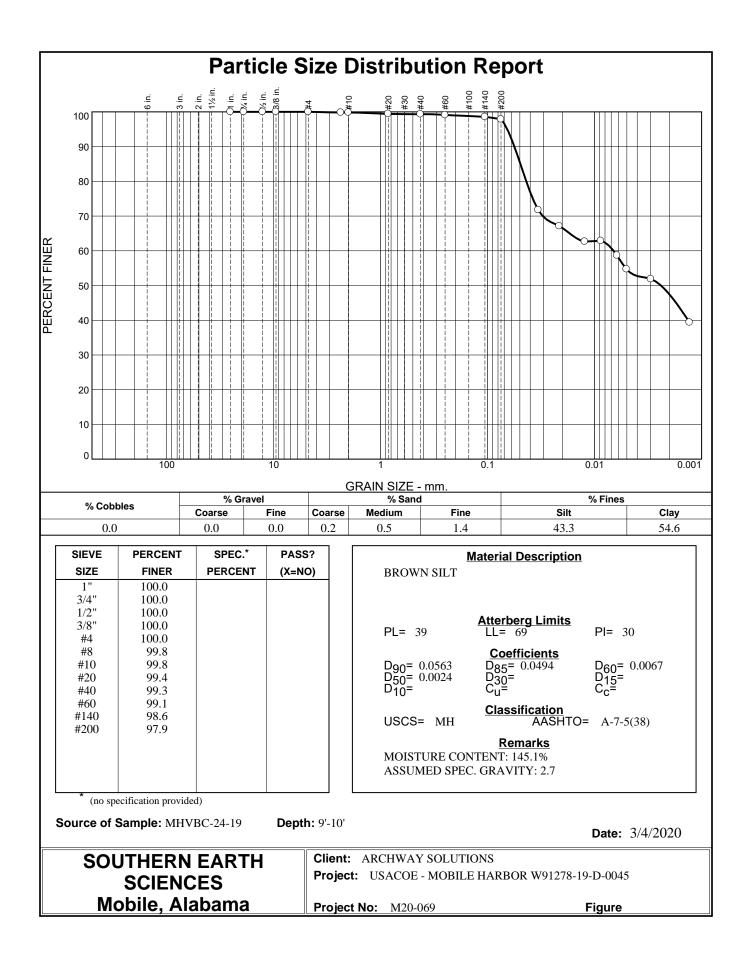
DR	ILLIN	GLO	G (Cont. Sheet)		LLATIO					SHEET	
				-	bile Dis					OF 4	
ROJEC	T									VERT MLI	
0047			ie					est - U.S. Survey Ft.	NAD83		_ v v
					.7 Ft.		JURIN	-			
ELEV.	DEPTH	I I	CLASSIFICATION OF MATERIAL		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	Ģ	BLOWS/ 1 FT. N-VALUE
		Ĕ				BO	UD	METHOD			
-	-		(OH) SILT, organic-H, high plasticit	y, gray							
-	-										
-	Ĺ										
-	-				100	3		3" I.D. Shelby Tube			
-	-							edu i			
-	-										
-											
-	-								4		
-	-										
-	t										
-											
-	-	COORDINATES 4,805 Y = 146,077 CLASSIFICATION OF MA						Advanced Boring			
-	-										
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_											
-	-								-		
-	-										
-	-										
-	L										
-	-				100	4		3" I.D. Shelby Tube			
-	-							Tube			
-											
-	-										
-	-								-		
-	-										
-											
-	-										
-	-							Advanced Boring			
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-	t							Advanced Boring			
-	ļ										
AM F	ORM '	1836-A	AFTER DRILLING ↓ DURING ↓ DRILLING ↓	(0	Continue	ed)		Borina De	signation	CD-4-7	2
IG 201	7		DRILLING - DRILLING -					mendment No. V			

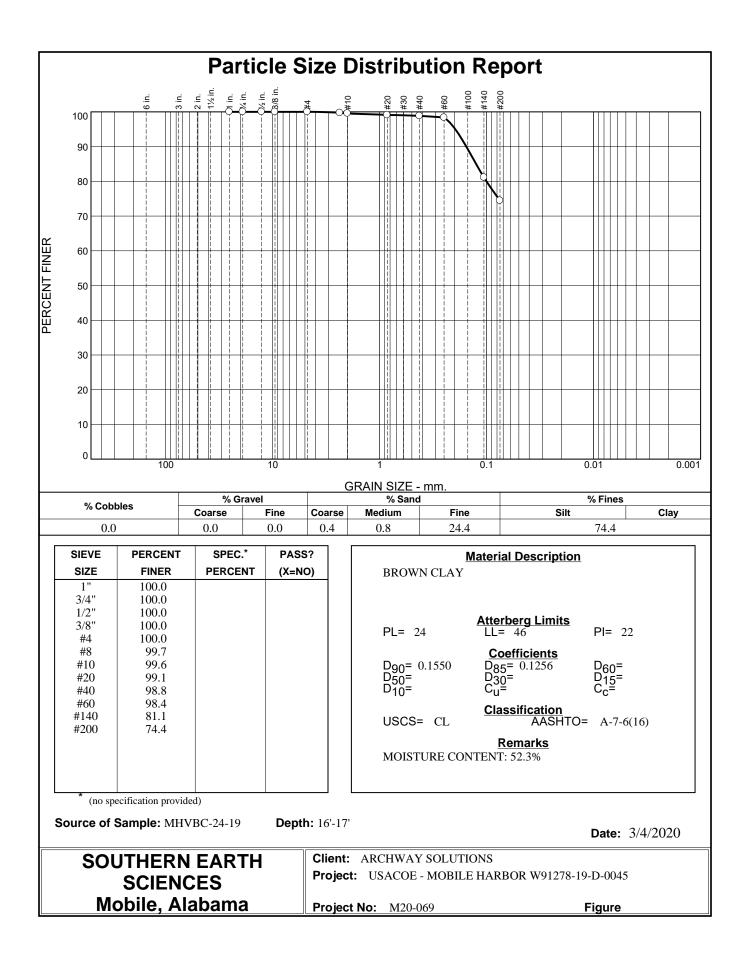
DR	ILLIN	G LC	)G (Cont. Sheet)		L <b>LATIO</b> Dile Dis		B			SHEET 3 Of 4 S	
PROJEC	т				DINATE				HORIZONTAL	VERTI	
								est - U.S. Survey Ft.	NAD83	MLL	W
	ON COOF				τιον το	OP OF	BORIN	G			
X =	1,804,80	5 Y	= 146,077	-12	.7 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS IS	N-VALUE
- - -37.7								Advanced Boring			
	- - - - - -		(CH) CLAY, fat, high plasticity, gra organic odor and limestone fragme	y with nts	100	6		3" I.D. Shelby Tube			
-	- - - - - - - -							Advanced Boring			
			<sup>∽</sup> At El42.7 Ft., high plasticity, gray		100	7		3" I.D. Shelby Tube			
	+ + + + + + + + + + + +							Advanced Boring			
-48.2 - - -	35.5 - - -		NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.		100	8		3" I.D. Shelby Tube Advanced Boring			
SAM F	ORM 1	836-	2. Sampler lost obtaining sample N A AFTER DRILLING DRILLING DRILLING P Repl		Continue	ed)		Boring De	signation	CD-4-72	2

				INCTAL			В	oring Designatio	on <b>Cl</b>	D-4-72	4	_
DRI		G LC	DG (Cont. Sheet)	INSTAL Mob	ile Dist					SHEET OF 4		s
ROJEC	т			COORD				им	HORIZONTAL		TICAL	$\neg$
								est - U.S. Survey Ft.	NAD83		LW	
OCATI	ON COOF	RDINAT	TES	ELEVAT								٦
X = 2	1,804,80	5 Y	r = 146,077	-12.7								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	•	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT. N-VALLE	
	-	-		4 70	100						• z	-
-	- - -		Moved Barge approx. 10 north of CD- Fish tailed to depth -47.7, then pushed sample No.8 to -50.2 feet.	4-72. d	100	8						
-	-											
-	-											
-	- - -											-
-	- - -											
-	-											
-	-											
-	-											
-	-											
-	-											
-	-											
-	-											
-	-											
<b>AM F</b> JG 2017	ORM 1	836-	A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING ∑ Replac	ed in it	s ont	irety	hv Ar	Boring De	signation	<b>CD-4-</b>		┛

DRILLING LOG PROJECT 2020 Geotechnical In DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INS M. Shekouh, Geotechni DIRECTION OF BORING VERTICAL INCL	DIVISION nvestigation START 01-21- Corps of Engine	ED COMPL	LAT	LONG	COORI					2 SHE	
2020 Geotechnical II DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INS M. Shekouh, Geotechni Direction of Boring	<b>START</b> 01-21-					DINATES	LAT = 30.4	0020571	LONG =	-88.01	7783
DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INS M. Shekouh, Geotechni DIRECTION OF BORING	<b>START</b> 01-21-		ST								
DATE OF BORING DRILLING AGENCY NAME & TITLE OF FIELD INS M. Shekouh, Geotechni DIRECTION OF BORING	<b>START</b> 01-21-				ANE CO	ORDINA	<b>TES</b> X = 1,8	805,264	Y = 145,91	8	
NAME & TITLE OF FIELD INS M. Shekouh, Geotechni DIRECTION OF BORING		20 1 01-21					<b>TUM/UNITS</b> Vest - U.S. Su	INOV Et	<i>Horiz.</i> NAD83	VER MLL	
NAME & TITLE OF FIELD INS M. Shekouh, Geotechni DIRECTION OF BORING	Corpo or Erigin						TOP OF BO	RING	GROUND	WATE	
	PECTOR	NAME OF DRILL					-46.0 Fe				
	<u> </u>	CSI	V	ibroco	re						ER
	INED DEG. FR	COM BEAR		E AND	ТҮРЕ О	F BIT	See Re	emarks			
THICKNESS OF OVERBURDE			то	TAL NU	MBER (	CORE BO	DXES ()				
DEPTH TO TOP OF ROCK	N/A		то	TAL SA	MPLES	DI	STURBED 1	UNE	DISTURBED (I	( <b>D</b> ) (	0
TOTAL DEPTH OF BORING	19.5 Fee	t	то	TAL RE	COVER	Y FOR B	ORING 10	0 %			
	CLASSIFICATION	OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD	ADV.	ANCEMENT METHOD	DR REI	RILLING MARKS	BLOWS/ 1 FT.	N-VALUE
46.0 0.0	I) SILT, inorganic-										
	consistency, wet,		100	1		V	ibracore	39, LL	-55 Ft. 98%, PL= = 69, PI= C= 145%		

DRILLING LOG (Con	t. Sheet)	INSTAL						SHEET	
•	<b>- ,</b>		ile Dist					OF 2	
PROJECT		COORD				<b>лм</b> est - U.S. Survey Ft.	HORIZONTAL NAD83		T <b>ICAL</b> LW
OCATION COORDINATES		ELEVAT							- • •
X = 1,805,264 Y = 145,918		-46.0			bonne	•			
Q	ASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT. N-VALUE
-60.0 14.0 (CH) CL consister	AY, fat, high plasticity, soft hcy, wet, gray, inorganic, wit AY, lean, low plasticity, soft hcy, wet, gray, with fine sand rganic		100	1		Vibracore	At El62 F -200= 74%, 24, LL= 46, 22, MC= 52	t. PL= PI=	
1. Soils a accordan	are field visually classified in ice with the Unified Soils ation System.								





DRI	LLIN	G LO	G I	DIVIS	ION S	South Atlantic	IN	IST/	LLA	ΤΙΟΙ	Mobile I	Distric		IEET 1	ueee	Tr
PROJ										DINATES				2 S		
	<b></b>		-							ORDINA	LAT - 30.3				, 503	, _
			surface	Investi	gation <i>started</i>	COMPLETED	C00		TE SYS	STEM/D	X = 1,80	JO,347	Y = 144		ERT.	
DATE	OF BO	RING									Vest - U.S. Sur		NAD83	М	LLW	/
DRILI	ING AG	BENCY	(	Corps of	f Engineers	- CESAM	E	LEV		IS	<i>тор ог воі</i> -30.8 Fe			<b>ND WA</b> derwat		
NAME				AME OF DRILLER			TURER	S DESIG	GNATION OF DR							
DIDEC			-	N/A BEARING	N/	'A				[		AL HAM	MER	؛ 		
			BEARING	SIZE	AND .	ТҮРЕ О	FBIT	See Re	marks							
тніск	NESS OF	OVERE	I	тот	AL NU	MBER (	CORE B	OXES 0					-			
DEPTH	B TITLE OF FIELD INSPECTOR       NAME OF DRII         N/A, Geologist       N/A         ION OF BORING       DEG. FROM         VERSS OF OVERBURDEN       N/A         TO TOP OF ROCK       N/A         DEPTH OF BORING       20.5 Feet         DEPTH       9         CLASSIFICATION OF MATERIALS         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic						тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UD)	0	-
ΤΟΤΑΙ	A TITLE OF FIELD INSPECTOR       NAME OF DRIN         N/A, Geologist       N/A         TION OF BORING       DEG. FROM         VERTICAL       INCLINED         NESS OF OVERBURDEN       N/A         TO TOP OF ROCK       N/A         DEPTH OF BORING       20.5 Feet         DEPTH       Guide         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic						тот	AL RE	COVER	Y FOR E	BORING Not	Record	ed			
ELEV.	A TITLE OF FIELD INSPECTOR       NAME OF DRI         N/A, Geologist       N/A         TION OF BORING       DEG. FROM         VERTICAL       INCLINED         INESS OF OVERBURDEN       N/A         INTO TOP OF ROCK       N/A         DEPTH OF BORING       20.5 Feet         DEPTH OF BORING       20.5 Feet         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic         0.0       (CH) CLAY, fat, high plasticity, very s consistency, wet, gray, organic						RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS	srows/	0.5 FT.	
	A TITLE OF FIELD INSPECTOR       NAME OF DRINA         N/A, Geologist       N/A         TION OF BORING       DEG. FROM         VERTICAL       INCLINED         NESS OF OVERBURDEN       N/A         I TO TOP OF ROCK       N/A         DEPTH OF BORING       20.5 Feet         DEPTH OF BORING       20.5 Feet         0.0       (CH) CLAY, fat, high plasticity, very sconsistency, wet, gray, organic         0.0       (CH) CLAY, fat, high plasticity, very sconsistency, wet, gray, organic													+-	2	-
-30.8	0.0															
	-															
-	t		00131318	5110 y, WC	., yray, U	301110										
-	$\vdash$															
-										Adva	nced Boring					
-	-															
-	-															
-	ŀ						<u> </u>								+	
-	Ĺ													0		
-	ŀ						NR			SP	T Sampler			0		
-	t															0
-	╞						<u> </u>							ŀ	+	
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							1	I	I						1	

DRILLING LOG (Cont. Sheet)		Boring Designation S								
PROJECT		Mobile District       HORIZONTAL         COORDINATE SYSTEM/DATUM       HORIZONTAL         State Plane - Alabama West - U.S. Survey Ft.       NAD83								
DCATION COORDINATES		ELEVATION TOP OF BORING								
X = 1,805,347 Y = 144,692	-30.8 Ft.	-30.8 Ft.								
LEV. DEPTH		SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK		N-VALUE			
				Advanced Boring						
	NF	8		SPT Sampler		0 0 0	- 0			
				Advanced Boring						
	NF	2		SPT Sampler		0 0 0	- 0			
51.3 20.5				Advanced Boring						
NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	in			140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).						
AM FORM 1836-A AFTER DURING DURING DURING DURING DURING				Boring De	esignation	<b>SS-123</b>				

roject	: I.D.										Вс	oring Desig	nation		١	/C-32	<u>2-84</u>
DRILLING LOG DIVISION South Atlantic						INSTALLATION Mobile District SHEET 1 OF 3 SHEETS											
PROJE	СТ							LAT	LONG	COORI	DINATE	• LAT = 30.3	394866	LON	G = -88	3.0185	579
196	63-196	4 Sub	surfac	e Inves	stigatio	n		STA	TE PL/	NE CO	ORDINA	<b>TES</b> X = 1,8	805,005	Y =	143,9 <sup>-</sup>	77	
1963-1964 Subsurface Investigation       DATE OF BORING     STARTED     COMPLETED       01 08 84     01 08 84     01 08 84						COORDINATE SYSTEM/DATUM/UNITS         HORIZ.         VERT.           State Plane - Alabama West - U.S. Survey Ft.         NAD83         MLLW											
DRILLING AGENCY     01-08-84     01-08-84											NAD83         MLLW           GROUND WATER						
NAME & TITLE OF FIELD INSPECTOR NAME OF DRILLER										-43.0 F SNATION OF D		Underwater AUTO HAMMER					
H. Gates, Geologist C. Fuller							Vi	broco	re					NUAL			
DIRECTION OF BORING DEG. FROM BEARING							SIZE	AND .	ТҮРЕ О	FBIT	See R	emarks					
тніски	IESS OI	OVERE	BURDEN		N/A			тот	AL NU	MBER (	CORE B	OXES (	)				
DEPTH TO TOP OF ROCK         N/А						тот	AL SAI	MPLES	D	ISTURBED 1	UN	DISTU	RBED (	UD)	0		
TOTAL	DEPTH	OF BOR	RING		26.5 F	eet		тот	AL RE	COVER	Y FOR E	ORING 10	0 %				
ELEV.	DEPTH	LEGEND		CLASSIFICATION OF MATERIALS				REC. US AND STREET			ADV	ANCEMENT METHOD	DRILLING REMARKS			BLOWS/ 1 FT.	N-VALUE
-43.0	0.0																
			mate	rial		consister	organic ncy, gray	100	1		V	'ibracore		45.5 11.7%			
AM F	ORM '	1836	A	AFTER DRILLING		URING S	☑ (0	Continue	d)			Boring De	sianati	ion	VC-3	 32-84	L
JG 2017			Ľ	RILLING	- DI	RILLING <sup>–</sup>	F I Replaced in			bv Aı	I mendi	-	-				

DRILLING LOG (Cont. Sheet)	INSTALL				oring Designatio		SHEET	
	Mobil						OF 3	
ROJECT							VERT MLI	
OCATION COORDINATES	State Pla				est - U.S. Survey Ft.	NAD83		_ v v
				BURING	2			
			X OR MPLE	RQD OR		DRILLIN REMARK	G	PTC
X = 1,805,005       Y = 143,977         CLASSIFICATION OF MATERIALS		Ft. <b>ĸ²c.</b> 100	L BOX OR SAMPLE	ROP UD	ADVANCEMENT	PRILLIN	g	1 FT. N-VALUE
+ (*/.)								
t 1///								
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†								
Į (žžž)								
+								
+								
† 1999								
		ation	<i>a</i> )		<u> </u>	<u> </u>		
AM FORM 1836-A AFTER ▼ DURING ▼ JG 2017	(Cor	ntinue	a)		Boring De	esignation	VC-32-	ŏ4

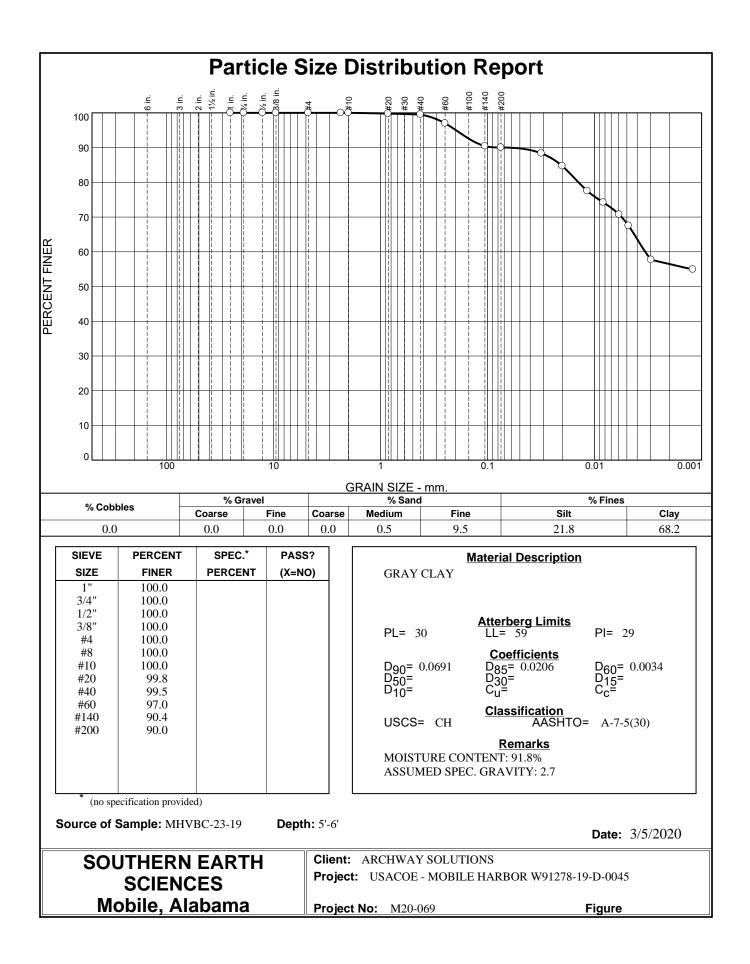
DG (Cont. Sheet)	Mobile	Distric	ct				OF 3 \$	SHEETS
	COORDINA					HORIZONTAL	VERT	
					est - U.S. Survey Ft.	NAD83	MLL	W
<b>ES</b> = 143,977			OF E	BORING	3			
- 143,977	-43.0 F	-	~!!!				<u> </u>	<u> </u>
CLASSIFICATION OF MATERIALS	R	е́с.	BOX OF SAMPLI	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT. N-VALUE
NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.			1 Service Serv	ŬB	Vibracore		S	
	CLASSIFICATION OF MATERIALS           NOTES:           1. Soils are field visually classified in accordance with the Unified Soils	CLASSIFICATION OF MATERIALS       R         NOTES:       1         1. Soils are field visually classified in accordance with the Unified Soils Classification System.       1	CLASSIFICATION OF MATERIALS       REC.         NOTES:       100         NOTES:       Soils are field visually classified in accordance with the Unified Soils Classification System.       Image: Rec of the system of the	CLASSIFICATION OF MATERIALS       R*C       SE         NOTES:       100       1         Solis are field visually classified in accordance with the Unified Soils Classification System.       I       I         Image: Im	CLASSIFICATION OF MATERIALS       R®C.       SSB       POSP         I       100       1       1       1         NOTES:       1. Soils are field visually classified in accordance with the Unified Soils Classification System.       I       I       I         I       Soils are field visually classified in accordance with the Unified Soils       I       I       I       I         I       Soils are field visually classified in accordance with the Unified Soils       I       I       I       I         I       Soils are field visually classified in accordance with the Unified Soils       I       I       I       I         I       Soils are field visually classified in accordance with the Unified Soils       I       I       I       I         I       Soils are field visually classified in accordance with the Unified Soils       I       I       I       I       I         I       Soils are field visually classified in accordance with the Unified Soils       I       I       I       I       I         I       Soils       I       I       I       I       I       I       I         I       Soils       I       I       I       I       I       I       I       I       I       I       I	CLASSIFICATION OF MATERIALS       RĚC.       SĚ       ROD       ADVANCEMENT         I       100       1       I       Vibracore         NOTES:       1. Soils are field visually classified in accordance with the Unified Soils       I	CLASSIFICATION OF MATERIALS       RX       SX       SX       ADVANCEMENT       RELLAXX         International Contraction of Materials       International Contraction of Materials       International Contractional Contractic Contractional Contractional Contractional Contractic Contractional Contractic Contrelation Contractic Conternation Contractic Contractic Contractic	CLASSIFICATION OF MATERIALS       NEC.       SS       POP       ADVANCEMENT       REMARKS       I         100       10       1       1       1       Vibracore       I <td< td=""></td<>

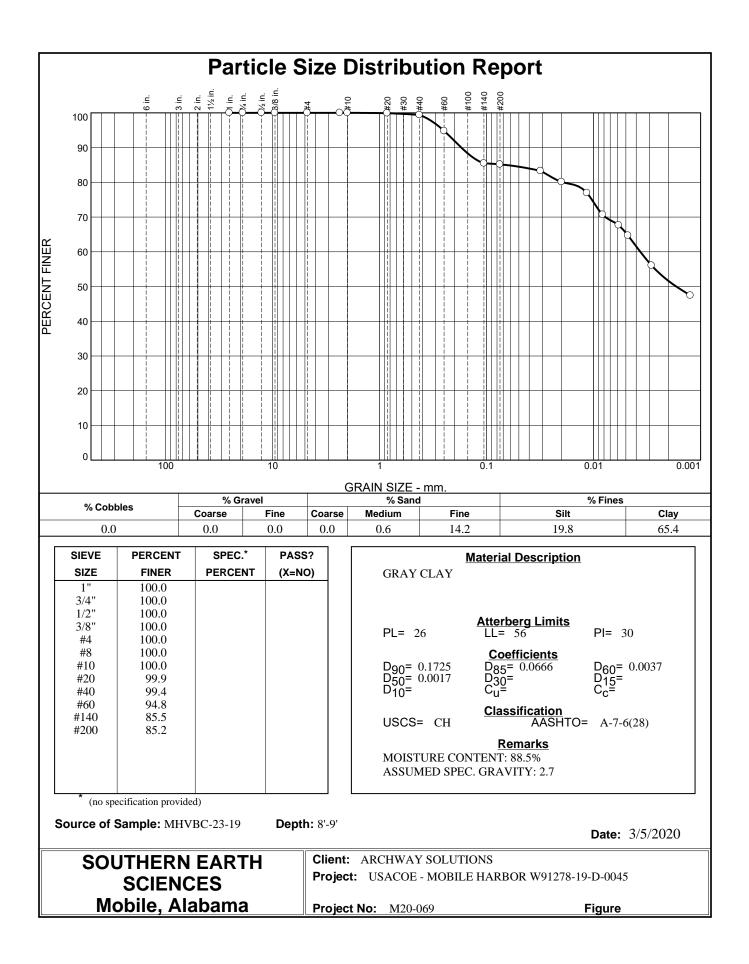
DRI	LLIN	G LOO	G D	oivisio	DN So	uth Atlantic	IN	IST/	ALLA	ΤΙΟΙ	N Mobile I	Distric	t l	DF 2		ETS
PROJ	ECT						LAT	LONG	COORI	DINATE	<sup>s</sup> LAT = 30.39	91473				
10	63 106	1 Quba	urface	nvoction	tion		STA	TE PL/	NE CO	ORDIN			Y = 14			
	OF BO		unace li	nvestiga <i>s</i> :	tion Tarted	COMPLETED	coo	RDINA	TE SY	STEM/D	ATUM/UNITS	. 1,010		,	VER	Т.
DATE		RING									Vest - U.S. Sur		NAD8	3 UND V		
	LING AG			-	ngineers -	CESAM			ATION		<i>тор ог воі</i> -37.8 Fe	et		nderw		~
NAME		OF FIELD	D INSPECT	TOR	NAM	<b>N/A</b>	MAN N/		TURER	'S DESIG	GNATION OF DR		_	HAM		FR
DIREC	TION OF	-	ologiot	DE	G. FROM RTICAL	BEARING										
$\boxtimes$	VERTICA		INCLINED		RIICAL		SIZE		ТҮРЕ О	F BIT	See Re	marks				
тніск	NESS OF	OVERBL	JRDEN	N/A			тот	AL NU	MBER	CORE B	OXES 0					
DEPTH	і то тор	OF ROC	к	N/A			тот	AL SA	MPLES	D	ISTURBED ()	UN	DISTURB	ED (UL	<b>)</b> )	0
ΤΟΤΑΙ	. DEPTH	OF BORI	NG	13.5	Feet		тот		COVER	Y FOR E	BORING Not	Record	ed			
ELEV.	DEPTH	LEGEND	CI	LASSIFICA	TION OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DI RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
-37.8	0.0		(CH) CL	AY, fat, h	iidh plastic	ity, very soft										
•	F		consiste	ncy, wet,	gray, orga	inic										
-	Ł									Adva	nced Boring					
	F									Auva	inced boring					
	t i															
-	F						-							╞		
	ļ													Ļ	0	
-	-						NR			SP	T Sampler				0	•
-	F													Γ	0	0
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-	ţ.									Adva	nced Boring					
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	ł													┝	0	
_	<u>t</u>						NR			SP	T Sampler				0	0
-	ŀ														0	0
•	ţ													ŀ		
-	╞															
	ţ									Adva	inced Boring					
	ł															
		1836	AETE	ER LING	DURING DRILLING	<u>∑</u> (C	ontinue				Boring Des			S-12	_	

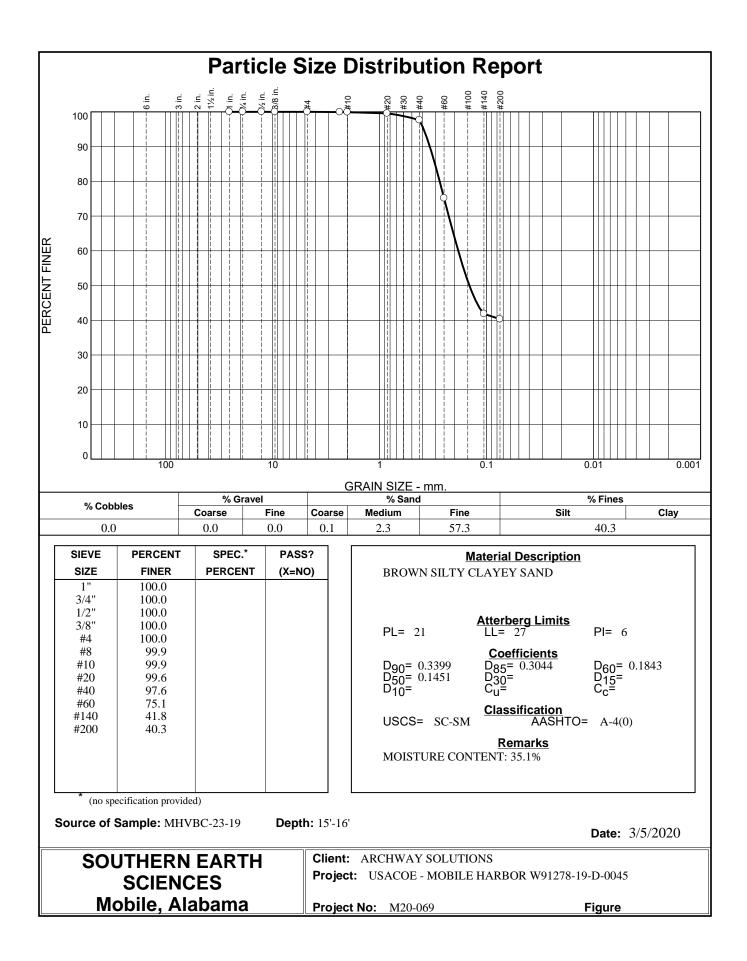
DP		GIC	)G (Cont. Sheet)	INSTAL						SHEET	
					ile Dis					<b>OF</b> 2	
PROJEC	ст										
000-			EQ	1				est - U.S. Survey Ft.	NAD83	l ML	LW
	ON COOF		= 142,744	ELEVA1		JP OF	BURIN	3			
ELEV.	DEPTH		CLASSIFICATION OF MATERIALS	-07.0	RĚC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE
						δ¤					<sup>mo</sup> ż
-								Advanced Boring			
-51.3	13.5							140# hammer	-		
- - - -			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
- - - -	- - -										
-	+ + + +										
_	+ + +										
-	+ + + +										
- -	+ + +										
-											
- - -	+ + +										
SAM F	ORM 1	836-	A AFTER ▼ DURING ▼ DRILLING ▼ DRILLING ▼					Boring De	esignation	SS-12	5

roject I.D.		-							Bo	oring Desig	gnation		/BC-2	23-19
DRILLING I	_OG	DIV	ISION	Sou	th Atlantic	IN	IST/	ALLA		Mobile	e Distric		EET 1 2 SI	HEETS
PROJECT						LAT	LONG	COORI	DINATES	LAT = 30	.3910328	LONG =	-88.0	19416
2020 Geoteo	hnical	Investiga	ation			STA	TE PL/	ANE CO	ORDINA	X = 1	,804,734	Y = 142	,584	
DATE OF BORIN			<i>START</i> 01-21-		<i>COMPLETED</i> 01-21-20					<b>ATUM/UNITS</b> Vest - U.S. S	Survey Et	HORIZ. NAD83		ert. LLW
DRILLING AGEN	CY	Corps	s of Engine							TOP OF B		GROU	ND WA	TER
NAME & TITLE OF			-					_	_	-45.0 F		_	lerwate	
M. Shekouh, G					CSI		broco				Ĺ			
DIRECTION OF BOR			DEG. FR VERTIC	ROM CAL	BEARING	SIZE	E AND	ТҮРЕ О	F BIT	See F	Remarks			
THICKNESS OF OV			N/A			тот		MBER	CORE B	DXES	0			
DEPTH TO TOP OF		DEN	N/A					MPLES			-	DISTURBEL	(חוו/ מ	0
TOTAL DEPTH OF E			19.5 Fee	at		-			Y FOR B		00 %	DICTORDED	(02)	0
			19.51 66	71			-				00 %		2	<u>ا</u>
LEV. DEPTH		CLASS	SIFICATION	I OF MAT	ERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING	BLOWS/	1 FT. N-VALUE
45.0 0.0														
45.5 0.5	(N so	IH) SILT, oft consiste	inorganic- ency, wet,	H, high dark gra	plasticity, very ly									
- 7	(C	H) CLAY,	, fat, high p , wet, gray	plasticity	/, soft									
† [	tra	aces of sar	nd	, morga	inic, with									
Ŧ														
1														
+														
+														
1														
Ţ														
1						100	1		v	ibracore				
											-200=	-50 Ft. 90%, PL=	=	
Į												.=59, PI= C=92%		
+														
Į														
†														
Ţ														
t V														
Į į					anal al U									
+	At	EI53.0 I	Ft. with fir	he sand	and shell						-200=	-53 Ft. 85%, PL=	-	
												.= 56, PI= C= 89%		
							1				1 ·			1
55.0 10.0														

DRILLING LO	G (Cont. Sheet)		LATION					SHEET OF 2	
PROJECT	-	_			M/DATI	м	HORIZONTAL	VERT	
						st - U.S. Survey Ft.	NAD83	ML	
OCATION COORDINATI	ES							•	
X = 1,804,734 Y	= 142,584	-45.	0 Ft.						
ELEV. DEPTH	CLASSIFICATION OF MATERIAL	.S	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT. N-VALUE
-57.0 12.0	(CL) CLAY, lean, low plasticity, soft consistency, wet, gray, with traces inorganic	of shell,							
-60.5 15.5	(CL-ML) CLAY, silty, low plasticity, consistency, wet, gray, sandy and s inorganic	soft silty,	100	1		Vibracore			
-62.5 17.5	(SC-SM) SAND, silty, clayey, low p loose, wet, gray, very clayey, with t shell	lasticity, races of					At El61 F -200= 40%, 21, LL= 27, 6, MC= 359	PL= PI=	
-64.5 19.5 1	(SM) SAND, silty, low plasticity, loo gray, with trace shell	se, wet,							
	NOTES: 1. Soils are field visually classified i accordance with the Unified Soils Classification System.	n							



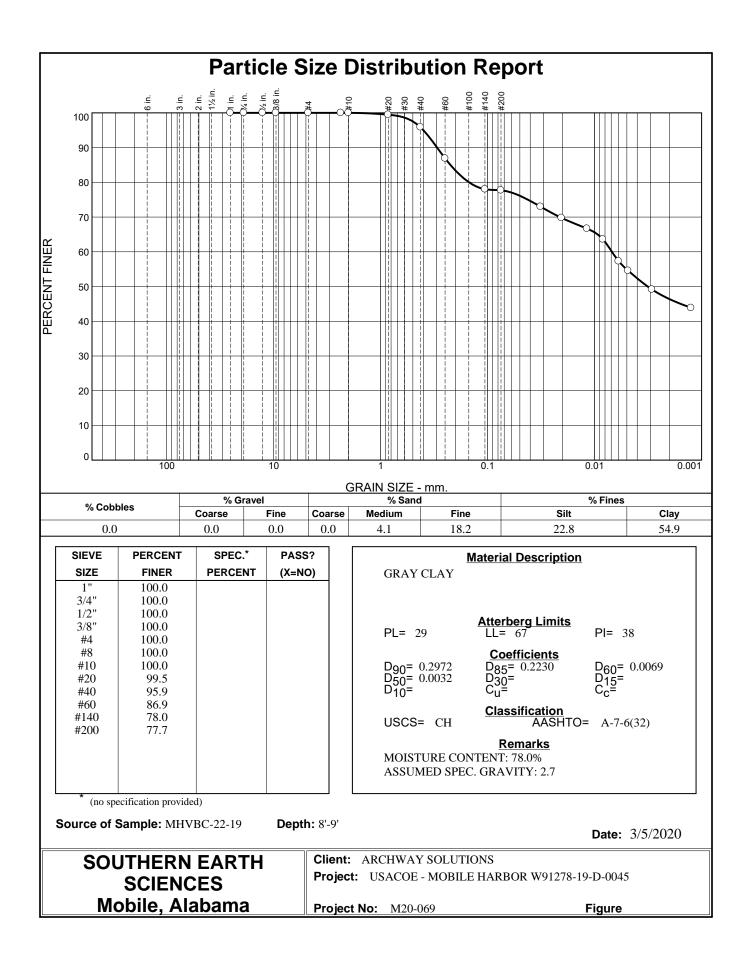


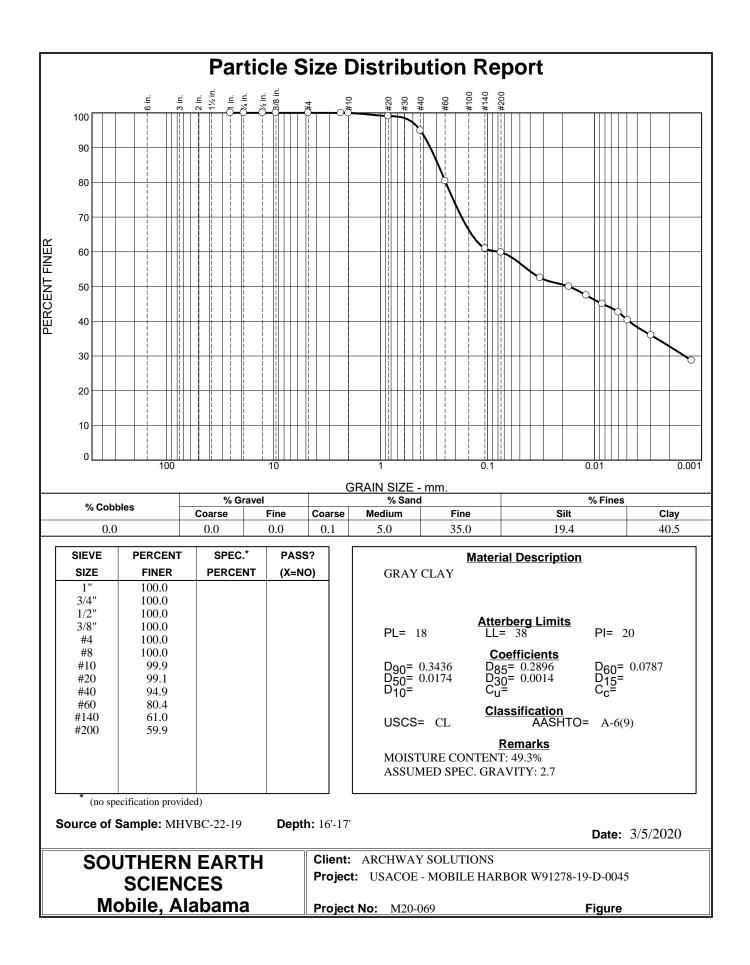


Project I.D.					Boring De	signation		/BC-22	<u>2-19</u>
DRILLING LOG DIVISION	South Atlantic	IN	IST/	LLA	TION Mol	oile Distric	t I	EET 1 2 She	ETS
PROJECT		LAT	LONG	COORE	LAT =	30.3874470	5 LONG	= -88.01	9663
2020 Geotechnical Investigation		STA	TE PLA	NE CO	ORDINATES X	= 1,804,650	Y = 141	,281	
DATE OF BORING STAR 01-2					<b>TEM/DATUM/UNI</b> Dama West - U.S		HORIZ. NAD83	VER MLL	
	neers - CESAM					F BORING	GROU	ND WATE	R
IAME & TITLE OF FIELD INSPECTOR	NAME OF DRILLER	MAN	UFAC	TURER'	-47 S DESIGNATION C	0 Feet	1	lerwater IAMMER	
M. Shekouh, Geotechnical Engineer	CSI	Vi	brocor	e					
IRECTION OF BORING DEG. F	ROM BEARING	SIZE	AND	ГҮРЕ О	<b>f bit</b> Se	e Remarks			
HICKNESS OF OVERBURDEN N/A		тот	AL NU	MBER (	ORE BOXES	0			
ертн то тор оf rock N/A		тот	AL SAI	MPLES	DISTURBED	1 <b>UN</b>	DISTURBEL	) (UD)	0
OTAL DEPTH OF BORING 19.5 Fe	et	тот	AL REG	COVER	Y FOR BORING	100 %			
	N OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMEN METHOD	T DI RI	RILLING EMARKS	BLOWS/ 1 FT.	N-VALUE
47.0 0.0									
At El48.8 Ft. with v (CH) CLAY, fat, high consistency, wet, gra	plasticity, soft y, inorganic	100	1		Vibracore	-200= 29, Ll 38, M	-55 Ft. = 77%, PL= L=67, PI= IC= 78%		
AM FORM 1836 UG 2017 AFTER DL DRILLING DF	RING ⊻ (C	ontinue	ed)		<i>Boring</i> nendment No	Designati	ion <b>M</b> H	IVBC-2	22

DR	ILLIN	G LO	)G (Cont. Sheet)	INSTAL	LATION ile Dis			oring Designatio		SHEET OF 2	2	9 FTS
PROJEC			· · ·	COORD			M/DAT	IM	HORIZONTAL		TICAL	
ROJE	~1							est - U.S. Survey Ft.			LLW	-
	ON COOF	RDINAT	ES	ELEVAT								
			= 141,281	-47.0								
	DEPTH		CLASSIFICATION OF MATERIALS			XX OR MPLE			DRILLIN REMARK	G	.ows/ FT.	ALUE
ELEV.	DEPTH	TEGEND			<b>RĚC.</b>	L BOX OR SAMPLE	ROP OJD	ADVANCEMENT	At El63 F -200= 59%, 18, LL= 38, 20, MC= 49	t. PL= PI=	BLOWS/ 1 FT.	N-VALUE
	+ - - - - - - - - - - - - - - - - - - -	836-/	DRILLING - DRILLING -	and in it				<i>Boring De</i> nendment No. V	esignation	MHVE		2-′

DR	ILLIN	G LO	)G (Cont. Sheet)	INSTAL	LATION ile Dis			oring Designatio		SHEET OF 2	2	9 FTS
PROJEC			· · ·	COORD			M/DAT	IM	HORIZONTAL		TICAL	
ROJE	~1							est - U.S. Survey Ft.			LLW	-
	ON COOF	RDINAT	ES	ELEVAT								
			= 141,281	-47.0								
	DEPTH		CLASSIFICATION OF MATERIALS			XX OR MPLE			DRILLIN REMARK	G	.ows/ FT.	ALUE
ELEV.	DEPTH	TEGEND			<b>RĚC.</b>	L BOX OR SAMPLE	ROP OJD	ADVANCEMENT	At El63 F -200= 59%, 18, LL= 38, 20, MC= 49	t. PL= PI=	BLOWS/ 1 FT.	N-VALUE
	+ - - - - - - - - - - - - - - - - - - -	836-/	DRILLING - DRILLING -	and in it				<i>Boring De</i> nendment No. V	esignation	MHVE		2-′





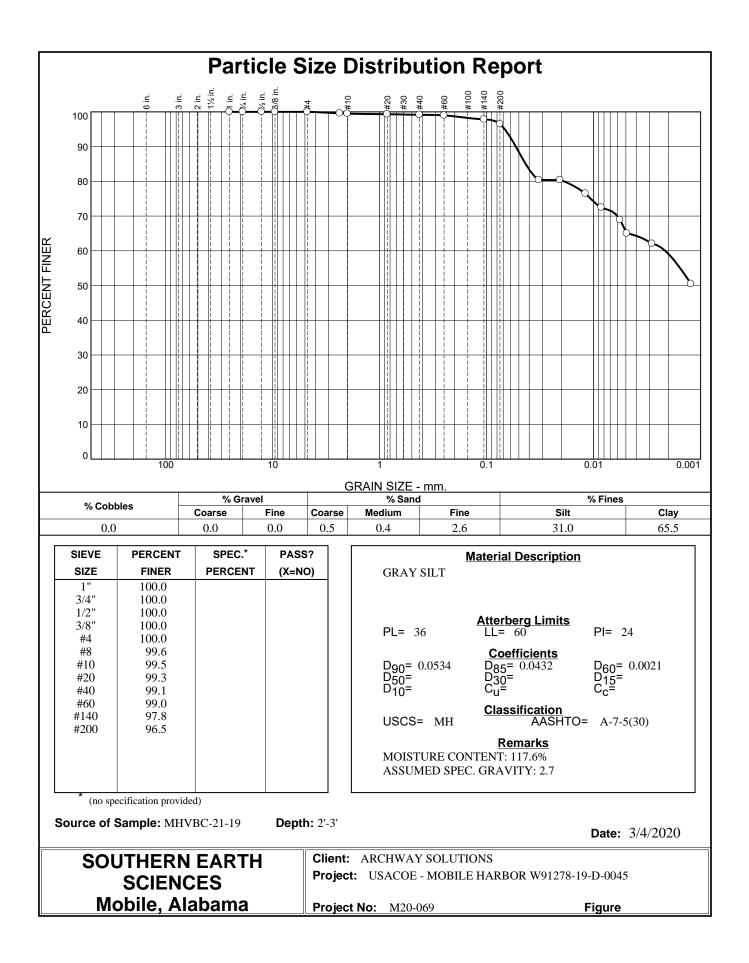
ROJECT         1963-1964 Subsurface Investigation         STARTED       COMPLETED         STARTED       COMPLETED         STARTED       COMPLETED         NTE OF BORING       Corps of Engineers - CESAM         MME & TITLE OF FIELD INSPECTOR       NAME OF DRILLER         N/A, Geologist       N/A       PECTION OF BORING       DEG. FROM       BEARING         ICKNESS OF OVERBURDEN       N/A       PTH TO TOP OF ROCK       N/A       PTH TO TOP OF ROCK       N/A         TAL DEPTH OF BORING       24.5 Feet         SV.       DEPTH       Q       CLASSIFICATION OF MATERIALS         S.8       0.0       (CH) CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	STA COO State MAN N/ SIZE TOT	RDINA Plane LEVA UFACT A AND T AL NUI	ANE CO TE SYS 2 - Ala ATION TURER TYPE O MBER ( MPLES	bama V NS S DESIG OF BIT CORE BC V FOR B ADV	LAT = 30.3.3         ATES       X = 1,8         ATUM/UNITS         West - U.S. Suu         TOP OF BOI         -26.8 Fe         GNATION OF DR         See Re         OXES       0         ISTURBED       0	04,288 rvey Ft. Ring eet iiiL [ emarks t Record	LONG = - Y = 140 HORIZ. NAD83 GROU Unc	,796 VE ML WD WA7 derwate HAMMEI	0805 ERT. LLW FER Er R MER
STARTED     COMPLETED       RILLING AGENCY     Corps of Engineers - CESAM       ME & TITLE OF FIELD INSPECTOR N/A, Geologist     NAME OF DRILLER N/A, Geologist       VERTICAL     INCLINED       VERTICAL     INCLINED       ICKNESS OF OVERBURDEN     N/A       PTH TO TOP OF ROCK     N/A       TAL DEPTH OF BORING     24.5 Feet       S.8     0.0       (CH)     CLASSIFICATION OF MATERIALS       (CH)     CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	COO State MAN N/ SIZE TOT. TOT.	RDINA Plane LEVA UFACT A AL NUT AL SAT	ATE SYS e - Ala ATION TURER TYPE O MBER ( MPLES COVER	STEM/DA bama V NS S DESIG OF BIT CORE BG Y FOR B	ATES X = 1,8 ATUM/UNITS Nest - U.S. Su TOP OF BO -26.8 Fe GNATION OF DR See Re OXES 0 ISTURBED 0 SORING NOT	04,288 rvey Ft. Ring eet iiiL [ emarks t Record	Y = 140 HORIZ. NAD83 GROUJ Unc AUTO H MANUA	,796 ML <i>ND WAT</i> derwate HAMMEI AL HAMI	ERT. _LW TER er R MER
STARTED     COMPLETED       RILLING AGENCY     Corps of Engineers - CESAM       ME & TITLE OF FIELD INSPECTOR N/A, Geologist     NAME OF DRILLER N/A, Geologist       VERTICAL     INCLINED       VERTICAL     INCLINED       ICKNESS OF OVERBURDEN     N/A       PTH TO TOP OF ROCK     N/A       TAL DEPTH OF BORING     24.5 Feet       S.8     0.0       (CH)     CLASSIFICATION OF MATERIALS       (CH)     CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	State MAN N/ SIZE TOT. TOT.	Plane LEVA UFACT A A AL NUT AL SAT	e - Ala ATION TURER TYPE O MBER ( MPLES COVER	bama V NS S DESIG OF BIT CORE BC V FOR B ADV	ATUM/UNITS West - U.S. Su TOP OF BO -26.8 Fe GNATION OF DR See Re OXES 0 ISTURBED 0 SORING Not ANCEMENT METHOD	rvey Ft. <b>RING</b> set <b>IILL</b> [ cmarks t Record	HORIZ. NAD83 GROU Unc AUTO H MANUA	ML ML MD WA7 derwate HAMMEI AL HAMI	LW FER R MER 0
RILLING AGENCY       Corps of Engineers - CESAM         IME & TITLE OF FIELD INSPECTOR N/A, Geologist       NAME OF DRILLER N/A         RECTION OF BORING       DEG. FROM VERTICAL       BEARING         INCLINED       DEG. FROM VERTICAL       BEARING         ICKNESS OF OVERBURDEN       N/A       MA         PTH TO TOP OF ROCK       N/A       Maximum         TAL DEPTH OF BORING       24.5 Feet       CLASSIFICATION OF MATERIALS         S.8       0.0       (CH) CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	E MAN N/ SIZE TOT, TOT,	LEVA	ATION TURER TYPE O MBER ( MPLES COVER	VS S DESIG OF BIT CORE BC DI Y FOR B ADV	TOP OF BO -26.8 Fe GNATION OF DR See Re OXES 0 ISTURBED 0 ISTURBED 0 ISTURBED 0 ISTURBED 0 ISTURBED 0 ISTURBED 0 ISTURBED 0	RING eet IILL [ emarks k Record	GROU Unc AUTO H MANUA	ND WA7 derwate HAMMEI AL HAMI	rer R MER
ME & TITLE OF FIELD INSPECTOR       NAME OF DRILLER         N/A, Geologist       N/A         RECTION OF BORING       DEG. FROM VERTICAL       BEARING         INCLINED       INCLINED       DEG. FROM VERTICAL       BEARING         ICKNESS OF OVERBURDEN       N/A       N/A         PTH TO TOP OF ROCK       N/A       N/A         TAL DEPTH OF BORING       24.5 Feet       State of the state of	MAN N/ SIZE TOT. TOT.	A A AL NUI AL SAN	TURER TYPE O MBER ( MPLES COVER	S DESIG	-26.8 Fe GNATION OF DR See Re OXES 0 ISTURBED 0 SORING Not	eet IILL [ [ marks www. t Record	Unc AUTO H MANUA	derwate HAMMEI AL HAMI	er R MER
N/A, Geologist     N/A       RECTION OF BORING     DEG. FROM VERTICAL     BEARING       ICKNESS OF OVERBURDEN     N/A       ICKNESS OF OVERBURDEN     N/A       PTH TO TOP OF ROCK     N/A       TAL DEPTH OF BORING     24.5 Feet       EV.     DEPTH       B     CLASSIFICATION OF MATERIALS       5.8     0.0       ICCH)     CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	N/ SIZE TOT. TOT.	A AND 1 AL NUI AL SAN	TYPE O MBER ( MPLES COVER	OF BIT CORE BO Y FOR B ADV	See Re oxes 0 isturbed 0 soring Not /ANCEMENT METHOD	emarks un t Record	MANUA	AL HAMI D <i>(UD)</i>	0
DECTION OF BORING       DEG. FROM VERTICAL       BEARING         INCLINED       INCLINED       N/A         ICKNESS OF OVERBURDEN       N/A         PTH TO TOP OF ROCK       N/A         TAL DEPTH OF BORING       24.5 Feet         SV.       DEPTH         B       CLASSIFICATION OF MATERIALS         S.8       0.0         (CH)       CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	SIZE TOT. TOT. TOT.	AND 1 AL NUI AL SAM	MBER ( MPLES COVER	Y FOR B	OXES 0 ISTURBED 0 BORING Not MANCEMENT	<b>UN</b> t Record	<b>DISTURBED</b> led	(םט) ס	0
✓ VERTICAL □ INCLINED         ICKNESS OF OVERBURDEN       N/A         PTH TO TOP OF ROCK       N/A         TAL DEPTH OF BORING       24.5 Feet         EV.       DEPTH       G         G.8       0.0       0.0         ICCLASSIFICATION OF MATERIALS       CLASSIFICATION of MATERIALS         CLASSIFICATION OF MATERIALS       CLASSIFICATION OF MATERIALS	тот, тот, тот,	AL NUI AL SAN AL REC	MBER ( MPLES COVER	Y FOR B	OXES 0 ISTURBED 0 BORING Not MANCEMENT	<b>UN</b> t Record	led		-
PTH TO TOP OF ROCK       N/A         TAL DEPTH OF BORING       24.5 Feet         EV.       DEPTH       Guine       CLASSIFICATION OF MATERIALS         S.8       0.0       (CH)       CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	тот, тот,	AL SAN	MPLES COVER	Y FOR B	ISTURBED 0 BORING Not VANCEMENT METHOD	UN t Record	led		-
TAL DEPTH OF BORING       24.5 Feet         EV.       DEPTH       B         CLASSIFICATION OF MATERIALS         5.8       0.0         (CH)       CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	тот	AL REC	COVER	ADV	SORING Not	t Record	led		-
EV.     DEPTH     E       S.8     0.0       (CH)     CLASSIFICATION OF MATERIALS				ADV	ANCEMENT METHOD				U.5 FT. N-VALUE
5.8 0.0 (CH) CLAY, fat, high plasticity, very soft consistency, wet, gray, organic	RÉC.	BOX OR SAMPLE	ROD OR UD						N-VALUE
(CH) CLAY, fat, high plasticity, very soft consistency, wet, gray, organic				Adva	inced Boring				
	NR				-3/8" I.D. elby Tube				
				Adva	inced Boring				
T FORM 1836 AFTER ▼ DURING ▼ (Col 2017 DRILLING ▼ DRILLING ▼ (Col	ontinue				Boring Des			 -127	

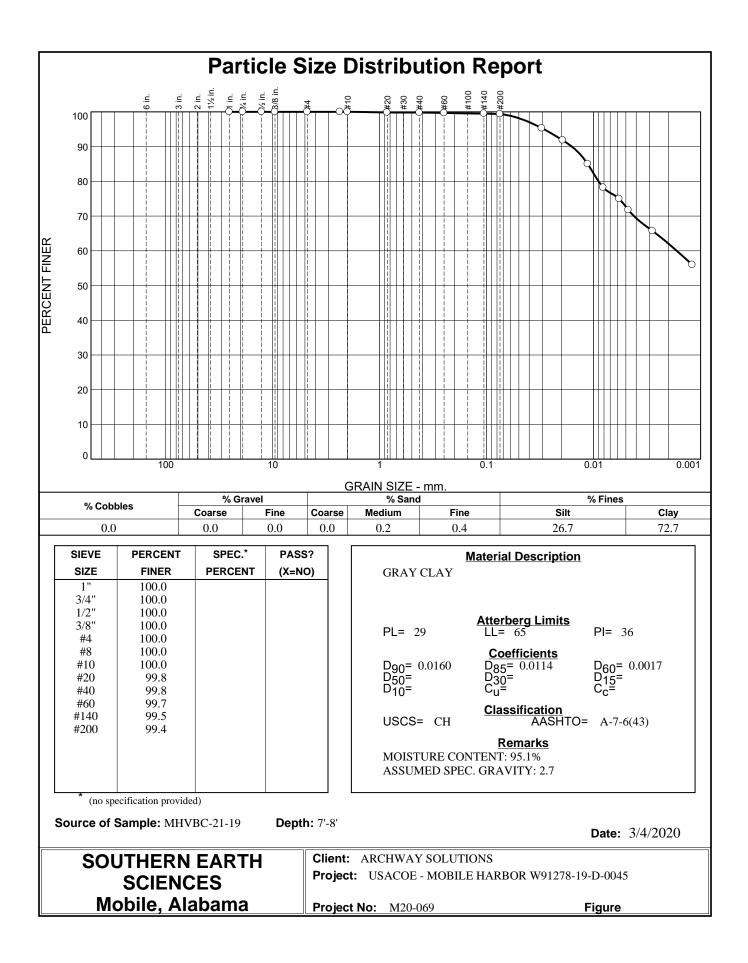
DRI		G LOG	(Cont. Sheet)	INSTALLA						SHEET 2	
			(	Mobile						OF 3 SH	
ROJEC	т			COORDINA State Plan						VERTIC. MLLW	
004710	ON COOR			ELEVATIO				est - U.S. Survey Ft.	NAD83		
		3 Y = 1	40,796	-26.8 F			JURING				
	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	<u> </u>	ес.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLING REMARK	00 BLOWS/	N-VALUE
+	-							Advanced Boring			
ļ	-									0	
+	-			1	NR			SPT Sampler		0	0
	-							Advanced Boring			
+	-			1	NR			SPT Sampler		0 0 0	- 0
								Advanced Boring			
+	ORM 1		AFTER ▼ DURING ▼ DRILLING ▼	1	NR			SPT Sampler		0	- 0

	(Cont Chart)	INSTALL		1		oring Designatio		SHEET	3
DRILLING LOG	(Cont. Sneet)	Mobi	le Dist	trict				OF 3	SHEETS
PROJECT		COORDI					HORIZONTAL		TICAL
						est - U.S. Survey Ft.	NAD83	ML	LW
<b>LOCATION COORDINATES</b> $X = 1,804,288$ $Y = 7$		<b>ELEVAT</b> -26.8		OP OF	BORIN	G			
ELEV. DEPTH	CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G (S	BLOWS/ 0.5 FT. N-VALUE
			NR			SPT Sampler			0
-51.3 24.5					1	Advanced Boring	1	F	
- N - 1 - 1	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
	AFTER ▼ DURING ▼ DRILLING ▼ DRILLING					Revine D	esignation	 SS-12	_

roject I.D.							Bo	oring Desig	nation		BC-21	1-19
DRILLING LOG	DIVISION	South A	tlantic	IN	IST/	ALLA		Mobile	District		ET 1 2 She	EETS
PROJECT				LAT	LONG	COORI	DINATES	LAT = 30.3	38217045	LONG =	-88.02	20737
2020 Geotechnical	Investigation			STA	TE PLA	ANE CO	ORDINA	<b>TES</b> X = 1,8	304,303	Y = 139,3	863	
DATE OF BORING	<b>START</b> 01-22-		<b>MPLETED</b> 1-22-20					<b>TUM/UNITS</b> Vest - U.S. Su	urvev Ft.	<i>horiz.</i> NAD83	VER MLL	
DRILLING AGENCY	Corps of Engine							TOP OF BO	DRING	GROUN	D WATE	ER
NAME & TITLE OF FIELD IN	SPECTOR	NAME OF D	RILLER	MAN	IUFAC <sup>.</sup>	TURER	'S DESIG	-49.0 Fe			erwater	
C. Long, Geotechnic	<u> </u>	CS	EARING	Vi	broco	re					. НАММ	ER
	LINED DEG. FR		EARING	SIZE	AND .	ТҮРЕ О	F BIT	See R	emarks			
THICKNESS OF OVERBURD	en N/A			тот	AL NU	MBER (	CORE BO	DXES (	)			
DEPTH TO TOP OF ROCK	N/A			тот	AL SAI	MPLES	DI	<b>STURBED</b> 1	UND	ISTURBED	(UD)	0
TOTAL DEPTH OF BORING	19.0 Fee	t		тот	AL RE	COVER	Y FOR B	oring 10	0 %			
	CLASSIFICATION	OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DRI REM	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
49.0 0.0	H) SILT, inorganic-l											
sof	t consistency, wet, o	dark gray	icity, very									
± 1111												
+												
<b>†      </b>									At El	51 Ft. 96%, PL=		
									36, LL:	= 60, PI= C= 117%		
± 1111									,			
53.0 4.0				4								
cor	<ul> <li>CLAY, fat, high p nsistency, wet, dark od and shell, inorga</li> </ul>	gray, with ti	races of									
	ou anu sheli, morga	nic		100	1			ibracore				
Ŧ M							v	IDIacole				
$\downarrow$									At El	56 Et		
									-200=	99%, PL= = 65, PI=		
										= 03, 11= C= 95%		
+												
‡ 💋												
† 💋												
+												
+ / / / / / / / / / / / / / / / / / / /				ontinue				Boring De				
											BC-2	×

DR	ILLIN	G LC	)G (Cont. Sheet)	INSTALL						SHEET	
			. ,		le Dist		M/D 4		HODIZOVILY	OF 2	
ROJE				COORDI				им est - U.S. Survey Ft.	HORIZONTAL NAD83	VERT MLI	
OCAT			ES								
			= 139,363	-49.0			bonnit	-			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	<u>ç</u>	BLOWS/ 1 FT. N-VALUE
-65.0 -68.0		TEGE	CLASSIFICATION OF MATERIALS  (CL) CLAY, lean, low plasticity, soft consistency, wet, dark gray, with sand NOTES:  1. Soils are field visually classified in accordance with the Unified Soils Classification System.	1	<b>RĚC.</b> 100	1 Box		Vibracore		55	BLOV 1 F





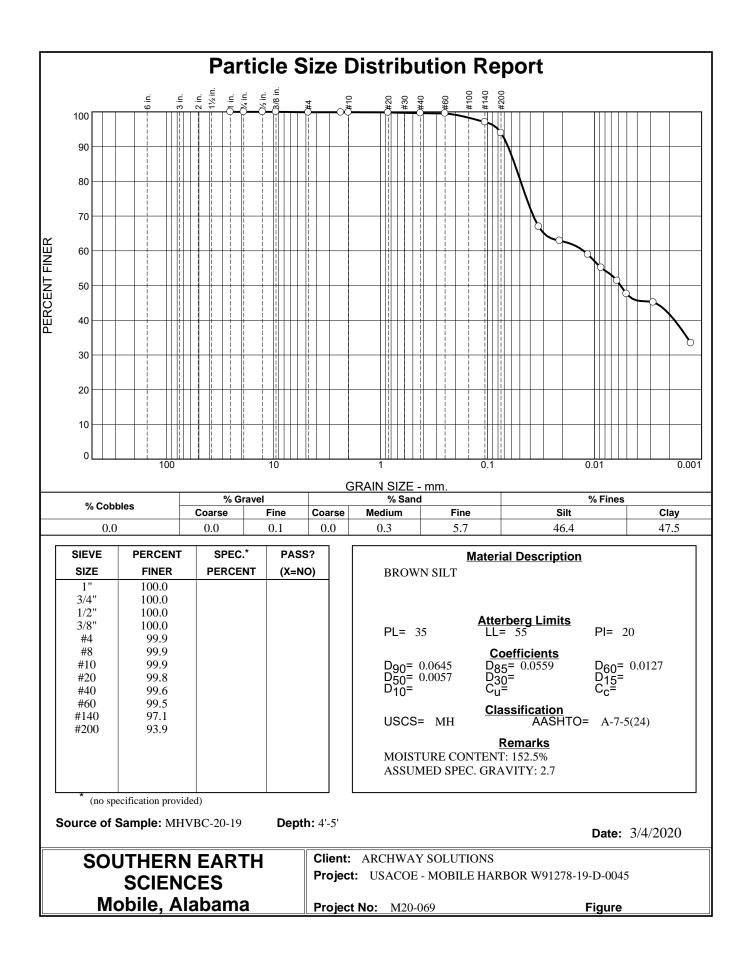
Projec	t I.D.										Вс	oring Desig	nation			SS-	129
DRI	LLIN	g lo	G	DIV	ISIO	N So	uth Atlantic	IN	IST/	ALLA	ΤΙΟΙ	Mobile	Distric	t	SHEE OF 3		EETS
PROJ	ЕСТ							LAT	LONG	COORI	DINATE	LAT = 30.3	80466	LONG	G = -88	.0198	859
19	63-196	4 Sub	surfac	e Inve	estigatio	on		STA	TE PL/	NE CO	ORDINA	<b>TES</b> X = 1,8	04,577	Y =	138,74	2	
DATE	OF BOI	RING			STA	ARTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Su	nyoy Et		<b>r<i>iz.</i></b> D83	VER MLL	
DRILI	ING AG	ENCY		Corps	s of En	gineers -	L CESAM					TOP OF BO	RING	GI	ROUND	WATE	R
	& TITLE					-				_	-	-27.8 Fe		<u> </u>	Under		
	Ν	/A, Ge	eologist	t			N/A	N	Ά				1		TO HAN		
	FION OF			1ED	DEG. VER	. FROM	BEARING	SIZE	AND	ТҮРЕ О	F BIT	See Re	emarks				
	NESS OF				N/A			тот	AL NU	MBER (	CORE B	DXES ()					
DEPTH	то тор	OF ROO	ск		N/A			тот	AL SAI	MPLES	D	STURBED ()	UN	DISTUR	RBED (U	( <b>D</b> )	0
ΤΟΤΑΙ	DEPTH	OF BOR	ING		23.5 F	Feet		тот	AL RE	COVER	Y FOR E	ORING NO	t Record	led			
ELEV.	DEPTH	LEGEND		CLASS	SIFICAT	ION OF MA	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING	9	BLOWS/ 0.5 FT.	N-VALUE
<u>-27.8</u> -	0.0		(CH)	CLAY,	, fat, hiç	gh plastici ray, orga	ity, very soft										
-	-		CONSI	stericy,	wet, gi	ay, orga	TIIC										
-	-																
-	-																
-	-																
-	-										Adva	nced Boring					
-	-																
_	-																
-	-																
-	-																
-	-																
-	-															0	
-	-											T.Commiss					
-	-							NR			5P	T Sampler				0	0
-	-															0	
-	-																
-	-																
-	L																
-	-																
-	-										Adva	nced Boring					
-	-																
-	-																
-	-																
-	-																
	F							NR			SP	T Sampler				0	
-	ORM 1			FTER RILLING		DURING DRILLING	<u>∑</u> (C	continue				Boring De			SS-1		

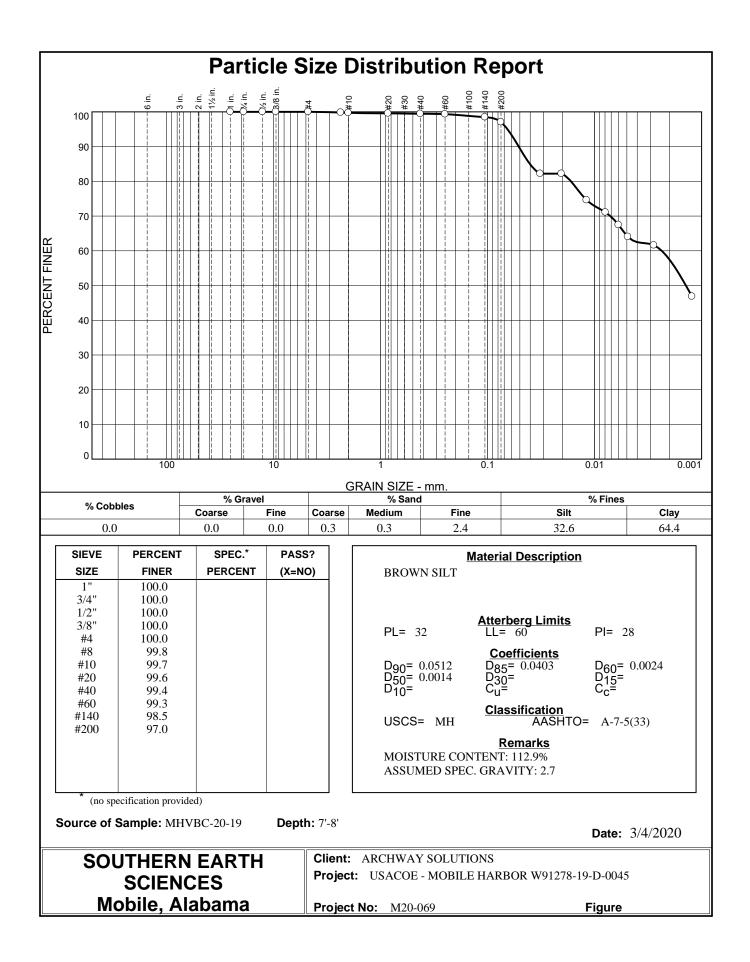
DRI	LLING	LOG (	Cont. Sheet)	INSTAL			В			SHEET 2	
				1	ile Dist					OF 3 S	
PROJEC	т										
								est - U.S. Survey Ft.	NAD83	MLL	/V
	<b>on coordi</b> 1,804,577		740	<b>ELEVAT</b>		OP OF	BORING	j			
ELEV.			CLASSIFICATION OF MATERIALS	-27.0	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	SW0	0.5 FT.
					REU.	BO	UD	METHOD			
-					NR			SPT Sampler		0	0
- - - - - - - - - - - - - - - - - - -								Advanced Boring			
-					NR			SPT Sampler		0	0
								Advanced Boring			
					NR			SPT Sampler		0	0
- - - - - -51.3	23.5							Advanced Boring			
	ORM 18:		AFTER ▼ DURING ∑ DRILLING ▼ DRILLING		ontinue	0		<b>_</b> · _	d Signation	SS-129	

DRILI	LING L	.OG (Cont. Sheet)	INSTAL						SHEET	
				ile Dis					<b>OF</b> 3	
ROJECT			COORD					HORIZONTAL NAD83		'ICAL LW
OCATION	COOPDIN	ATES					est - U.S. Survey Ft.	INADOS		
		Y = 138,742	-27.			BORIN	3			
		CLASSIFICATION OF MATERIALS	•	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G (S	BLOWS/ 0.5 FT. N-VALUE
		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

Project I.D									Bo	oring Desig	nation		BC-2(	)-19
DRILLI	NG LO	DG D	IVISION	Sout	h Atlantic	IN	IST/	ALLÆ		Mobile	District		ET 1 2 SH	EETS
PROJECT						LAT	/LONG	COORI	DINATES	<b>5</b> LAT = 30.3	37679681	LONG =	-88.02	21088
2020 G	eotech	nical Inves	tigation			STA	TE PL/	ANE CO	ORDINA	<b>XTES</b> X = 1,8	304,183	Y = 137,4	409	
DATE OF E	BORING		<i>STAR</i> 01-22		<i>COMPLETED</i> 01-22-20					<b>ATUM/UNITS</b> Vest - U.S. Si	urvev Ft.	<i>horiz.</i> NAD83	VEI MLI	
DRILLING	AGENC	Y C	orps of Engir							TOP OF BC	DRING	GROUN	D WATE	R
NAME & TIT	LE OF FI	ELD INSPECT	OR	NAME	OF DRILLER	MAN	UFAC	TURER	'S DESIC	-48.0 Fe			erwater	
C. Long		echnical Eng	5	POM	CSI BEARING	Vi	broco	re					- HAMM	ER
		] INCLINED	DEG. F VERTI	CAL	DEANING	SIZE	AND	ТҮРЕ О	F BIT	See R	emarks			
THICKNESS	OF OVER	RBURDEN	N/A			тот	AL NU	MBER	CORE B	OXES (	)			
<b>DEPTH TO T</b>	OP OF R	оск	N/A			тот	AL SA	MPLES	D	ISTURBED 1	UND	DISTURBED	(UD)	0
TOTAL DEP	TH OF BO	RING	18.0 Fe	et		тот		COVER	Y FOR E	<b>BORING</b> 10	0 %			
ELEV. DEP	LEGEND	CL	ASSIFICATIO	N OF MATE	ERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR REI	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
-48.0 0.0			<b>T</b> in a market	11.65-06-0	1 41 - 14									
ţ		soft cons	sistency, wet,	dark gray	lasticity, very /									
ţ														
ł														-
Ŧ														-
Ţ														
ţ														
Ŧ														-
Ŧ														
‡												50 54		
ţ												94%, PL=		
ł						100	4			(ib wa a a wa	20, MC	= 55, PI= C= 152%		
Ŧ						100	1			libracore				
ţ														
Ŧ			1.0 Ft., high p		soft									
ł		consister	ncy, wet, darl	k gray										
‡.														
ł												97%, PL=		
Ŧ											32, LL 28, MC	= 60, PI= C= 113%		
ţ														
ł														
Ŧ														
+														
Ļ														

DRILLING L	OG (Cont. Sheet)	INSTALL Mobil			В			SHEET OF 2	
PROJECT		COORDI			M/DAT	IM	HORIZONTAL	VERT	
						est - U.S. Survey Ft.	NAD83	MLI	
OCATION COORDINA		ELEVATI							
X = 1,804,183		-48.0							
ELEV. DEPTH	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT. N-VALUE
-64.0 16.0 -66.0 18.0	(SC) SAND, clayey, soft consistency, dark gray	wet,	100	1		Vibracore			
	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.								





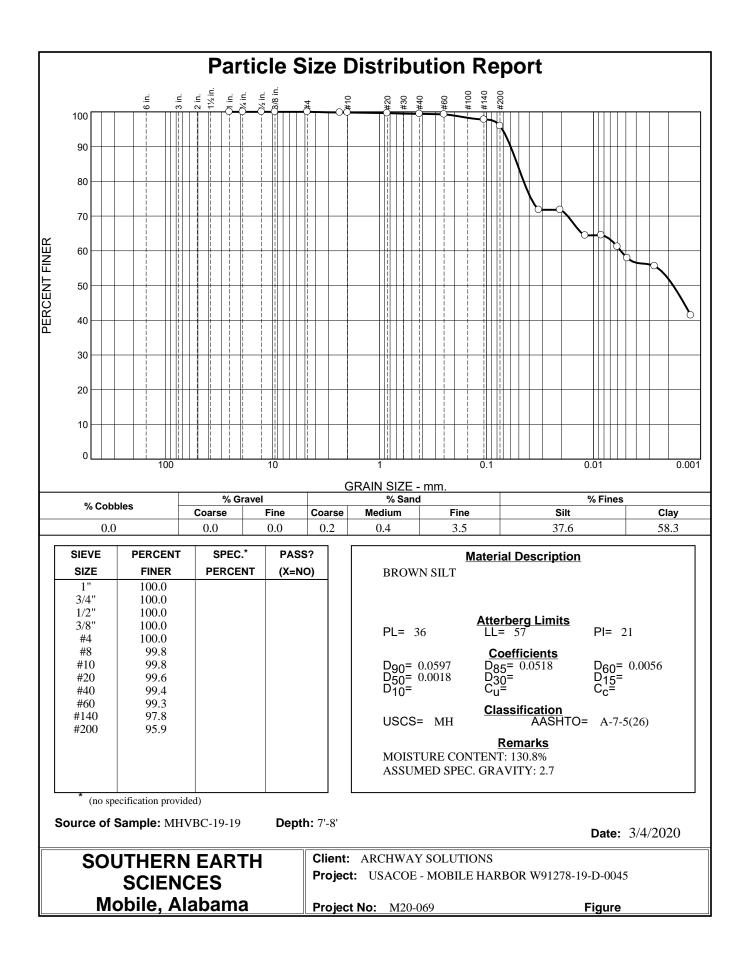
rojec	t I.D.										Bo	oring Design	ation			SS-	131
DRI		G LO	G	DIV	ISION	So	uth Atlantic	IN	ISTA	<b>ALLA</b>	ΤΙΟΙ	Mobile [	Distric	t	SHEE OF 3		ETS
PROJ	ECT		<b>!</b>					LAT	LONG	COORI	DINATE	LAT = 30.37	75196	LONG	= -88	.0223	78
19	63-196	4 Subs	surfac	e Inve	stigatio	n		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,80	)3,774	Y = 1	136,82	9	
	OF BO					RTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Sur		HOR NAC		VER Mll	
DRILI		ENCY		Corps	s of Eng	ineers - (	L CESAM					TOP OF BOR	RING	GR	OUND	WATE	
	& TITLE		D INSP									-25.8 Fee			Underv <b>FO HAN</b>		
		I/A, Ge	-	t			N/A	N/	Ά				Ĭ		NUAL H		ER
	TION OF			NED	DEG. VER	FROM FICAL	BEARING	SIZE	AND	ТҮРЕ О	FBIT	See Rei	marks				
тніск	NESS OF	OVERB	URDEN	4	N/A			тот		MBER (	CORE B	OXES 0					
DEPTH	і то тор	OF ROC	ĸ		N/A			тот	AL SAI	MPLES	D	STURBED ()	UN	DISTUR	BED (U	<i>(</i> <b>D</b> )	)
ΓΟΤΑΙ	DEPTH	OF BORI	ING		25.5 F	eet		тот	AL REG	COVER	Y FOR E	oring Not	Record	ed			
ELEV.	DEPTH	LEGEND		CLASS	SIFICATIO	ON OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING		BLOWS/ 0.5 FT.	N-VALUE
<u>-25.8</u>	0.0		(CH)	CLAY,	fat, hig	h plastici	ty, very soft										
	ł		consi	stency,	wet, gra	ay, orga	nic										
-	t F																
	ł										Adva	nced Boring					
-	+																
-	+																
	ł															0	
-	-										0.0	TOwnship				-	
	ŧ							NR			5P	T Sampler				0	0
-	+															0	
	ł																
-	ł																
-	+																
•	ł										Adva	nced Boring					
-	-											g					
	F																
-	ļ.																
-	t																
	ł															0	
-	ŧ							NR			SP	T Sampler				0	
	ţ															0	0
-	╞							<u> </u>								0	
	ţ										Adva	nced Boring					
	<u> </u>																
AM F JG 201	ORM 1	1836	A	FTER RILLING		URING RILLING	<u>√</u> (C	ontinue	ed)			Boring Des	ignati	on	SS-1:	31	

DRILLING LOG (Cont. Sheet)	INSTALLATIO					SHEET	
	Mobile Dis			I		OF 3 S	
ROJECT	COORDINATE			<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERTI MLL	
DCATION COORDINATES	ELEVATION T				INALUUJ		
X = 1,803,774 Y = 136,829	-25.8 Ft.		201010	-			
	s R <sup>%</sup> C.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS 0.5 FT. N-VALUE
				Advanced Boring			
	NR		-	SPT Sampler			0 0 0
				Advanced Boring			
	NR			SPT Sampler			0 0 0
				Advanced Boring			
AM FORM 1836-A AFTER DURING DRILLING DRILLING	NR			SPT Sampler		-	0 0 0

DR	ILLIN	G LC	)G (Cont. Sheet)	INSTAL						SHEET		_
					ile Dist		M/D /		HORIZONI		SHEET	5
ROJE				COORD				ым est - U.S. Survey Ft.	HORIZONTAL NAD83		LW	
OCATI		RDINAT	ES	ELEVAT								-
X =	1,803,77	74 Y	= 136,829	-25.8	3 Ft.							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE	
	-				NR			SPT Sampler	_		0	_
	+ + +							Advanced Boring				
- -51.3	25.5											
-			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).				
- - -	+ + +											
-												
-	+ + +											
-	+ + +											
-	+ + + +											
-												
AM F JG 201	ORM '	1836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼					Boring De	esignation	SS-13	1	

									Bo	oring Desig	nation		BC-19	9-19
DRILLING L	.0G	DIVI	SION	South	n Atlantic	IN	ISTA	ALLA		Mobile	District		EET 1 2 Shi	EETS
PROJECT						LAT/	LONG	COORI	DINATES	LAT = 30.3	37144584	LONG :	= -88.02	22252
2020 Geotecl	hnical Ir	nvestiga	tion			STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	803,807	Y = 135,	465	
DATE OF BORING			<i>STARTE</i> 01-22-2		<i>COMPLETED</i> 01-22-20					<b>TUM/UNITS</b> Vest - U.S. Su	urvov Et	<i>HORIZ.</i> NAD83	VEI MLI	
DRILLING AGEN	CY	Corps	of Engine							TOP OF BO	ORING	GROUN	ID WATE	R
NAME & TITLE OF F					OF DRILLER	MAN	UFAC	TURER	'S DESIG	-47.0 F		Und <b>АUTO Н</b>	erwater	
C. Long, Geo		I Enginee			CSI	Vi	brocor	re						
DIRECTION OF BOR		INED	DEG. FRO VERTICA		BEARING	SIZE	AND	ТҮРЕ О	FBIT	See R	emarks			
THICKNESS OF OVE	ERBURDE	IN I	N/A			тот	AL NU	MBER (	CORE BO	DXES (	)			
DEPTH TO TOP OF I	ROCK		N/A			тот	AL SAI	MPLES	DI	<b>STURBED</b> 1	UNL	DISTURBED	(UD)	0
FOTAL DEPTH OF B	ORING		19.0 Feet			тот	AL REG	COVER	Y FOR B	ORING 10	0 %			
LEV. DEPTH		CLASS	IFICATION	OF MATE	RIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DR RE	RILLING MARKS	BLOWS/ 1 FT.	N-VALUE
-47.0 0.0	(MH soft	) SILT, ir consister	norganic-H ncy, wet, d	l, high pl ark gray	asticity, very ,									
						100	1		v	ibracore				
						1					1			
											-200= 36, LL	-54 Ft. 95%, PL= = 57, PI= C= 130%		

DRILLING LC	)G (Cont. Sheet)							SHEET	
	······································	Mobile						OF 2	
ROJECT		COORDIN					HORIZONTAL NAD83		'ICAL LW
		1				est - U.S. Survey Ft.	ΙΝΑΔΟ3	IVIL	
OCATION COORDINAT X = 1,803,807 Y		<b>ELEVATIC</b> -47.0		PP OF I	BURING				
	- 100,400	<u>-47.01</u>	г.	<b>6</b> 111					
ELEV. DEPTH	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 1 FT. N-VALUE
-66.0 19.0	(CL) CLAY, lean, low plasticity, soft consistency, wet, dark gray, inorgainc (SC) SAND, clayey, soft consistency, dark gray, inorganic At El64.5 Ft. with shell	;	100	1		Vibracore			
	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.								

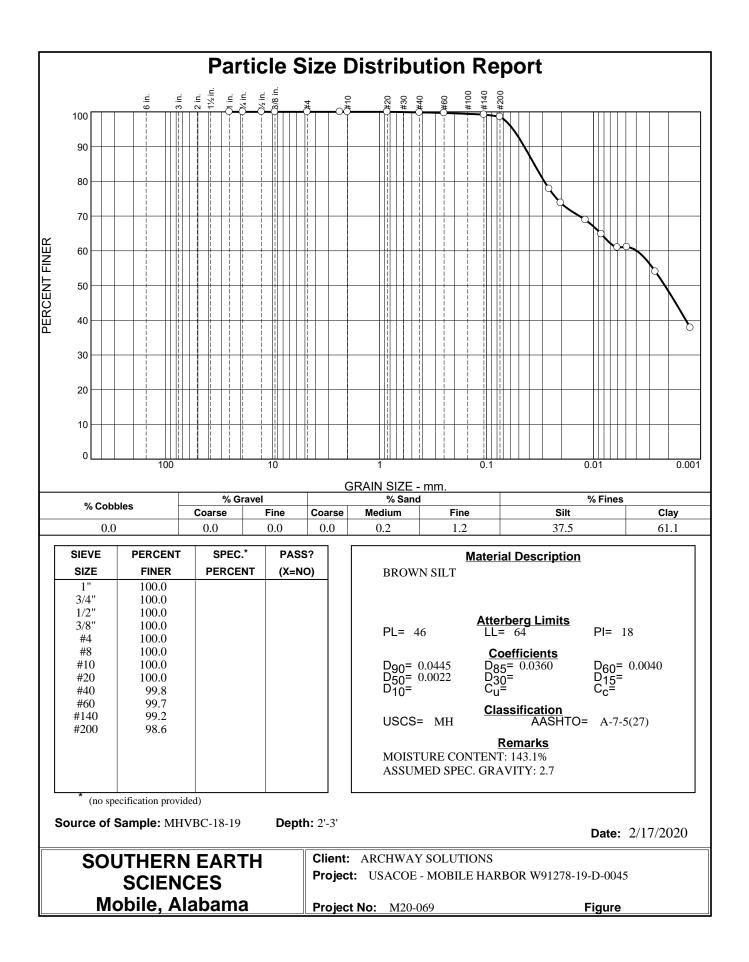


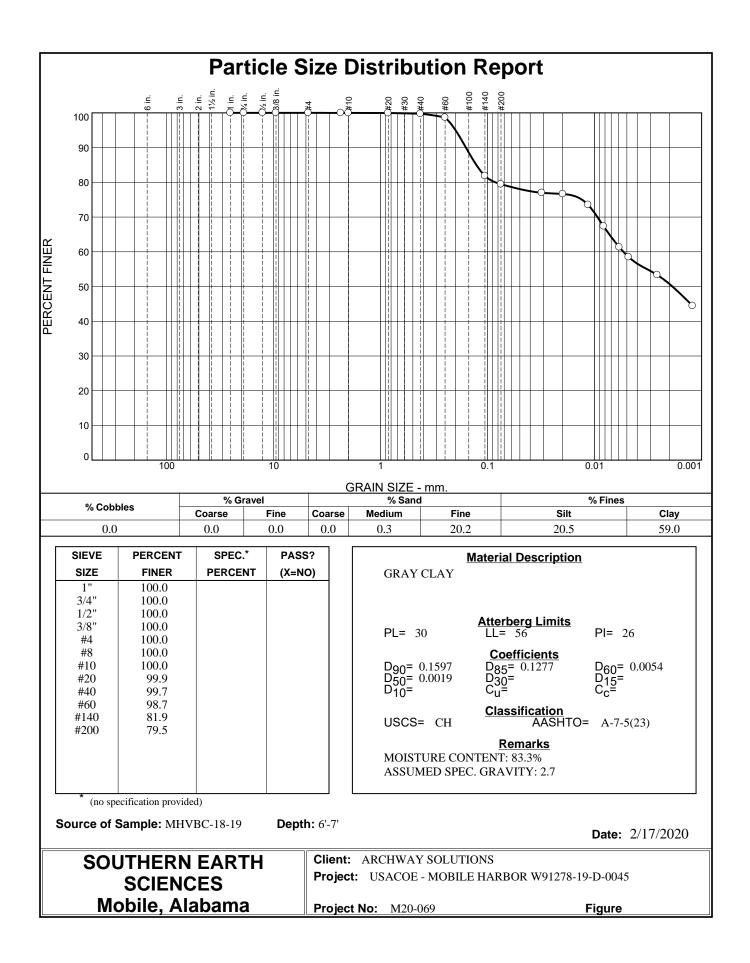
DRI		G LO	G	DIVIS	ION	Sou	th Atlantic	IN	IST/	<b>ALLA</b>	ΤΙΟΙ	Mobile	Distric		HEET F 2		ETG
PROJ								-						0			
	00.45-							STA	TE PLA	ANE CO	ORDINA	TES					
1963-1964 Subsurface Investigation						STATE PLANE COORDINATES         X = 1,803,790         Y = 134,811           COORDINATE SYSTEM/DATUM/UNITS         HORIZ.						VER	т.				
DATE OF BORING						State Plane - Alabama West - U.S. Su				Vest - U.S. Su		NAD83	3	MLL			
DRILI	DRILLING AGENCY         Corps of Engineers - CESAM           NAME & TITLE OF FIELD INSPECTOR         NAME OF DRILLER							ELEVATIONS				-35.0 Feet		GROUND WATER Underwater			R
NAME				CTOR		NAM	e of driller N/A	MANUFACTURER'S DESIGNA N/A				GNATION OF DR					
DIREC	TION OF		eologist 3		DEG. FRO VERTICA	м	BEARING	IN/	A				L				:K
$\boxtimes$	VERTICA		INCLINE	D	VERTICA	L		SIZE AND TYPE OF BIT See Remarks									
тніск	NESS OF	OVERE	BURDEN	١	N/A			тот	AL NU	MBER (	CORE B	OXES 0					
DEPTH	і то тор	OF RO	СК	١	N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UD	) (	)
ΤΟΤΑΙ	DEPTH	OF BOR	ING	1	6.3 Feet			тот	AL RE	COVER	Y FOR E	BORING Not	Record	ed			
ELEV.	DEPTH	LEGEND	c	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE Cos Do D D D D D D D D D D		ADVANCEMENT METHOD		DRILLING REMARKS			BLOWS/ 0.5 FT.	N-VALUE		
-35.0	0.0		(011) 0		4 1.1.1 1	41 - 11											
-	t				t, high pla et, gray,		y, very soft ic										
-	ł																
-	ŧ.										Adva	nced Boring					
	ł																
-	+																
	+																
	F														Γ	0	
-	ŀ							NR			SP	T Sampler			F	0	
	ł										01	r oumpion			⊢	Ŭ	0
-	+															0	
	ł																
•	Į																
-	ŧ																
	ł																
-	‡										Adva	nced Boring					
-	+																
	+																
-	ł																
-	Į														F	$ \downarrow$	
	Ł															0	
-	F							NR			SP	T Sampler			Γ	0	
•	ŧ														┢	0	0
-	+							<u> </u>							┝	0	
-	ţ										Adva	nced Boring					
	ł										Auva	noca Donny					
		1836		TER ILLING	DURIN DRILL	VG	7	ontinue				Boring Des			5-13:		

DRILLING LOG (Cont. Sheet)		Boring Designation S INSTALLATION Mobile District						2 SHEETS		
ROJECT		COORDINATE SYSTEM/DATUM         HORIZONTAL           State Plane - Alabama West - U.S. Survey Ft.         NAD83								
								L VERTICAL MLLW		
OCATION COORDINATES		ELEVATION TOP OF BORING								
X = 1,803,790 $Y = 134,811$		-35.0 Ft.								
		REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE		
			<u>шо</u>		Advanced Boring					
		NR			SPT Sampler		_	0 0 0 0		
51.3 16.3					Advanced Boring					
NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	d in				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).					
AM FORM 1836-A AFTER G 2017 DRILLING DR										

roject I.D.								В	oring Desig	nation	MHV		8-19
DRILLING LOG	DIV	ISION	South	n Atlantic	IN	ISTA	ALLA	ΤΙΟ	N Mobile	District		ET 1 2 SH	EETS
PROJECT					LAT	LONG	COORE	DINATE	<b>s</b> LAT = 30.3	36604189	LONG =	-88.0	22613
2020 Geotechnic	al Investig	ation			STA	TE PLA	NE CO	ORDIN	<b>ATES</b> X = 1,8	303,684	Y = 133,5	500	
DATE OF BORING		<i>STARTE</i> 01-22-2		<i>COMPLETED</i> 01-22-20					<b>ATUM/UNITS</b> Vest - U.S. Si	urvey Ft.	<i>horiz.</i> NAD83		<b>rt.</b> LW
DRILLING AGENCY	Corp	s of Engine	ers - CE	SAM					<i>тор ог вс</i> -50.0 Fe	DRING	<b>GROUN</b>	<b>D WAT</b> erwater	
NAME & TITLE OF FIELD	INSPECTOR		NAME	OF DRILLER	MAN	UFAC	TURER	'S DESI	GNATION OF D				
C. Long, Geotechr DIRECTION OF BORING	nical Engine	er DEG. FR		CSI BEARING	Vi	brocor	re			C		HAMN	IER
	NCLINED	VERTIC	AL		SIZE	AND	TYPE O	FBIT	See R	emarks			
THICKNESS OF OVERBU	RDEN	N/A			тот	AL NU	MBER (	CORE B	OXES (	)			
DEPTH TO TOP OF ROCK		N/A			тот	AL SAI	MPLES	D	ISTURBED 1	UNE	DISTURBED	(UD)	0
TOTAL DEPTH OF BORIN	G	16.5 Feet			тот		COVER	Y FOR E	BORING 10	0 %			
	CLAS	SIFICATION	OF MATE	RIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	۸DV	ANCEMENT METHOD	DR RE	ILLING MARKS	BLOWS/	N-VALUE
-50.0 0.0		inorganic -		lasticity yory								_	
-54.0 4.0	soft consiste	ency, wet, d	lark gray										
	consistency	, fat, high p , wet, dark g aces of woo	gray, wi	th sand and	100	1		V	/ibracore	30, LL	-56 Ft. 79%, PL= = 56, PI= C= 83%		
-60.0 <sup>†</sup> 10.0 AM FORM 1836	AFTER	G ⊈ DURI DRIL		(0	ontinue	d)			Boring De	signativ		 /ВС-	18-11
JG 2017	DRILLIN	G DRIL	<i>LING</i> <sup>≛</sup> R	eplaced in i			by Ar	l nendi	-	-			

DR		G LC	)G (Cont. Sheet)	INSTAL						SHEET 2	
				-	ile Dis					OF 2 5	
PROJEC	γL.			COORD					HORIZONTAL NAD83	VERTI MLL	
0047			-Ee					est - U.S. Survey Ft.	INADOJ		VV
	<b>ON COO</b> 1 803 68		= 133,500	<b>ELEVAT</b> -50.0		JP OF	BURING	3			
ELEV.	DEPTH		CLASSIFICATION OF MATERIAL		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	N-VALUE
	-	<b>n</b>	(CL) CLAY, lean, low plasticity, soft consistency, wet, dark gray			δ. Φ					ž
-62.0	- - - - 12.0										
-02.0 - - - - - - - - - - - -	- 12.0 - - - - - - -		(SC-SM) SAND, silty, clayey, soft consistency, wet, dark gray		100	1		Vibracore			
- - -66.5	- - - - 16.5		At El65.0 Ft. shelly								
	- - - - - - - - - - - -		NOTES: 1. Soils are field visually classified i accordance with the Unified Soils Classification System.	n							
- - - - - - - -	- - - - - -										
- - - - -	+ - - - - -										
		1836			L	ļ	I	Derine D			
AM F JG 201		1836-/	DRILLING - DRILLING -	and in it				Boring De	esignation		





ject I.D.				Bo	oring Desig	nation			SS-	135
RILLING LOG         DIVISION         South Atlantic	IN	IST/	ALLA	ΤΙΟΙ	Mobile	Distric	t	SHEET OF 3		ETS
ROJECT	LAT	LONG	COORI	DINATES	LAT = 30.3	864097	LONG	6 = -88.	0222	17
1963-1964 Subsurface Investigation	STA	TE PL/	ANE CO	ORDINA	<b>TES</b> X = 1,8	303,806	Y = 1	132,792	2	
ATE OF BORING STARTED COMPLETED							HOR		VER	
RILLING AGENCY Corps of Engineers - CESAM			e - Ala Ation		Vest - U.S. Su <b>TOP OF BO</b>				MLL WATE	
ME & TITLE OF FIELD INSPECTOR NAME OF DRILLER	_		_	-	-22.8 Fe			Underw		
N/A, Geologist N/A	N/					[ [		TO HAM NUAL H		ER
RECTION OF BORING DEG. FROM BEARING	SIZE		TYPE O	F BIT	See Re	emarks				
	тот		MRFR		DXES 0	1				
PTH TO TOP OF ROCK N/A	_		MPLES		STURBED ()		חורדוח	BED (U	<b></b>	0
TAL DEPTH OF BORING 28.5 Feet	-					t Record				0
20.01000									۶.	Э
EV. DEPTH	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING	5	BLOWS/ 0.5 FT.	N-VALUE
2.8 0.0										
(CH) CLAY, fat, high plasticity, very soft										
consistency, wet, gray, organic										
				Adva	nced Boring					
						-				
									0	
	NR			SP	T Sampler			ľ	0	
+								ŀ		0
								Į	0	
+										
				Adva	nced Boring					
+										
						1		ł		
A FORM 1836 AFTER ▼ DURING ▼ (0	NR			SP	T Sampler Boring De	-		SS-13	0	

ייםם		G (Cont Shoot)	INSTALLA	TION	I		oring Designatic		SHEET 2	
UKI		OG (Cont. Sheet)	Mobile	Dist	rict				OF 3 SI	HEETS
ROJEC	т		COORDIN					HORIZONTAL	VERTIC	
			1				est - U.S. Survey Ft.	NAD83	MLLV	V
					P OF I	BORING	3			
<u></u>	,803,806 Y	- 132,182	-22.8 F	-ı.	Kui				6	
LEV.	DEPTH DEPTH	CLASSIFICATION OF MATERIALS	R	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	000 BLOWS/	0.5 FT.
+				NR			SPT Sampler		0 0	0
							Advanced Boring			
+				NR			SPT Sampler		0	0
							Advanced Boring			
				NR			SPT Sampler		0	0
							Advanced Boring			
	ORM 1836-	A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING ▼	(Con		0		Boring De		SS-135	_

DP		GIO	G (Cont. Sheet)	INSTALL						SHEET		
				Mobile						OF 3		s
ROJE	ст			COORDIN					HORIZONTAL			
				î				est - U.S. Survey Ft.	NAD83	ML	LW.	
	ON COOP		<b>ES</b> = 132,792	<b>ELEVATIO</b> -22.8		P OF	BORING	3				
ELEV.	DEPTH		CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE	
		Ĕ				BO	00	METHOD				
- - -	+ - - -							Advanced Boring				
-											0	
-					NR			SPT Sampler			0 0	)
- - - -	+ + + + +							Advanced Boring				
-51.3	28.5		NOTES:					140# hammer w/30" drop used	-			
	+		1. Soils are field visually classified in accordance with the Unified Soils Classification System.					with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).				
- -	+ + +											
-	+											
-	+ + +											
-	+ + +											
-	+ + + +											
- - -	+ + + +											
	<u> </u>											_
	ORM 1	1836-/	A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING ▼				-	Boring De	·	SS-13		_

rojec	t I.D.										Bo	oring Desig	nation			C-36	-84
DRI	LLIN	G LO	G	DIV	ISION	l So	outh Atlantic	IN	IST/			Mobile	Distric	t I	SHEET OF 3		ETS
PROJ	ECT							LAT	LONG	COORD	DINATES	• LAT = 30.	360751	LONG	= -88.	02378	39
19	82-198	34 Subs	surfac	e Inve	stigatio	n		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,	803,305	Y = 1	31,57	7	
	OF BO				<b>STAR</b> 01-08	RTED	<i>COMPLETED</i> 01-08-84					<b>TUM/UNITS</b> Vest - U.S. S	URVAV Et	HOR NAD		VER MLL\	
DRILI		GENCY		Corps			CESAM					TOP OF B			OUND		
	_	OF FIEL	D INSP	-								-42.0 F			Inderv		
	Н. (	Gates, (	Geolog	gist			C. Fuller	Vi	brocoi	re			l [		O HAN		R
		BORING		IED	DEG. I VERT	ROM ICAL	BEARING	SIZE	AND	гүре о	F BIT	See F	lemarks				
					N/A			тот	AL NU	MBER C	ORE B	DXES	0				
		OF ROC			N/A			тот	AL SAI	MPLES	D	STURBED		DISTURI	BED (U	<b>D) (D</b>	)
TOTAL	DEPTH	OF BORI	NG		28.5 Fe	et		тот	AL RE	COVER	Y FOR B	ORING 1(	0 %				
ELEV.	DEPTH	LEGEND		CLASS			ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT		RILLING		BLOWS/ 1 FT.	N-VALUE
									ш <i>0</i> )							-	z
-42.0	0.0																
			TAt EI.		-t., soft c	consiste	ency, gray	100	1		V	ibracore	LOI=	-51.5 F	ť.		
-	-					JRING RILLING	<u>∑</u> (C	continue				Boring De	LL=74	-51.5 F 1, PL=2	 7,		
		1836		FTER RILLING	_												

DR	ILLIN	G LC	)G (Cont. Sheet)	INSTAL						SHEET	
			()		oile Dis			184	HODIZOUT	OF 3 S	
ROJEC	.1			State P				<b>ум</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERTI MLL	
.0CATI			ËS	ELEVA							
			= 131,577		0 Ft.			-			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	gs d	N-VALUE
- <u>-56.0</u>			(ML) SILT, inorganic-L, soft consist wet, gray, with fine grained sand an trace of shells (max size of 1") (CH) CLAY, fat, high plasticity, soft consistency, wet, gray	id a	100			Vibracore	PI=47	Ft.	
SAM F		836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▽	(C	ontinue	ed)		Borina De	esignation	VC-36-	84

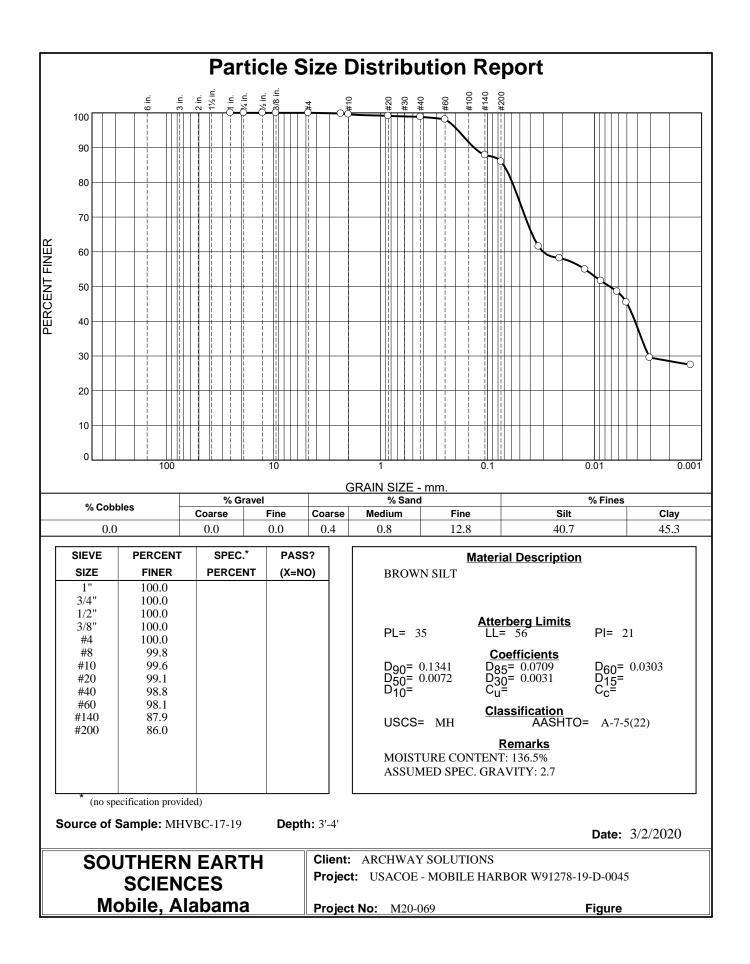
DR		G LO	G (Cont. Sheet)	INSTALL						SHEET 3	
			- (,		le Dist					OF 3 S	
PROJEC	T			COORDI					HORIZONTAL NAD83		
001-	ON 000-							est - U.S. Survey Ft.	ΙΝΑΠΩ2	MLL	/ V
	ON COOF		<b>es</b> = 131,577	<b>ELEVAT</b> -42.0		JP OF	BORING	3			
<u>^ -</u>	1,003,30		- 101,011	-42.0	· F L.	~!!!					<u> </u>
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK		N-VALUE
-70.5			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.		100			Vibracore			
-	-										
	- - -										
- - -	- - -										
	-										
SAM F	ORM 1	836-/	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼					Borina De	esignation	VC-36-8	34

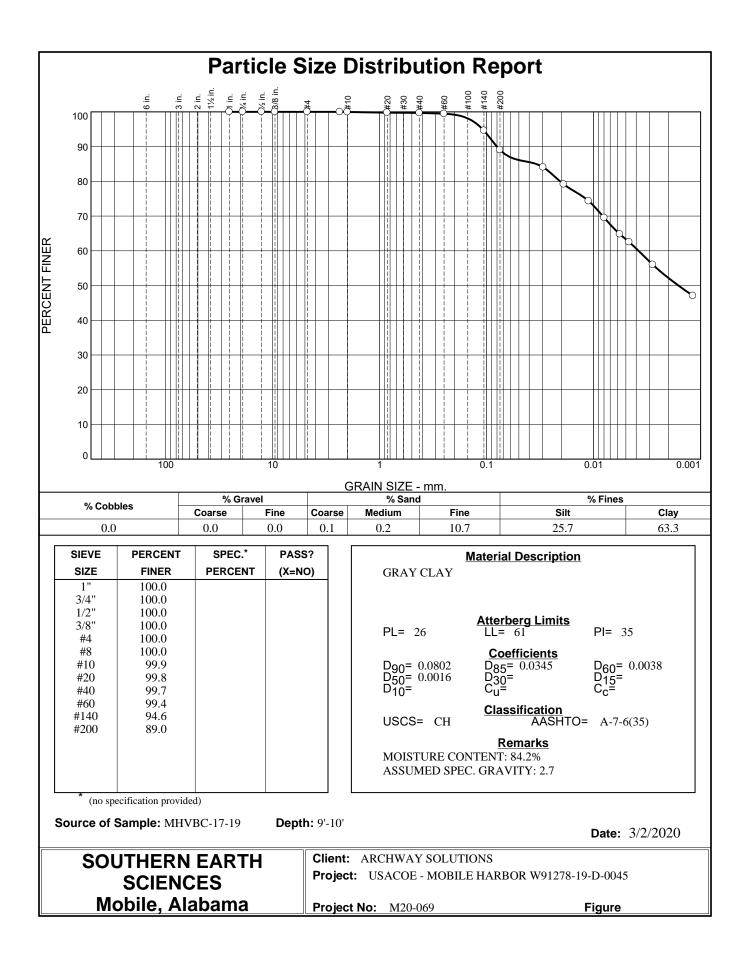
rojec	t I.D.										Bo	oring Design	ation			SS-′	137
DRI	LLIN	G LO	G	DIV	ISIO	So	uth Atlantic	IN	ISTA	ALLA	ΤΙΟΙ	Mobile [	Distric	:	SHEET OF 2		ETS
PROJ	ECT							LAT	LONG	COOR	DINATE	LAT = 30.35	8827	LONG	= -88.	0247	35
19	63-196	4 Subs	surfac	e Inve	stigatio	n		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,80	3,003	Y = 1	30,87	9	
	OF BOI					RTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Sur	yoy Et	<i>hor</i> NAD		VER MLL	
DRILI	ING AG	ENCY		Corps	s of Enc	ineers -	L CESAM					TOP OF BOR	ING	GR	OUND	WATE	
	& TITLE	_	D INSP	•								-33.8 Fee			Jnderv O HAN		
		/A, Ge	-	t			N/A	N/	Ά						UAL H		R
	TION OF VERTICA			IED	DEG. VER	FROM FICAL	BEARING	SIZE	AND	ТҮРЕ О	FBIT	See Rer	narks				
тніск	NESS OF	OVERB	URDEN	1	N/A			тот		MBER (	CORE B	DXES 0					
DEPTH	і то тор	OF ROC	ĸ		N/A			тот	AL SAI	MPLES	D	STURBED ()	UNI	DISTUR	BED (U	D) (D	)
ΤΟΤΑΙ	DEPTH	OF BORI	NG		17.5 F	eet		тот	AL REG	COVER	Y FOR E	oring Not	Record	ed			
ELEV.	DEPTH	LEGEND		CLASS	SIFICATI	ON OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
<u>-33.8</u>	0.0		(CH)	CLAY,	fat, hig	h plastic	ity, very soft										
-	-		consi	stency,	wet, gr	ay, orga	nic										
-	-										Adva	nced Boring					
-																	
-	-																
-	-															0	
-								NR			SP	T Sampler				0	
-	-															0	0
-	F															0	
-	-																
-																	
-	F																
-	-																
-											Adva	nced Boring					
-	-																
-																	
-	Ł																
-	ŀ																
-	ļ									1						0	
-	ŀ							NR			SD	T Sampler				0	
-	ŀ										01	. oumpion					0
-	Ļ															0	
-	ŀ										Adva	nced Boring					
-	ŀ										Auva	need boiling					

DRILLING LOG (Cont. Sheet)	INSTALI Mobi	LATION le Dist					SHEET 2 OF 2 S	
ROJECT	COORDI					HORIZONTAL	VERTIC	
					est - U.S. Survey Ft.	NAD83	MLL	N
OCATION COORDINATES X = 1,803,003 Y = 130,879	<b>ELEVAT</b> -33.8		DP OF	BORING	3			
		RÉC.	BOX OR SAMPLE	RQD OR UD		DRILLIN REMARK	۵۵ (Shows) (S	0.5 FT. N-VALUE
	5	NR	BOX	685	Advanced Boring SPT Sampler Advanced Boring			0
-51.3 17.5 NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

roject I.D.								Bo	oring Desig	nation	MHVE	3C-17	7-19
DRILLING LO	G DIV	ISION	South	Atlantic	IN	STA	LLA	ΤΙΟΙ	Mobile	District		ET 1 2 She	ETS
PROJECT					LAT/	LONG	COORE	DINATE	<b>s</b> LAT = 30.3	35484434	LONG =	-88.02	24648
2020 Geotechni	cal Investig	ation			STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	303,024	Y = 129,4	31	
DATE OF BORING		<i>STARTE</i> 01-22-2		<i>OMPLETED</i> 01-22-20					<b>ATUM/UNITS</b> Vest - U.S. Su	irvev Et	<i>Horiz.</i> NAD83	VER MLL	
	Corp	s of Engine							TOP OF BO	RING	GROUNI	WATE	R
NAME & TITLE OF FIEL				DRILLER	MAN	UFAC	URER'	S DESI	-46.0 Fe		Unde	rwater	
C. Long, Geotec	-		C		Vi	brocor	e			Č			
IRECTION OF BORING		DEG. FRO VERTICA		BEARING	SIZE	AND 1	ГҮРЕ О	F BIT	See R	emarks			
HICKNESS OF OVERB	URDEN	N/A			тот	AL NU	MBER (	CORE B	DXES (	)			
DEPTH TO TOP OF ROO	ж	N/A			тот	AL SAM	<b>NPLES</b>	D	ISTURBED 1	UNL	DISTURBED (	UD)	0
TOTAL DEPTH OF BOR	ING	17.0 Feet			тот	AL REC	OVER	Y FOR E	oring 10	0 %			
	CLAS	SIFICATION	OF MATERI	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR RE	RILLING MARKS	BLOWS/ 1 FT.	N-VALUE
-46.0 0.0	(MH) SILT, soft consiste and shell (CH) CLAY consistency trace sand a	, fat, high pl , wet, dark g and shell	ark gray, asticity, so gray, inorg	oft ganic,	100	1			'ibracore	-200= 35, LL 21, M0 21, M0 26, LL 35, M0	-49 Ft. 86%, PL= = 56, PI= C= 136% = 61, PL= C= 84%		
AM FORM 1836 9 2017	AFTER DRILLIN	g ⊻ DURII G DRILL			ontinue				<i>Boring De</i> ment No. W	-200= 26, LL 35, Mo	89%, PL= = 61, PI= C= 84%	/BC-1	17-19

DR	ILLIN	G LC	DG (Cont. Sheet)							SHEET	
PROJE			(		bile Dis			104		OF 2	
RUJE					<b>DINATE</b> Plane - J			<b>ум</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VER1 ML	
	ON COO	RDINAT	ES	- 1							
X =	1,803,02	24 Y	= 129,431	-46	.0 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERI	ALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	Ģ	BLOWS/ 1 FT. N-VALUE
-57.0 -58.0	11.0		CLASSIFICATION OF MATERIA (CL) CLAY, lean, low plasticity, so consistency, wet, dark gray, inorg (SC) SAND, clayey, soft consister gray, trace shell NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	oft anic ncy, wet,	100			Vibracore		3	BLO 1 F N-VA
- - - - - - - - - - - - - - - - - - -	+ + + + + + + + + + + + + + + + + +										





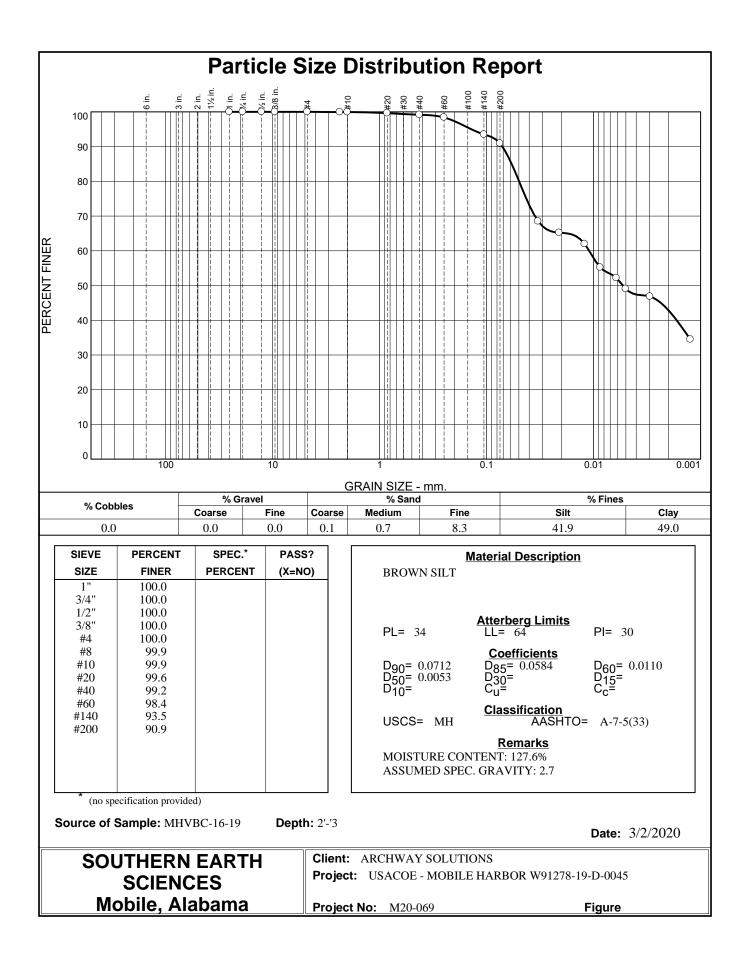
DRI	LLIN	g lo	G	DIVI	ISION	l So	uth Atlantic	IN	IST/	<b>\LL</b> A		Mobile	Distric	t I	HEET F 3		ETS
PROJ	ECT							LAT	LONG	COORI	DINATE	<sup>s</sup> LAT = 30.3	53183	LONG =	-88.0	237	39
19	63-196	4 Sub	surface	e Inve	stigatio	n		STA	TE PLA	NE CO	ORDIN	<b>XTES</b> X = 1,80	03,292	Y = 12	8,825		
	OF BO		Sanaoc		STAI		COMPLETED					ATUM/UNITS		HORIZ		VER	
												Vest - U.S. Sui TOP OF BOI		NAD8	3     UND W	MLL ATE	
					of Engi		CESAM					-25.0 Fe	et		nderwa		
NAME	& TITLE		.D INSPE			NAI	<b>N/A</b>	MAN N/		TURER	'S DESI	GNATION OF DR	ונג (		HAMN		R
DIREC	TION OF	-	-		DEG. VERT	ROM	BEARING						<b>`</b>				
$\boxtimes$	VERTICA		INCLIN	ED	VERI			SIZE	AND	ТҮРЕ О	FBIT	See Re	marks				
тніск	NESS OF	OVERE	URDEN		N/A			тот	AL NU	MBER	CORE B	OXES ()					
DEPTH	і то тор	OF ROO	СК		N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBI	ED (UD)	) (	)
TOTAL	. DEPTH	OF BOR	ING		26.3 Fe	eet		тот	-	COVER	Y FOR E	BORING Not	Record	led			
ELEV.	DEPTH	LEGEND		CLASS	IFICATIO	N OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DI RE	RILLING EMARKS		BLOWS/ 0.5 FT.	N-VALUE
-25.0	0.0		(CH)		fat hid	nlastic	ity, very soft										
-	ţ				wet, gra						Adva	nced Boring					
-	ł											Ŭ					
-	F.															0	
-	t							NR			SD	T Sampler			┢	0	
-	-										JF	r Sampler			-	0	0
-	ţ															0	
- - - - - - - - - - - - - - - - - - -	+ + + + + + + + + + + + + + + + + +										Adva	inced Boring					
-								NR			SP	T Sampler				0 0 0	0
-	- - - - - - -										Adva	nced Boring					
		1836		TER RILLING	-	JRING RILLING	<u>∑</u> (C	ontinue		I		Boring Des			S-139		

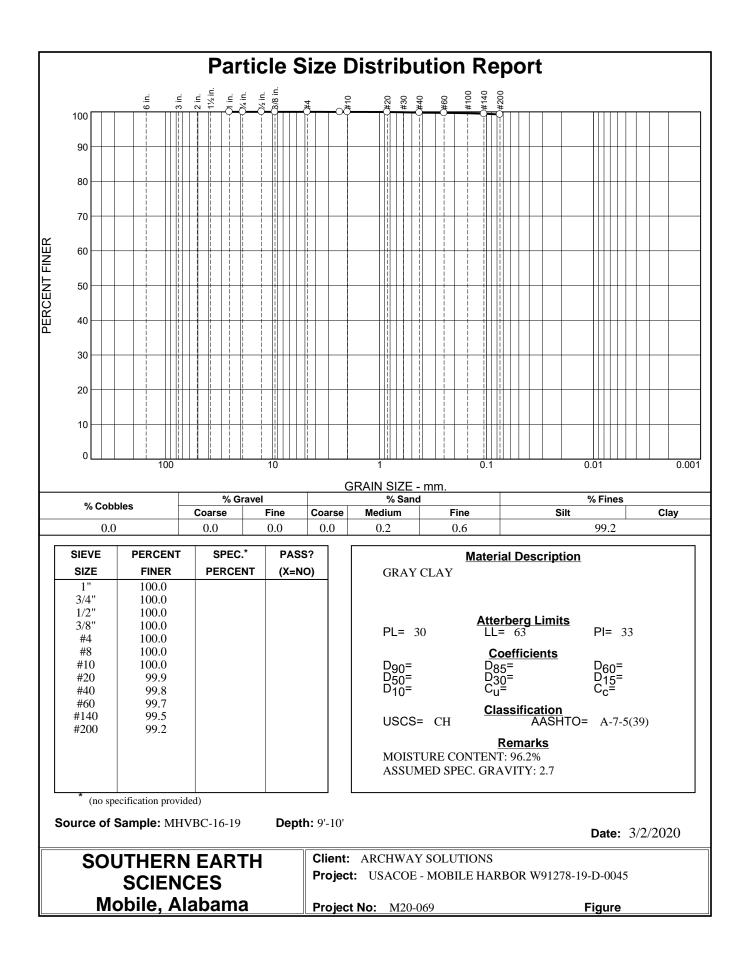
INSTALLATIO					SHEET	
				ΙΝΑΠΩ2		
	OP OF	BORIN	9			
	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G IS	BLOWS/ 0.5 FT. N-VALUE
			Advanced Boring			
NR		-	SPT Sampler			0 0 0
			Advanced Boring			
NR			SPT Sampler			0 0 0
			Advanced Boring			
NR			SPT Sampler		L	0
	Mobile Dis State Plane - ELEVATION T -25.0 Ft. REC.	Mobile District         COORDINATE SYSTE         State Plane - Alaba         ELEVATION OF         -25.0 Ft.       RÉC.       Segentation         NR       NR       NR         NR       NR       NR         NR       NR       NR	Mobile District         COORDINATE SYSTEM/DATI State Plane - Alabarna Wei -25.0 Ft.         s       RÉC.       Séé       ROP Séé       ROP SÉÉ         NR       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Mobile District  COORDINATE SYSTEM/DATUM State Plane - Alabama West - U.S. Survey Ft.  ELEVATION TOP OF BORING -25.0 Ft	Mobile District       COORDINATE SYSTEM/DATUM       State Plane - Alabama West - U.S. Survey Ft.       NAD83       ELEVATION TOP OF BORING 25.0 Ft.       S     REMARK       ADVANCEMENT       REMARK       NR     SPT Sampler       NR     Image: SPT Sampler     Advanced Boring       NR     Image: SPT Sampler     Image: SPT Sampler       Image: SPT Sampler     Image: SPT Sampler	Mobile District     OF     3       CORDINATE SYSTEMDATUM State Plane - Alabama West - U.S. Survey Pt. INAD83     MORIZONTAL NAD83     VENT MLI       ELEVATION TOP OF BORING -25.0 Ft.     REC.     SE     ROB     ADVANCENDENT     REMAINS     Index       S     REC.     SE     ROB     ADVANCENDENT     REMAINS     Index     Index       NR     Index     Index     Index     Advanced Boring     Index     Index     Index       NR     Index     Index     Index     Advanced Boring     Index     Index     Index       NR     Index     Index     Index     Index     Index     Index     Index       Index     Index     Index     Index     Index     Index     Index     Index

Image: Second	Burvey Ft.     HORIZONTAL NAD83       NAD83       NCEMENT       Sampler       Sampler       ced Boring       ammer frop used 0' split       I.D. x	F 3 SHEETS VERTICAL MLLW
State Plane - Alabama West - U.S.         LOCATION COORDINATES         X = 1,803,292       Y = 128,825         ELEV.       DEPTH       Subscript Calassification of materials       Rec.       Subscript Rop Calassification       ADVAN         -51.3       26.3       NR       SPT S         -51.3       26.3       NOTES:       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance       1. Soils are field visually classified in accordance       1. Soils are field visually classified in accordance       1. Soils are field visually classified in a	Survey Ft. NAD83	WLLM 0 0 0 0 0 0 0 0 0 0 0 0
ELEVATION TOP OF BORING -25.0 Ft.         ELEV.       DEPTH       Orgonal       CLASSIFICATION OF MATERIALS       Ref.       Colspan="2">Colspan="2">Colspan="2">Colspan="2">Classification of materials         Participation       NR       NR       SPT 3         Colspan="2">Classification of materials       Ref.       Colspan="2">Colspan="2">Colspan="2">Colspan="2">Classification of materials         Participation       NR       SPT 3         Colspan="2">Classification of materials       NR       SPT 3         Colspan="2">NR       SPT 3         Colspan="2">Advance         Colspan="2">NR       SPT 3         Colspan="2">Advance         Colspan="2">NR       SPT 3         Colspan="2">NR       SPT 3         Colspan="2">Advance         Colspan="2">NOTES:         NOTES:       140# ha         NOTES:       1       140# ha         NOTES:       1       140# ha       140# ha         Colspan="2">Advance	NCEMENT     PRILLING       Sampler	0 <b>BLOWS</b> / 0 <b>0.5 FT.</b> 0 N-VALUE
X = 1,803,292       Y = 128,825       -25.0 Ft.         ELEV.       DEPTH       U       CLASSIFICATION OF MATERIALS       R°C.       COR       ROD ODS       ADVANCE         -51.3       26.3       NOTES:       NOTES:       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils       1. Soils are field visually classified in accordance with the Unified Soils </th <th>Sampler ced Boring ammer drop used 0' split 1.D. x</th> <th>0 0</th>	Sampler ced Boring ammer drop used 0' split 1.D. x	0 0
ELEV.       DEPTH       The second se	Sampler ced Boring ammer drop used 0' split 1.D. x	0 0
-51.3 26.3 NOTES: 1. Soils are field visually classified in accordance with the Unified Soils NR SPT S Advance 140# he wi30" d wi10" d spoon (1-3/8"	ced Boring ammer drop used 0' split 1.D. x	0 0
-51.3 26.3 NOTES: 1. Soils are field visually classified in accordance with the Unified Soils (1-3/8"	ammer drop used 0' split 1.D. x	
NOTES:     140# ha       1. Soils are field visually classified in accordance with the Unified Soils     1140# ha	drop used 0' split I.D. x	
T	Boring Designation SS	<u> </u> 6-139

DRILLING LOG	DIVIS	SION	South	Atlantic	IN	IST/	<b>\LLA</b>	TIO	Mobile	District		ET 1 2 She	ETS
PROJECT	1				LAT	LONG	COORE	DINATES	<b>b</b> LAT = 30.3	34946773	B LONG =	-88.02	492
2020 Geotechnic	al Investigati	on			STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,5	802,926	Y = 127,4	176	
DATE OF BORING		<b>STARTE</b>		OMPLETED					ATUM/UNITS		HORIZ.	VER	
DRILLING AGENCY	Corps o	of Enginee		01-22-20 Ам					Vest - U.S. S TOP OF B		NAD83 GROUN	MLL D WATE	
NAME & TITLE OF FIELD	•						-	_	-46.0 F SNATION OF D		<u> </u>	erwater	
C. Long, Geotech	nical Engineer			SI	Vi	brocor	re			Ľ			ER
	NCLINED	DEG. FRO VERTICA	L	BEARING	SIZE		ТҮРЕ О	FBIT	See R	emarks			
THICKNESS OF OVERBU	IRDEN	N/A			тот		MBER (	CORE B	OXES (	)			
DEPTH TO TOP OF ROCK	<b>(</b>	N/A			тот	AL SAI	MPLES	DI	ISTURBED 1	UNI	DISTURBED	( <b>UD</b> ) (	0
TOTAL DEPTH OF BORIN	<b>IG</b> 1	7.0 Feet			тот	AL REG	COVER	Y FOR B	SORING 10	0 %			
ELEV. DEPTH	CLASSIF	ICATION C	OF MATER	IALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DR RE	RILLING MARKS	BLOWS/ 1 FT.	N-VALUE
-50.0 4.0	(MH) SILT, inc soft consistence (CH) CLAY, fa consistency, w inorganic	cy, wet, da	ark gray,	trace shell	100	1			/ibracore	-200= 34, LL 30, M	-48 Ft. 91%, PL= = 64, PI= C= 127%		
+										PL=30	99%, ), LL= 63, 3, MC=		

DR	ILLIN	G LC	DG (Cont. Sheet)	INSTAL					SHEET 2 Of 2 Shee			
			(		ile Dis							
ROJEC	.1			COORD State P				<b>ум</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERT MLI		
0047	ON COO	RDINAT	TES	ELEVA1							_ • •	
			= 127,476	-46.0				-				
ELEV.	DEPTH	QN	CLASSIFICATION OF MATERIA	LS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	<u>ç</u>	BLOWS/ 1 FT. N-VALUE	
									96%			
- - - - - 59.0	- - - - - - - - - - - - - - - - - - -											
- <u>59.0</u> - - -	- 13.0 - - -		(CL) CLAY, lean, low plasticity, so consistency, wet, dark gray, trace	t shell	100	1		Vibracore				
-	- - - - -											
-63.0	17.0											
- - -			NOTES: 1. Soils are field visually classified accordance with the Unified Soils Classification System.	in								
- -	+ + +											
- - -												
- -	+ + + +											
- -												
-			A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▽						esignation	MHVB		





DRI	LLIN	G LO	G	DIVI	SION	So	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile	Distric	t I	HEET F 3		ETS
PROJ	ECT							LAT	LONG	COOR	DINATES	LAT = 30.3	47820	LONG =	-88.0	0254	40
10	63-106	4 Sub	surface	- Inves	tigation			STA	TE PLA	NE CO	ORDINA			Y = 12			
	OF BO		Sundue		sugation STARTI	ED	COMPLETED					ATUM/UNITS		HORIZ	2.	VER	
												Vest - U.S. Su <b>TOP OF BO</b>		NAD8	3 UND V	MLL	
	ING AC				of Engine					TION		-27.8 Fe	et		nderw		
NAME	& TITLE		.D INSPE			NAM	<b>e of driller</b> N/A	MAN N/		TURER	'S DESIC	<b>GNATION OF DR</b>	"LL [ r				FR
DIREC	TION OF	-	-		DEG. FR	ом	BEARING										
$\boxtimes$	VERTIC/		INCLIN	ED	VERIICA	AL		SIZE	AND	TYPE O	FBIT	See Re	emarks				
тніск	NESS OF	OVERE	URDEN		N/A			тот	AL NU	MBER (	CORE B	OXES 0					
DEPTH	І ТО ТОР	OF ROO	СК		N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURB	ED (UI	<b>)</b> (	0
ΤΟΤΑΙ	. DEPTH	OF BOR	ING		23.5 Feet	t		тот	AL RE	COVER	Y FOR B	oring Not	Record	ed			
ELEV.	DEPTH	LEGEND		CLASSI	FICATION	OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
-27.8	0.0		(CH)	CLAY,	fat, high p	lastici	ty, very soft										
-	-				wet, gray,												
-																	
-	-																
-											Adva	nced Boring					
-	-																
-																	
-	-																
-	F																
-															ŀ	0	
-	-														⊦	0	
-								NR			SP	T Sampler				0	0
-	-															0	Ū
-	-														Ē		
-	-																
-	Ļ																
-																	
-	-																
-	-																
-	ŀ										Adva	nced Boring					
-	È																
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-	ļ																
-	ŀ																
		× / /						1	ed)		-	Boring Des		on S			

י וופח		(Cont Sheet)	INSTALLA				oring Designatic		SHEET 2 OF 3 SHEET		
URILI		i (Cont. Sheet)	Mobile						<b>OF</b> 3	SHEE	тs
PROJECT			COORDINA					HORIZONTAL		TICAL	
			1				est - U.S. Survey Ft.	NAD83	ML	LW	
	<b>COORDINATES</b> 02,762 Y = 1		<b>ELEVATIO</b> -27.8 F		P OF I	BORING	ē				
		CLASSIFICATION OF MATERIALS		"ÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT.	N-VALUE
					ΩN N	-					ż
Ŧ							007.0		-	0	
Ŧ			ſ	NR			SPT Sampler		┝		0
			-						-	0	
Ť											
+											
ļ											
+							Advanced Boring				
Į											
ł											
+ +											
										0	
ł			1	NR			SPT Sampler		ļ		0
ŧ			-					-	-	0	
ļ											
+											
Į											
ł											
ŧ							Advanced Boring				
ł											
+											
ļ											
	23.5							_			
SAM FOF	RM 1836-A	AFTER ▼ DURING ∑ DRILLING <sup>™</sup> DRILLING	(Cont	tinue	d)		Boring De	signation	SS-14	1	

DRILLI	NG LO	DG (Cont. Sheet)				B			SHEET	
				ile Dis					OF 3	
ROJECT			<b>COORD</b> State P				им est - U.S. Survey Ft.	HORIZONTAL NAD83	VERT MLI	
OCATION CO	ORDINA	TES								
		/ = 126,877	-27.		_	_	-			
ELEV. DEPT	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE
		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.			BO		METHOD 140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			

DRILLING LOG		ISION	South Atlantic	IN	IST/			N Mobile	Distric	t I	SHEET		
PROJECT				_				-			<b>DF</b> 4		
							ORDINA	LAT - 30.3					90
1970-1972 Subsurfa	ace	STARTEI	D COMPLETED					X = 1,8	02,205	Y = 12	-	VER	T
DATE OF BORING		09-21-72						Vest - U.S. Su	rvey Ft.	NAD		MLL	
DRILLING AGENCY	-	-	ers - CESAM					<i>тор ог во</i> -12.7 Fe	et		nderv		R
NAME & TITLE OF FIELD IN Wilsford, Geol			NAME OF DRILLER Dobbs		IUFAC ME-75		'S DESI	GNATION OF DR	ILL [		D HAM		FR
DIRECTION OF BORING	ogist	DEG. FRO VERTICA											
	LINED	VERTICA	<b>-</b>	SIZE		ТҮРЕ О	OF BIT	See Re	marks				
THICKNESS OF OVERBURD	EN	N/A		тот	AL NU	MBER (	CORE B	OXES 0					
DEPTH TO TOP OF ROCK		N/A		тот	AL SA	MPLES	D	ISTURBED 8	UN	DISTURB	ED (U	D) (D	0
TOTAL DEPTH OF BORING		35.5 Feet		тот	AL RE	COVER	Y FOR E	BORING 100	%				
ELEV. DEPTH	CLAS	SIFICATION O	OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	۸DV	ANCEMENT METHOD	DI RE	RILLING MARKS		BLOWS/ 1 FT.	N-VALUE
-12.7 0.0													
	H) SILT,	inorganic-H,	high plasticity, gray										
+													
+				100	1		3"	.D. Shelby Tube					
‡													
+													
+													
<b>T N</b>													
± [[]]]							Adva	inced Boring					
+								inced Doning					
<u>†</u>													
+													
+													
‡													
+				100	2		3"	.D. Shelby Tube					
+													
Į IIII													
± IIII													
Ţ <b>∥∣∣∣</b>													
<u>†</u>							- رام ۸	nood Boring					
∓ <b>∥∣∣∣</b>								inced Boring					
± 1111													
-22.7 10.0													

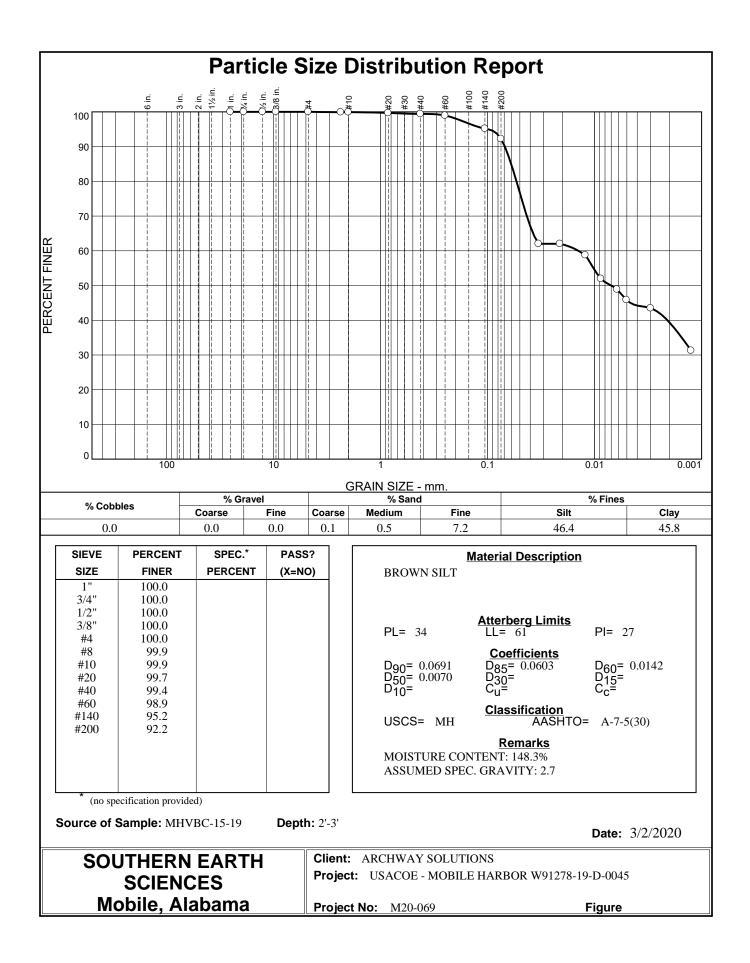
DR		G LO	G (Cont. Sheet)	INSTALLA						SHEET 2	
				Mobile						OF 4 8	
ROJEC	т										
0047	ON COOR		e	State Plan				est - U.S. Survey Ft.	NAD83	MLL	vV
			<b>s</b> = 125,677	-12.7 F			DURING	2			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	<u> </u>	۴C.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	BR 10	1 FT.
	-		(CH) CLAY, fat, high plasticity, grey		00	3		3" I.D. Shelby Tube	_		
-	- - - - - -							Advanced Boring			
-	- - - - - - - -			1	00	4		3" I.D. Shelby Tube			
-	- - - - - - -							Advanced Boring			
-	- - - - - -		At El32.7 Ft. with shell	1	00	5		3" I.D. Shelby Tube			
-	-							Advanced Boring			

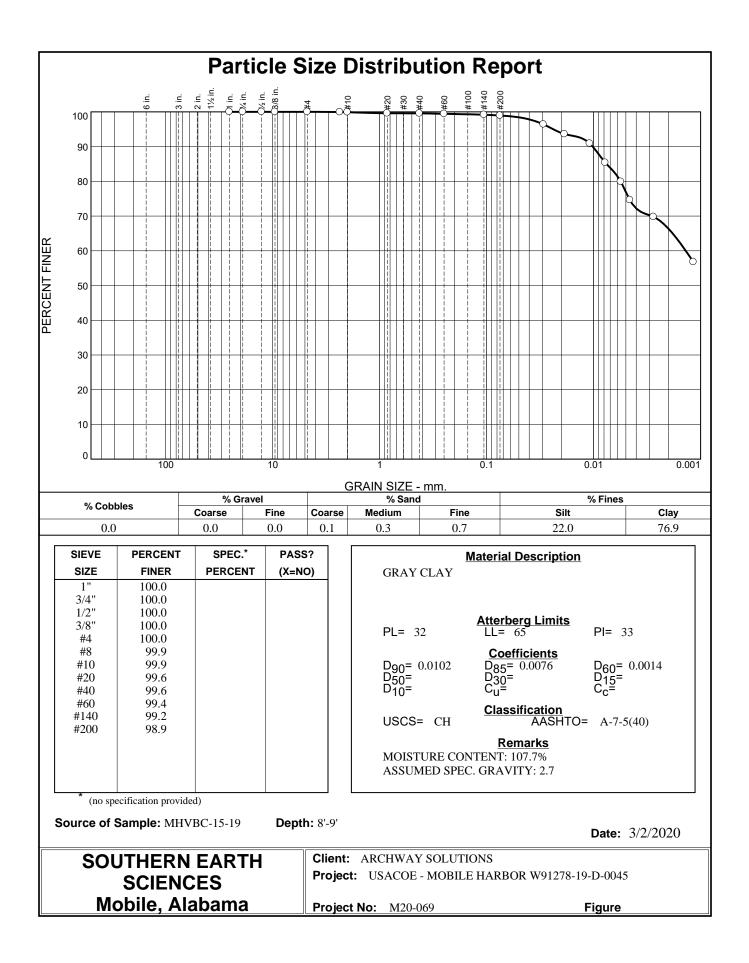
DR	ILLING	LOG (Cont. Sheet)	INSTALL				oring Designatio		D-5-72	
		- (	Mobil						OF 4	
ROJE	51								VERT	
							est - U.S. Survey Ft.	NAD83	ML	_ v v
	ON COORD		<b>ELEVATI</b> -12.7		P OF	BORING	į			
<u>^ -</u>		Y = 125,677 CLASSIFICATION OF MATERIALS	· · ·	FL.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT	DRILLIN REMARK	Ģ	BLOWS/ 1 FT. N-VALUE
				REC.	BO) SAN	ŬĎ	ADVANCEMENT METHOD	REMARK	.5	
			-				Advanced Boring			
				100	6		3" I.D. Shelby Tube			
							Advanced Boring			
				100	7		3" I.D. Shelby Tube			
							Advanced Boring			
-48.2	35.5	NOTES:								
-		<ol> <li>Soils are field visually classified in accordance with the Unified Soils Classification System.</li> </ol>		100	8		3" I.D. Shelby Tube Advanced Boring			
SAM F	ORM 18			ntinue				esignation	CD-5-7	

				INSTAL	1 4710	J	_	oring Designation	on Cl	SHEET	1	
DRI	LLIN	G LC	DG (Cont. Sheet)		ile Dis					OF 4		ЕТЅ
ROJEC				COORD			M/DAT	UM	HORIZONTAL		TICAL	
								est - U.S. Survey Ft.	NAD83		LW	
OCATIO		RDINAT	TES	ELEVA						-		
<u>X = 1</u>	,802,20	5 Y	z = 125,677	-12.	7 Ft.							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIAL	S	REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT.	N-VALUE
	-				100	8						
1	-						1					
4	_											
4	-											
4	-											
1	-											
]	-											
4	-											
-	-											
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]	-				1							
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	ORM 1	836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼					Boring De	i	CD-5-		

DRILLING LOG	Project I.D.					BC	oring Desig	nation	MHV		0 10
	DIVISION	South Atlantic	IN	IST/	ALLA		Mobile	District		EET 1 2 SH	EETS
PROJECT			LAT	LONG	COORE	DINATES	LAT = 30.3	4414935	LONG =	-88.0	26223
2020 Geotechnical	Investigation		STA	TE PL/	NE CO	ORDINA	<b>TES</b> X = 1,8	802,509	Y = 125,	543	
DATE OF BORING	<b>STARTE</b> 01-22-2						<b>TUM/UNITS</b> Vest - U.S. Su	INOV Et	<i>Horiz.</i> NAD83	VE ML	
	Corps of Engine						TOP OF BO	RING	GROUN	ID WAT	ER
AME & TITLE OF FIELD IN		NAME OF DRILLER	_				-48.0 Fe		Unde <b>аито н</b>		
C. Long, Geotechnic	<u> </u>	CSI	Vi	broco	re			6			
IRECTION OF BORING	DEG. FRO VERTICA	M BEARING	SIZE	AND .	ТҮРЕ О	F BIT	See Re	emarks			
HICKNESS OF OVERBURD	DEN N/A		тот	AL NU	MBER (	CORE BO	DXES 0				
EPTH TO TOP OF ROCK	N/A		тот	AL SAI	MPLES	DI	<b>STURBED</b> 1	UNL	DISTURBED	(UD)	0
OTAL DEPTH OF BORING	17.0 Feet		тот	AL RE	COVER	Y FOR B	oring 10	0 %			-
	CLASSIFICATION (	OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR RE	ILLING MARKS	BLOWS/ 1 FT.	N-VALUE
- (M sof	H) SILT, inorganic-H ft consistency, wet, d	, high plasticity, very ark gray,						-200=9	l, LL=61,		
сог	H) CLAY, fat, high pl nsistency, wet, dark g ce shell	asticity, soft iray, inorganic,	100	1		v	ibracore	-200= PL=32	2, LL=65, 3, MC=		

DRILLING LOG (Cont. Sheet)			Boring Designation <b>N</b> INSTALLATION Mobile District							SHEET 2			
			,								OF 2 SHEETS		
PROJEC								<b>ум</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERTICAL MLLW			
0047				1					INADOS	IVIL	L V V		
	ON COOR		<b>:s</b> = 125,543	<b>ELEVAT</b> -48.0		JP UF	BURING	3					
ELEV.	DEPTH		CLASSIFICATION OF MATERIALS	-40.0	RĚC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT. N-VALUE		
		Ŭ.				BO		METHOD		-	<u>r</u> Z		
-62.1- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -		<u>At El62.0 Ft. with shells</u> (CH) CLAY, fat, high plasticity, very s consistency, wet, tan	tiff	100	1		Vibracore					
<u>-65.0</u>			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.										
<b>SAM F</b> UG 201	ORM 1	836-A	AFTER ▼ DURING ▽ DRILLING ▼ DRILLING					Boring De	esignation	MHVB	C-15-		





DRI	LLIN	G LOO	G D	IVISION	South Atlantic	INSTALLATION Mobile District									
PROJ	ЕСТ					LAT	LONG	COORI	DINATE	LAT = 30.34	42457				
10	63-106	A Suba	urface In	vestigation		STA	TE PL/	ANE CO	ORDINA				24,929		
	OF BO			STARTED	COMPLETED	COORDINATE SYSTEM/DATUM/UNITS HORIZ.							VER		
										Vest - U.S. Su <b>TOP OF BO</b>		NAD8	83 DUND V	MLL VATE	
	ING AC			orps of Engineer		ELEVATIONS         TOP OF BORING -31.8 Feet         GROUND Undervice           MANUFACTURER'S DESIGNATION OF DRILL         Undervice						Inderw	ater		
NAME		VA, Geo	<b>D INSPECT</b> ologist		NAME OF DRILLER N/A	N/AN		IURER	S DESI	SNATION OF DR			O HAM UAL H		ER
	RECTION OF BORING DEG. FROM BEARING														
						SIZE AND TYPE OF BIT     See Remarks       TOTAL NUMBER CORE BOXES     0									
		OVERBU		N/A		-				-					
		OF ROC		N/A		-		MPLES		ISTURBED ()		DISTURE	BED (UI	<b>D</b> ) (	0
TOTAL			NG	19.5 Feet		тот	-	COVER	Y FOR E	SORING NOT	Record	led		2.	ш
ELEV.	DEPTH	LEGEND	CL	ASSIFICATION OI	MATERIALS	RĚC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DI RE	RILLING		BLOWS/ 0.5 FT.	N-VALUE
-31.8	0.0														
<u>-51.0</u>	- 0.0		(CH) CL/	AY, fat, high pla	sticity, very soft										
	-		consisten	ncy, wet, gray, o	rganic										
-	Ļ														
	-								A	n a d D a sin s					
-									Adva	nced Boring					
-	-														
	-														
-	-														
-	-													0	
	ļ					NR			SP	T Sampler			ſ	0	
-	-												ŀ	0	0
	-												ŀ	0	
-	-														
	-														
•															
-	-														
	L								Adva	nced Boring					
-	-														
•	t i														
-	╞														
-	ļ														
	ŀ														
-	F							1					ľ	0	
	ŀ					NR			SP	T Sampler			ŀ	0	

DR		LOG (Cont. Sheet)	INSTALL Mobil COORDII State Pla	n SS Horizontal NAD83	SHEET 2 OF 2 SHEET VERTICAL MLLW					
	ON COORDIN	ATES	ELEVAT	NAD03		_ • •				
		Y = 124,929	-31.8				-			
ELEV.	DEPTH	CLASSIFICATION OF MATERIALS		REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 0.5 FT. N-VALUE
-				NR		-	SPT Sampler		_	0
-							Advanced Boring			
-				NR			SPT Sampler			0 0 0 0
							Advanced Boring			
<u>-51.3</u> - - - - -	19.5 	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).	-		
- - - - - - - - -										
SAM F	+ ORM 183	DRILLING - DRILLING -	ced in its	s ent	iretv	L bv Ai	Boring De	L esignation V9127821B0	<b>SS-143</b>	

PROJECT       LAT/LONG COORDINATES       LAT = 30.338743       LONG = -8         1982-1984 Subsurface Investigation       STATE PLANE COORDINATES       X = 1,802,405       Y = 123,5         DATE OF BORING       STARTED 01-08-84       COMPLETED 01-08-84       COORDINATE SYSTEM/DATUM/UNITS       MORIZ.         DRILLING AGENCY       Corps of Engineers - CESAM       ELEVATIONS       TOP OF BORING -43.0 Feet       NAD83         DRILLING AGENCY       Corps of Engineers - CESAM       ELEVATIONS       TOP OF BORING -43.0 Feet       GROUML Unde         NAME & TITLE OF FIELD INSPECTOR H. Gates, Geologist       NAME OF DRILLER C. Fuller       MANUFACTURER'S DESIGNATION OF DRILL Vibrocore       AUTO HA MANUAL         DIRECTION OF BORING       DEG. FROM VERTICAL       BEARING       SIZE AND TYPE OF BIT       See Remarks         THICKNESS OF OVERBURDEN       N/A       TOTAL NUMBER CORE BOXES       0       0         DEPTH TO TOP OF ROCK       N/A       TOTAL SAMPLES       DISTURBED       1       UNDISTURBED ( CLASSIFICATION OF MATERIALS       TOTAL RECOVERY FOR BORING       100 %         ELEV.       DEPTH       Q G       CLASSIFICATION OF MATERIALS       REC.       Super Social Socia	DRI	LLIN	G LO	G	DIVIS	ION	So	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile	Distric	t	SHEE1 OF 2		ETS
1982-1984 Subsurface Investigation       X = 1,802,405       Y = 12.33         DATE OF BORING       OT-08-84       01-08-84       OT-08-84         DILLING AGENCY       Corps of Engineers - CESAM       ELEVATIONS       TOP OF BORING         NAME & TITLE OF FIELD INSPECTOR       NAME OF DRILER       MANUFACTURER'S DESIGNATION OF DRILL       Index         H. Gates, Geologist       C. Fuller       MANUFACTURER'S DESIGNATION OF DRILL       AUTO MA         DIRECTION OF BORING       VERTICAL       INCLINED       BEARING       Size AND TYPE OF BIT       See Remarks         THICKNESS OF OVERBURDEN       N/A       TOTAL NUMBER CORE BOXES       0       DEPTH TO TOP OF ROCK       N/A       TOTAL SAMPLES       DISTURBED 1       UNDISTURBED 1         CLASSIFICATION OF MATERIALS       SEE       DISTURBED 1       UNDISTURBED 1       UNDISTURBED 1         43.0       0.0       CLASSIFICATION OF MATERIALS       SEE       SEE       REC.       SEE       BOY         43.0       0.0       CLASSIFICATION OF MATERIALS       SEE       BOY       AUMISTURBED 1       UNDISTURBED 1         43.0       0.0       CLASSIFICATION OF MATERIALS       SEE       BOY       AUMISTURBED 1       UNDISTURBED 1         CHILLING       AL EL47.0 FL, soft consistency, dark gray       A	PROJ	ЕСТ							LAT	LONG	COOR	DINATE	LAT = 30.3	338743	LONG			
Instruction of BORING       STARTED 01-08-84       COMPLETED 01-08-84       COORDINATE SYSTEM/DATUM/UNITS State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - Alabama West - U.S. Survey FL       MORIZ. NAME State Plane - St	10	82-198	4 Subs	surface	e Investi	gation			STA	TE PL	NE CO	ORDINA	<b>TES</b> X = 1,8	802,405	Y = 7	123,57	7	
DRILLING AGENCY     Corps of Engineers - CESAM     ELEVATIONS     TOP OF BORING (-43.0 Feet     GROUNU (-43.0 Feet       NAME & TITLE OF FIELD INSPECTOR H. Gates, Geologist     NAME of DRILLER C. Fuller     MANUFACTURER'S DESIGNATION OF DRILL Wibrocore     AUTO HA AUTO HA MANUAL       DIRECTION OF BORING INCLINED     DEC. FROM VERTICAL     BEARING     SIZE AND TYPE OF BIT See Remarks     AUTO HA MANUAL       DIRECTION OF BORING INCLINED     DEC. FROM VERTICAL     BEARING     SIZE AND TYPE OF BIT See Remarks     See Remarks       THICKNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BORS     0     0       DEPTH TO TOP OF ROCK     N/A     TOTAL SAMPLES     DISTURBED     1     UNDISTURED ( 100 %       ELEV.     DEPTH     2 3 3 43.0     CLASSIFICATION OF MATERIALS     REC. SE 3 5 5 6 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5				Junaoo	, 111000	STARTE							ATUM/UNITS		HOR	NZ.	VER	
Dirticities Algence T     Corps of Engineers - CESAM     ELEVATIONS     -43.0 Feet     Unde       NAME & TITLE OF FIELD INSPECTOR H. Gates, Geologist     NAME of Diller     MANUFACTURER'S DESIGNATION OF DRILL Vibrocore     AUTO MA     AUTO MA       DIRECTION OF BORING     DEC. FROM VERTICAL     INCLINED     DEC. FROM VERTICAL     BEARING     SIZE AND TYPE OF BIT     See Remarks       THICKNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BOXES     0     DEPTH TO TOP OF ROCK     N/A     TOTAL SAMPLES     DISTURBED     1     UNDISTURBED (100 %)       ELEV.     DEPTH OF BORING     21.0 Feet     TOTAL RECOVERY FOR BORING     100 %     Rec.     Stress of OVERBURDENT     REMARKS       -43.0     0.0     (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic     Reference     Stress of OVERBURDENT     REMARKS       -43.0     CLASSIFICATION OF MATERIALS     Reference     Stress of OVERBURDENT     REMARKS       -43.0     0.0     (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic     Intellerence     Intellerence       -43.0     CLASSIFICATION OF L. soft consistency, dark gray     Intellerence     Att EL -47.0 FL, soft consistency, dark gray     Intellerence																	MLL\	
H. Gates, Geologist       C. Fuller       Vibrocore       AUTO # MANUAL         DIRECTION OF BORING       INCLINED       VERTICAL       INCLINED       SIZE AND TYPE OF BIT       See Remarks         THICKNESS OF OVERBURDEN       N/A       TOTAL NUMBER CORE BOXES       0       DEPTIN TO TOP OF ROCK       N/A       TOTAL NUMBER CORE BOXES       0         DEPTIN FO FORING       21.0 Feet       TOTAL RECOVERY FOR BORING       100 %       ELEV.       DEPTIN       99       CLASSIFICATION OF MATERIALS       REC.       55 / 80       ADVANEEMENT       REMARKS         43.0       0.0       (CH) CLAY, fat, high plasticity, very soft material       Image: Consistency, wet, black, with organic       Image: Consistency, wet, black, with organic       Image: Consistency, dark gray       Image: Consistency, dark gray       Image: Consistency, dark gray       Image: Consistency dark gray       Ima					-	f Engine							-43.0 F	eet		Underv	/ater	
THICKNESS OF OVERBURDEN       N/A       TOTAL NUMBER CORE BOXES       0         DEPTH TO TOP OF ROCK       N/A       TOTAL SAMPLES       DISTURBED       1       UNDISTURBED (         TOTAL DEPTH OF BORING       21.0 Feet       TOTAL RECOVERY FOR BORING       100 %         ELEV.       DEPTH       9       CLASSIFICATION OF MATERIALS       REC.       00000       Advancement       REMARKS         -43.0       0.0       (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic material       Imaterial       Imaterial       Imaterial       At EI47.0 Ft., soft consistency, dark gray       Imaterial       <	NAME						NAN					3 DESI	SNATION OF D					R
THICKNESS OF OVERBURDEN       N/A       TOTAL NUMBER CORE BOXES       0         DEPTH TO TOP OF ROCK       N/A       TOTAL SAMPLES       DISTURBED       1       UNDISTURBED (         TOTAL DEPTH OF BORING       21.0 Feet       TOTAL RECOVERY FOR BORING       100 %         ELEV.       DEPTH       2       CLASSIFICATION OF MATERIALS       REC.       SO OD       ADVANCEMENT       REMARKS         -43.0       0.0       (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic material       I       I       I       I       I         -43.0       0.0       (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic       I <td< td=""><td></td><td></td><td></td><td></td><td>_</td><td>DEG. FRO</td><td>DM AL</td><td>BEARING</td><td>SIZE</td><td></td><td></td><td>FBIT</td><td>See R</td><td>emarks</td><td></td><td></td><td></td><td></td></td<>					_	DEG. FRO	DM AL	BEARING	SIZE			FBIT	See R	emarks				
DEPTH TO TOP OF ROCK       N/A       TOTAL SAMPLES       DISTURBED       1       UNDISTURBED       1         TOTAL DEPTH OF BORING       21.0 Feet       TOTAL RECOVERY FOR BORING       100 %         ELEV.       DEPTH       Q Q Q Q Q Q       CLASSIFICATION OF MATERIALS       R°C.       C Q Q Q Q Q Q       ROD Q Q Q       ADVANCEMENT       DRILLING REMARKS         -43.0       0.0       (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic material       I <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																		
TOTAL DEPTH OF BORING       21.0 Feet       TOTAL RECOVERY FOR BORING       100 %         ELEV.       DEPTH       Sg       CLASSIFICATION OF MATERIALS       R°C.       Sg       ROD SG       ADVANCEMENT       PRILLING REMARKS         -43.0       0.0       (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic material       Image: Consistency, wet, black, with organic material       Image: Consistency, wet, black, with organic material       Image: Consistency, wet, black, with organic       Image: Consistency, wet, black, wet, bla															DIETUR		<b>D) (D</b>	<u> </u>
ELEV.       DEPTH       OBDET       CLASSIFICATION OF MATERIALS       REC.       SEE       ROD OS       ADVANCEMENT       RENALING         -43.0       0.0       (CH)       CLAY, fat, high plasticity, very soft consistency, wet, black, with organic material       Image: Consistency of the consistency of									-						DISTOR	BED (U	<b>b)</b> (	,
-43.0 0.0 (CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic material At El44.5 Ft. LOI=9.9%, -200=81.3%	TOTAL				2	1.0 Feel			101	-		TFORE		10 %			7	W
(CH) CLAY, fat, high plasticity, very soft consistency, wet, black, with organic material At El44.5 Ft. LOI=9.9%, -200=81.3%	ELEV.	DEPTH	LEGEN		CLASSIF		OF MA	TERIALS	RĚC.	BOX O	RQD OR UD	ADV	ANCEMENT METHOD	DI RE	RILLING	5	BLOWS/ 1 FT.	N-VALUE
At El47.0 Ft., soft consistency, dark gray	<u>-43.0</u>	0.0																
				At El	-47.0 Ft.,	soft cor	sister	ncy, dark gray	100	1		V	ibracore	LOI=9	9.9%,			

DRILLING LOG (Cont. Sheet)	INSTAL				oring Designatio	on VC	SHEET	
		ile Dis						SHEETS
PROJECT	COORD State P				и est - U.S. Survey Ft.	HORIZONTAL NAD83	ML	'ICAL LW
LOCATION COORDINATES	ELEVA							
X = 1,802,405 Y = 123,577	-43.0	0 Ft.				-		
	5	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT. N-VALUE
-64.0 21.0 NOTES:	, light	100	1		Vibracore			
1. Soils are field visually classified in accordance with the Unified Soils Classification System.	1							
AM FORM 1836-A AFTER UG 2017 DRILLING ↓ DURING ↓		•			Boring De		VC-38	

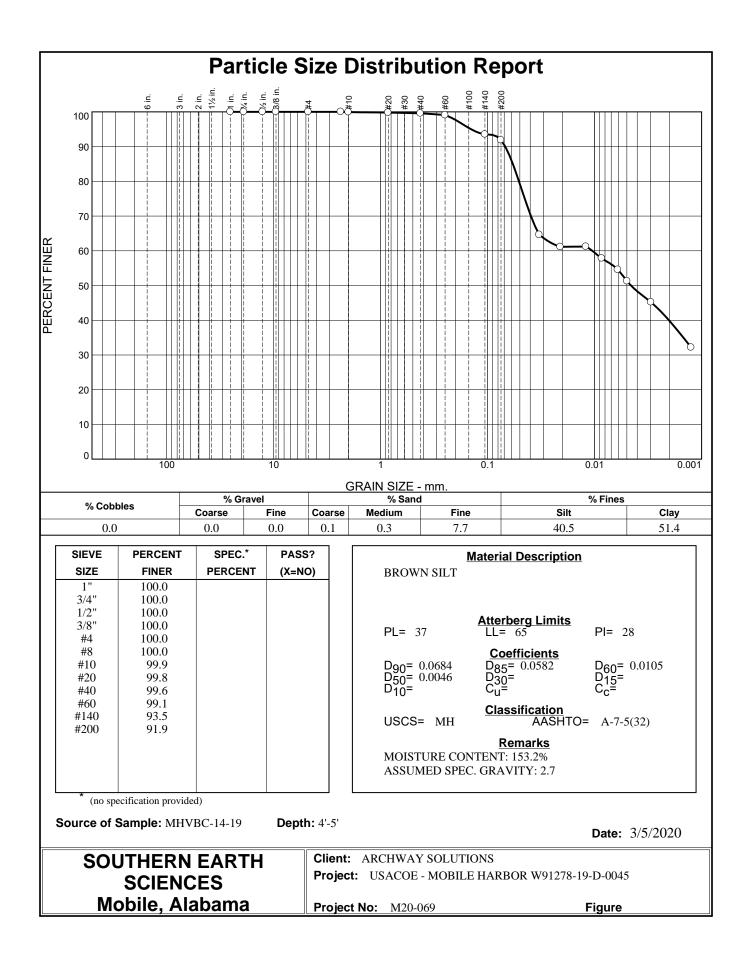
DRI	LLIN	G LO	G	DIV	ISION	So	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile	Distric	t I	SHEET OF 3		ETS
PROJ	ECT							LAT	LONG	COORE	DINATES	LAT = 30.3	36813				
10	63-106	A Quba	surfac	a Invo	stigatior	'n		STA	TE PLA	NE CO	ORDINA			Y = 1			
	OF BO		sunaci		sugatior STAR		COMPLETED	coo	RDINA	TE SYS	STEM/D/	ATUM/UNITS		HORI		VER	т.
												Vest - U.S. Su TOP OF BO		NAD	33 DUND 1	MLL	
DRILI	LING AG	GENCY		Corps	of Engir	neers -	CESAM	E	LEV	ATION	IS	-25.8 Fe		1	nderw		^
NAME	& TITLE	<b>of fiel</b> I/A, Ge				NAN	<b>N/A</b>	MAN N/		TURER	'S DESIC	<b>GNATION OF DR</b>			O HAM UAL H		- 0
DIREC	TION OF	-	0		DEG. F VERTI	ROM	BEARING						L				
$\boxtimes$	VERTICA		INCLIN	IED	VERTI	CAL		SIZE	AND	ТҮРЕ О	FBIT	See Re	emarks				
тніск	NESS OF	OVERB	URDEN	I	N/A			тот	AL NU	MBER (	CORE B	OXES 0					
DEPTH	і то тор	OF ROC	ж		N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURE	ED (UI	<b>)</b> (	0
ΤΟΤΑΙ	. DEPTH	OF BORI	ING		25.5 Fe	et		тот	AL RE	COVER	Y FOR B	oring Not	Record	led			
ELEV.	DEPTH	LEGEND		CLASS	IFICATIO	N OF M/	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
<u>-25.8</u>	0.0				fat, high wet, gray		ity, very soft nic				Adva	nced Boring					
-								NR				T Sampler			-	0 0 0	0
-	ļ																

יפח		G (Cont. Sheet)	INSTALLATIO		B			SHEET 2	
			Mobile D					OF 3 SH	
ROJEC	т		COORDINAT				HORIZONTAL	VERTIC	
			i			est - U.S. Survey Ft.	NAD83	MLLW	/
				FOP OF	BORIN	G			
X = 1	1,802,521 Y	= 122,875	-25.8 Ft.		-			<del></del>	T
ELEV.	DEPTH U	CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	Soo Soo	N-VALUE
						Advanced Boring			
-			NF			SDT Samplar	-	0	-
-						SPT Sampler		0	0
						Advanced Boring			
-			NF			SPT Sampler		0 0 0	0
						Advanced Boring			
- - -	ORM 1836-/	AFTER ▼ DURING ▼ DRILLING ▼ DRILLING	NF			SPT Sampler		0	- 0

DR	ILLIN	G LC	)G (Cont. Sheet)	INSTAL						SHEET	
				-	ile Dis						SHEET
PROJE	СТ			COORD							
0047			Ee					est - U.S. Survey Ft.	NAD83	IVIL	LW
	ION COO		<b>ES</b> = 122,875		<b>FION TO</b> 8 Ft.	JP UF	BURIN	3			
ELEV.	DEPTH	QN	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G (S	BLOWS/ 0.5 FT. N-VALUE
	+				NR	© ™		SPT Sampler			0 0
-	+										0
-	+							Advanced Boring			
-51.3	25.5								_		
-			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
-	+										
-	+ + +										
-	+ + +										
	+ + +										
-	+ + + +										
	† ORM <sup>•</sup> 7	1836	A AFTER ⊻ DURING ⊻ DRILLING ⊻ DRILLING ⊻					Boring De		SS-14	

DRILLING LOG	DIVISION	So	uth Atlantic		IST/	ALLA		Mobile	Distric		EET 1 2 Shi	EETS
PROJECT				LAT	LONG	COORI	DINATE	<b>s</b> LAT = 30.3	3480101	LONG	= -88.02	2715
2020 Geotechnical	Investigation			STA	TE PLA	ANE CO	ORDINA	<b>ATES</b> X = 1,8	302,200	Y = 122	,145	
DATE OF BORING	<b>STAR</b> 01-17		01-17-20					<b>ATUM/UNITS</b> Vest - U.S. Su	in (o) ( Et	HORIZ. NAD83	VEI MLI	
DRILLING AGENCY	Corps of Engir							TOP OF BC				
NAME & TITLE OF FIELD I								-46.0 Fe		_	lerwater	
C. Long, Geotechnie		NAN	CSI		broco				L		HAMMER	
DIRECTION OF BORING	DEG. F VERTI	ROM CAL	BEARING	SIZE		ТҮРЕ О	F BIT	See R	emarks			
				тот		MBER	CORE B	OXES (	1			
DEPTH TO TOP OF ROCK	N/A					MPLES		ISTURBED 1		DISTURBEL	(חוו/ ה	0
TOTAL DEPTH OF BORING		et					Y FOR E	•	0 %		(02)	•
	20.010							10			<i>i õ</i>	۳
	CLASSIFICATIO	N OF MA	ATERIALS	RĚC.	BOX OR SAMPLE	RQD OR UD	۸DV	ANCEMENT METHOD		RILLING	BLOWS/ 1 FT.	N-VALUE
- so sh	IH) SILT, inorganic ft consistency, wet, ell from 0' to 1'		n plasticity, very ray, traces of	100	1		V	'ibracore	-200=	7, LL=65,		

DRILLING LO	DG (Cont. Sheet)	INSTALLA Mobile						SHEET 2 OF 2 S	
ROJECT	. ,					114	HORIZONTAL		
NUJEU I						אזע st - U.S. Survey Ft.		VERTIC MLL\	
OCATION COORDINA									
X = 1,802,200 Y		-46.0 1				-			
ELEV. DEPTH	CLASSIFICATION OF MATERIALS	F	RËC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	يرق BLOWS/	1 FT. N-VALUE
	(CH) CLAY, fat, high plasticity, soft consistency, wet, dark gray, inorganic traces of shell		100	1		Vibracore			
	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.								



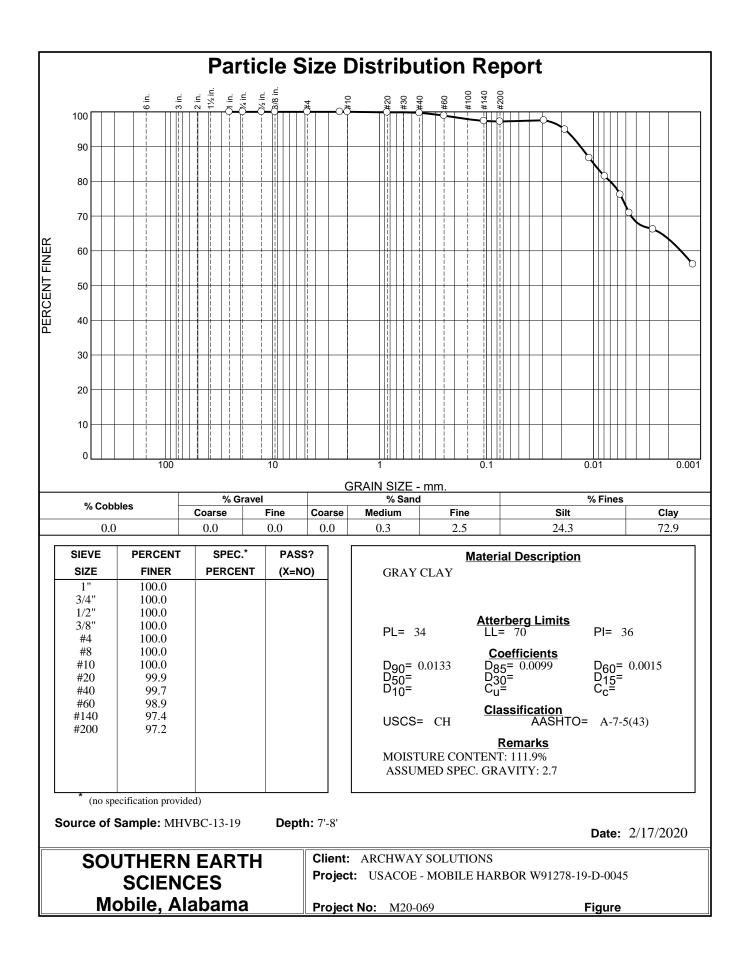
	IG LOO	G   C	DIVISIO	N So	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile	Distric	t I	SHEET DF 3		ETS
PROJECT						LAT	LONG	COORI	DINATES	LAT = 30.3	31543				
1062-10	64 Suba	urface I	Investigati	on		STA	TE PLA	NE CO	ORDINA			Y = 12			
DATE OF B				ARTED	COMPLETED					ATUM/UNITS		HORIZ	-	VER	Т.
										Vest - U.S. Su TOP OF BO		NAD8	UND I	MLL	
DRILLING A			Corps of En	gineers -	CESAM					-28.8 Fe	et		nderw		
NAME & TITL	E OF FIELI N/A, Geo		TOR	NAM	<b>N/A</b>	MAN N/		TURER	'S DESIG	SNATION OF DR	ווג נ		) HAM UAL H		FR
DIRECTION O	-	0	DEG	. FROM	BEARING								<u></u>		
		INCLINED		TICAL		SIZE	AND	TYPE O	FBIT	See Re	marks				
THICKNESS	OF OVERBI	JRDEN	N/A			тот	AL NU	MBER (	CORE B	OXES 0					
<b>DEPTH TO TO</b>	OP OF ROC	к	N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURB	ED (U	D)	0
TOTAL DEPTI	H OF BORI	NG	22.5	Feet		тот		COVER	Y FOR E	oring Not	Record	ed			
ELEV. DEPTI	LEGEND	c	LASSIFICAT	ION OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS		BLOWS/ 0.5 FT.	N-VALUE
-28.8 0.0			LAY, fat, hiạ		ity, very soft	NR				nced Boring				0 0 0	0
									Adva	nced Boring					
ł						1			1						

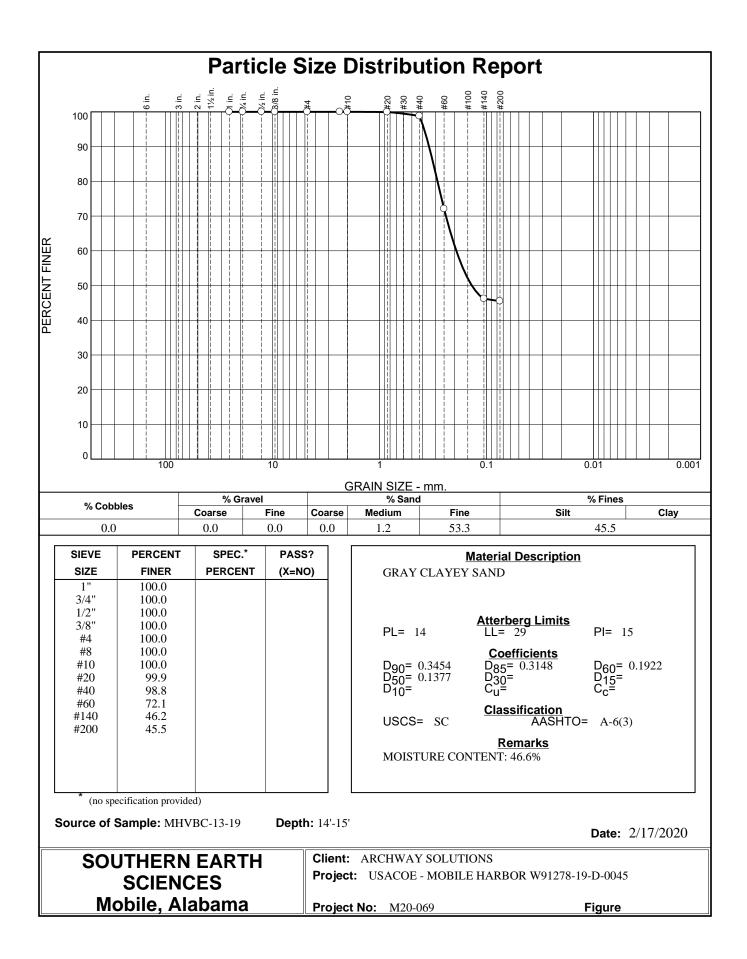
DRILLING LOG (Cont. Sheet)	INSTALLATIO Mobile Di					SHEET 2 OF 3 SH	IEETS
PROJECT	COORDINATI				HORIZONTAL	VERTIC	
				est - U.S. Survey Ft.	NAD83	MLLV	V
		OP OF	BORIN	G			
X = 1,801,719     Y = 120,962       ELEV.     DEPTH     Organization       UP     CLASSIFICATION OF MATERIALS	-28.8 Ft.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLING REMARK	NSN ONS/	N-VALUE
		. BO SAI		метнор			ž
				Advanced Boring			
	NR			SPT Sampler		0	- 0
				Advanced Boring			
	NR			SPT Sampler		0	- 0
-51.3 22.5				Advanced Boring			
NOTES:       1. Soils are field visually classified in accordance with the Unified Soils       SAM FORM 1836-A     AFTER DURING	1			140# hammer w/30" drop used with 2.0' split spoon			

PROJEC			<u>Ng (Cont. Sneet)</u>							SHEET		
ROJEC			DG (Cont. Sheet)		ile Dis						SHEET	S
	т			COORD					HORIZONTAL		FICAL	
								est - U.S. Survey Ft.	NAD83	l Ml	.LW	_
	ON COOF			ELEVAT		OP OF	BORING	3				
X = 7	i,ŏ∪1,71 I		= 120,962	-28.8							_ I #	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT. N-VALUE	
-	-		Classification System.					(1-3/8" I.D. x 2" O.D.).				
-												
_	-											
-	-											
-												
-	-											
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-												
-	-											
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-	+											
-												
-												
-												
		835	A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING						esignation	 SS-14		

roject I.	D.									Bo	oring Desig	nation		/BC-1	3-19
DRILL	ING L	OG	DIVI	SION	Sout	h Atlantic	IN	IST/	ALLA		Mobile	District		EET 1 2 SH	EETS
PROJECT	т						LAT	LONG	COORE	DINATES	LAT = 30.3	32946113	LONG :	= -88.0	28304
2020	Geotech	nical li	nvestigat	ion			STA	TE PL/	NE CO	ORDINA	X = 1,8	301,827	Y = 120,	204	
DATE OF	BORING		Ŭ	<b>STARTE</b> 01-17-2		<i>COMPLETED</i> 01-17-20					<b>TUM/UNITS</b> Vest - U.S. Su	IN/OV Et	<i>HORIZ.</i> NAD83	VE ML	<b>RT.</b>
	G AGENC	Y	Corps	of Engine	-						TOP OF BC	,			
	ITLE OF FI		-			OF DRILLER					-46.0 Fe			erwate	
C. Lo	ng, Geot	echnica	al Enginee	r		CSI	Vi	brocoi	re						
_	N OF BORII	_	INED	DEG. FRO	DM AL	BEARING	SIZE	AND	ТҮРЕ О	FBIT	See R	emarks			
	SS OF OVE	_		N/A			тот	AL NU	MBER (	CORE BO	DXES (	)			
ЕРТН ТО	TOP OF R	оск		N/A			тот	AL SAI	MPLES	DI	<b>STURBED</b> 1	UNL	DISTURBED	) (UD)	0
OTAL DE	PTH OF BC	RING		19.0 Feet	:		тот	AL RE	COVER	Y FOR B	ORING 10	0 %			
LEV. DE	PTH LEGEND		CLASSI	FICATION	OF MATE	RIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR RE	RILLING MARKS	BLOWS/	N-VALUE
	.5	(CH con:	Consisten	cy, wet, b	lack,	asticity, very	100	1		V	ibracore	-200=9	1, LL=70, ,		
Т		1					1							1	1
-	RM 1836	1	AFTER DRILLING			-	ontinue				Boring De			IVBC-	

DRILLING LOG (Con ROJECT	-	Mobile COORDIN	ATE S		M/DATU	м	HORIZONTAL	OF 2 VERT	
OCATION COORDINATES				<b>JISTE</b>	ΝΙ/ DATL	111	HURIZUNTAL	ı VERT	ILAL
			ne - 1	Alahar	na ₩e	st - U.S. Survey Ft.	NAD83	ML	
		ELEVATIO							
X = 1,801,827 Y = 120,204	4	-46.0							
Q Z	LASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 1 FT. N-VALUE
-59.5 13.5 -59.5	AND, clayey, soft consistency, ay 52.0 Ft., soft consistency, wet, o	wet,	100	1 BOO	ŬB	Vibracore	At El60 Fi -200=45%, PL=14, LL= PI=15, MC=47%	t.	
_ accorda	: are field visually classified in ince with the Unified Soils cation System.								





rojec	t I.D.										Bo	oring Design	ation			SS-	149
DRI	LLIN	G LO	G	DIVI	SION	So	uth Atlantic	IN	IST/	LLA	ΤΙΟΙ	Mobile [	Distric	t	SHEET OF 2		ETS
PROJ	ECT							LAT	LONG	COORI	DINATE	LAT = 30.32	5992	LONG	= -88.	0285	79
19	63-196	4 Subs	surface	e Inves	tigatio	n		STA	TE PLA	NE CO	ORDIN/	<b>TES</b> X = 1,80	1,735	Y = 1	18,94	3	
	OF BOI					RTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Sur	yoy Et	HOR NAD		VER MLL	
RILI	ING AG	ENCY		Corps	of Engi	neers - (	CESAM					TOP OF BOR			OUND		
	& TITLE		D INSPE									-34.8 Fee			Jnderv		
		/A, Ge	-				N/A	N/	Ά				[		NUAL H		ER
	TION OF			ED	DEG.	FROM	BEARING	SIZE	AND	ГҮРЕ О	FBIT	See Rer	narks				
ніск	NESS OF	OVERB	URDEN		N/A			тот		MBER (	CORE B	DXES 0					
EPTH	і то тор	OF ROC	ж		N/A			тот	AL SAI	MPLES	D	STURBED ()	UN	DISTUR	BED (U	<i>D)</i> (	)
ΟΤΑΙ	DEPTH	OF BORI	ING		16.5 Fe	eet		тот	AL REG	COVER	Y FOR E	oring Not	Record	led			
LEV.	DEPTH	LEGEND		CLASSI	FICATIO	ON OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING	5	BLOWS/ 0.5 FT.	N-VALUE
34.8	0.0		(CH) (	CLAY.	fat. hiał	n plastici	ty, very soft										
-	F			tency,			<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
-	ł										Adva	nced Boring					
-	-											g					
-	ļ.																
-	ŀ															0	
-	-															-	
-	ļ.							NR			SP	T Sampler				0	0
-	ł															0	
-	ł																
-																	
-	ł																
-	$\vdash$																
-	ļ										Adva	nced Boring					
-	Ļ																
-	ł																
-	t -																
-	F																
-	-																
-	ļ															0	
-	ł							NR			SP	T Sampler				0	0
-	ł															0	U
-	‡																
-	ł										Adva	nced Boring					
. M F	ORM 1	926	٨٥	TEP													
G 201		030	DR	TER RILLING	⊥ DC DF	JRING RILLING	C) ∬ Replaced in i	ontinue			Ι.	Boring Des	-		SS-14		

DR	ILLING	LO	G (Cont. Sheet)	INSTAL						SHEET	
PROJEC		-			ile Dis				HODIZONIZA	OF 2	
RUJE	•1			COORD				им est - U.S. Survey Ft.	HORIZONTAL NAD83	VERT ML	
0041	ON COORDI		:S	ELEVA							
	1,801,735			-34.				-			
ELEV.		LEGEND	CLASSIFICATION OF MATERIALS	•	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE
- - - - - - - - - - - - - - - - - - -								Advanced Boring			
- - - - - -					NR			SPT Sampler	-		0 0 0 0
- -51.3	16.5							Advanced Boring			
- - - - - - - - - - - - - - - - - - -			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
	- - - - - - - - - - - - - - - - - - -	36-A	AFTER ▼ DURING ▼ DRILLING ▼					Boring De	esignation	SS-149	)

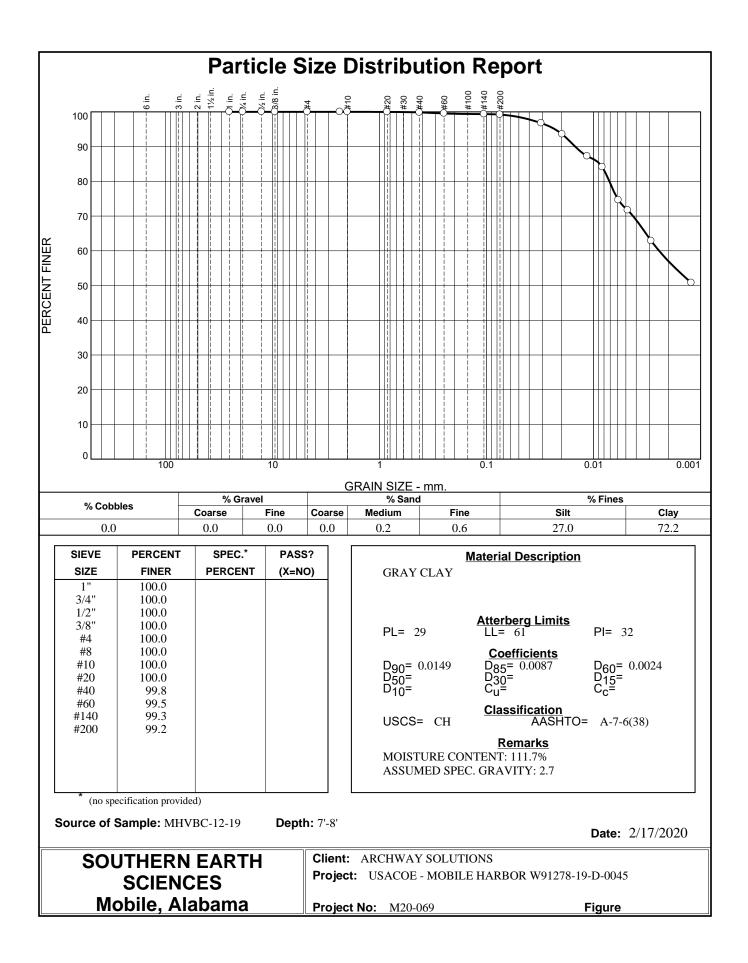
DRILLING LOG	DIVISION	South Atlantic	IN	IST/	ALLA	ΤΙΟΙ	Mobile	Distric	t I	SHEET OF 3		ETS
PROJECT	•		LAT	LONG	COORI	DINATE	<sup>s</sup> LAT = 30.3	24161				
1982-1984 Subsurfa	ace Investigation		STA	TE PLA	ANE CO	ORDINA	<b>XTES</b> X = 1,8	801,655	Y = 1	18,277	7	
DATE OF BORING	START						ATUM/UNITS		HOR		VER	
	01-08-8	1					Vest - U.S. Su <b>TOP OF BO</b>		NAD GR	83 ound i	MLL\ NATER	
DRILLING AGENCY	Corps of Engine					_	-42.0 Fe		ι	Jnderw	/ater	
H. Gates, Geol		NAME OF DRILLER C. Fuller		brocoi		3 DESI	SNATION OF DR			O HAM		R
	DEG. FR	OM BEARING	SIZE		ТҮРЕ О	FBIT	See Re	emarks				
						CORE B						
THICKNESS OF OVERBURD	EN N/A				MPLES		ISTURBED 1		DISTURI		<b>D) (D</b>	
TOTAL DEPTH OF BORING	28.7 Feet						•	0 %	DISTOR	BED (0	<b>)</b> (	<u> </u>
	20.7 1 66			-		FORE		5 78			2	H
ELEV. DEPTH	CLASSIFICATION	OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DI RE	RILLING EMARKS		BLOWS/ 1 FT.	N-VALUE
	<ul> <li>H) CLAY, fat, high p hisistency, wet, black terial</li> <li>El45.5 Ft., soft con</li> </ul>	, with organic	100	1		V	l'ibracore					

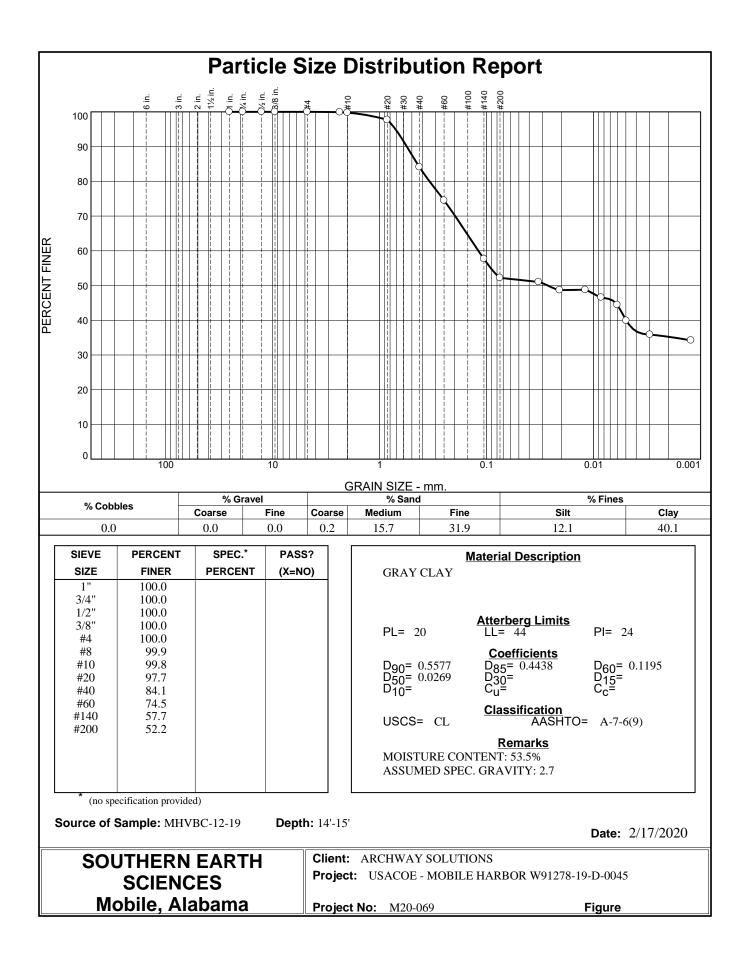
OWNER         OPENANT         OPENANT         OPENANT         OPENANT         OPENANT         OPENANT         OPENANT         NUMBER SYSTEMANTMM State Plane - Alabama West - U.S. Survey Fit.         MOREONTAL MULW         VENTOR           1000-07000-0000000000000000000000000000	DRILLING LOG (Cont. Sheet)	INSTALL					SHEET	
State Plane - Alabama West - U.S. Survey Ft.         NAD83         MLLW           COCATION COORDINATES X = 1.801.655         Y = 118.277         ELEVATION TOP OF BORING -42.0 Ft.         -42.0 Ft.         -42.0 Ft.           ELEV.         DEPTH         9 9 9 9 1         CLASSIFICATION OF MATERIALS         rec.         52 82 82 82 82         FOD 82 82         ROD 82 82         ROD 82 82 <throd 82         ROD 82         ROD 82 82<th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></throd 								
OCATION COORDINATES       ELEVATION TOP OF BORING         X = 1.801.655       Y = 118.277         See       See       See       Rec.       See       Robit Advancement       Remaining       Bit See         LEEV.       DEPTH       Bg       CLASSIFICATION OF MATERIALS       Rec.       See       Robit Advancement       Remaining       Between the see         LEEV.       DEPTH       Bg       CLASSIFICATION OF MATERIALS       Ref.       See       Robit Advancement       Remaining       Between the see         LEEV.       DEPTH       Bg       CLASSIFICATION OF MATERIALS       Ref.       See       Robit Advancement       Remaining       Between the see         LEEV.       DEPTH       Bg       CLASSIFICATION OF MATERIALS       Ref.       See       Robit Advancement       Remaining       Between the see         LEEV.       DEPTH       Bg       CLASSIFICATION OF MATERIALS       Ref.       See       Robit Advancement       Remaining       Between the see       Between the see         LEEV.       Depth       CLASSIFICATION OF MATERIALS       Ref.       See       Robit Advancement       Between the see       Between the see         At El58.0 Ft., medium consistency       Left       Left       Left       Left								
X = 1.801.655       Y = 118.277       -42.0 FL         LLEV       DEPTH       Organization of materials       Rec.       SSB       SSB       ODV       ADVANCEMENT       REMARKS       B       B         1       0       0       0.000       ADVANCEMENT       REMARKS       B       B       B         1       0       0.000       ADVANCEMENT       REMARKS       B       <						ΙΝΑΠΟΟ	IVIL	L V V
ELEV. DEPTH 03 CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 058 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 000 ADVANCEMENT REMAINS 051 02 AUXILIARY CLASSIFICATION OF MATERIALS NEC. 050 0000 ADVANCEMENT RE			UF	DUKING	•			
At El58.0 Ft., medium consistency			X OR MPLE	RQD OR	ADVANCEMENT	DRILLIN	Ģ	PWS/ FT. ALUE
			 BO SA	00	METHOD			S -B
AM FORM 1836-A AFTER DURING DURING C (Continued) Boring Designation VC-40-84								

	)G (Cont. Sheet)	INSTALL				oring Designatio		С-40-84	
			le Dist					OF 3	
ROJECT		COORDI						VERT	
OCATION COORDINAT	Ee	ELEVAT				est - U.S. Survey Ft.	NAD83	ML	_ v v
X = 1,801,655 Y		-42.0			DURING	3			
ELEV. DEPTH	CLASSIFICATION OF MATERIALS	12.0	REC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G (S	BLOWS/ 1 FT. N-VALUE
	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.		100	1 1		Vibracore			

Project I.D.					Bo	oring Desig	nation		BC-12	2-19
DRILLING LOG DIVISI	<b>DN</b> South Atlantic	IN	IST/	ALLA		Mobile	Distric		EET 1 2 She	EETS
PROJECT		LAT	LONG	COORE	DINATES	• LAT = 30.3	32201493	B LONG =	-88.02	28947
2020 Geotechnical Investigation		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	301,612	Y = 117,4	497	
DATE OF BORING	TARTED         COMPLETED           1-17-20         01-17-20					<b>ATUM/UNITS</b> Vest - U.S. Su	urvev Ft.	HORIZ. NAD83	VER MLL	
	Engineers - CESAM					TOP OF BO	RING	GROUN	ID WATE	R
NAME & TITLE OF FIELD INSPECTOR	NAME OF DRILLER	MAN	UFAC	TURER'	'S DESIG	-49.0 Fe			erwater AMMER	
C. Long, Geotechnical Engineer	CSI EG. FROM BEARING	Vi	broco	re					L HAMM	ER
	ERTICAL	SIZE	AND	ТҮРЕ О	FBIT	See R	emarks			
THICKNESS OF OVERBURDEN N//	A	тот	AL NU	MBER (	CORE BO	<b>DXES</b> (	)			
<b>DEPTH TO TOP OF ROCK</b> N//	A	тот	AL SA	MPLES	DI	<b>STURBED</b> 1	UN	DISTURBED	(UD)	0
TOTAL DEPTH OF BORING 18.	) Feet	тот		COVER	Y FOR B	oring 10	0 %			
	ATION OF MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT	DF RE	RILLING	BLOWS/ 1 FT.	N-VALUE
-52.0 3.0 (CH) CLAY, fat,	anic-H, high plasticity, very wet, black, with shell oft consistency, dark gray high plasticity, soft dark gray, traces of sand tic	100	1		V	ïbracore	-200=			

DRILLING LC	DG (Cont. Sheet)	INSTALLA Mobile						SHEET OF 2	
PROJECT	· -				M/DATI	IM	HORIZONTAL		ICAL
						st - U.S. Survey Ft.	NAD83		LW
LOCATION COORDINAT	ES	ELEVATIO							
X = 1,801,612 Y	= 117,497	-49.0							
ELEV. DEPTH	CLASSIFICATION OF MATERIALS		RËC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 1 FT. N-VALUE
-62.0 13.0 -62.0 13.0 -65.0 16.0 65.0 16.0	(CL) CLAY, lean, low plasticity, soft consistency, wet, dark gray, inorganic (SC) SAND, clayey, soft consistency, dark gray, inorganic	2	100	1		Vibracore	At El63 F -200=52%, PL=20, LL= PI=24, MC= 53%	t. 44,	
	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.								



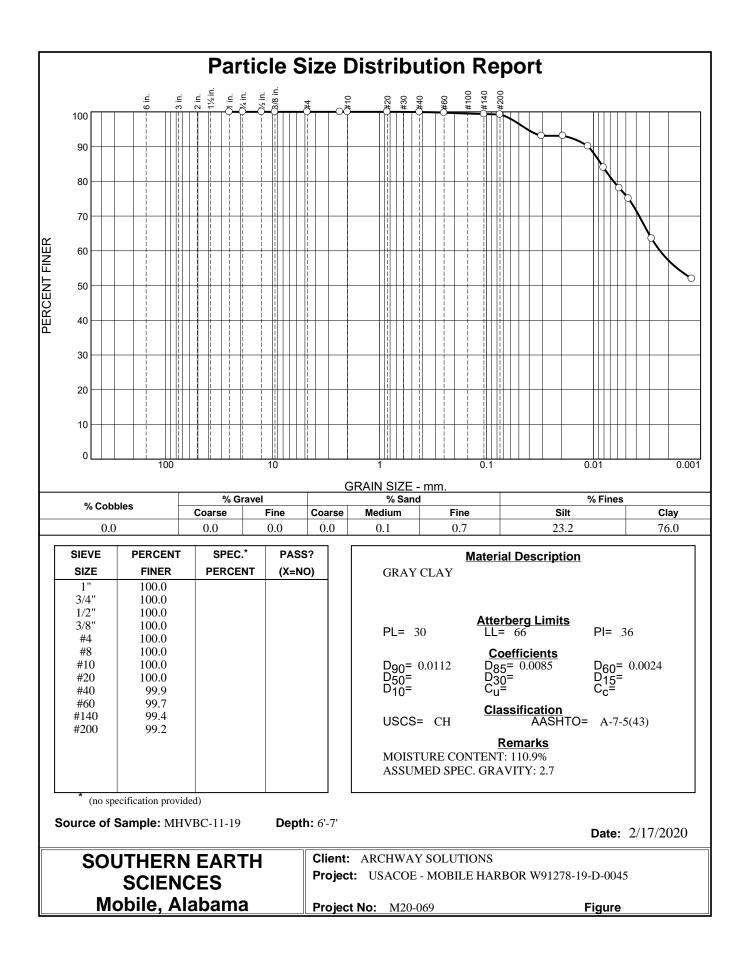


DRILLIN	g log	DI	VISION S	South Atlantic	IN	IST/	ALLA	ΤΙΟΙ	Mobile	Distric	t I	EET 1 2 SH	EETS
PROJECT		•			LAT	LONG	COORI	DINATE	<sup>s</sup> LAT = 30.32	20444			
1963-196	4 Subsu	rface Inv	restigation		STA	TE PL	ANE CO	ORDINA	<b>XTES</b> X = 1,80	01,750	Y = 116	,925	
DATE OF BOI			STARTED	COMPLETED					ATUM/UNITS		HORIZ.		RT.
		0							Vest - U.S. Sui TOP OF BOI		NAD83	ML	LW Er
DRILLING AG			ps of Engineers						-32.3 Fe	et	Und	lerwate	r
	I/A, Geol			<b>AME OF DRILLER</b> N/A	N/AN		IUKEK	5 DESI	SNATION OF DR	ניייייייייייייייייייייייייייייייייייי		IAMMER	
			DEG. FROM VERTICAL	BEARING	SIZE		TYPE O		See Re	marks			
			N/A										0
DEPTH TO TOP			N/A				MPLES		ISTURBED ()		DISTURBEL	(עט)	0
			19.0 Feet		101			FORE	SORING NOT	Record	ea	1.2	Ш
ELEV. DEPTH	LEGEND	CLA	SSIFICATION OF	MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS	BLOWS/ 0.5 FT.	N-VALUE
-32.3 0.0		CH) CLA	Y, fat, high plas	ticity, very soft								_	
Į			y, wet, gray,	,, ,									
t													
Ŧ								Adva	nced Boring				
ţ													
+													
ţ													
ł												0	
Ŧ					NR			SP	T Sampler			0	
ţ												0	0
+												Ļ	
ţ													
ł													
Ţ													
t													
Ŧ													
ţ								Adva	nced Boring				
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ł													
Į												0	
ţ					NR			SD	T Sampler			0	1
ł												-	0
					1		1					0	1

DRILLING LC	)G (Cont. Sheet)	INSTALLA Mobile						SHEET OF 2	
PROJECT		COORDIN			M/DAT	ЈМ	HORIZONTAL	VERT	
		State Pla	ne - /	Alabar	na We	est - U.S. Survey Ft.	NAD83	MLI	
OCATION COORDINAT	ES	ELEVATIO	ол то	P OF I	BORING	)			
X = 1,801,750 Y	= 116,925	-32.3	Ft.						
ELEV. DEPTH	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD ÖR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT. N-VALUE
						Advanced Boring			
			NR			SPT Sampler			0 0 0 0
-51.3 19.0						Advanced Boring			
	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
+   AM FORM 1836-/	A AFTER ▼ DURING ▼ DRILLING ▼ DRILLING ▼						signation	SS-151	

roject l	I.D.										Bo	oring Desig	nation		BC-1	1-19
DRILI	LING	6 LOC	G	DIVIS	ION	Sout	n Atlantic	IN	ISTA	LLA	ΤΙΟΙ	Mobile	District		EET 1 2 SH	EETS
PROJEC	ст							LAT	LONG	COORE	INATE	<b>b</b> LAT = 30.3	1673335	5 LONG :	= -88.0	30166
2020	) Geot	technic	cal Inve	estigatio	on			STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,8	01,219	Y = 115,	578	
	F BOR	ING			<i>STARTE</i> 01-17-2		<i>COMPLETED</i> 01-17-20					<b>ATUM/UNITS</b> Vest - U.S. Su	rvev Ft	HORIZ. NAD83		e <b>rt.</b> LW
DRILLIN		ENCY		Corps of								TOP OF BO	RING	GROUN	D WAT	ER
NAME & 1	TITLE C	OF FIELD					OF DRILLER	MAN	UFAC	URER'	S DESI	-49.0 Fe		Und		
	-		nnical Ei	-			CSI	Vi	brocor	e			Ĭ			
IRECTIO			INCLINE	D	DEG. FRO VERTICA		BEARING	SIZE		ГҮРЕ О	F BIT	See Re	emarks			
THICKNE	ESS OF	OVERBL	URDEN	N	I/A	I		тот	AL NU	MBER C	ORE B	oxes 0				
ЭЕРТН Т	о тор	OF ROC	к	Ν	I/A			тот	AL SAI	<b>NPLES</b>	D	<b>STURBED</b> 1	UN	DISTURBED	(UD)	0
TOTAL DI	ЕРТН С	DF BORI	NG	20	0.0 Feet			тот		OVER	Y FOR E	oring 10	) %			
LEV. DI	ЕРТН	LEGEND		CLASSIFI	CATION	OF MATE	RIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING MARKS	BLOWS/	N-VALUE
49.0 (	<u>0.0</u>		consist trace sł	CLAY, fat ency, we hell 51.5 Ft. t nodules	et, dark و with ligh	gray, ind	organic,									
								100	1		V	ïbracore	-200=	), LL=66, ,		
AM FOI	RM 1	836	AFT DRI	TER _	DURI DRILL	<sup>NG</sup> ⊻ ING R		ontinue ts ent		by Ar	mendi	<i>Boring De</i> ment No. W	-		-0001	

DR	LLING	LOG (	Cont. Sheet)	INSTALL/						SHEET	
ROJEC		. (	,	Mobile			MIDAT	184	HOPIZONIA	OF 2	
OJEC	, 1			COORDIN State Pla				<b>ум</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	ML	ICAL I W
0047		NATES									- • •
	1,801,219		5.578	-49.0			bonne	•			
ELEV.			CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 1 FT. N-VALUE
- <u>-69.0</u>		NO <sup>1</sup> . S	TES: Soils are field visually classified in ordance with the Unified Soils ssification System.		100	1		Vibracore			
	- - - - - -										
-	ORM 18		AFTER ▼ DURING ▽ DRILLING ▼ DRILLING						esignation		



rojec DRI		G LO	G	DIVISI	ON So	uth Atlantic	IN	ISTA	ALLA	Bo TIO	N Mobile			EET 1 3 SH	-153 еетs
PROJ	ECT						LAT	LONG	COORI	DINATE	<b>s</b> LAT = 30.3	15174			
40	062 400	10.4	ourfo	Invocti-	ation		STA	TE PLA	NE CO	ORDIN			Y = 115,		
	OF BO		surrace	Investig	ation <b>STARTED</b>	COMPLETED	coo	RDINA	TE SYS	STEM/D	ATUM/UNITS		HORIZ.	VE	RT.
											Nest - U.S. Su <b>TOP OF BO</b>		NAD83 GROUN	ML	
	LING AC				Engineers -				TION		-28.3 Fe	et		erwate	
NAME			D INSPE	CTOR	NA	ME OF DRILLER N/A	MAN N/		TURER	'S DESI	GNATION OF DR	ILL [			
DIREC	TION OF		-	D	EG. FROM	BEARING					0 D -	-			
$\boxtimes$	VERTICA		INCLINE	D					ГҮРЕ О		See Re				
	NESS OF			N/							-				
	і то тор			N/					MPLES		ISTURBED ()		DISTURBED	(UD)	0
ΤΟΤΑΙ	L DEPTH		ING	23	.0 Feet		тот		COVER	Y FOR E	BORING Not	Record	ed		
ELEV.	DEPTH	LEGEND		CLASSIFIC	ATION OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	۸D	ANCEMENT METHOD	DF RE	ILLING MARKS	BLOWS/ 0.5 FT.	N-VALUE
-28.3	0.0														
	ł		(CH) C	CLAY, fat, tency, wet	high plastic t_gray	ity, very soft									
•	‡ +			, <b>,</b>	-, <u>g</u> , <u>j</u> ,										
-	╞														
•	ŧ.														
	Ł									Adva	anced Boring				
	ł														
	ţ														
-	+														
•	† -														
	Ł													0	
	F						NR			SP	T Sampler			0	
•	ţ													0	0
-	+													<u> </u>	
•	‡														
	ł														
-	F														
	t														
-	F									Adva	anced Boring				
	ţ														1
	ł														
-	ţ														1
	ł														1
-	Į.														
	t						NR			en	T Sampler			0	
	ł										i Samplel			0	1
							1								1

DR	DRILLING LOG (Cont. Sheet)					Boring Designation S INSTALLATION Mobile District								
ROJECT				COORDIN	OF 3 SHE		-							
			1				est - U.S. Survey Ft.	NAD83	ML	LW				
			10	ELEVATI		P OF I	BORING	3						
X =	1	Y = 115,0	12	-28.3 Ft.										
LEV.	DEPTH		CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLING REMARK	S		N-VALUE		
•				-	NR			SPT Sampler		-	0	0		
								Advanced Boring						
- - - -				-	NR			SPT Sampler			0 0 0	0		
	23.0							Advanced Boring						
	ORM 18:	NOTE			ntinue			140# hammer w/30" drop used <i>Boring De</i>		SS-153				

		Boring Designation S											
	- L(	DG (Cont. Sheet)	1	Mobile District									
ROJECT	COORD					HORIZONTAL							
				lane - J	Alaba	ma We	est - U.S. Survey Ft.	NAD83	MLL	W			
OCATION COO			ELEVAT		OP OF	BORING	G						
X = 1,800,94	48 Y	<sup>′</sup> = 115,012	-28.	3 Ft.									
ELEV. DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK		0.5 FT.			
ELEV. DEPTH		CLASSIFICATION OF MATERIALS  1. Soils are field visually classified in accordance with the Unified Soils Classification System.		RÉC.	BOX		ADVANCEMENT with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			0.5 N-VA			
+ + + + + + + + + + + + + + + + + + + +													
	4000	A AFTER ▼ DURING ▼ DRILLING ▼ DRILLING ▼						esignation	SS-153				

rojec	t I.D.										Bo	oring Design	ation			SS-	155
DRI	LLIN	G LO	G	DIVIS	SION	So	uth Atlantic	IN	ISTA		ΤΙΟΙ	Mobile [	Distric	t	SHEET OF 3		ETS
PROJ	ЕСТ		•					LAT	LONG	COORI	DINATE	LAT = 30.30	9530	LONG	= -88.	.0300	72
19	63-196	4 Subs	surface	Invest	igatio	า		STA	TE PLA	NE CO	ORDINA	<b>X = 1,80</b>	1,236	Y = 1	12,95	8	
	OF BO				STAR		COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Sur	yoy Et	HOR NAD		VER Mll	
DRILI	ING AG	ENCY		Corps	of Engi	neers - (						TOP OF BOR			OUND		
			D INSPEC	•			E OF DRILLER					-29.0 Fee		<u> </u>	Jnderv		
		/A, Ge	-				N/A	N/	/A						NUAL H		ER
	TION OF		INCLINE	D	DEG. I VERT	ROM ICAL	BEARING	SIZE	AND 1	ГҮРЕ О	FBIT	See Rer	narks				
гніск	NESS OF	OVERB	URDEN		N/A			тот		MBER (	CORE B	DXES 0					
DEPTH	і то тор	OF ROC	ĸ		N/A			тот	AL SAI	MPLES	D	STURBED ()	UN	DISTUR	BED (U	<i>(</i> <b>D</b> )	)
ΌΤΑΙ	DEPTH	OF BORI	NG	2	22.3 Fe	et		тот	AL REG	COVER	Y FOR E	oring Not	Record	led			
LEV.	DEPTH	LEGEND	c	CLASSIF	FICATIO	ON OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	RILLING	5	BLOWS/ 0.5 FT.	N-VALUE
-29.0	0.0		(CH) C	CLAY. fa	at. hiah	plastici	ty, very soft										
-	ļ		consiste				- <b>,</b> , <b>,</b>										
-	ł										Adva	nced Boring					
-	-											g					
-	F																
-	ŀ															0	
-	ł															-	
-	F							NR			5P	T Sampler				0	0
-																0	
-	-																
-																	
-	ł																
-	╞																
-	ļ.										Adva	nced Boring					
-	t.																
-	ł																
-	F																
-	ŀ																
-	ł							<u> </u>									
-	F															0	
-	ţ							NR			SP	T Sampler				0	0
-	ł															0	-
-	F																
-	ţ										Adva	nced Boring					
	ORM 1	836	AFT	TER	יח 🗸	IRING		ontinue	()			Darina Da-	ion c t'	<u></u>	CC 47		
G 201	7	550	DRI	TER ILLING	▲ DC	ILLING	C) ∑ Replaced in i			h. ^ .	 	Boring Des	-		SS-18		

DRILL	INSTALLAT Mobile [	SHEET 2 OF 3 SHEET												
PROJECT			COORDINA			HORIZONTAL		TICAL						
		1				est - U.S. Survey Ft.	NAD83	ML	LW					
	COORDINATE		ELEVATION TOP OF BORING											
X = 1,80	1,236 Y :	= 112,958	-29.0 Ft.											
ELEV. DEF	LEGEND LEGEND	CLASSIFICATION OF MATERIALS	° Re	°.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G	BLOWS/ 0.5 FT. N-VALUE				
+ + + + + + + + + + + + + + + + + + + +							Advanced Boring							
			N	R			SPT Sampler		-	0 0 0				
							Advanced Boring							
-			N	R			SPT Sampler		-	0 0 0				
-51.3 22							Advanced Boring							
		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x							

DRILLING LOG (Cont. Sheet)					LATIO	SS-155						
PROJECT					ile Dis		OF 3 SHEE					
							M/DAT		HORIZONTAL		FICAL	
								est - U.S. Survey Ft.	NAD83	ML	LW	
OCATION COORDINATES						OP OF	BORIN	3				
X = ′	1,801,23		= 112,958	-29.0	UFt.	<b>I</b>	, I				<b>I</b>	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT.	1)147-N
-	-							2" O.D.).				
-	-											ļ
-	-											ļ
-	-											
-	-											
-	-											ļ
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	ORM 1	0.00	A AFTER ▼ DURING ∑ DRILLING ▼ DRILLING ∑					Boring De		 SS-15		

DRILLING LOG	DIVISION South Atlantic Division	INSTAL			Designation MHSPT-	SHEET 1 OF 1 SHEETS
. PROJECT		9. COOI	RDINA	TE SY	STEM HORIZONTAL	VERTICAL
Mobile Harbor Bori	ngs				ama West NAD83	: MLLW
HOLE NUMBER	: LOCATION COORDINATES	10. SIZE			OF BIT <b>4" Fishtail Upwar</b>	d Discharge
MHSPT-16-19	N 113538.444 E 1801187.853	CME				
DRILLING AGENCY	05040	12. TOT	AL SA	MPLE	•	UNDISTURBED
Corps of Engineers	S - CESAS	12 TOT			CORE BOXES ()	0
Joe Bowerman					OUND WATER See Remai	rko
. DIRECTION OF BORING	DEG FROM BEARING VERTICAL					COMPLETED
		15. DAT	E BOF	RING	9/27/20	9/27/20
. THICKNESS OF OVERB	JRDEN >14'	16. ELE	VATIC	N TO	P OF BORING -46.23'	
. DEPTH DRILLED INTO F	ROCK				ECOVERY FOR BORING N/A	
. TOTAL DEPTH OF BORI	NG 14'				D TITLE OF INSPECTOR am, Geologist	
	FIELD CLASSIFICATION OF MATERIALS		No.			ne III s
ELEV DEPTH	(Description)	% REC		RQD %	REMARKS	Blows/ 0.5 ft N-Value
– pla	AYEY SILT (MH), olive green, saturated, high sticity, trace fine sand.	47	S1		USCS	
-48.2 <sup>-</sup> 2.0 <b>III</b> - SIL	T (ML), dark olive gray, little sand, trace shells.	87	S2			
		100	S3			
-52.2 6.0		100	S4			0 0 0
	AYEY SILT (MH), high plasticity, trace fine sand	d. 100	S5			
		100	S6			
- Gre	eenish gray.	100	S7			0 0 0 0
		100	S8			0 0 0 0
		100	<u> </u>	-		
-60.2 44.0		100	S9			0
N	BOTTOM OF BOREHOLE AT 14.0 ft tes:					
1. Un 2. driv 3/8 30 3. 10 4. me 5. 10 10( 6. mu	Soils visually field classified in accordance with ified Soil Classification System. N-Value: Total blows over last 1.0 foot of 1.5-fo ren interval, unless otherwise indicated, using a -inch ID splitspoon with 140-pound hammer fal inches. The CME-750 drilling rig utilizes an automatic to mmer. Undisturbed sampling with 3" by 30" Shelby tub chanically pushed with CME-750. Component Percentages: Trace: 0 to 5%, Few: %, Little: 15 to 25%, Some 30 to 45%, With 50 %. MLLW was calculated from measuring barge do d line, then subtracting barge deck to water and sest observation station tide reading.	oot 1 ning rip xe, 5 to to eck to				

DRI	LLIN	G LO	G	DIV	ISION	Sc	outh Atlantic	IN	IST/	<b>ALLA</b>	ΤΙΟΙ	Mobile	Distric	t	SHEET OF 2		ETS
PROJ	ECT							LAT	LONG	COORE	DINATES	<sup>s</sup> LAT = 30.3	807791	LONG			
10	82-108		surfac	o Invo	etidation			STA	TE PLA	NE CO	ORDINA	TEC	300,855		112,32 <sup>-</sup>		
	OF BO		Suriac		stigation <i>star</i> :	TED	COMPLETED					ATUM/UNITS		HOR	RIZ.	VER	
					01-08		01-08-84					Vest - U.S. Su TOP OF BO		NAE Gr	083 20000	MLL	
	LING AG				s of Engin					ATION		-41.0 Fe	eet	1	Underv		
NAME	& TITLE H. (		Geolog			NAI	ME OF DRILLER C. Fuller		IUFAC broco		S DESIC	GNATION OF DE			TO HAN NUAL H		ER
	TION OF	BORING	3	<u> </u>	DEG. F	ROM	BEARING					Cas D	-				
$\boxtimes$	VERTICA		INCLIN	IED						ТҮРЕ О			emarks				
THICK	NESS OF	OVERE	BURDEN		N/A						ORE B						
	і то тор				N/A			тот	AL SA	MPLES	D	ISTURBED 1		DISTUR	RBED (U	<b>D)</b> (	0
ΤΟΤΑΙ	DEPTH	<u>г г</u>	ING		20.0 Fe	et		тот		COVER	Y FOR E	BORING 10	0 %				
ELEV.	DEPTH	LEGEND		CLASS	IFICATIO	N OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	RILLING	6	BLOWS/ 1 FT.	N-VALUE
<u>-41.0</u>			consi	stency,	wet, blac	k	ency, gray	100	1		V	'ibracore					
	t	1836		FTER RILLING		RING LLING	<u>∑</u> (C	continue				Boring De			VC-42		

		DG (Cont. Sheet)	INSTALLA Mobile	e Dist	rict		oring Designatic		C-42-84 SHEET 2 OF 2 S	HEETS
ROJE	UT .		COORDIN State Pla				<b>JM</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERTI MLL	
OCAT	ION COORDINA									
	1,800,855 Y		-41.0							
ELEV.	DEPTH B	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	7.FT.
-61.0		NOTES:		100	1		Vibracore			
- - - - - - - - - - - - - - - - - - -		1. Soils are field visually classified in accordance with the Unified Soils Classification System.								
<b>SAM F</b> UG 201	ORM 1836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ∇ Replac						esignation	VC-42-8	

											Designation MHSPT		<del>.</del>		7
DF	RILLIN	IG L	OG		uth Atlantic D	)ivision		FALL/ Iobil		∾ arbo	r AL	SHEE	ı 1 s⊦	1 FFTS	
1. PROJ	JECT			00							STEM HORIZONTAL				1
Mob	ile Har	rbor E	Borin	gs			St	tate P	lane	- Alab	ama West NAD83	•	/LLW	1	
											OF BIT 4" Fishtail Upwa	ard Discha	rge		
2. HOLE											R'S DESIGNATION OF DRILL		-		1
	SPT-15			N 111	830.896 E 1	800543.956		ME-							4
	ING AG		ore	- CESAS			12. 1	ΙΟΙΑ	LSA	MPLE	S DISTURBED	UNDIST		J	
4. NAME		ILLER	.013		,		13 1	τοτα		IMREE	R CORE BOXES ()	:	0		1
	Bower										OUND WATER See Rema	orleo			1
5. DIRE		F BOF	RING		DEG FROM	BEARING	- 14. 6		Ano	N GR	STARTED		-		-
	ERTICAI				VERTICAL		15. [	DATE	BOF	RING	9/23/20		3/20		
	KNESS (		RBU	RDEN	>19.5'	+	16. E	ELEV	ATIO	ΝΤΟ	P OF BORING -40.5'				1
					10.0		17. 1	ΓΟΤΑ	LCC	RE R	ECOVERY FOR BORING N/A				1
	'H DRILL						18. 5				D TITLE OF INSPECTOR				1
8. TOTA	AL DEPT		BORIN	IG	19.5'			A		n Te	w, Geologist				1
ELEV	DEPTH	LEGEND		FIELD	CLASSIFICATION (Descripti	N OF MATERIALS	F	% REC	Samp No.	RQD %	REMARKS		Blows/ 0.5 ft	N-Value	
	_			N CLAY (C I fragments		edium plasticity, trace		100	S1		USCSall drives WOR		0 0 0	0	Ē
	_							100	S2				0 0 0	0	F
	-							100	S3				0 0 0	0	Ē
	 _ _							100	S4				0 0 0	0	F
	-							100	S5				0 0 0 0	0	F
	-							100	S6				0	0	Ē
	-						_	73	S7				0 0 0	0	F
							+	67	S8				0 0 0	0	E
							ŀ	73	S9				0 0 0	0	ŧ
	- - -						ŀ	_	S10 S11				0 0 0	0	ŧ
							-	80					0	0	ŧ
	E F						F	100					0 0 0 0	0	ŧ
-60.0	<sup>-</sup> 19.5	Y//							5.0				0	Ŭ	Ł
			Unifi 2. N drive 3/8-i 30 ir 3. T	es: Boils visuall ied Soil Cla J-Value: To en interval, inch ID spli nches. The CME-7	y field classified assification Syste otal blows over la unless otherwise itspoon with 140	HOLE AT 19.5 ft in accordance with the em. ast 1.0 foot of 1.5-foot e indicated, using a 1 -pound hammer falling izes an automatic trip									
			nam	mer.											1

4. Undisturbed sampling with 3" by 30" Shelby tube, mechanically pushed with CME-750.
5. Component Percentages: Trace: 0 to 5%, Few: 5 to 10%, Little: 15 to 25%, Some 30 to 45%, With 50 to 100%.
6. MILLWARE and a basis.

6. MLLW was calculated from measuring barge deck to mud line, then subtracting barge deck to water and closest observation station tide reading.

State Plane - Alabam West - US. Survey In NAMES     NAME of packing     NAME of packi	DRI	LLIN	G LO	G	DIV	ISIO	So	uth Atlantic	IN	IST/	<b>ALLA</b>	ΤΙΟΙ	Mobile	Distric	· I	HEET 1 F 2 SH	IEET
1983-1984 Subsurface investigation     X = 1,80,070 V = 111,010     X = 1,80,070 V = 111,010     X = 1,80,070 V = 111,010     MADB3     MADB	PROJ	ECT							LAT	LONG	COORI	DINATES	LAT = 30.30	04167	LONG =	-88.031	719
Date of Booling     Starter     Complete     Starte of Booling     More of Booling     More of Booling       Date of Booling     Corps of Engineers - CESAM     ELEVATION     "OF of Booling     GROWN WATER       NAME & TITLE OF FIED INSPECTOR     NAME OF DRILLER     MAUVACTURER'S DESIGNATION OF DRILL     Underwater       N/A, Geologist     N/A     N/A     BEANING     Size AND TYPE OF BIT     See Remarks       THICKNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BOXES     0     DIRECTION OF BORING     UNDISTURBED (UD)       DIRECTION OF BORING     VES. FROM     BEANING     Size AND TYPE OF BIT     See Remarks       THICKNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BOXES     0       DEPTH 0 TO OF ROCK     N/A     TOTAL MUMBER CORE BOXES     0       TOTAL DEPTH OF BORING     13.5 Feel     TOTAL RECOVERY FOR BORING     N/A CRecorded       ELEV. DEPTH     B     CLASSIFICATION OF MATERIALS     RES.     SS     BS     Advanced Boring       -37.8     0.0     (CH) CLAY, fat, high plasticity, very soft     Advanced Boring     0     0       Gonsistency, wet, gray.     N/R     SPT Sempler     0     0       N/R     SPT Sempler     0     0     0	10	63_106	A Sube	urfac	e Invo	eticatio	'n		STA	TE PLA	NE CO	ORDINA	TES				
State Plane - Alabam West - US, Survey In MADES     MADES <th< td=""><td></td><td></td><td></td><td>Sunac</td><td></td><td></td><td></td><td>COMPLETED</td><td></td><td></td><td></td><td></td><td>TUM/UNITS</td><td></td><td>HORIZ.</td><td>V</td><td></td></th<>				Sunac				COMPLETED					TUM/UNITS		HORIZ.	V	
DRILLING AGENCY       Copys of Engineers - CESAM       ELEVATIONS       -37:8 Feet       Underwater         NAME & TITLE OF FILD INSPECTOR       NAME OF DRILLER       MANUFACTURER'S DESIGNATION OF DRILL       Autro AAMMER         N/A       N/A       N/A       SIZE AND TYPE OF BIT       See Remarks         DIECTION OF BORING       N/A       TOTAL NUMBER CORE BOXES       0       0         DIETTI TO TOP OR ROCK       N/A       TOTAL NUMBER CORE BOXES       0       0         TOTAL DEPTI OF BORING       13.5 Feet       TOTAL NUMBER CORE BOXES       0       0         TOTAL DEPTI OF BORING       13.5 Feet       TOTAL RECOVERY FOR BORING       NCR Recorded       0         SIZE AND TYPE OF BIT       ELEV. DEPTIN       B       CLASSIFICATION OF MATERIALS       REC.       B       BD       Advanced Boring       0         -37.8       0.0       (CH) CLAV, fat, high plasticity, very soft       NR       SPT Sampler       0																	
N/A. Geologist     N/A     N/A     Induction of BORING     N/A     Induction of BORING       DIRECTION OF BORING     INCLINEE     PERFECT     BEARING     SIZE AND TYPE OF BIT     See Remarks       THICKNESS OF OVERBURDEN     N/A     TOTAL NUMBER CORE BOXES     0     UNDISTURBED (UD)     0       DEPTH TO TOP OF BORING     13.5 Feet     TOTAL RECOVERY FOR BORING     Not Recorded       ELEV.     DEPTH     B     CLASSIFICATION OF MATERIALS     REC.     BOD     ADVANCEDENT     REMARKS     B2       37.8     0.0     IC(H) CLAY, fat, high plasticity, very soft     I     I     Advanced Boring     I     I       IC(H) CLAY, fat, high plasticity, very soft     I     I     Advanced Boring     I     I     I       IC(H) CLAY, fat, high plasticity, very soft     I     I     Advanced Boring     I     I     I       IC(H) CLAY, fat, high plasticity, very soft     I     I     Advanced Boring     I     I     I       IC(H) CLAY, fat, high plasticity, very soft     I     I     I     I     I     I     I       IC(H) CLAY, fat, high plasticity, very soft     I     I     I     I     I     I     I       IC(H) CLAY, fat, high plasticity, very soft     I     I     I     I	DRILI	LING AC	GENCY		Corp	s of Eng	ineers -	CESAM					-37.8 Fe	et			
DIRECTION OF BORING □ VERTICAL UNCLINED VERTICAL INCLINED VERTICAL VER	NAME						NA				TURER	S DESIC	SNATION OF DR				
LES VERTICAL       INCLINED       INCLINED       INCLINED         THICKNESS OF OVERBURDEN       N/A       TOTAL SAMPLES       DISTURBED       0         DEPTH TO TOP OF ROCK       N/A       TOTAL SAMPLES       DISTURBED       0       UNDISTURBED (UD)       0         TOTAL DEPTH OF BORING       13.5 Feet       TOTAL SAMPLES       DISTURBED       NOR RECORDENT       DEPTH OF BORING       DISTURDED       DISTURDED <td>DIREC</td> <td></td> <td>-</td> <td></td> <td></td> <td>DEG.</td> <td>FROM</td> <td></td> <td>11/</td> <td>^</td> <td></td> <td></td> <td></td> <td>L</td> <td></td> <td></td> <td></td>	DIREC		-			DEG.	FROM		11/	^				L			
DEPTH TO TOP OF ROCK     N/A     TOTAL SAMPLES     DISTURBED     0     UNDISTURBED (UD)     0       TOTAL DEPTH OF BORING     13.5 Feet     TOTAL RECOVERY FOR BORING     Not Recorded     Image: Classification of materials     REC.     Image: Classification of materials     Image: Classification of materials     REC.     Image: Classification of materials     Image: Classificatio materials     Image: Classificatio materials <t< td=""><td><math>\boxtimes</math></td><td>VERTICA</td><td></td><td>INCLIN</td><td>IED</td><td>VER</td><td>FICAL</td><td></td><td>SIZE</td><td>AND</td><td>TYPE O</td><td>FBIT</td><td>See Re</td><td>marks</td><td></td><td></td><td></td></t<>	$\boxtimes$	VERTICA		INCLIN	IED	VER	FICAL		SIZE	AND	TYPE O	FBIT	See Re	marks			
TOTAL DEPTH OF BORING     13.5 Feet     TOTAL RECOVERY FOR BORING     Not Recorded       ILEV.     DEPTH     9     CLASSIFICATION OF MATERIALS     REC.     80     P30     ADVANCEMENT     REMAINS     90     P37.8     0.0       37.8     0.0     (CH) CLAV, fat, high plasticity, very soft consistency, wet, gray,     I </td <td>тніск</td> <td>NESS OF</td> <td>OVERB</td> <td>URDEN</td> <td> </td> <td>N/A</td> <td></td> <td></td> <td>тот</td> <td>AL NU</td> <td>MBER</td> <td>CORE B</td> <td>oxes 0</td> <td></td> <td></td> <td></td> <td></td>	тніск	NESS OF	OVERB	URDEN		N/A			тот	AL NU	MBER	CORE B	oxes 0				
ELEV.       DEPTH       99       CLASSIFICATION OF MATERIALS       NEC.       52       PBB       ADVANCEMENT       PEHALING       55       57         37.8       0.0	DEPTH	і то тор	OF ROC	ĸ		N/A			тот	AL SAI	MPLES	D	STURBED ()	UN	DISTURBE	D (UD)	0
37.8       0.0	ΤΟΤΑΙ	. DEPTH	OF BORI	NG		13.5 F	eet		тот	AL REG	COVER	Y FOR B	oring Not	Record	ed		
Image: CH) CLAY, fat, high plasticity, very soft       Advanced Boring       0         Image: CH) CLAY, fat, high plasticity, very soft       Advanced Boring       0         Image: NR       SPT Sampler       0         Image: NR       SPT Sampler       0         Image: Im	ELEV.	DEPTH	LEGEND		CLAS	SIFICATI	ON OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	NILLING MARKS	BLOWS/	N-VALUE
Image: Constraint of the second sec	<u>-37.8</u> - - - - - - - - - - - - - - - - - - -	0.0						ity, very soft	NR							0	- 0
	-								NR								0
AM FORM 1836     AFTER DURING ⊥     DURING ⊥     (Continued)     Boring Designation     SS-157	-																- 0

DR		GIC	)G (Cont. Sheet)	INSTAL						SHEET	
					ile Dis					<b>OF</b> 2	
PROJEC	т										
001-	01 000		EC	1				est - U.S. Survey Ft.	NAD83	L ML	LW
	<b>ON COOI</b> 1 800 70		<b>ES</b> = 111,010	<b>ELEVA</b>		JP OF	BURING	3			
ELEV.	DEPTH		CLASSIFICATION OF MATERIALS	-07.	RĚC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT. N-VALUE
		Ē				BO		METHOD		-	
-51.3 51.3 51.3 			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.			BOX		Advanced Boring		S	0.5 0.5
	- - - -										
6AM F		836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼					Boring De	esignation	SS-15	7

1. PROJEC Mobile 2. HOLE NI MHSP 3. DRILLING Corps 4. NAME O Joe Bo 5. DIRECTI JOE BO 5. DIRECTI VER INCL 6. THICKNE 7. DEPTH I 8. TOTAL D	WUMBER PT-14-19 NG AGENCY of Engin DF DRILLER	Borings	DIVISION South Atlantic Division South Coordinates N 109730.091 E 1800752.382	9. C 9. C 51 10. 3 11. I	Iobi OOR tate F SIZE MANI	DINA Plane AND	arbo TE SY - Alab TYPE	r AL /STEM HORIZONTAL bama West NAD83 OF BIT 4" Fishtail Upward R'S DESIGNATION OF DRILL	SHEET 1 OF 1 SHEETS VERTICAL MLLW Discharge
Mobile 2. HOLE NU MHSP 3. DRILLING Corps 4. NAME OD JOE BO 5. DIRECTI 5. DIRECTI CORS 6. THICKNE 7. DEPTH D 8. TOTAL D	WUMBER PT-14-19 NG AGENCY of Engin DF DRILLER	L	S OCATION COORDINATES	9. C Si 10. S 11. I	OOR tate F SIZE MANI	DINA Plane AND	TE SY - Alab TYPE	VSTEM HORIZONTAL bama West NAD83 OF BIT 4" Fishtail Upward	VERTICAL MLLW
2. HOLE NU MHSP 3. DRILLING Corps 4. NAME O Joe Bo 5. DIRECTI VER INCL 6. THICKNE 7. DEPTH I 8. TOTAL I	NUMBER PT-14-19 NG AGENCY of Engin DF DRILLER	L	OCATION COORDINATES	10. s	SIZE MANI	AND	TYPE	OF BIT 4" Fishtail Upward	
MHSP 3. DRILLING Corps 4. NAME OI Joe Bo 5. DIRECTI VER INCL 6. THICKNE 7. DEPTH I 8. TOTAL I	PT-14-19 NG AGENCY of Engin DF DRILLER	,		11.1	MAN				d Discharge
MHSP 3. DRILLING Corps 4. NAME OI Joe Bo 5. DIRECTI VER INCL 6. THICKNE 7. DEPTH I 8. TOTAL I	PT-14-19 NG AGENCY of Engin DF DRILLER	,					TIIRE		
Corps ( 4. NAME OL Joe Bo 5. DIRECTI VER INCL 6. THICKNE 7. DEPTH I 8. TOTAL E				-	ЖE	-750		IN 3 DESIGNATION OF DRIEL	
Joe Bo 5. DIRECTI VER INCL 6. THICKNE 7. DEPTH I 8. TOTAL I			CESAS	12.	ΤΟΤΑ	AL SA	MPLE	S DISTURBED 11	UNDISTURBED 0
5. DIRECTI VER INCL 6. THICKNE 7. DEPTH [ 8. TOTAL [				13.	тоти	AL NU	JMBEF	R CORE BOXES 0	
INCL 6. THICKNE 7. DEPTH I 8. TOTAL I	ION OF BO		DEG FROM BEARING	14. I	ELEV	ATIO	N GR	OUND WATER See Remar	
7. DEPTH [ 8. TOTAL [	RTICAL		VERTICAL			BOF		9/25/20	COMPLETED 9/25/20
8. TOTAL E	IESS OF OV	/ERBURD	DEN >16.5'					P OF BORING -43.77'	
	DRILLED IN	ITO ROCI	к					ECOVERY FOR BORING N/A	
	DEPTH OF	BORING	16.5'	10.1				oveland, Geologist	
			FIELD CLASSIFICATION OF MATERIALS (Description)		% REC	Samp No.	RQD %	REMARKS	Blows/ 0.5 ft N-Value
		CLAYE non pla	EY SILT (ML), greenish gray, saturated, very astic, no toughness, few fine sand, trace orga	soft, anics.	0	S1		USCS	
				F	20	S2			
-47.9	4.1				80	S3			
			TC SILT (MH), dark gray, saturated, medium ty, no dilatancy, no toughness, trace shells.		100	S4			
		Dark g	ray and black.	-	100	S5			
-					100	S6			
	* * *				100	S7			
-					100	S8			0 0 0
-					100	S9			
-58.8 1	15.0	Interbe	dded fine to medium sand.		100	S10			
-	16.5 °		SAND (SM), greenish gray, fine to medium d, saturated, some silt.		100	S11			
-00.5	10.5	1-	BOTTOM OF BOREHOLE AT 16.5 ft						0
		Unified 2. N-V driven i 3/8-inc 30 inch 3. The hamme 4. Unc	s visually field classified in accordance with t I Soil Classification System. 'alue: Total blows over last 1.0 foot of 1.5-fo interval, unless otherwise indicated, using a th ID splitspoon with 140-pound hammer falli nes. c CME-750 drilling rig utilizes an automatic tri er. disturbed sampling with 3" by 30" Shelby tube	oot 1 ing ip					
		5. Con 10%, L 100%. 6. MLI mud lin	nically pushed with CME-750. nponent Percentages: Trace: 0 to 5%, Few: : ittle: 15 to 25%, Some 30 to 45%, With 50 to LW was calculated from measuring barge de te, then subtracting barge deck to water and observation station tide reading.	o eck to					

rojec	t I.D.										Bo	oring Desigr	nation			SS-	159
DRI	LLIN	g lo	G	DIV	ISION	So	uth Atlantic	IN	IST/		ΤΙΟΙ	Mobile	District	t	SHEE OF 3	T 1 3 She	ETS
PROJ	ЕСТ							LAT	LONG	COORI	DINATE	LAT = 30.29	98801	LONG	G = -88	.0333	570
19	63-196	4 Subs	surfac	e Inve	stigatio	n		STA	TE PLA	NE CO	ORDINA	<b>XTES</b> X = 1,8	00,177	Y =	109,06	61	
	OF BO				<u> </u>	RTED	COMPLETED					ATUM/UNITS Vest - U.S. Sui	nyoy Et	HO NAI	<b>R<i>IZ.</i></b> 282	VER MLL	
BILI	ING AG	ENCY		Corps	s of Engi	ineers - (	CESAM					TOP OF BO			ROUND		
	& TITLE		D INSF	-						_	-	-26.3 Fe SNATION OF DR			Under		
	Ν	I/A, Ge	ologis	t			N/A	N/	Ά						TO HAI		
	TION OF			NED	DEG. VERT	FROM TCAL	BEARING	SIZE	AND 1	ГҮРЕ О	F BIT	See Re	marks				
	NESS OF				N/A			тот		MBER (	ORE B	OXES 0					
EPTH	і то тор	OF ROC	ж		N/A			тот	AL SAI	NPLES	D	ISTURBED ()	UNI	DISTU	RBED (L	JD)	0
OTAL	DEPTH	OF BOR	ING		25.0 Fe	eet		тот	AL REG	OVER	Y FOR E	oring Not	Record	ed			
.EV.	DEPTH	LEGEND		CLASS	SIFICATIO	DN OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DR RE	RILLING MARK	3 S	BLOWS/ 0.5 FT.	N-VALUE
26.3	0.0				fot big	nlaatiai	ty, very soft										
-					wet, gra		ly, very son										
-	-																
-	-																
-											Adva	nced Boring					
-	-																
-																	
-	-																
-	F															0	
-								NR			SP	T Sampler				0	
-	$\vdash$																0
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-	ŀ															0	
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-	Ļ							NR			SP	T Sampler				0	0
-	ł															0	
-	F										Adva	nced Boring					
		1836	A L			URING T		1									

DRILLING LOG (Cont. Sheet)	INSTALLA						SHEET 2	
	Mobile						OF 3 SH	
PROJECT	COORDIN					HORIZONTAL	VERTICA	
	1				est - U.S. Survey Ft.	NAD83	MLLW	
	ELEVATIO		POF	BORING	6			
X = 1,800,177 Y = 109,061	-26.3 F	Ft.						
ELEV. DEPTH	S R	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	SO BLOWS/ 0.5 FT.	N-VALUE
					Advanced Boring			
		NR			SPT Sampler		0 0	- 0
					Advanced Boring			
	,	NR			SPT Sampler	_	0 0 0	0
					Advanced Boring			
		NR			SPT Sampler		0	
AFTER ↓ DURING ↓ DUR	(Cont	tinue	d)		Borina De	signation	SS-159	

DR	ILLIN	G LO	G (Cont. Sheet)							SHEET 3	
					oile Dis					OF 3 S	
PROJE	T							<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83	VERTIO MLL	
OCAT			FS						INADOS		v
			= 109,061		3 Ft.		JURIN				
ELEV.	DEPTH	Q	CLASSIFICATION OF MATERIALS	5	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	wo SLOWS/	0.5 FT. N-VALUE
	 				NR			SPT Sampler			0
-51.3	25.0							Advanced Boring	-		
	-		NOTES: 1. Soils are field visually classified ir accordance with the Unified Soils Classification System.	1				140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
	+ + + + + + + + + + + + + + + + + + + +										
- - -											
	+ + +										
- -	+ + +										
-	+										
-	+ + +										
- - - - -	+ + + + + +										
SAM F		1836-/	A AFTER ▼ DURING ▼ DRILLING ▼ DRILLING ▼					Boring De	esignation	SS-159	

-58.7       12.0       Image: Constraint of the second of the sec										Designation MHSPT-13-19			1
I. PROJECT Mobile Harbor Borings         0. COORDINATE SYSTEM         HORZONTAL         VERTICAL MADB3           2. HOLE NUMBER MISPT-13-19         IN 107831.342         E 1800095.395         11. MAURA - Alkanat Weith TO.SZE AND TYPE OF BIT         4' Fishtail Upward Discharge           2. HOLE NUMBER MISPT-13-19         IN 107831.342         E 1800095.395         12. TOTAL SUMPLES         DISTUREED         UNDISTUREED           2. ORLING ACRESS CORPS of Engineers - CESAS         12. TOTAL NUMBER CORE BOXES         0         0         0           3. DIRECTON OF BORING SINCENED         IDEC FROM VERTICAL         ISEARING	D	RILLIN	GL	_C									
Index Norse				_		9. C	OOF	DINA	TE S	YSTEM HORIZONTAL VE	RTICAL		
2 HOLE NUMBER         LOCATION COORDINATES         11. MANUFACTURERS DESIGNATION OF DRULL           MHSPT-13.19         N 107831.342         E 1800095.395         CME-F50         CME-F50           3. DRILLING AGENCY         COMPOSITION CORENCY         9         0           4. NME OF DRILLER         10. TOTAL NUMBER CORE BOXES         0         0           3. DRILLING AGENCY         VERTICAL         BEARING         13. TOTAL NUMBER CORE BOXES         0           5. DIRECTON OF BORING         VERTICAL         BEARING         16. ELEVATION GORONG MATER         See Remarks           5. DIRECTON OF BORING         VERTICAL         If DATE BORING         46.7         COMMETED         90/20/20           6. THICKNESS OF OVERBURDEN         >34.5'         16. ELEVATION TO OF DREING         V/A         COMMETED         See Remarks           6. DEPTH         9         FIELD CLASSERICATION OF MATERIALS         %c         §         §         g         REMARKS         §         §         0         0           6.02         DEPTH         9         SILT (ML), greenish brown, saturated, non plastic.         40         \$1         USCS         %c         §         §         g         REMARKS         §         0         0         0         0         0	Mob	ile Har	bor	B	orings								
3. OPELING AGENCY       12. TOTAL SAMPLES       IOSTURBED       UNDSTURBED         4. NAME OF DRILLER       13. TOTAL NUMBER CORE BOXES       0         5. DIECTION OF BORING       USE OF POM       13. TOTAL NUMBER CORE BOXES       0         5. DIECTION OF BORING       USE OF POM       15. DATE BORING       26. OCMMLETED       30. BEERING         10. DECENTION OF BORING       USE OF POM       34. 5'       16. ELEVATION TOP OF BORING       -60.7       17. TOTAL CORE RECOVERY FOR BORING       -60.7         6. THICKNESS OF OVERBURDEN       >34. 5'       16. ELEVATION TOP OF BORING       -60.7       N/A         7. DEPTH DUF DOR DORING       34.5'       16. ELEVATION TOP OF BORING       -60.7       N/A         8. TOTAL DEPTH OF BORING       34.5'       18. SIGNATURE AND TITLE OF INSPECTOR       Adam Tew, Collogist         ELEV       DEPTH       9       SILT (ML), greenish brown, saturated, non plastic.       40 S1       100 S4         100       S4       100       S4       100 S4       100 S4       100 S6         -60.7       12.0       Start ML, greenish brown, saturated, non plastic.       100 S7       100 S8       100 S8       100 S8         -60.7       12.0       Gray, very soft, medium plasticity, some fine sand.       100 S8       100 S0       0						-					narge		
Corps of Engineers - CESAS					N 107831.342 E 1800095.395								
Joe Bowerman         Joe Bowerman         Joe Borney         Jo					ers - CESAS	12.	101	4L 3A	IVIPLI	• •		, I	
Subjection of FoRING WERTICAL         DEFINING WERTICAL         DEFAING         II. ELEVATION GROUND WATER Star FIED WERTICAL         Star FIED (20/20)         COMPLETED (20/20)         9/20/20 (9/20/20)         9/20/20 (9/20/20)           6. THICKNESS OF OVERBURDEN SCIENT OF BORING         >34.5'         TOTAL DEPTH OF BORING         46.7'           7. DEPTH NOR ILLED INTO ROCK         17. TOTAL CORE RECOVERY FOR BORING N/A         18. SIGNATURE AND TITLE OF INSPECTOR         46.7'           8. TOTAL DEPTH OF BORING         34.5'         44dam Tew, Geologist         18. SIGNATURE AND TITLE OF INSPECTOR         18. SIGNATURE AND TITLE OF INSPECTOR           ELEV         DEPTH 10         SILT (ML), greenish brown, saturated, non plastic. Ubescription)         40         S1         100         S4           1         Interbedded fine to medium sand.         100         S4         100         S6           -68.7         12.0         Start (Fragments, discontinue interbedded sand, some sit.         100         S8         WOR to 11.0 ft.         0						13.	тот	AL NU	JMBE	R CORE BOXES 0			
MENTICAL INCLINES       VENTICAL       15. DATE BORING       STAPED 9/20/20       COMPLETED 9/20/20         6. THICKNESS OF OVERBURDEN       >34.5'       16. ELEVATION TOP OF BORING       -46.7'         7. DEPTH DRILLED INTO ROCK       17. TOTAL CORE RECOVERY FOR BORING N/A       N/A         8. TOTAL DEPTH OF BORING       34.5'       Adam Tew, Geologist         8. TOTAL DEPTH OF BORING       9/2       REMARKS       9/2         9/2       FIELD CLASSIFICATION OF MATERIALS (Description)       9/2       9/2       REMARKS       9/2         100       51       Saturated, non plastic.       40       S1       N/A       0       0       0         100       54       100       54       100       54       100       54       0	5. DIRE	CTION O	F BO		NG : DEG FROM : BEARING	- 14.	ELE\	/ATIO	N GF				
Interbedie         Structure         NUMBER		ERTICAL	-		VERTICAL					9/20/20			
J. DEPTH DATLED FIND ACCA     18. SIGNATURE AND TITLE ON DITLO FLOR       8. TOTAL DEPTH OF BORING     34.5'       ELEV     DEPTH     3       FIELD CLASSFICATION OF MATERIALS (Description)     % 5       73     S2       73     S2       73     S2       100     S4       100     S4       100     S5       100     S6       100     S6       100     S6       13.5     *       SILTY SAND (SM), light gray, fine grained, saturated.     27       -80.7     12.0       -80.7     12.0       -80.7     *       -90.2     13.5       -90.2     *       13.5     *       14.1     SILTY SAND (SM), light gray, fine grained, saturated.       20.1     -       -80.7     *       -90.2     *       -90.2     *       -90.2     *       -90.2     *       -90.2     *       -90.2     *       -90.2       -90.2       -90.2       -90.2       -90.2       -90.2       -90.2       -90.2       -90.2       -90.2					01.0								
ELEV       DEPTH       gg gg gg gg gg gg gg gg gg gg gg gg gg							SIGN	ATUF		ND TITLE OF INSPECTOR			
SILT (ML), greenish brown, saturated, non plastic.         40         S1         USCS         0	8. TOT/	AL DEPTH		BO	DRING 34.5'		ŀ		n Te	ew, Geologist		0	
SILT (ML), greenish brown, saturated, non plastic.         40         S1         USCS         0	ELEV	DEPTH	LEGEND				% REC	Samp No	RQD %	REMARKS	Blows/ 0.5 ft	N-Value	
-58.7       12.0       13.5       *       SILTY SAND (SM), light gray, fine grained, saturated, 27       27       S9         -60.2       13.5       *       SILTY SAND (SM), light gray, fine grained, saturated, 27       27       S9		-			SILT (ML), greenish brown, saturated, non plastic.		40			USCS			F
Trace shell fragments, discontinue interbedded sand.         100         S4           100         S6           100         S6           100         S6           100         S7           100         S6           100         S7           100         S6           100         S7           100         S7           100         S7           100         S8           -60.2         13.5           100         S8           -60.2         SULTY SAND (SM), light gray, fine grained, saturated, and					Dark gray.	-				hole drilled using rotary spade bit and	0		_ _ _
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						-	73	S3		water	0	0	-  -
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-		┞	Interbedded fine to medium sand.	-	100	S4			0	0	
-58.7       12.0       100       S6         -58.7       12.0       100       S7         -60.2       13.5       100       S1LTY SAND (SM), light gray, fine grained, saturated, some silt.       27       S9							100	S5			0	0	Ē
-58.7       12.0       100       S7         -60.2       13.5       S       SILTY SAND (SM), light gray, fine grained, saturated, sa							100	S6			0	0	Ē
-58.7       12.0       Image: Constraint of the second sec		-			Trace shell fragments, discontinue interbedded sand.		100	S7			0	0	-
<u>-60.2</u> 13.5 1 Sin Forder (Sin), ign gray, integranted, saturated, 27 S9 <u>-60.2</u> 13.5 1 Some silt.	-58.7	12.0					100	S8		WOR to 11.0 ft.	0	0	– – –
-     - <td>-60.2</td> <td>- 13.5</td> <td>3 0</td> <td></td> <td>SILTY SAND (SM), light gray, fine grained, saturated some silt.</td> <td>,</td> <td>27</td> <td>S9</td> <td></td> <td></td> <td>0</td> <td>2</td> <td>+</td>	-60.2	- 13.5	3 0		SILTY SAND (SM), light gray, fine grained, saturated some silt.	,	27	S9			0	2	+
-     - <td></td> <td>-</td>													-
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BOTTOM OF BOREHOLREDIACON in its entire Bon for Besignation W9NATSPIEQ00190001EET 1 of 1

DRILLING LOG	DIVISIO	N So	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile	Distric		IEET 1 3 SH	EETS
PROJECT				LAT	LONG	COOR	DINATES	<sup>s</sup> LAT = 30.29	93157	LONG =	-88.032	424
1963-1964 Subsurf	ace Investigati	ion		STA	TE PLA	NE CO	ORDINA	<b>X = 1,8</b>	00,466	Y = 107	,007	
DATE OF BORING		ARTED	COMPLETED					ATUM/UNITS		HORIZ.		RT.
								Vest - U.S. Sui TOP OF BOI		NAD83	ML	LW ER
DRILLING AGENCY	Corps of En	gineers -	CESAM					-24.3 Fe	et		derwate	
NAME & TITLE OF FIELD IN N/A, Geolog		NAN	<b>IE OF DRILLER</b> N/A	MAN N/		TURER	'S DESIG	GNATION OF DR	ווג ן		HAMMER	
DIRECTION OF BORING		. FROM RTICAL	BEARING									
		RIICAL		SIZE	AND	TYPE O	FBIT	See Re	marks			
THICKNESS OF OVERBURD	N/A			тот	AL NU	MBER (	CORE B	OXES 0				
DEPTH TO TOP OF ROCK	N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UD)	0
TOTAL DEPTH OF BORING	27.0	Feet		тот	AL REG	COVER	Y FOR B	BORING Not	Record	ed		
	CLASSIFICAT	ION OF MA	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	NILLING MARKS	BLOWS/	N-VALUE
	H) CLAY, fat, hi nsistency, wet, g		ity, very soft								_	
							Adva	inced Boring				
				NR			SP	T Sampler			0 0 0	0
							Adva	nced Boring				
				NR			SP	T Sampler			0 0 0	- 0

DRILLING LOG (Cont. Sheet)	INSTALL	<b>ATION</b> le Dist					SHEET 3	
ROJECT	COORDI			M/DAT	UM	HORIZONTAL	VERT	
					est - U.S. Survey Ft.	NAD83	MLL	
DCATION COORDINATES	ELEVAT							
X = 1,800,466 Y = 107,007	-24.3	Ft.					<u> </u>	
ELEV. DEPTH	-S	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G G	0.5 FT.
					Advanced Boring			
		NR			SPT Sampler	-		) ) ) )
					Advanced Boring			
		NR			SPT Sampler			) ) ) )
					Advanced Boring			
↓     AFTER     DURING       G 2017     DURING     ↓		ntinue	L			esignation	SS-161	

DR	ILLIN	G LC	)G (Cont. Sheet)	INSTAL						SHEET	
PROJE			,,	Mob COORD	ile Dis			IM	HORIZONTAL	OF 3 VERT	
PROJE	- 1							est - U.S. Survey Ft.	NAD83	ML	
LOCATI	ON COOI	RDINAT	ES	ELEVAT							
X =	1,800,46	6 Y	= 107,007	-24.3	3 Ft.				_		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RĚC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G IS	BLOWS/ 0.5 FT. N-VALUE
								Advanced Boring			
<u>-51.3</u> - - - - - - - - - - - - - - - - - - -	27.0		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -										
- - - - - - - - - - - - 											

								Designation MHS	SPT-12-19
D	RILLI	NG L	_00	G South Atlantic Division	INSTAL Mot			or AL	SHEET 1 OF 2 SHEETS
1. PRO		rha-	Par		9. COC	RDINA	ATE S		NTAL VERTICAL
	oile Ha	rour	DOI	ings					pward Discharge
				LOCATION COORDINATES N 105901.235 E 1800496.571				ER'S DESIGNATION OF DRILL	
3. DRIL	SPT-12	ENCY		-	12. TO	E-75 FAL S/		•	UNDISTURBED
	ps of E			s - CESAS	12 TO			R CORE BOXES ()	0
Joe	Bower	man	۱					• •	emarks
$\square$	ECTION C /ERTICA NCLINEE	L	RIN	G DEG FROM BEARING VERTICAL	15. DA <sup>-</sup>			STARTED 9/26/20	COMPLETED 9/26/20
6. THIC	KNESS	OF O∖	/ERE	BURDEN >40.5'				P OF BORING -20.26	
7. DEP	TH DRILI	ED IN	NTO	ROCK		-	-	RECOVERY FOR BORING	N/A
8. TOT	AL DEPT		BOF	RING 40.5'			ael I	_oveland, Geologist	
ELEV	DEPTH			FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Samp No.	RQD %	REMARKS	Blows/ 0.5 ft N-Value
	E		Cl hi	LAYEY ELASTIC SILT (MH), greenish gray, saturate gh plasticity, no dilatancy, trace fine sand, trace shel	ed, Is. 73			USCS	
					60	S2			
					100	) S3			
	-				100	) S4			
					100	) S5			
	-	Ш			100	) S6			
	-				100	) S7			
	-				100	) S8	-		
					100		-		
	-				-	) S10	-		
			Tr	ace silty sand (SM) seams.	80		-		
					80	S12	-		
	-				53	-	-		
-41.3	21.0		S	ANDY SILT (ML), greenish gray, saturated, very soft		-	-		
	E			on plastic, trace shells.	20		-		
-44.3	24.0	3 0		AND (SM), greenish gray, fine to medium grained, aturated, little silt, trace shells.	47	S17			
		0 0		-,, - 200	93	S18			
-48.8	28.5	0 0 0	In	terbedded silt.	73	S19			
-40.0	-		• fir	OORLY GRADED SAND (SP), gray, poorly graded, ne to medium grained, saturated, very loose, trace sil	t, 53	S20			
	-		C	ace shells. LAY (CH), green and gray, moist, very soft, high	100	) S21	1		
-52.7	32.4			asticity, trace sp nodules.	100	) S22			
	-			LAYEY ELASTIC SILT (MH), blueish green, moist, ery soft to stiff, trace fine sand.		) S23	-		$\begin{array}{c c} 1 \\ \hline 3 \\ \hline 2 \\ \hline 3 \\ \hline \end{array} 5$
				Deplesed in its				mandmont No. W/01076	3

				Bori	ng [	Designation	MHSPT-1	2-19		
		G (Cont Sheet)	INSTALI					SHE	ΞT	2
DRILLING	3 LU	G (Cont Sheet)	Mob	ile H	arbo	r AL		OF	2 si	HEETS
PROJECT			COORD	INATE	SYS	TEM H	IORIZONTAL	VER	ICAL	
Mobile Ha	rbor	Borings	State	e Pla	ne		NAD83		MLLV	V
LOCATION CO	ORDIN	ATES	ELEVAT	ION T	OP O	F BORING		•		
N 105901	.235	E 1800496.571	-20.2	26'						
ELEV DEPT	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Samp No.	RQD %	RE	MARKS		Blows/ 0.5 ft	N-Value
-55.8 35.5			73	S24					4	10
	3 0	SILTY SAND (SM), green with yellowish brown, fine grained, wet, low plasticity, few clay.	100	S25					6 3 3 4	7
	* *	Light gray, fine grained, saturated, few silt, With trace	100	S26					5 4 4	8
-60.8 40.5	└── │	100	S27					5 6 6	12	
		BOTTOM OF BOREHOLE AT 40.5 ft								

## Notes:

 Soils visually field classified in accordance with the Unified Soil Classification System.
 N-Value: Total blows over last 1.0 foot of 1.5-foot

2. N-Value: Total blows over last 1.0 foot of 1.5-foot driven interval, unless otherwise indicated, using a 1 3/8-inch ID splitspoon with 140-pound hammer falling 30 inches.

3. The CME-750 drilling rig utilizes an automatic trip hammer.

4. Undisturbed sampling with 3" by 30" Shelby tube, mechanically pushed with CME-750.

5. Component Percentages: Trace: 0 to 5%, Few: 5 to 10%, Little: 15 to 25%, Some 30 to 45%, With 50 to 100%.

6. MLLW was calculated from measuring barge deck to mud line, then subtracting barge deck to water and closest observation station tide reading.

roject I.D.							Bo	oring Desigr	nation			SS-	163
DRILLING LOG	DIV	<b>/ISION</b> S	outh Atlantic	IN	ISTA	<b>\LL</b> A	ΤΙΟΙ	Mobile	Distric	t	SHEE OF 3	T 1 3 She	ETS
PROJECT				LAT	LONG	COORI	DINATES	LAT = 30.2	87890	LONG	G = -88	.0349	39
1963-1964 Subsu	urface Inve	estigation		STA	TE PLA	NE CO	ORDINA	<b>TES</b> X = 1,7	99,663	Y =	105,09	15	
DATE OF BORING		STARTED	COMPLETED					<b>ATUM/UNITS</b> Vest - U.S. Su	rvev Ft		<b>riz.</b> D83	VER MLL	
DRILLING AGENCY	Corp	os of Engineers	- CESAM					TOP OF BO	RING		ROUND	WATE	R
NAME & TITLE OF FIELD			AME OF DRILLER					-25.8 Fe SNATION OF DR			Under		
N/A, Geo	logist		N/A	N	/A				Č		NUAL		ER
DIRECTION OF BORING	NCLINED	DEG. FROM VERTICAL	BEARING	size	E AND	ТҮРЕ О	FBIT	See Re	marks				
THICKNESS OF OVERBU	RDEN	N/A		тот		MBER (	CORE B	OXES 0					
DEPTH TO TOP OF ROCK	ſ	N/A		тот	AL SAI	MPLES	D	STURBED ()	UN	DISTU	RBED (U	) (סו	0
TOTAL DEPTH OF BORIN	IG	25.5 Feet		тот	AL REG	COVER	Y FOR E	oring Not	Record	ed			
	CLAS	SIFICATION OF	MATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT	DF RE	RILLING	G S	BLOWS/ 0.5 FT.	N-VALUE
-25.8 0.0	(CH) CLAY	/, fat, high plast	icity, very soft										
	consistency	/, wet, gray,											
1													
							Advo	nood Doring					
Ŧ M							Auva	nced Boring					
$\downarrow$													
												0	
				NR			SP	T Sampler				0	0
Ŧ												0	0
‡ 💋													
							Adva	nced Boring					
‡ <b>[</b> ]													
+												$\left  - \right $	
‡ 💋												0	
				NR			SP	T Sampler				0	~
Ţ M												0	0
+						1	Advo	nced Boring					
	H FORM 1836 AFTER ▼ DURING ▼ (0						Auva	nceu bonng				1 1	

DR	LLING LOG (C	ont. Sheet)	INSTALLATIO		B			SHEET 2	
			Mobile Di					OF 3 SH	
ROJEC	T							VERTIC	
0047						est - U.S. Survey Ft.	NAD83	MLLV	
	on coordinates 1,799,663 Y = 105,0	095	<b>ELEVATION 1</b> -25.8 Ft.	UP OF	BURIN	3			
ELEV.		CLASSIFICATION OF MATERIALS	RÉC	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	0.00 BLOWS/	N-VALUE
	LE LE			SA	UD	METHOD			;
-						Advanced Boring			
-			NR			SPT Sampler		0	0
-45.8		SAND, clayey, very loose, wet, g	jray,			Advanced Boring			
- - -			NR			SPT Sampler		0	0
CAM F	ORM 1836-A	FTER <b>Y</b> DURING <u>Y</u> DRILLING DRILLING <u>V</u>	(Continu	ed)		Boring De	signation	SS-163	

DR		GIO	)G (Cont. Sheet)	INSTAL						SHEET	
					ile Dis						SHEETS
PROJEC	т										
0047			EC					est - U.S. Survey Ft.	NAD83	IVIL	LW
			= 105,095		8 Ft.	DP OF	BORING	3			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	•	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT. N-VALUE
-	-				NR			SPT Sampler			0 0
- - - -51.3	- - - 25.5							Advanced Boring			
	-		NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System.					140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x 2" O.D.).			
-	- - - - - -										
-	- - -										
-	- - - -										
-	- - - - - - -										
	ORM 1	836-4	A AFTER ▼ DURING ▼ DRILLING ▼ DRILLING		1		I	Boring De	J	SS-16	<u> </u>

							Designation MHSPT-11-19		
DF	RILLIN	GL	OG DIVISION South Atlantic Division	INSTAL Mob			or AL OF	T 1 1 Shee	ETS
1. PRO				9. COO			YSTEM HORIZONTAL VERT		
Nob	iie Harl	bor I	Borings				oama West :  NAD83 :  N : OF BIT   4" Fishtail Upward Discha		_
							ER'S DESIGNATION OF DRILL		_
	SPT-11		N 104081.253 E 1799422.912	12. TOT	E-750 AL SA		S DISTURBED UNDIST	URBED	
			eers - CESAS				24	0	
Joe	Bowerr	man					R CORE BOXES 0 OUND WATER See Remarks		
٧	CTION OI ERTICAL		RING DEG FROM BEARING VERTICAL	15. DAT			STARTED COMPLETE	ED 9/20	
6. THIC	KNESS O	FOV	ERBURDEN >34.5'				P OF BORING -28.6'		
7. DEPT	H DRILLE	ED IN	TO ROCK				RECOVERY FOR BORING N/A		
8. TOT <i>I</i>	L DEPTH		30RING 34.5'		Adar		w, Geologist		
ELEV	DEPTH	LEGEND	FIELD CLASSIFICATION OF MATERIALS (Description)	% REC	Samp No.	RQD %	REMARKS	Blows/ 0.5 ft	N-Value
	_		SANDY SILT (ML), dark gray, very soft, low plasticity, few fine sand, trace shells.	100			USCS	0 0 0	0
	_			100	S2		hole drilled using rotary spade bit and water	1 0 1	1
	-			93	S3		minimal fluid return throughout drilling	0 0 0	0
	 _ _			100	S4	-		0 0 0 2	0
	- - -			47	S5				0
	- - -			100	S6				0
-38.6	<u>   10.0    </u>	3	SILTY SAND (SM), light gray, fine grained, wet, very loose, some silt.	100	S7	-		0 0 1	0
	_	0	iouse, some sit.	100		-		1 1 0	2
	_	。 。		80	S9	-		2	4
	-	0 0	SAND, light brownish gray, fine to medium grained, ve	rv	S10	-		1 0	3
-46.1	- - - 17.5	0 0 0	loose, little silt.	87	S11	-		0 1 0 1	
			CLAY (CH), greenish gray, high plasticity, no dilatancy	. <u>33</u>				0	0
	Ľ			93	S13			0 2	4
	-			47	S14			0 1 2	3
				100	S15			2	3
	_ _ _		Grayish brown, trace wood.	100	S16			2	2
	_  _			80	S17			1	3
F0.4	-			100	S18			1	3
-56.1	<u>27.5</u>		SANDY CLAY (CL), grayish brown, wet, medium plasticity, some fine to medium sand.	100	S19			2	4
	- -		Few fine sand.	100	S20			2	3
	- - -			100	S21			1 2 2	4
	-  -  -			100	S22			2	3
-63.1	- - 34.5			100	S23			1 1 3	4

**SAS FORM 1836-A** FEB 08

BOTTOM OF BOREHOLREDIACON in its entire Born for Besignation W9NATSPIEQQ0190000EET 1 of 1

rojec	t I.D.										Bo	oring Desigr	nation			SS-	165
DRI	LLIN	G LO	G	DIV	ISION	So	uth Atlantic	IN	IST/	ALLA	ΤΙΟΙ	Mobile	Distric	:	SHEE OF 2	T 1 2 She	ETS
PROJ	ЕСТ							LAT	LONG	COORI	DINATE	<b>S</b> LAT = 30.23	82339	LONG	G = -88	.0348	59
19	63-196	4 Subs	surfac	e Inve	stigatio	n		STA	TE PLA	NE CO	ORDIN/	<b>XTES</b> X = 1,7	99,679	Y =	103,07	6	
	OF BOI				<u> </u>	RTED	COMPLETED					ATUM/UNITS Vest - U.S. Sui	nyoy Et	HOI NAE		VER MLL	
DRILI	ING AG	ENCY		Corps	s of Engi	ineers -						TOP OF BO			ROUND		
	& TITLE		D INSP	-								-32.8 Fe SNATION OF DR					
		/A, Ge	-	t			N/A	N/	Ά				Ľ		TO HAI		
	FION OF			NED	DEG. VERT	FROM TCAL	BEARING	SIZE	AND	ГҮРЕ О	FBIT	See Re	marks				
ніск	NESS OF	OVERB	URDEN	I N	N/A			тот		MBER (	CORE B	OXES 0					
EPTH	то тор	OF ROC	ж		N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTUR	RBED (L	( <b>D</b> )	0
OTAL	DEPTH	OF BOR	ING		18.5 Fe	eet		тот	AL REG	COVER	Y FOR E	oring Not	Record	ed			
LEV.	DEPTH	LEGEND		CLASS	SIFICATIO	ON OF MA	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV	ANCEMENT METHOD	DF RE	MARK	5	BLOWS/ 0.5 FT.	N-VALUE
32.8	0.0		(CH)	CLAY.	fat. hiał	n plastici	ty, very soft										
-	-				wet, gra												
-																	
-											Adva	nced Boring					
-	-																
-	-																
-	-																
_	-															0	
-	-							NR			SP	T Sampler				0	0
-	-															0	C
-	-																
-	-																
-	-																
-																	
-									Adva	nced Boring							
-	-										71070	liood Doning					
-	-																
_	_																
-	-																
-	- -																
-	L															0	
-						NR			SP	T Sampler				0			
-	-															0	0
-	-										Adva	nced Boring				Ļ	

PROJECT     COORDINATE SYSTEM/DATUM State Plane - Alabama West - U.S. Survey Ft.     HORIZONTAL NAD83     VERTICAL MLLW       LOCATION COORDINATES     ELEVATION TOP OF BORING -32.8 Ft.     -32.8 Ft.     -32.8 Ft.	DR	ILLIN	G LC	DG (Cont. Sheet)	INSTALI					SHEET		TP
State Plane - Alabama West - U.S. Survey Ft         NAD83         MLLW           LEVATION COORDINATES         LEVATION TOP OF BORING           X = 1,799,679         Y = 103,076         -32.8 Ft				. ,			M/DAT	184	HORIZONIZA			15
COLOCATION COORDINATES       ELEVATION TOP OF BORING         X = 1,799,679       Y = 103,076         -32.8 FL       -32.8 FL         -32.8 FL       -32.8 FL         ELEV.       DEPTH         9       CLASSIFICATION OF MATERIALS         nebc.       52         68       160         Advanced Boring         -46.8       14.0         (SC) SAND, clayey, dense, wet, gray,         NR       SPT Sampler         -51.3       18.5         NOTES:       1. Soils are field visually classified in account are with the Unified Soils	ROJE	61										
X = 1.799.679       Y = 103.076       -32.8 FL         ELEV.       DEPTN       9       CLASSIFICATION OF MATERIALS       nec.       62       62       700       ADVARCEMENT       REMANKS       55         4.6.8       14.0       (SC) SAND, clayey, dense, wet, gray,       Image: Advanced Boring       Advanced Boring       Image: A	LOCAT		RDINAT	TES	1				10.200	L		-
ELEV. DEPTH 9 G CLASSIFICATION OF MATERIALS REC. 50 OD ADVANCEMENT RELAINS 10 OD ADVANCEMENT REL												
-46.8 14.0 (SC) SAND, clayey, dense, wet, gray, (SC) SAND, clayey, dense, wet, gray, (SC) SAND, clayey, dense, wet, gray, NR SPT Sampler -51.3 18.5 NOTES: 1. Soils are field visually classified in accordance with the Unified Soils			1		•	OX OR AMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT. N-VALLE	-VALUE
NOTES:     140# hammer w/30" drop used with 2.0' split spoon (1-3/8" I.D. x	-	+ + + + + + + + + + + + + + + + + + +				B0		Advanced Boring			15 25 6	533
	<u>-51.3</u> - - -	18.5 18.5 18.5 1 1 1 1 1 1 1 1 1 1 1 1 1		<ol> <li>Soils are field visually classified in accordance with the Unified Soils</li> </ol>				w/30" drop used with 2.0' split spoon (1-3/8" I.D. x				

DRI	LLIN	g lo	G	DIVIS	SION	Soι	uth Atlantic	IN	IST/	<b>\LLA</b>	ΤΙΟΙ	Mobile	Distric		IEET 1 2 SI	IEET:
PROJ	ECT							LAT	LONG	COOR	DINATE	s LAT = 30.2	76788	LONG =	-88.034	778
10	63-106	4 Sub	surface	Invest	ination			STA	TE PLA	NE CO	ORDIN	<b>XTES</b> X = 1,79	99,695	Y = 101	,057	
	OF BO		Sunace	IIIVESL	STARTE	D	COMPLETED					ATUM/UNITS		HORIZ.	V	RT.
												Vest - U.S. Sui TOP OF BOI		NAD83 GROU	MI	LW TER
	LING AC				of Engine					TION		-36.8 Fe	et		derwate	
NAME		<b>OF FIEL</b> I/A, Ge	D INSPEC	CTOR		NAM	e of driller N/A	MAN N/		TURER	S DESI	GNATION OF DR	ווג [		HAMME	
DIREC	TION OF	-			DEG. FRO	м	BEARING									
$\boxtimes$	VERTIC		INCLINE	D	VERTICA	NL .		SIZE	AND	TYPE O	FBIT	See Re	marks			
тніск	NESS OF	OVERB	URDEN		N/A			тот	AL NU	MBER (	CORE B	OXES 0				
DEPTH	і то тор	OF ROO	ĸ		N/A			тот	AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UD)	0
ΤΟΤΑΙ	DEPTH	OF BOR	ING	1	14.5 Feet			тот	AL REG	COVER	Y FOR E	BORING Not	Record	ed		
ELEV.	DEPTH	LEGEND	(	CLASSIF	FICATION	OF MA	TERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	٨D	ANCEMENT METHOD	DF RE	NILLING MARKS	BLOWS/	N-VALUE
-36.8	0.0		(CH) C		at high n	asticit	y, very soft								-	
	ţ				vet, gray		,, tory oon				Adva	nced Boring				
-	ł											Ū				
-														0		
						NR			90	T Sampler			0			
-									0	r Gampier			- L	0		
•													0			
- - - - - - - - - - - - - - - - - 									Adva	inced Boring						
- - - -				NR			SP	T Sampler			0	- 0				
- - - - - - - - - - - - - 									Adva	nced Boring						
	I	1836		TER ILLING			<u>∠</u> (C	l ontinue	L			Boring Des			-167	1

DR		GLC	)G (Cont. Sheet)	INSTAL						SHEET		
					ile Dis					OF 2		TS
PROJEC	T			COORD State P				<b>им</b> est - U.S. Survey Ft.	HORIZONTAL NAD83		LW	
LOCATI	ON COOF	RDINAT	ES	ELEVA								
			= 101,057		8 Ft.			-				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	;	RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 0.5 FT.	N-VALUE
-	-										0	
-	-				NR			SPT Sampler			0	~
-	-										0	0
-	-											
-	-											
-49.8	13.0							A duran a d Dania a				
-	-		(SC) SAND, clayey, wet, gray with la of fat clay	ayers				Advanced Boring				
-	-											
-51.3	- 14.5											
	-		NOTES:					140# hammer w/30" drop used				
-	-		1. Soils are field visually classified in accordance with the Unified Soils	I				with 2.0' split spoon				
-	-		Classification System.					(1-3/8" I.D. x 2" O.D.).				
-	-											
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-	ORM 1	826	A AFTER ▼ DURING ▼ DRILLING ▼ DRILLING ▼		1			Boring De	<u> </u>	SS-16		

	10.07			Designatio	n MHS	SPT-09			_
DRILLING LOG		LLATIO		or AL			SHEET OF 1 SH	1 IEETS	s
PROJECT	9. CO	RDINA	TE S	YSTEM	HORIZO		VERTICAL		٦
Mobile Harbor Borings				oama West	Fishtail U	D83 pward I		V	-
HOLE NUMBER LOCATION COORDINATES	11. MA	NUFAC	TURE	ER'S DESIGNAT			Lisonarye		-
MHSPT-09-19 N 100364.582 E 1798938.319 DRILLING AGENCY		E-750		.e	DISTURBED	:	UNDISTURBE	<u> </u>	_
Corps of Engineers - CESAS	12.10	TAL SP		-5	21		0NDISTORBE 0	D	
NAME OF DRILLER Joe Bowerman	13. TO	TAL NI	JMBEI	R CORE BOXES	s 0	•			
DIRECTION OF BORING DEG FROM BEARING	- 14. EL	EVATIC	N GR	OUND WATER		emarks			
VERTICAL VERTICAL	15. DA	TE BOI	RING	STAF	9/11/20		MPLETED 9/11/20		
THICKNESS OF OVERBURDEN >32'	16. EL	EVATIC	N TO	P OF BORING	-27.98	; ;			_
DEPTH DRILLED INTO ROCK				ECOVERY FOR		N/A			_
TOTAL DEPTH OF BORING 32'	- 18. SIC			id title of ins y, Geologist					
ELEV DEPTH	%	Ň			REMARKS		Blows/ 0.5 ft	N-Value	
	RE	Sam	RQD %		REMARKO			>-z	
<ul> <li>SANDY SILT (ML), dark greenish gray, medium</li> <li>plasticity, little fine sand, trace shells.</li> </ul>	10	0 S1		USCS			0	0	
			1				0		-
	87	' S2	-				0 0 0	0	
_     Organic odor. _	10	0 S3					0	0	
	10	0 S4					0	0	
		_	-				0		_
35.5 7.5 Some fine sand.	80	) S5					0	0	
SILTY SAND (SM), dark gray, fine grained, little silt,	10	0 S6					0	0	
37.0 - 9.0   °   trace shells. -         SILTY SAND (SP-SM), dark gray, few silt, trace shell	s	07					0		
	60	) S7					0	1	
	73	8 S8					0 1 2	3	
	10	0 59					1	3	-
			-				2		
	53	8 S10					1	2	
F II	33	3 S11					0	0	-
44.5 16.5 1 SANDY SILT (ML), dark blueish gray, medium plastic	ity	_	-				0		
46.0 18.0 few fine sand, trace shells.	10	0 S12					1	2	
<ul> <li>ELASTIC SILT (MH), high plasticity, trace wood, trace</li> <li>fine sand.</li> </ul>	33	s S13					3 2	4	
⊧ <b>   </b>	10	0 \$14	1				2	5	_
		514	-				2 1 0	3	_
F []]	10	0 815					0	0	
F 111	10	0 \$16	1				1	2	
F []]			-				1		_
F []]	10	0 S17					2	3	
54.2 - 26.2 - 26.2 - 26.1 SANDY DEAT (OL) dark group and dark brown little f	80	) S18	1				0 2	4	
I I I I I SANDY PEAT (OL), dark gray and dark brown, little f       I I I I I I I I I I SANDY PEAT (OL), dark gray and dark brown, little f       I I I I I I I I I I I I I I I I I I I			-				2		
56.5 28.5	20	) S20					3	5	
<ul> <li>ELASTIC SILT (MH), dark gravish green, high plastic</li> <li>trace wood, trace fine sand.</li> </ul>	ity, 10	0 S21					2	4	
	$\vdash$		-				3		_
	10	0 822					2	5	
60.0   32.0       BOTTOM OF BOREHOLE AT 32.0 ft							4		4

											<u> </u>				Des	ignati	on	M	HSP	<u>T-10</u>	-			-
D	RILLI	N	GL	.00	3		on buth At	lantic	Divisio	on	1	NSTALI Mob			or Al								•	
1. PRC									2111010	••	9	. COOF	RDINA	TE S	YSTE	М		•		•	VERTI	CAL		1
Mo	oile Ha	arb	or	Bor	rings						-	State					<u>/" </u>	•					EETS	-
							N COOR													aiù L	nscha	iye		1
	SPT-1				1	N 101	921.72	27 E	17997	99.836		CME					SHEET         1           OF         1         SHEET         1           OF         1         SHEET         1           INAD83         MLLW         4" Fishtail Upward Discharge           VATION OF DRILL         INDISTURBED         UNDISTURBED           INATED         UNDISTURBED         UNDISTURBED           INATED         UNDISTURBED         0           XES         0         0           TARTED         COMPLETED         9/12/20           JG         -41.65'		1					
	LING A				s - C	ESAS	5				Í	12. TOT	AL SA	MPLE	S		D				JNDIST		)	
4. NAM	IE OF D	RIL	LER									13. TOT	AL NU	JMBE	R COI	RE BOXI	ES							1
-					G		DEG F	ROM	BE	ARING	·	I4. ELE	/ATIO	N GR	OUN	D WATE	R	See	Rem	narks				
	VERTIC	AL					VERTIO					15. DAT	-	-			9	/12/20		CON				
6. THI	KNESS	OF	= 0\	/ERE	BURDE	EN		>16.5'	•		-					BORING				<u>,                                     </u>				-
7. DEP	TH DRI	LE	DIN	ITO	ROCK														IN/F	٩				-
8. TOT	AL DEP	тн		BOR	RING			16.5'	1			/		Kelly	y, G	eologis	st							
ELEV	DEPT	н	EGEND			FIELD		FICATIC (Descrip		IATERIALS	S	% REC	Samp No.	RQD %				REMAR	KS			Blows/ 0.5 ft	√-Value	
	-		Ť			SILT ( ace sh		rk gray,	, low pla	sticity, littl	le fine	33	51		US	CS						0		F
	-			Tr	ace fii	ne san	d, no sh	ells.				87	S2									0	0	Ē
	-											47	S3									0	0	Ē
-47.7	 6.0											100	S4									0 0	0	F
-49.2	-		э 0	SI	ILTY S	SAND (	SM), da	rk gray,	, fine gra	ained, few	v silt.	47	S5									0	0	Ē
	-				ANDY ne san		ML), da	rk gray,	, mediun	n plasticit	asticity, few		S6									0	0	Ē
	Ē											100	S7									0	0	F
	-				ace w		some fir	ne sand	ł.			100	S8									0	0	F
										and, few v	wood.	100	S9									1 2	3	F
-56.7	- 15.0	,										100	S10									2	3	-
-57.7	16.0	)					(MH), o ace fine :		ayish gre	en, high	plasticity	100	S11									2	4	F
					-	BOT	TOM OF	BORE	HOLE /	AT 16.5 ft	t											-		t
				1.           Ur           2.           drii           3/8           30	nified 3 N-Va iven ir 8-inch 0 inche The ammer Undi echan Com 0%, Lit 00%. MLL ud line	Soil Cli alue: T terval, I D spl es. CME-7 r. sturbea ically p ponent ttle: 15 W was e, then	assificat otal blov unless itspoon '50 drillin d sampli bushed v t Percen to 25% calcula	ion Sys vs over otherwis with 14 ng rig ut ng with rith CM tages: ∃ , Some ted from ting bar	tem. last 1.0 ise indica 0-pound tilizes ar i 3" by 3 IE-750. Trace: 0 30 to 4 n measu- ge deck	ordance v foot of 1. ated, usin I hammer n automat 0" Shelby to 5%, F 5%, With uring barg to water g.	.5-foot ng a 1 r falling tic trip r tube, rew: 5 to 50 to ge deck to	)												

DRILLING LOG         DIVISION         South Atlantic           PROJECT									INSTALLATION Mobile District SHEET 1 OF 3 SHEETS										
PROJECT		•					LAT	LONG	COOR	DINATES	LAT = 30.2	71517	LONG =	-88.037	293				
1063	106/ 511	heurfa	ce Invi	estinatio	n		STA	TE PLA	NE CO	ORDINA	<b>XTES</b> X = 1,79	98,892	Y = 99,	144					
DRILLING AGENCY     Corps of Engineers - CESAM       NAME & TITLE OF FIELD INSPECTOR     NAME OF DRILLER											ATUM/UNITS		HORIZ.	VE	RT.				
											Vest - U.S. Sur		NAD83	ML	LW				
								LEV	ATION	IS	-28.8 Fe			derwate					
									TURER	S DESIC	<b>GNATION OF DR</b>			HAMMEI AL HAMI					
N/A, Geologist N/A DIRECTION OF BORING DEG. FROM VERTICAL																			
								SIZE AND TYPE OF BIT See Remarks											
THICKNES	OF OVER	BURDE	N	N/A			тот	AL NU	MBER (	CORE B	OXES 0								
DEPTH TO TOP OF ROCK N/A								AL SAI	MPLES	D	ISTURBED ()	UN	DISTURBE	D (UD)	0				
TOTAL DEP	тн ог во	RING		22.4 F	eet		тот	AL RE	COVER	Y FOR B	oring Not	Record	ed						
ELEV. DEP	H LEGEND		CLAS	SIFICATIO	ON OF M	ATERIALS	RÉC.	BOX OR SAMPLE	RQD OR UD	ADV I	ANCEMENT METHOD	DF RE	RILLING MARKS	BLOWS/	N-VALUE				
- <u>28.8 0.(</u>	,			′, fat, higl /, wet, gra		ity, very soft													
										Adva	nced Boring								
							NR			SP	T Sampler			0	- 0				
										Adva	nced Boring								
	M 1836		AFTER DRILLIN	<b>—</b> 5	URING	<u>⊃) ∑</u>	NR			SP	T Sampler Boring Des	·		0 0 0 5-169	- 0				

DRI		G (Cont. Sheet)	INSTALL	SHEET 2							
				Mobi		OF 3 SHE					
ROJEC	• 1			COORDI	HORIZONTAL NAD83	MLI					
0047								est - U.S. Survey Ft.		IVIL	_ • •
			= 99,144	-28.8				-			
ELEV.	DEPTH		CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	GS	BLOWS/ 0.5 FT. N-VALUE
-43.8 - - - - - - - - - - - - - - - - - - -			(SC) SAND, clayey, wet, gray,		NR			Advanced Boring			0 0 0 0 0 0
- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -		NOTES:					Advanced Boring			
-	- - -		1. Soils are field visually classified in accordance with the Unified Soils					with 2.0' split spoon (1-3/8" I.D. x			
AM F	ORM 1	836-	A AFTER ▼ DURING ▽ DRILLING ▼ DRILLING ▼	(0-	ntinue				signation	SS-169	

DRILLING LOG (Cont. Sheet)					LATIO	S-169 SHEET 3 OF 3 SHEET							
PROJECT					Mobile District								
					INATE	HORIZONTAL							
								est - U.S. Survey Ft.	NAD83	ML	LW		
				ELEVA		OP OF	BORIN	3					
X = ′	1,798,89		= 99,144	-28.	8 Ft. T		<b></b>		1			_	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		RÉC.	BOX OR SAMPLE	RQD OR UD	ADVANCEMENT METHOD	DRILLIN REMARK	G S	BLOWS/ 0.5 FT. N-VALUE		
1	-		Classification System.					2" O.D.).					
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		020	AFTER ▼ DURING ▼ DRILLING ▼ DRILLING ▼		I	I	I		esignation	SS-16		_	