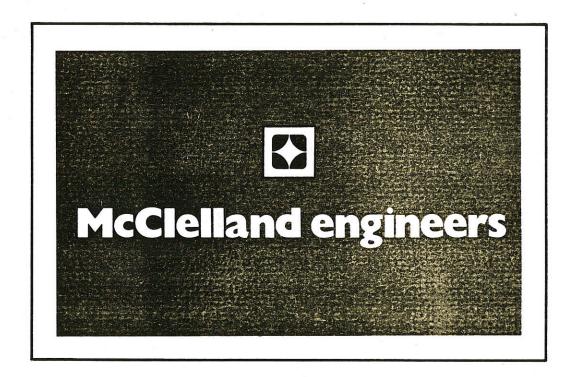
VOLUME IIA GEOTECHNICAL DATA REPORT VIBRACORE LOGS ISLES DERNIERES STABILIZATION PROJECT STATE PROJECT NO. 750-55-01 TERREBONNE PARISH, LOUISIANA

REPORT TO

J. WAYNE PLAISANCE, INC./T. BAKER SMITH & SON, INC.
HOUMA, LOUISIANA



VOLUME IIa
GEOTECHNICAL DATA REPORT
VIBRACORE LOGS
ISLES DERNIERES STABILIZATION PROJECT
STATE PROJECT NO. 750-55-01
TERREBONNE PARISH, LOUISIANA

Report

t o

J. WAYNE PLAISANCE, INC./T. BAKER SMITH & SON, INC.
Houma, Louisiana

b y

M c C L E L L A N D E N G I N E E R S, I N C. Geoscience Consultants Westlake, Louisiana

December 1987

Mocletland Engineers



McClelland engineers

Report No. 1087-1328 Volume IIa December 23, 1987

J. WAYNE PLAISANCE, INC./T. BAKER SMITH & SON, INC. 550 South Van Houma, Louisiana 70361

Attention: Mr. Marc Rogers, P.E., Project Manager

Geotechnical Data Report
Vibracore Logs
Isles Dernieres Stabilization Project
State Project No. 750-55-01
Terrebonne Parish, Louisiana

Mr. Rogers, we are pleased to submit Volume IIa, of a three-volume report, for the geotechnical services performed for the proposed Isles Dernieres Beach Stabilization Project. This work was authorized in writing by Mr. Rogers on April 7, 1987, and our services were performed in general accordance with the signed agreement dated February 16, 1987. During the project, minor changes to the scope of work and method of data presentation were made in order to address the concerns of the design professionals involved with this project and as a result of the encountered soil conditions.

Volume II, submitted under separate cover, describes the laboratory testing procedures and explains our method of data presentation for the proposed borrow areas. Volume IIa presents the log of borings for the vibracores that were obtained by Ocean Surveys, Inc. The data shown on the logs are based on our laboratory activities. Volumes IIb and IIc contain the laboratory data for the borrow areas, and they will be submitted separately. Volume I contains information from the three islands; Volume III is our Geotechnical Interpretive Report. These documents will also be submitted as separate documents. At various times during this project, we provided preliminary findings to the design team members. The information in the above referenced reports supersedes and replaces all previous data.

Mr. Rogers, we appreciate the opportunity to be of service to you and the design team on this initial phase of this very important study. We look forward to working with you on later phases of the study. After you receive this report, we will call you to answer your questions.

Sincerely,

McCLELLAND ENGINEERS, INC.

Andrew L. Shafer Project Engineer

David E. Lourie, P.E.

Division Manager

ALS/DEL/me(R14.27)
Copies Submitted: (6)

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MOCLELLAND ENGINEERS =

EXECUTI	VE	SUMMARY	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	Page	i
TERMS A	ND	SYMBOLS	US	ED	01	V	ВС	R I	NG	L	.00	S	A١	ID	LC)G	OF	. 6	3OR	II	NG:	S					

EXECUTIVE SUMMARY

A reconnaissance study was conducted as part of a comprehensive study for the proposed beach stabilization project for Isles Dernieres. McClelland Engineers performed field and laboratory studies on the three-island segments. A field investigation program was performed by Ocean Surveys, Inc., in the proposed borrow source areas north of Isles Dernieres. They used vibracoring methods to explore seafloor conditions to about 20-ft penetration. The samples obtained from the vibracoring were submitted to McClelland for laboratory testing.

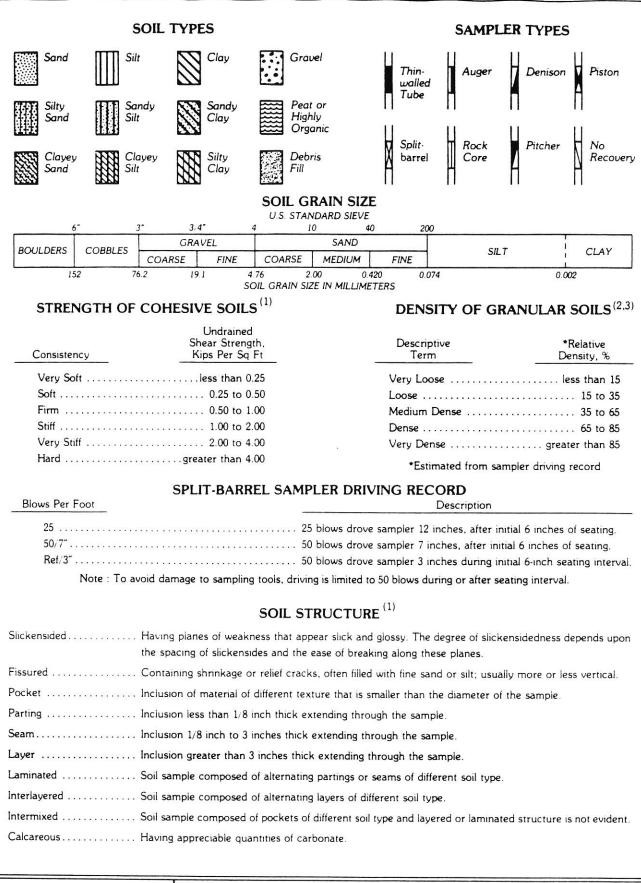
The results of our involvement in this study are presented in three volumes. Volume IIa, the Geotechnical Data Report - Vibracore Logs, is presented here. Volume II, submitted under separate cover, contains a complete description of our laboratory procedures and method of data presentation. It also includes an overall plan of the proposed borrow areas showing the vibracore locations. Laboratory data from the borrow area soils are presented in Volumes IIb and IIc. Volume I contains information from the islands. Volume III, the Geotechnical Interpretive Report, also presented under separate cover, provides geotechnical recommendations for preliminary design of the beach restoration program.

The purpose of this study was to develop site-specific preliminary geotechnical information in the proposed borrow areas north of the islands and on the island segments. It should be recognized that while significant portions of the design concepts can be finalized using the information presented here, optimization of design alternatives requires additional To accomplish the purpose of this study, 256 vibracores were obtained and delivered to a dock in Cocodrie, Louisiana. They were then transported in the cores to our laboratory. Each core was logged in on arrival using the sample designation assigned to it by Ocean Surveys, Inc., and it was stored in a temperature controlled environment. At the time of extrusion. each core was measured and then it was split longitudinally and the soil materials were visually classified. Classifications included color, soil type, and consistency. Furthermore, we noted the presence and location of inclusions such as shells, wood, etc. Jar samples of representative material types were obtained from each core. times during the project, unused portions of the cores were packaged and given to the Louisiana Geological Survey and Louisiana State University.

Laboratory testing was performed on selected samples to evaluate pertinent engineering properties. Soil testing consisted of mechanical grain size analysis, hydrometer analysis, liquid and plastic limit tests, water contents, remolded miniature vane tests, standard Proctor density tests, and maximum-minimum density determinations.

This data report presents the vibracore logs which include portions of the laboratory data. Also included is a key to the terms used on the logs.

TERMS AND SYMBOLS USED ON BORING LOGS



REFERENCES:

- (1) ASTM D 2488
- (2) ASCE Manual 56 (1976)
- (3) ASTM D 2049

Information on each boring log is a compilation of subsurface conditions and soil or rock classifications obtained from the field as well as from laboratory testing of samples. Strata have been interpreted by commonly accepted procedures. The stratum lines on the logs may be transitional and approximate in nature. Water level measurements refer only to those observed at the times and places indicated, and may vary with time, geologic condition or construction activity.

LOG OF BORING NO. 1 Isles Derniers Stabilization Project State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA				
		ATTERREDG				
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Liquid Limit (%) Plasticity Index (%) Solve No. 200 Sieve				
- 5 -	Olive gray silty fine sand with shell fragments - slightly clayey with clay pockets below 4.5'	9*				
		24*				
- 10 -	Very soft to soft olive gray clay with sand seams, partings, and pockets and shell fragments					
- 15 -						
- 20 -						
- 25 -						
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.					
40	KEY					

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19.5'

LOG OF BORING NO. 2 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

		State Project 750-55-01	1						
FIELD DATA	Δ	MATERIAL DESCRIPTION			L	ABORA"			
Depth (Feet) Samples Penetration Resistance. (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve
5 -		Very soft to soft olive gray clay with sand seams and shell fragments			73				50**
- 10 -		Olive gray silty fine sand slightly clayey with shell fragments and clay pockets							51**
- 15 -		Very soft to soft olive gray clay slightly silty and sandy with shell fragments and sand seams		_	0.06	54	_	51	24
- 20 -									
- 25 - - 30 - - 35 -		Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
40		KEY				•			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 15'

LOG OF BORING NO. 4
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Undrained Shear Passing . 200 Sieve (%) Penetration Resistance. (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Strength (Kips / F1²) Moisture Content (%) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Š. Olive gray silty fine sand with 45** shell fragments and clay pockets Olive gray sandy silt, slightly 41 66** clayey with organics 5 - with sand layer below 5' 45** Very soft to soft olive gray silty clay with shell fragments and sand seams, partings, and 56 pockets 10 Very soft to soft olive gray 15 clay with shell fragments and sand partings, seams, and pockets 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 19'

LOG OF BORING NO. 5
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA	-	
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	e € 2	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Samples Samples Penetration Resistance (Blows / F.I.) Indrained Shea Strength (Kips / F. ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F ₁ ²)	Moisture Content (%)) c.	_ p€	icity	200 S
Sa S	2, 222	Jndra St	Con	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	å . Š
	Dark gray silty fine sand with				_		
	shell fragments and clay						14*
	<pre>pockets - light brown below 3' to 3.5'</pre>		6			7*	
- 5 -	- olive gray, gray below 3.5'					7	
	- with clay seams below 7.5'						24*
10							35*
	Olive gray clayey silt with shell						
	fragments, and sand seams, partings and pockets						96**
- 15 -							
			79				
		-			-		
- 20 -							
				2			
	-						
- 25 -				1			
	Nation						
- 30 -	Notes: 1) Depth is referenced to	20					
	penetration below seafloor.						
	Cores were obtained using vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 						
	vane tests performed on						
	remolded samples.						
40 40	KEY						

JOB NO. 1087-1328

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 6
Isles Derniers Stabilization Project

JOB NO. 1087-1328 Isles Derniers Stabilization Project State Project 750-55-01												
FIELD DATA	MATERIAL DESCRIPTION		LAE	BORATORY D								
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surv Drawing dated October 2, 198	d S	Moisture Content (%)		Plasticity CINES CARE CARE CARE CARE CARE CARE CARE CARE	Passing No. 200 Sieve (%)						
	Olive gray fine sand wit fragments	h shell				12* 11* 10*						
- 5 -	- silty below 5'					20* 22*						
- 10 -	Olive gray clayey silt w pockets and shell frag Very soft to soft olive	ments	48			96**						
- 15 -	silty clay with sand se and shell fragments	eams 0.08	49	49	22							
- 20 -	,	-	7.7			_						
- 25 -												
	Notes:											
- 35 -	 Depth is referenced penetration below s Cores were obtained vibracoring methods Ocean Surveys, Inc. Undrained shear str were obtained by mi 	eafloor. using by engths niature										
40	vane tests performe remolded samples.	ed on										
Jar Sample * Mechanical G	rain Size Analysis											
** Hydrometer A	nalysis	COMPLETION DE	PTH: 16	.5'								

LOG OF BORING NO. 7
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Undrained Shear Strength (Kips / Ft²) Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray fine sand with 8* shell fragments - silty below 3' 27* 5 24* 10 Soft to very soft olive gray silty clay with shell fragments, and sand seams, partings, and pockets - 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis COMPLETION DEPTH: 19.5'

LOG OF BORING NO. 8
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

State Project 750-55-01											
-	F	IELI	DATA		MATERIAL DESCRIPTION	LABORATORY DATA					
	Depth (Feet)	Samples	Penetration Resistance (Blows / F.1)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve (%)
L	٥	\	9 8 8	Undr.		٦ ۲ , ۶	20	ig 3	Liqu	Plas Inde	Š
					Olive gray silty fine sand with shell fragments						16*
	- 10				Very soft to soft olive gray silty clay with shell fragments, silt seams, and sand seams, partings, and pockets		51				
	- 15						69	8			
	- 20 - 25										
	- 35				Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
			Samp		KEY						
	× 14	ie c	nanic	al Gr	ain Size Analysis						

COMPLETION DEPTH: 19.5'

** Hydrometer Analysis

LOG OF BORING NO. 9
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L		TORY DA			
eet) ttion nce. 'Ft)	LOCATION: See Ocean Surveys, Inc. Drawing dated	l Shear gth F (²)	رة (م)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Sieve	
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shea Strength (Kips / Et2)	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	nit Dry Lbs / C	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
5		5		5 0	ڙ د	ء ء	Z	
	Olive gray silty fine sand slightly clayey with shell fragments						47**	
- 5 -							35*	
			75				56**	
- 10 -	Very soft to soft olive gray silty clay slightly sandy with shell fragments, and sand seams, partings, and pockets							
- 15 -	, paratings, and pookeds		79					
- 20 -	· · · · · · · · · · · · · · · · · · ·				-			
- 25 -				ប				
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
40 Jar Sample	KEY					1		

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 10
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

10B NO. 108/-1.	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D		
s in	LOCATION: See Ocean Surveys, Inc.	Shear th (2)	e e e	Weight JFt)		RBERG MITS	9 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (第)
	Olive gray silty fine sand						27*
							38*
- 5 -	Very soft to soft olive gray silty clay with shell fragments, and sand pockets, seams, and		77				
- 10 -	partings Olive gray silty fine sand with shell fragments and clay pockets						27*
- 15 -	Very soft to soft olive gray silty clay with shell fragments, and sand seams, pockets, and partings - with sand layer 13.7' to 14'						
- 20 -							
- 25 - - 30 - - 35 - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.				A.		25.
Jar Sample	rain Size Analysis						
** Hydrometer A	nalysis COMPLETI	ON DEPT	гн: 1	7'			
							1

LOG OF BORING NO. 11 Isles Derniers Stabilization Project

State Project 750-55-01

	State Project 750-55-0	<u> </u>	State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPTION			LABORA	TORY D						
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength	(Kips / Ft ²) Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity STIM BERS Index (%)	Passing No. 200 Sieve (%)				
	Olive gray silty fine sand with shell fragments		29				15* 30*				
- 5 -	Very soft to soft olive gray silty clay with shell fragments, and sand seams, partings, and pockets										
- 15 -			73								
- 20 -											
- 25 -	Notes:										
- 30 -	1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.										
40	KEY										

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 12 Isles Derniers Stabilization Project State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					,
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Index (%)	Passing No. 200 Sieve (%)
D (L L L L L L L L L L L L L L L L L L		Š		5 =	: : :	<u> </u>	ž
5	Olive gray silty fine sand with shell fragments			2			22*
	Olive gray sandy silt, slightly clayey with shell fragments						63**
- 10 -	Very soft to soft olive gray silty clay with shell fragments, and sand seams, pockets, and partings		55				
- 15 -		0.06	65		37	19	
- 20 -							
- 25 -	Notace						
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 15'

LOG OF BORING NO. 13
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
Depth (Feet) Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	RBERG	Passing . 200 Sieve (%)	
Sam Sam Penel Resii (Blow Undrair Str.	October 2, 1987	Undrair Str	Mois	Unit Dr (Lbs /	Liquid Limit (%)	Plasticity Index (%)	Pas No. 20	
	Olive gray clayey silt with sand pockets and shell fragments							
5							82**	
	Olive gray silty fine sand with shell fragments		7				27*	
- 10 -	Very soft to soft olive gray clay with sand layers and shell fragments - slightly sandy to 10'		52					
- 15 -	- with sand layer 14.5' to 15'	0.07	81 59		73	50		
- 20 -		_						
- 25 -								
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by							
- 35 -	Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
Jar Sample	KEY	L						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 14-A Isles Derniers Stabilization Project

State Project 750-55-01 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Indrained Shear Strength (Kips / F1²) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Moisture Content (%) Depth (Feet) Drawing dated Undrained Liquid Limit (%) October 2, 1987 Olive gray silty fine sand with shell fragments 48* - with silty clay layer 1.2' to 1.74 5 Very soft to soft olive gray clay with sand seams and pockets 57 10 Olive gray sand with shell 10* fragments - silty to 13.7' - clay layer at 13.7' 44* - clayey below 14' 15 58 Very soft to soft olive gray clay with shell fragments, and sand pockets, seams, and partings 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples.

Jar Sample

40

Mechanical Grain Size Analysis

KEY

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 14-B Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L		ORY DA		
Samples Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft2)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Samuex (%)	Passing No. 200 Sieve (%)
- 5 -	Olive gray fine sand with shell fragments - silty to 3' and below 7'		33				49** 34* 10* 11*
- 10 - - 15 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets - with sand layer 11' to 11.5' - with silt seams and pockets below 13'		53				77**
- 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 16 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 LABORATORY DATA MATERIAL DESCRIPTION FIELD DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) Undrained Shear LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance. (Blows / Ft) Strength (Kips / Ft²) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray silty fine sand, 57** slightly clayey 66** Olive gray sandy silt, slightly clayey 21* Olive gray silty fine sand with 5 shell fragments Very soft to soft olive gray clay 49 with shell fragments and sand and silt seams - with sand layer 12.2' to 10 12.7' 69 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis

COMPLETION DEPTH: 17'

LOG OF BORING NO. 17
Isles Derniers Stabilization Project
State Project 750-55-01

State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPTION	٧		L	ABORAT	TORY DA		
Samples Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surve Drawing dated	eys, Inc.	Undrained Shear Strength (Kips / Ft²)	ارس (س)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Samples Samples Penetration Resistance. (Blows / E.t) Indrained She Strength (Kips / Ft²)	October 2, 1987		ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry Is / C	Liquid Limit (%)	Plasticity Index (%)	200 (%)
2 8 8 8 8 X X X X	-40	l	P , S	• ပိ	CE	Liq	Plas	ž
	Olive gray clayey silt wi shell fragments	th						
	Shell il agments					32	5	
- 5 -	Very soft to soft olive g clay with shell fragmen							
	sand seams, partings, a			46				
	pockets							
- 10 -								
- 15 -						п		
				79			2	
- 20 -			_					
- 25 -								
- 30 -	Notes: 1) Depth is referenced	to						
	penetration below se 2) Cores were obtained	eafloor.						
	vibracoring methods Ocean Surveys, Inc.							
- 35 -	Undrained shear street							
	were obtained by min vane tests performed							
	remolded samples.							
40 40	KEY		1					

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 19'

LOG OF BORING NO. 18
Isles Derniers Stabilization Project
State Project 750-55-01

50E 142. 1007-11	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORAT	TORY DA		
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity CLIN BERN CLIN CLIN CLIN CLIN CLIN CLIN CLIN CLI	Passing No. 200 Sieve (%)
	Olive gray clayey sand with						13*
	shell fragments Olive gray silty fine sand with shell fragments						20*
- 5 -			24				38*
							29*
- 10 - - 15 - - 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		64				29 *
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16'

LOG OF BORING NO. 19 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS Penetration Resistance. (Blows / F.t) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Drawing dated Liquid Limit (%) October 2, 1987 Olive gray silty fine sand 18* with shell fragments - with sandy clay layer 45* 1' to 2' 5 53** Very soft to soft olive gray clay with shell fragments, and 10 sand seams, partings, and pockets 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples.

Jar Sample

40

Mechanical Grain Size Analysis

KEY

Hydrometer Analysis

COMPLETION DEPTH: 19.5'

LOG OF BORING NO. 20 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

	State Project /50-55-01	
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA
Depth (Feet) Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / F.t.)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Liquid Limit (%) Plasticity Plasticity Sab
	Dark and olive gray sandy silt, clayey	59** 72**
- 5 -	Olive gray silty fine sand with shell fragments	56**
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	
- 15 -	•,	80
- 20 -		
- 25 -		
- 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	
40	KEY	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 21 Isles Derniers Stabilization Project

State Project 750-55-01

E.E.E.E.E.E.	State Project /50-55-	101		ABCC	TODY		
FIELD DATA	MATERIAL DESCRIPTION		1		TORY DA	RBERG	
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, In Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F12)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity (%)	Passing No. 200 Sieve (%)
- 5 -	Olive gray clayey silt to silty clay slightly sandy with shelfragments, mica, and organics	ı			36	13	82**
- 10 - - 15 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	i	43				
- 20 -		8					
- 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 22
Isles Derniers Stabilization Project
State Project 750-55-01

305 1007-1	State Project 750-55-01	
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid (Lbs / Cu Ft) Liquid Limit (%) Plasticity Index (%) Sassing No. 200 Sieve
	Olive gray silty fine sand,	14*
- 5 -	Olive gray sandy silt, slightly clayey with shell fragments and clay pockets	68**
- 10 -	Vany saft to saft alive years	64**
- 15 -	Very soft to soft olive gray clay with shell fragments, and sand seams and pockets	77
- 20 -		
- 25 -		
- 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	
40	KEY	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

JQB NQ. 1087-1328

LOG OF BORING NO. 23 Isles Derniers Stabilization Project State Project 750-55-01

		State Project /50-55-01						
FIELD DATA	1	MATERIAL DESCRIPTION		L	ABORA	ORY DA	ATA	
s stion soce.	Shear th	LOCATION: See Ocean Surveys, Inc.	Shear th	96	Veight JFt)		RBERG	g ieve
Depth (Feet) Samples Penetration Resistance (Blows / Ft)	Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	う		Š		٦	רו	a =	2
		Olive gray silty fine sand with shell fragments				2		25* 38*
		Olive gray sandy silt						67**
- 5 -		with sand layer 6' to 7'clayey below 7'						32*
								83**
- 10 -		Very soft to soft olive gray clay with shell fragments, silt pockets, and sand seams and partings		71				
- 15 -		-		/1				
- 20 -		8						9
- 25 -								
	l	Newscore						
- 30 -		Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc.						
- 35 -		3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40		KEY						

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 24
Isles Derniers Stabilization Project
State Project 750-55-01

L	Let A translate				State Project 750-55-01						
L	F	IEL	DDATA		MATERIAL DESCRIPTION		L	ABORA	ORY DA	ATA	
	Depth (Feet)	Samples	Penetration Resistance (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SER Index (%)	Passing No. 200 Sieve (%)
ŀ				ח	Very soft olive gray clay slightly sandy - with silty fine sand layer 1' to 1.5'	j j			ני	ш-	14*
	- 5	-			- silty below 2.5' Olive gray silty fine sand						19*
	- 10				Very soft to soft olive gray clay with shell fragments and sand seams - with silty sand layer 11' to 12' and below 16.7'		68				50*
	- 15 - 20					-					
	- 30				Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Г	40	-			KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 25
Isles Derniers Stabilization Project
State Project 750-55-01

51515 517	State Project /50-55-U1	Т		ABORA	TORY D	A T A	
FIELD DATA	MATERIAL DESCRIPTION	,	1			RBERG	
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SI	Passing No. 200 Sieve (%)
- 5 -	Olive gray silty fine sand with shell fragments - with clay seams below 1.5'						23*
- 10 -	Very soft to soft olive gray clay with shell fragments and sand seams	0.06	51		68	41	
- 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40	KEY		-			·	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 26 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Indrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Penetration Resistance. (Blows / F.t) LIMITS LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Undrained Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments - silty to 1' 38 - slightly sandy below 1' 5 Very soft to soft olive gray clay with sand seams, pockets, and partings 50 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples.

Jar Sample

40

* Mechanical Grain Size Analysis

KEY

** Hydrometer Analysis

COMPLETION DEPTH: 16'

LOG OF BORING NO. 27 Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01	1.1000.755.7
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA L ATTERBERG
Samples Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Liquid Liquid Liquid Limit (%) Plasticity Index (%) Content (%) Figure Content (%) Conten
	Olive gray silty fine sand with shell fragments	33*
- 5 -	- with sandy clay layer to 0.5' Very soft to soft olive gray clay with shell fragments, and sand seams and pockets	79
- 20 -	Notes:	
- 35 - 40	 Depth is referenced to penetration below seafloor. Cores were obtained using vibracoring methods by Ocean Surveys, Inc. Undrained shear strengths were obtained by miniature vane tests performed on remolded samples. 	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. 28
Isles Derniers Stabilization Project
State Project 750-55-01

Olive gray silty fine sand, slightly clayey with shell fragments 33	tate Project 750-55-01	State Project 7			
Cocation: See Ocean Surveys, Inc. Cocation: See Ocean Surveys,		MATERIAL DESCRIPTION	DDATA	IELD DA	FII
slightly clayey with shell fragments Very soft to soft olive gray clay with shell fragments, and sand seams and pockets 66	ee Ocean Surveys, Inc.	Drawing dated	Penetration Resistance (Blows / F1) Undrained Shear Strength (Kips / F12)	Samples Penetration Resistance	Depth (Feet)
clay with shell fragments, and sand seams and pockets 66	clayey with shell 41** 40** 33*	slightly clayey with sh			- 5
	shell fragments, and and pockets	clay with shell fragmen			
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	etion below seafloor. Were obtained using oring methods by Surveys, Inc. The shear strengths obtained by miniature ests performed on	 Depth is referenced penetration below se Cores were obtained vibracoring methods Ocean Surveys, Inc. Undrained shear stre were obtained by min vane tests performed remolded samples. 			- 25 - - 30 - - 35 -
40 KEY		KEY			40 -

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 29
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project 750-55-01	T
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Limit (%) Plasticity Index (%) No. 200 Sieve
	Olive gray silty fine sand, slightly clay with shell fragments	34**
- 5 -	Olive gray sandy silt, slightly clayey with shell fragments	68**
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	
- 15 -		
- 20 -		
- 25 -		
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	
40	KEY	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 30
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA		
es ation unce. (Ft)	LOCATION: See Ocean Surveys, Inc. Drawing dated	d Shear gth F1 ²)	Jre (%)	Weight (u F t)	LIA	RBERG	ing Sieve
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained She.	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shea Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve
	Olive gray sandy silt, slightly clayey with shell fragments		32				61**
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 10 -							
- 15 -	- with silty fine sand layer 14' to 15.5'						49**
- 20 -							
- 25 -							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths						
40	were obtained by miniature vane tests performed on remolded samples.						

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 31
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

State Project /50-55-U1							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	MITS	Passing No. 200 Sieve (%)
Depth (Fe Samples Penetrati Resistand (Blows / F Undrained Strength Strength	October 2, 1987	Undrain Stre (Kips	Mois	Unit Dr (Lbs /	Liquid Limit (%)	Plasticity Index (%)	Pas No. 20
- 5 -	Very soft to soft olive gray clay, slightly silty with shell fragments, and sand seams, pockets, and partings - with sand layer to 2'						20* 6*
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets - with sandy silt layer 9' to 10'				10	20	55*
- 20 -					49	30	
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40 40	KEY						

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 34
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project	/50-55-01						
FIELD DATA	MATERIAL DESCRIPTI	ON	LABORATORY DATA					
Samples Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft2)	LOCATION: See Ocean Surv Drawing dated October 2, 198		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity LINGEN (%)	Passing No. 200 Sieve (%)
- 5 -	Olive gray silty fine sa shell fragments - with clay layer to 1							19* 33*
- 10 - - 15 - - 20 - - 25 -	Very soft to soft olive clay with shell fragme sand seams, pockets, a partings Notes: 1) Depth is referenced	ints, and		54				33*
- 35 -	penetration below s 2) Cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear structured by minus vane tests performed remolded samples.	d using s by rengths iniature						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 35
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project 750-55-01		ALL-SHIPS NOW				
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Samples Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	e 60	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Indrained She Strength	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry V	p (%	icity	200 S
Sa S	ž	Jndra St (Kip	Con	(Lbs	Liquid Limit (%)	Plasticity Index (%)	d .
	Olive gray silty fine sand						23*
	with shell fragments						
							30*
- 5 -							21*
	- clayey below 6'						
	Venue as fit has as fit of its						53**
	Very soft to soft olive gray clay with shell fragments, and	0.04	59		65	41	
10	sand seams and layers						
	-		73				
- 15 -	· ·						
		-		_	-		
- 20 -							
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	2) Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40							
	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 36
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01	т					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	9 [6	Unit Dry Weight (Lbs / Cu Ft)		AITS	Passing 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) odrained She Strength (Kips / Ft²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Ory /	₽ 6 8	icity	Passing 200 Si (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Judrained She Strength (Kips / Ft ²)	2, 1507	Indra St (Kip	N 00 €	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	å.
							1.6.
	Olive gray silty fine sand with shell fragments						16*
	and the same of th	l					16*
							24*
- 5 -	- clayey silt layer 6' to 8'						_ '
			51				
- 10 -	Very soft to soft olive gray						
	clay with shell fragments, and sand seams, partings, and						
	pockets						
15							
- 15 -							
	N.						
					-		8
- 20 -							
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature						ı
	<pre>vane tests performed on remolded samples.</pre>						
40 40	KEY						
	•						

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 41 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

5.5.5	State Project 750	-22-01		205:-			
FIELD DATA	MATERIAL DESCRIPTION		LABORATORY DATA			T	
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Canada Canad	Passing No. 200 Sieve (%)
- 5 -	Olive gray clayey sand - silty below 2'						18* 26** 30*
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets		62		57	37	50**
- 20 - - 25 -							
- 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seaf 2) Cores were obtained us vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strength were obtained by miniate vane tests performed or remolded samples.	ng :hs :ure					
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 42 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

Samples Samples Penetration Resistance Blows / Et) Undrained Sheas Strength (Kips / Ft²) Undrained Sheas Strength (Kips / Ft²) Moisture Content (%) Liquid Liquid Liquid	Plasticity CLIMBER PATE PASSING PASSIN
Samples Samples Penetration Resistance Blows / Et) Undrained Sheas Strength (Kips / Ft²) Undrained Sheas Strength (Kips / Ft²) Moisture Content (%) Liquid Liquid Liquid	Plasticity LIP Index (%) Passing No. 200 Sieve (%)
	16+
Olive gray clayey sand with shell fragments	35**
Very soft to soft olive gray clay with shell fragments, and sand layers, seams, partings and pockets -15 -	
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	

Jar Sample

Mechanical Grain Size Analysis

KEY

Hydrometer Analysis

LOG OF BORING NO. 43-A Isles Derniers Stabilization Project State Project 750-55-01

State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
s stition ition ince. Ftt) Shear	LOCATION: See Ocean Surveys, Inc.	Shear Ith : 1 ²)	é € ₀	Weight u Ft)		RBERG NTS	gieve Sieve	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shea	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
5		5		5 0	L'ir	9 -	Z	
	Olive gray clayey silt with shell fragments, sand							
	seams, and clay pockets		66					
- 5 -								
							59**	
10		-			-			
- 15 -	· .							
- 20 -	W .							
25								
- 25 -	9							
	Notes:							
- 30 -	 Depth is referenced to penetration below seafloor. 							
	Cores were obtained using							
	vibracoring methods by Ocean Surveys, Inc.							
- 35 -	Undrained shear strengths were obtained by miniature							
	vane tests performed on							
	remolded samples.							
40	KEY							
	NL I							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 43-B Isles Derniers Stabilization Project JOB NO. 1087-1328 State Project 750-55-01 FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA Undrained Shear Strength (Kips / Ft²) ATTERBERG Undrained Shear Strength (Kips / Ft 2) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / F.t) Moisture Content (%) Depth (Feet) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray silty fine 20* sand with silt pockets 23* 5 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples.

Jar Sample

40

* Mechanical Grain Size Analysis

KEY

** Hydrometer Analysis

LOG OF BORING NO. 44
Isles Derniers Stabilization Project

State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA
		ATTERREDG
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid (Lbs / Cu Ft) Content (%) Fassing No. 200 Sieve (%)
- 5 -	Olive gray silty fine sand, slightly clayey with shell fragments	13* 43** 41*
- 10 -	Very soft to soft olive gray clay with shell fragments and sand seams.	69 54 33
- 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	
40	KEY	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 45

		Edd of Bonna No. 19
JOB NQ.	1087-1328	Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01			
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA		
reet) es ation ance. / Ft) d Shear Ft2)	LOCATION: See Ocean Surveys, Inc. Drawing dated	d Shear agth agth (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)		
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained She Strength (Kips / Ft²)	October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Liquid Limit (%) Plasticity Index (%) No. 200 Sieve		
	Olive gray silty fine sand with shell fragments	11* 39**		
	- clayey to 2'	35*		
5 -		49**		
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams and partings			
- 15 -		80		
- 20 -				
- 25 -				
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by			
- 35 -	Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.			
40	KEY			

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

LOG OF BORING NO. 46
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project /50-55-01	·					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA			T		
Depth (Feet) Samples Fenetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity lndex (%)	Passing No. 200 Sieve
- 5 -	Olive gray silty fine sand, slightly clayey with shell fragments						15* 15* 36*
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	0.06	49		47	28	
- 20 - - 25 -							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40 40	KEY						

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 49
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

	State Project /50-55-01	· · · · · ·					
FIELD DATA	MATERIAL DESCRIPTION		L	T-	TORY DA	RBERG	
Feet) les ation ance / Ft) d Shear ngth	LOCATION: See Ocean Surveys, Inc. Drawing dated	d Shear ugth 'F(2)	ure 1 (%)	Weight Cu F t)	LIA	AITS T	ing Sieve
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Olive silty fine sand, with clay pockets and shell fragments						7* 16*
- 5 -	Olive gray sandy silt with clay pockets						73**
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 15 -		,	59				
- 20 - - 25 -							
- 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Jar Sample	rain Size Analysis						

COMPLETION DEPTH: 17'

Hydrometer Analysis

LOG OF BORING NO. 50 Isles Derniers Stabilization Project

State Project 750-55-01

STATE PROJECT /5U-55-UI FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA						
FIELD DATA	MATERIAL DESCRIPTION	ATTERREDC				
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Plasticity SIII	Passing No. 200 Sieve (%)
	Olive gray silty fine sand with shell fragments					14*
- 5 -						14*
- 10 - - 15 - - 20 - - 25 - - 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on					
40	remolded samples.			·		

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 52 Isles Derniers Stabilization Project State Project 750-55-01

	State Project 730-33-01	-01					
FIELD DATA	MATERIAL DESCRIPTION		<u> </u>	ABORA	TORY DA	_	
induction (Fit) Shear	LOCATION: See Ocean Surveys, Inc.	Shear h (²)	e (°	eight Ft)		RBERG MITS	ieve
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shea	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Olive gray silty fine sand slightly clayey with shell fragments						40** 30*
- 5 -	Olive gray sandy silt with shell fragments						71**
- 10 -	Very soft to soft olive gray silty clay with shell fragments, and sand pockets and seams	0.04	49 58		41	25	
- 15 -							
- 20 -							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Jar Sample	KEY						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 53
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

FIELD DATA	MATERIAL DESCRIPT		T	1	ABORA	TORY DA	Δ Τ Δ	
	MATERIAL DESCRIPT	1014	 		7		RBERG	
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity SIII	Passing No. 200 Sieve
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by method vane tests perform remolded samples.	d to seafloor. d using s by rengths iniature		57				12*
Jar Sample								
We are present to an are	rain Size Analysis							
** Hydrometer A	nalysis	COMPLETI	ON DEP	TH:	18'			

LOG OF BORING NO. 54
Isles Derniers Stabilization Project
State Project 750-55-01

100/ 1	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D		
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	Plasticity LINGex (%)	Passing . 200 Sieve (%)
Dep S.		Undra S (Ki	ΣοO	Chir.	Liquid Limit (%)	Plas	, oN
	Olive gray silty fine sand,						46**
- 5 -	clayey with shell fragments Very soft to soft olive gray clay with shell, fragments, and sand seams, partings, and pockets	0.04	43 54		54	29	
- 10 -			79				
- 20 - - 25 - - 30 -	Notes: 1) Depth is referenced to						
- 35 -	penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Jar Sample							1

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 55
Isles Derniers Stabilization Project

State Project 750-55-01

FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 28** Olive gray clayey sand with shell fragments Very soft to soft olive gray clay with shell fragments, 5 and sand seams, partings, and pockets 0.04 78 68 42 10 68 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 56
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-13	Isles Derniers Stabilization Postate Project 750-55-01	roject					
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA	
bon cce Etl Etl h	LOCATION: See Ocean Surveys, Inc.	Shear h t ²)	9 (°	rt)		RBERG MITS	e > -
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Dark gray silty fine sand						44**
	slightly clayey with shell fragments		61				
- 5 -	Very soft to soft olive gray clay with shell fragments, and seams, partings, and pockets						
- 10 -	- with sand layer 12' to 12.5'		73				
- 15 -		0.06	92		81	53	
- 20 -	•						
- 25 -							
- 30 - - 35 - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Jar Sample	KEY						

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 57
Isles Derniers Stabilization Project
State Project 750-55-01

505 Ad. 1007-13	State Project 750	-55-01	5-01					
FIELD DATA	MATERIAL DESCRIPTION			L	ABORAT	ORY DA	ATA	
ess ution ince. / F.1) 1 Shear gth F.2)	LOCATION: See Ocean Surveys Drawing dated	, Inc.	d Shear gth F ₁ 2)	ارم (م)	Weight Su Ft)		RBERG	Sieve
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Sheal Strength (Kips / Ft²)	October 2, 1987		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Olive gray clayey sand with shell fragments							16*
- 5 -	Olive gray sandy silt, slightly clayey with mica and shell fragments					22	NP	72** 61**
- 10 -	Olive and dark gray clay wi shell fragments, and sand partings, and pockets							
- 15 -			+					
- 20 -								
- 25 -								
- 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seaf 2) Cores were obtained us vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear streng were obtained by minimum vane tests performed or remolded samples.	loor. ing ths ture						
40	KEY							

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 58
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

DOD NO. 1007-13	State Project 750-55-01									
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA					
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	ور (م	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)			
Depth (Feet) Samples Penetration Resistance (Blows / F.I) Judrained She Strength (Kips / F. ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry S/C	ē. €	ticity × (%)	200 (%)			
Dep Care Res Res (Richard & S. K.	*	Undra S (Ki	Z o	L _b	Liquid Limit (%)	Plasticity Index (%)	Š.			
	Olive and dark gray silty fine									
	sand, slightly clayey, with shell fragments						47**			
	Very soft to soft olive gray									
- 5 -	clay with shell fragments and sand seams									
	and sain seams									
- 10 -										
			76							
15 -					-					
				3.50						
- 20 -										
- 25 -										
	*									
20	Notes: 1) Depth is referenced to									
- 30 -	penetration below seafloor.									
	Cores were obtained using vibracoring methods by									
	Ocean Surveys, Inc.									
- 35 -	Undrained shear strengths were obtained by miniature									
	<pre>vane tests performed on remolded samples.</pre>					l				
	remorded sampres.				0					
40 40	KEY									
Jar Sample										
* Mechanical G	* Mechanical Grain Size Analysis									

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 60 Isles Derniers Stabilization Project JOB NO. 1087-1328 State Project 750-55-01 LABORATORY DATA MATERIAL DESCRIPTION FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Undrained Shear LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / F.t) Strength (Kips / Ft²) Moisture Content (%) Depth (Feet) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 52** Olive and dark gray silty fine sand, slightly clayey, with shell fragments Very soft to soft olive gray 61 clay with shell fragments, 5 and sand seams and pockets 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 61 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-13	Isles Derniers Stabilization Pi State Project 750-55-01	roject					
FIELD DATA	MATERIAL DESCRIPTION		L	ABORAT	ORY DA	TA	
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Undrained Shear Strength (Kips / F t ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Signal Index (%)	Passing No. 200 Sieve (%)
	Olive gray silty fine sand, with shell fragments and clay partings						12* 7*
- 5 -	Olive gray sandy silt with clay and shell fragments						67**
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams and pockets						
10 4			66				
- 15 -							
- 20 -							
- 25 -							
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 62 Isles Derniers Stabilization Project State Project 750-55-01

		State Project 750-55	0-01						
FIELD DATA		MATERIAL DESCRIPTION			L	ABORAT	ORY DA		
eet)	Shear gth F (2)	LOCATION: See Ocean Surveys, I	nc.	1 Shear gth F ₁ ²)	(%)	Weight u Ft)		RBERG	ng Sieve
Depth (Feet) Samples Penetration Resistance (Blows / F.1)	Undrained Shear Strength (Kips / Ft ²)	October 2, 1987		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
		Olive gray silty fine sand - silt layer below 1'							26** 52**
- 5 -		Very soft to soft olive gray clay with shell fragments, and sand seams, partings, an pockets	d		52				<i></i>
- 10 -					82				
- 15 -				0.04	76		74	42	
- 20 -									
- 25 -									
- 35 -		Notes: 1) Depth is referenced to penetration below seaflow 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	3 5						
40		KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 63
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

L	יו טענ	10	707-13	State Project	750-55-01	-55-01					
L	FIE	DDATA		MATERIAL DESCRIPTI	ON		L	ABORA	ORY DA		,
	Depth (Feet)	Penetration Resistance (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surv Drawing dated October 2, 198	.53	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Case Index (%)	Passing No. 200 Sieve (%)
ľ				Dark gray fine sand with fragments - sandy silt layer bel							10* 74**
	- 10 -			Very soft to soft olive clay with shell fragme and sand seams, partin pockets	nts,						
	- 20 - - 25 - - 30 - - 35 -			Notes: 1) Depth is referenced penetration below so some contained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear standard by many vane tests performs remolded samples.	seafloor. d using s by rengths iniature						
		,		were obtained by m vane tests perform	iniature			·			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 64
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

JUB NO. 1007-13	State Project	750-55-01						
FIELD DATA	MATERIAL DESCRIPT	ON		L	ABORAT			
eet) ss tion nce Ft) Shear att	LOCATION: See Ocean Sur Drawing dated		Shear gth F (²)	9. (%)	Weight u Ft)		RBERG	ng Sieve
Samples Samples Penetration Resistance (Blows / Et) Undrained Shea Strength (Kips / Ft²)	October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
5 5	Olive gray silty fine sa	and.	à		2 -	7.5	a =	40**
	slightly clayey with s fragments							
	Very soft to soft olive clay with shell fragme							
5 +	and sand seams, partir							
	Poore							
- 10 -								
			-					
- 15 -								
- 20 -								
			27					
- 25 -					h.			
	Natao							
- 30 -	Notes: 1) Depth is reference							
	penetration below 2) Cores were obtaine	d using						
	vibracoring method Ocean Surveys, Inc	•						
- 35 -	 Undrained shear st were obtained by m 	iniature						
	vane tests perform remolded samples.	ed on						
40								
Jar Sample	KEY							
* Mechanical Grain Size Analysis								
** Hydrometer A	nalysis	COMPLETI	ON DEP	TH:	17'			

LOG OF BORING NO. 65
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

7227121 1007 10	State Project							
FIELD DATA	MATERIAL DESCRIPT	ON		L		ORY DA	RBERG	
Samples Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / F.t ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SI	Passing No. 200 Sieve (%)
	Olive gray silty fine s							37**
	clay pockets and shel Very soft to soft olive	1 fragments						32**
	with shell fragments,	and sand						
- 5 -	seams, partings, and	oockets						
				65				
- 10 -								
				78				
- 15 -								
		-				-		
- 20 -								
- 25 -								
23								
	Notes:							
- 30 -	 Depth is reference penetration below 	d to seafloor.						
	Cores were obtaine	d using						
	vibracoring method Ocean Surveys, Inc							
- 35 -	Undrained shear st	rengths						
	were obtained by m vane tests perform							
	remolded samples.	ed on						
								I
40	KEY							
Jar Sample								
* Mechanical Grain Size Analysis								
** Hydrometer A	nalvsis							
ng at officer A		COMPLETI	ON DEP	TH:	16.5'			

LOG OF BORING NO. 66
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Undrained Shear LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Strength (Kips / Ft²) Moisture Content (%) Depth (Feet) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 5* Dark and olive gray fine sand with 47** shell fragments, - silty 1 to 2' 77** - clayey silt layer below 2' Very soft to soft olive gray clay 5 with shell fragments, and sand seams, partings, and pockets 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 67
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328 Isles Derniers Stabilization Project State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPTION			LABORA	TORY DA	ATA		
s s jon jon jon jon jon jon jon jon jon jon	LOCATION: See Ocean Surv	eys, Inc.	Shear (Ith	Weight J.F.t.)		RBERG MITS	gieve	
Depth (Feet) Samples Penetration Resistance (Blows / F.t.) Undrained Shea	Drawing dated October 2, 198	eys, Inc.	Undrained She Strength (Kips / F12) Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
- 10 -	Very soft to soft olive clay, with shell fragmand sand seams, partin pockets	ents,	63				43**	
- 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced penetration below s 2) Cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear str were obtained by mi vane tests performe remolded samples.	eafloor. using by engths niature						
Jar Sample	rain Size Analysis			·				
** Hydrometer A	nalysis						ı	

LOG OF BORING NO. 68
Isles Derniers Stabilization Project JOB NO. 1087-1328 State Project 750-55-01 LABORATORY DATA MATERIAL DESCRIPTION FIELD DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) Undrained Shear LIMITS Penetration Resistance. (Blows / F.t) LOCATION: See Ocean Surveys, Inc. Strength (Kips / Ft²) Depth (Feet) Moisture Content (%) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray fine sand with shell 9* 11* fragments and clay pockets Olive gray sandy silt with clay 65** pockets 5 Very soft to soft olive gray clay 58 with sand seams, partings, and pockets 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

LOG OF BORING NO. 69
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project /50-55-01	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA L ATTERBERG					
t)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)		Unit Dry Weight (Lbs / Cu Ft)		MITS	Passing No. 200 Sieve (第)
(Fee	Drawing dated	ength	sture	Z .		÷ 68	Passing 200 Si (%)
Samples Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dit D	Liquid Limit (%)	Plasticity Index (%)	Pas 0. 20
		Š		ے خ	75	ء ۾	Ž
	Very soft to soft olive gray clay						49**
	with shell fragments	0.00	61		00	-	
	with sand layer 1' to 1.5'silty 1.5' to 2.5'	0.03	61		23	7	
F	- with sand seams, partings,						
- 5 -	and pockets below 2.5'						
	_						
- 10 -							
			86				
		1					
		1					
- 15 -							
		1					
		+ -					
- 20 -							
- 25 -							
	Nekasa						
20	Notes: 1) Depth is referenced to						
- 30 -	penetration below seafloor.						
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	3) Undrained shear strengths						
 	were obtained by miniature						
	<pre>vane tests performed on remolded samples.</pre>						
	remoraed sampres.						
40 40	KEY	1					
	701						

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 71
Isles Derniers Stabilization Project

JOB NO. 1087-1328

State Project 750-55-01 LABORATORY DATA MATERIAL DESCRIPTION FIELD DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Undrained Shear LIMITS Passing No. 200 Sieve (%) LOCATION: See Ocean Surveys, Inc. Penetration Resistance. (Blows / Ft) Strength (Kips / Ft²) Moisture Content (%) Depth (Feet) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 38** Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 - with silty fine sand layer to 1' 87 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis

LOG OF BORING NO. 72 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

	State Project 750-55-01	State Project 750-55-01					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	9 6º	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / F.1) Judrained She Strength (Kips / F.1 ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry I	. p. 66	Plasticity Index (%)	Passing 200 Sie
Dep Pe Re Signatura		Undra S (Ki	Σο̈́	Linit (Linit	Liquid Limit (%)	Plas	ž ė
	Very soft to soft olive and dark						
	gray sandy clay with shell fragments	0.03	54		40	21	
	Very soft to soft olive gray clay						
- 5 -	with shell fragments, and sand seams, partings, and pockets						
	councy par ornigo, and pockets		60				
- 10 -							
- 15 -	·						
		L ,			_		
- 20 -							
			1				
- 25 -					1		
			1				
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40 41	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 73
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project 750-55	-01							
FIELD DATA MATERIAL DESCRIPTION				LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, In Drawing dated	Undrained Shear Strength (Kips / Fr2)	ture	Unit Dry Weight (Lbs / Cu Ft)	LIA	RBERG MITS	ing Sieve		
Depth (Fee Samples Penetratic Resistanc (Blows / F Undrained S Strength	October 2, 1987	Undrained She Strength (Kips / Fr²)	Moisture Content (%)	Unit Dr	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve		
	Olive gray fine sand with shelf fragments - sandy silt layer below 2.5'						8*		
- 5 -	Very soft to soft olive gray c with shell fragments, and san seams, partings, and pockets	ay d							
- 10 -			58						
- 15 -									
- 20 -									
- 25 -	Natas								
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
40	KEY								

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

LOG OF BORING NO. 74
Isles Derniers Stabilization Project

State Project 750-55-01

State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	ة ق ق	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)	
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Indrained She Strength (Kips / Ft ²)	October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Dry S/C	. ja di	ricity × (%)	200 (%)	
Dep Pe Bic (Bic (Ki Ki K	***	Undra S (Ki	Σ̈́ο	Fig. 5	Liquid Limit (%)	Plasticity Index (%)	δ.	
	Very soft to soft olive gray							
	clay with shell fragments, and		61					
	sand seams, partings, and pockets							
- 5 -	pockeds							
			ences as					
10			69					
10 -								
- 15 -	·							
- 20 -								
- 25 -							ı	
	Notes: 1) Depth is referenced to							
- 30 -	penetration below seafloor.							
	Cores were obtained using vibracoring methods by							
	Ocean Surveys, Inc.		1					
- 35 -	Undrained shear strengths were obtained by miniature							
	vane tests performed on							
	remolded samples.							
40	KEY							
lar Sample	NL I							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 75
Isles Derniers Stabilization Project

OB NO.	1087-1328	State	Project	750-55-01

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ı	FIELD DAT	Δ	MATERIAL DESCRIPT	ION	LABORATORY DATA			,		
I	(2) (2) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur	veys, Inc.	Undrained Shear Strength (Kips / Ft²)	4 RD	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS) }
I	Depth (Feet) Samples Penetration Resistance (Blows / Ft)	rengt s/F	Drawing dated October 2, 19	1 187	ndrained She Strength (Kips / Ft ²)	istur ent (Init Dry W	7 ge	G. it	ssing S
I	Depth (Feet) Samples Penetration Resistance (Blows / Et)	St (Kip	0000001 2, 11		St. St.	Moisture Content (%)	Juit (Lbs	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve
ŀ	+	ח))			-25	а-	
I			Very soft to soft olive clay with shell frag	gray	0.05	44		38	16	32**
I			and sand seams, parti	ings,	0.03	74		30	10	
I			and pockets							
I	- 5 -		- with clayey sand la	yer to 1'						
I										
I										
I	- 10 -					!				
I						1.4				
I										
I	- 15 -									
I										n
ı					_			1		
ı	- 20 -									
I	- 20 -							-	l	
ı								ĺ		
								1		
	- 25 -									
ı	 		Notes:							
	- 30 -	1	1) Depth is reference	d to						
		1	penetration below							
			Cores were obtaine vibracoring method							
			Ocean Surveys, Inc							
	- 35 -		 Undrained shear st were obtained by m 							
	\vdash		vane tests perform							
			remolded samples.							
H	- 40 -		KEY							
			5 -10 N							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 76
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01										
FIEL	D DATA	-	MATERIAL DESCRIPT	10N	LABORATORY DATA					
Depth (Feet)	Penetration Resistance (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19	i	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plast	Passing No. 200 Sieve (%)
- 5 10 15 20 25 30 35 -			Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d to seafloor. d using s by . rengths iniature		65				
	000		NL I							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 77
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	RBERG MITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained She Strength (Kips / Ft²)	October 2, 1987	Undrain Stre (Kips	Mois	Unit Dr (Lbs /	Liquid Limit (%)	Plasticity Index (%)	No. 20
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		65				
Jar Sample	KEY						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

JOB NO. 1087-1328

LOG OF BORING NO. 78
Isles Derniers Stabilization Project

State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	The second name of the second	
Depth (Feet) Samples Penetration Resistance (Blows / E.1) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plast	Passing No. 200 Sieve (%)
- 5 - - 10 - - 15 - - 20 - - 30 - - 35 - - 40	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets - silty fine sand layer to 1.5' Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	<u></u>	78			a =	40**
	NE I						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 79
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project	/30-33-01	55-01					
FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORA	TORY DA	ATA	
Depth (Feet) Samples Fenetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / Ft ²)	9 6 8	Unit Dry Weight (Lbs / Cu Ft)		RBERG AITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / Et) Indrained She Strength (Kips / Ft²)	Drawing dated October 2, 19	187	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry V	₽ 6 €	icity	Passing 200 Si (%)
P. P	-,		Jndra St (Kip	Con	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	8 °
	Dark gray silty fine sa	nd						30**
	slightly clayey with							45**
	fragments Very soft to soft olive	gray clay						
- 5 -	with shell fragments,	and sand		8				
	seams, partings, and	pockets		70				
	- with sand layer 7.5	' to 8'		70				
10								
- 10 -		i						
- 15 -								
		_	_ 1		3-			
					3	T		
- 20 -								
					1			
				1		I		
- 25 -					1	Ì		
	Notes:							
- 30 -	 Depth is reference penetration below: 					1		
	Cores were obtained vibracoring method	d using						
	Ocean Surveys, Inc							I
- 35 -	 Undrained shear st were obtained by m 							
	vane tests perform							
	remolded samples.			1				
40	VEV							
_	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 80
Isles Derniers Stabilization Project
State Project 750-55-01

State Project /50-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA	
Samples Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve
	Olive gray fine sand with shell fragments - clayey below 2.0						6* 3*
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	0.09	65		76	44	
- 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	0.09	65		76	44	
I _	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 81
Isles Derniers Stabilization Project
State Project 750-55-01

State Project /50-55-01									
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA			
Depth (Feet) Samples Penetration Resistance. (Blows / F.t.) Indrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft ²)	ture nt (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	RBERG	sing Sieve		
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	October 2, 1987	Undrained She Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dr (Lbs /	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)		
	Dark gray silty fine sand, slightly clayey, with shell fragments						33** 53**		
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets		80				3		
- 15 -									
- 20 -									
- 25 -	Nata								
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
40	KEY						_		

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16'

LOG OF BORING NO. 82
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project							
FIELD DATA	MATERIAL DESCRIPT	TON		L	ABORA	TORY D	ATA	-
Depth (Feet) Samples Penetration Resistance. (Blows / E.I.) Undrained Shear Strength (Kips / F! ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19	i	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Library (%) Plasticity Library (%)	Passing No. 200 Sieve
- 5 - - 10 - - 15 - - 20 - - 25 -	Very soft to soft olive gray clay with shell and sand seams, partipockets - with silty fine san Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method	d to seafloor. d using s by		81	86	92	60	56**
40	Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	rengths iniature						
_	1.00 - 1.							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 83 Isles Derniers Stabilization Project State Project 750-55-01

Transfer America Warner Conference on the Confer	e Project /50-55-01							
	AL DESCRIPTION	-	L	T	TORY D		Т	
Le signed of part Drawi	Ocean Surveys, Inc. ing dated ber 2, 1987	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	dex (%)	Passing No. 200 Sieve (%)	
Olive gray silt slightly clay fragments Very soft to so with sand sea pockets - 10 - - 20 - - 25 - Notes: 1) Depth is repenetration 2) Cores were vibracorin Ocean Surv 3) Undrained were obtai	referenced to on below seafloor. e obtained using methods by reys, Inc. shear strengths ned by miniature is performed on	Undrained Stren (Kips /	Moistu	Unit Dry (Lbs / C	Liquid	Plasticity Index (%)	35 Passi No. 200	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 15.5'

LOG OF BORING NO. 84
Isles Derniers Stabilization Project
State Project 750-55-01

- Walter Works	State F10,1ett 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / F.1 ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Lips / Cu Ft) A Bassing No. 200 Sieve					
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Olive gray fine sand with shell fragments Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets. - sandy to 3' Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	92					
	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 85
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project 750-55-01					
FIELD DATA	MATERIAL DESCRIPTION		LABOR	ATORY D	ATA	
Depth (Feet) Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%) Unit Dry Weight		Plasticity CLIN SHE	Passing No. 200 Sieve (%)
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	80				61**
	· · · · ·					

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 86
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

State Project /50-55-UI								
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D		_	
Depth (Feet) Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	é € ₆	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)	
Samples Samples Penetration Resistance (Blows / Ft) drained She Strength (Kips / Ft²)	October 2, 1987	ndrained She Strength (Kips / F ₁ ²)	Moisture Content (%)	Dry C	p 🕞	icity (%)	200 S	
P. P. P. S.		Judra Si (Kip	¥ 0	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	۵ و	
	Very soft to soft olive gray	_			_			
	clay with shell fragments, and sand seams, partings, and		57					
	pockets		J ,					
- 5 -	- slightly sandy to 4.5'							
			79					
- 10 -								
- 15 -								
- 20 -								
					İ			
- 25 -								
	4							
	Notes:				1		- 1	
- 30 -	1) Depth is referenced to							
	penetration below seafloor. 2) Cores were obtained using							
	vibracoring methods by							
- 35 -	Ocean Surveys, Inc. 3) Undrained shear strengths							
	were obtained by miniature vane tests performed on							
	remolded samples.							
40	KEY							
_	NE I							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 87
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project	/50-55-01						
FIELD DATA	MATERIAL DESCRIPTION	NC		L	ABORA	TORY DA	ATA	
s s tion tion Coe. F.t.) Shear th	LOCATION: See Ocean Surv	eys, Inc.	Shear th 't ²)	e (%)	Veight JFt)		RBERG MITS	g ieve
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Sheat Strength (Kips / Ft²)	Drawing dated October 2, 198	7	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve
	Dark gray silty fine sand clayey with shell frag	ments						36**
- 5 -	Very soft to soft olive of clay with shell fragments sand seams, partings, a pockets	nts, and and						70**
- 10 -	- with clayey silt laye 2' to 3'					62	40	
- 15 -	- with sand layer 13.5	to 14.0°						
- 20 -								
- 25 -	Notes:							
- 30 - - 35 -	 Depth is referenced penetration below s Cores were obtained vibracoring methods Ocean Surveys, Inc. Undrained shear str were obtained by mine 	eafloor. using by engths						
40	vane tests performeremolded samples.							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 88
Isles Derniers Stabilization Project
State Project 750-55-01

- 551				State Project 750-55	5-01							
F	IELD	DATA		MATERIAL DESCRIPTION		LABORATORY DATA						
Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, I Drawing dated October 2, 1987	nc.	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity LIBER Places (%)	Passing No. 200 Sieve (%)	
				Olive gray silty fine sand wit	h						48**	
	-			shell fragments							64**	
- 5 - 10 - 15				Olive gray sandy silt, clayey, with shell fragments Very soft to soft olive gray clay with shell fragments, a sand seams, partings, and pockets			66					
- 20 - 25 - 30 - 35				Notes: 1) Depth is referenced to penetration below seafloo 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
B 1:	a r	Samn	1.0	Ν.Ε. Ι							•	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 89
Isles Derniers Stabilization Project
State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
		Ŀ	1		ATTE	RBERG		
Depth (Feet) Samples Penetration Resistance (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity S. Index (%)	Passing No. 200 Sieve (%)	
- 10 - 15 - 20 - 25 - 25 - 25 - 25 - 25 - 25 - 2	Olive gray silty fine sand, slightly clayey, with shell fragments Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets		62			<u> </u>	38**	
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
Jar Sample	NE T							
# Machanical C	nain Cizo Analycic							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 90 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / F1²) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Moisture Content (%) Depth (Feet) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray silty fine sand with 40** shell fragments and clay pockets 38** Very soft and soft olive gray 5 clay with sand seams, partings, and pockets 10 - with silty fine sand layer 16' to 17' 15 8* 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc.

3) Undrained shear strengths

remolded samples.

were obtained by miniature vane tests performed on

Jar Sample

35

Mechanical Grain Size Analysis

KEY

Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 91 Isles Derniers Stabilization Project

State Project 750-55-01

	State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION	 	LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft ²)	ا ق الله	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)	
Depth (Feet) Samples Penetration Resistance (Blows / F.1) Judrained She Strength (Kips / F.2)	October 2, 1987	ndrained She Strength (Kips / Ft²)	Moisture Content (%)	Dry s/C	pi (s	Plasticity Index (%)	200 (%)	
P. C. S. B. B. S.		C A	Z Ö	Lair (Lb	Liquid Limit (%)	Plas	Š.	
	Olive gray silty fine sand with						49**	
	Shell fragments Very soft to soft olive gray							
	clay with shell fragments, and							
5 -	sand seams, pockets and partings							
	paromgo		82					
- 10 -								
	3							
		0.05	66		70	46		
- 15 -		0.03	00		/0	40		
					-			
- 20 -								
					1			
- 25 -					1			
- 30 -	Notes: 1) Depth is referenced to							
	penetration below seafloor.							
	Cores were obtained using vibracoring methods by				j			
	Ocean Surveys, Inc.							
- 35 -	 Undrained shear strengths were obtained by miniature 							
	vane tests performed on remolded samples.							
	remoraed samples.							
40	KEY							
Jar Sample							1	

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 92 Isles Derniers Stabilization Project State Project 750-55-01

DDD 1423 1007 1	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SER Index (%)	Passing No. 200 Sieve (%)
Dod (8)		D S	20	글길	Liai	P. P.	Š
	Olive gray silty fine sand with shell fragments						
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 10 -	- slightly silty to 5'	0.04	80	70	42		
- 15 -		_			_		
- 20 -							
- 25 -							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths	-					
40	were obtained by miniature vane tests performed on remolded samples.						
Jar Sample	KEY			•			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 15'

LOG OF BORING NO. 93
Isles Derniers Stabilization Project JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / F1²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS Penetration Resistance. (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Moisture Content (%) Depth (Feet) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 57** Olive gray silty fine sand, slightly clayey with organics, Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 64 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 94
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Depth (Feet) Samples Fenetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F ₁ 2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Los / Cu Ft) Plasticity Dlasticity Company Comp					
Samples Samples Penetratiz Resistance Blows / F Granned S Strength Kips / Ft	Drawing dated	eed Sture Fig.					
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Indrained She Strength (Kips / Ft²)	October 2, 1987	Undrained Shea Strength (Kips / F(2)) Moisture Content (%) Unit Dry Weigh (Lbs / Cu Ft) Liquid Liquid Flasticity Index (%) Plasticity Index (%)					
		P					
	Dark gray silty fine sand with	43**					
	shell fragments	69**					
	- with sandy silt layer 1' to 2'	15*					
- 5 -	Very soft to soft olive gray clay						
3	with sand seams, partings, and						
	pockets						
- 10 -							
		67					
- 15 -							
		 					
	w						
- 20 -							
- 25 -							
	Notes:						
30	 Depth is referenced to penetration below seafloor. 						
	2) Cores were obtained using						
	vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths were obtained by miniature						
	vane tests performed on						
	remolded samples.						
10	*						
40 40	KEY	· · · · · · · · · · · · · · · · · · ·					
	1						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. 95
Isles Derniers Stabilization Project

JOB NO. 1087-1328

State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPT		T		ABODA	TORY DA	A T A	
TILLD DATA	MATERIAL DESCRIPT	TON	-		_		RBERG	T
Samples Samples Penetration Resistance (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19	i	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity STIP	Passing No. 200 Sieve (%)
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by m vane tests perform remolded samples.	nents, ngs, and seafloor. d using s by rengths iniature		70				
lan Camala	KEY							
Jar Sample * Mechanical Gr	ain Size Analysis							
** Hydrometer An	alysis							
		COMPLETI	ON DEPT	H: 1	7'			

JOB NO. 1087-1328

LOG OF BORING NO. 96
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	RBERG	Passing No. 200 Sieve (%)	
Sam Sesis (Blow: Undrain Strick (Kips	October 2, 1987	Undrain Stre (Kips	Mois	Unit Dr (Lbs /	Liquid Limit (%)	Plasticity Index (%)	Pas No. 20	
	Olive gray silty fine sand, slightly clayey with shell						43**	
- 5 -	fragments Very soft to soft olive gray clay with sand seams, partings, and pockets		71					
- 10 -			,,					
- 15 -								
- 20 -								
- 25 -								
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
Jar Sample	KEY			8				

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 97
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328 Isles Derniers Stabilization Project State Project 750-55-01										
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA								
	LOCATION: See Ocean Surveys, Inc.	Shear h 1 ²)	ه (۵	eight Ft)		RBERG	e ve			
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shea	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)			
- 10 -	Very soft to soft olive gray clay with sand seams, partings, and pockets									
- 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
Jar Sample * Mechanical Gr	rain Size Analysis	9								
- mechanical Gr	ain Size Analysis	(9)								

COMPLETION DEPTH: 15'

** Hydrometer Analysis

LOG OF BORING NO. 98
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project 750-55-01	·								
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D					
es ation moce. / F.t) 1 Shear gth F t 2)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Shear gth F(2)	ارة (ق)	Weight u F t)		RBERG WITS	Sieve			
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Strength (Kips / Ft²)	October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)			
	Olive and dark gray silty fine sand with shell fragments						50**			
- 5 -	Very soft to soft olive gray clay with sand seams, partings, and pockets.						1			
- 10 -										
		0.04	58		56	34				
- 15 -										
- 20 -					-		_			
- 25 -				1						
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc.									
40	3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
•	KEY			*						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19.5'

LOG OF BORING NO. 99-A Isles Derniers Stabilization Project

JQB NQ. 1087-1328 State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPT		LABORATORY DATA					
	and Ental Description		٤			ATTE	RBERG	T
Depth (Feet) Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity GI Index (%)	Passing No. 200 Sieve (%)
- 5 -	Very soft to soft olive with shell fragments, seams partings, and p - silty fine sand lay - with clayey silt la	and sand ockets er to 0.7'	55			_		13* 74**
- 10 -								
- 20 - - 25 - - 30 -	Notes: 1) Depth is reference penetration below							
- 35 -	2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d using s by rengths iniature						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 7.5'

LOG OF BORING NO. 99-B Isles Derniers Stabilization Project

State Project 750-55-01

MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) LIMITS Passing No. 200 Sieve (%) LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / Ft) Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray sandy silt, slightly clayey with shell fragments Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and 5 pockets - with organic pockets 5' to 6' - with sand layer 9' to 9.5' 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 13.5'

LOG OF BORING NO. 100 Isles Derniers Stabilization Project State Project 750-55-01

	Julie Froject 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION				TORY DA		,
Samples Samples Penetration Resistance (Blows / F.t.) Undrained Shear Strength (Kips / F.t.)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F12) Moisture Content (%) Unit Dry Weight (Lbs / Cu F1) Liquid Liquid Limit (%) FIRSTICITY ORDER					Passing No. 200 Sieve (%)
Samples Samples Sentrati Resistant Resistant Strength Strength Strength	Drawing dated October 2, 1987	engt	stur ent (7. C.	_ 2	<u>Ş</u>	ssin S
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) Judrained Shee Strength (Kips / F. ²)	october 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	nit C	Liquid Limit (%)	Plasticity Index (%)	P. 2. 0
خ ا		ž		3	ٿ ا	<u>a -</u>	Z
	Dark gray silty fine sand with						60**
	Shell fragments Very soft to soft olive gray						
	clay with shell fragments,	l					
- 5 -	and sand seams, partings, and						
	pockets		63				
- 10 -							
15							
- 15 -							
					-		
- 20 -							
20 7							
- 25 -						I	
 				-			
							ı
	Notes:						ı
- 30 -	1) Depth is referenced to	^					ı
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths were obtained by miniature						
	vane tests performed on						
	remolded samples.						
40							
40	KEY						
Jar Sample	1						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 101 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

	State Project 750-55-01	Υ					
FIELD DATA	MATERIAL DESCRIPTION	<u> </u>	<u> </u>		TORY DA	RBERG	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft2)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	هَـ ا	Unit Dry Weight (Lbs / Cu Ft)		AITS	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Indrained She, Strengt (Kips / Ft)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	ry ₹	_ 60	eity (%)	Passing No. 200 Sieve (%)
Sar Sar Residue (Bloy (Bloy (Kip (Kip (Kip (Kip (Kip (Kip (Kip (Kip	0000DE1 2, 1907	ndrai Str	Moi	Init D	Liquid Limit (%)	Plasticity Index (%)	Pa 10. 2
5		j j		3	25	α-	
	Very soft to soft olive gray clay with shell fragments,						
	and sand seams, partings, and						
	pockets						
- 5 -			89				
- 10 -							
- 15 -							
15							
- 20 -							
- 25 -				3			
					1	1	
20	Notes: 1) Depth is referenced to						
- 30 -	penetration below seafloor.						1
	Cores were obtained using vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths were obtained by miniature						
	vane tests performed on						
 	remolded samples.						•
40							
	KEY						
Jar Sample							
* Mechanical G	rain Size Analysis						1

COMPLETION DEPTH: 19.5'

** Hydrometer Analysis

LOG OF BORING NO. 102 Isles Derniers Stabilization Project

State Project 750-55-01

LABORATORY DATA FIELD DATA MATERIAL DESCRIPTION ATTERBERG Undrained Shear Strength (Kips / F1²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 0.03 76 85 56 5 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 103 Isles Derniers Stabilization Project

State Project 750-55-01

State Project /50-55-01											
L	F	IEL	D DATA	`	MATERIAL DESCRIPTION			ABORA	TORY DA	20000000	_
	eet)	s	tion ice. Ft)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	9 6°	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)
1	Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	ndrained She Strength (Kips / Ft ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Dry C	. p €	icity (%)	200 S
ı	Dep	(s)	9 8 8	Undra S (Kij		Undra S	Cox	Lbs	Liquid Limit (%)	Plasticity Index (%)	° .
H		\rightarrow			Very soft to soft olive gray	+	48	-			
ı					clay with sand seams, partings,						
	-	1			and pockets						
ı	- 5	4			- with silt pockets 3.5' to 6'						
ı		\dashv									
ı											
I	- 10	1									
	10	-1									
I		-									
	- 15				,						
		\exists						-			
		$\exists l$				+ -			-		
	- 20	\exists									
		$\exists I$									
				1							
	- 25	+		l							
		dl.	ĺ								
		+			Notari						
	- 30	1			Notes: 1) Depth is referenced to						
		$\exists 1$			penetration below seafloor. 2) Cores were obtained using						
		71		- 1	vibracoring methods by						
	- 35	$\exists 1$			Ocean Surveys, Inc. 3) Undrained shear strengths						
	35	$\exists 1$			were obtained by miniature						
]			<pre>vane tests performed on remolded samples.</pre>						
	5. 25	+									
Г	- 40	44			KEY	1				1	
	.1	ar	Samr	nle							1

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 104
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project		r		100-			
FIELD DATA	MATERIAL DESCRIPT	ION		L	Т	TORY DA		I
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19	- 1007	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Lindex (%)	Passing No. 200 Sieve (%)
- 5 25 35 35	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d to pockets d using s by rengths iniature	0.05	56		68	40	
40	KEY		1			1	1	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 105
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

JOB NO. 1087-13	State Project	750-55-01					
FIELD DATA	MATERIAL DESCRIPT	ION	LABORATORY DATA				
Samples Samples Penetration Resistance (Blows / F.t.) Undrained Shear Strength (Kips / F.t.)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Plasticity LINGEN (%)	Passing No. 200 Sieve
- 5	Notes: 1) Depth is reference penetration below 2) Cores were obtained vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d to seafloor. d using s by rengths iniature		54			
Jar Sample							
	rain Size Analysis						
** Hydrometer Ar	nalysis	COMPLETI	ON DEP	тн: 2	0'		

LOG OF BORING NO. 106 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPT	ION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / F1²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Index (%)	Passing No. 200 Sieve (集)
- 5	Very soft to soft olive with shell fragments, seams, partings, and - shell layer to 0.3' Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d to seafloor. d using s by rengths iniature		72				
Jar Sample	KEY							
* Mechanical Gr	rain Size Analysis							
** Hydrometer Analysis COMPLETION DEPTH: 20'					,			

LOG OF BORING NO. 107 Isles Derniers Stabilization Project JOB NO. 1087-1328

JOB NO. 1087-1328 State Project 750-55-01									
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA							
Depth (Feet) Samples Penetration Resistance (Blows / F.t.) Undrained Shear Strength (Kips / F.t ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Shear th	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		ERBERG MITS	Sieve		
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Indrained She Strength (Kips / Ft²)	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)		It Dry bs / C	Liquid Limit (%)	Plasticity Index (%)	Passing b. 200 Sieve		
g (, g & B) b 3		E G	_ ū	ਵੁੱ ਦ	Lig	P. P.	δ.		
	Very soft to soft olive gray clay with shell fragments, and sand								
	seams, partings, and pockets		1						
- 5 -									
- 10 -									
			70						
- 15 -	*								
- 20 -					-		_		
	ii								
- 25 -									
- 30 -	Notes: 1) Depth is referenced to								
	penetration below seafloor. 2) Cores were obtained using								
	vibracoring methods by Ocean Surveys, Inc.								
- 35 -	3) Undrained shear strengths were obtained by miniature								
	vane tests performed on remolded samples.								
40	KEY								
Jar Sample									

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 19'

LOG OF BORING NO. 108
Isles Derniers Stabilization Project
State Project 750-55-01

30B 14D: 1007-13	State Project	750-55-01						
FIELD DATA	MATERIAL DESCRIPT		LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Index (%)	Passing No. 200 Sieve (%)
- 5 25 35 35	Very soft to soft olive clay with shell fragm sand seams, partings, pockets - with sand layer 9.0 Notes: 1) Depth is reference penetration below 2. Cores were obtained vibracoring method Ocean Surveys, Inc. 3) Undrained shear state were obtained by many vane tests perform remolded samples.	d to seafloor. d using s by rengths iniature	0.03	68		66	41	
40 40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 109
Isles Derniers Stabilization Project JOB NO. 1087-1328

State Project 750-55-01

MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG Undrained Shear Strength (Kips / F₁²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS Penetration Resistance (Blows / F.t) LOCATION: See Ocean Surveys, Inc. Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and 86 pockets 5 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 20'

LOG OF BORING NO. 110 Isles Derniers Stabilization Project State Project 750-55-01

Notes: 1 Depth is referenced to penetration below seafloor. 2 Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3 Undrained shear strength. 3 Undrained shear	State Project 750-55-01								
Company Comp	FIELD DATA								
with shell fragments, and sand seams, partings and pockets - 5	Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shear	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	AITS	Passing No. 200 Sieve (%)	
Jar Sample	- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		68					

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 111
Isles Derniers Stabilization Project
State Project 750-55-01

State Project /5U-55-UI							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA L ATTERBERG					
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	Plasticity SIR	Passing No. 200 Sieve
S G S S S S S S S S S S S S S S S S S S		Undr.	Σ̈́ο	ig 9	Liquid Limit (%)	Pias Inde	No.
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		70				
Jar Sample	KEY			٠			

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 112 Isles Derniers Stabilization Project

State Project 750-55-01

FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Penetration Resistance (Blows / Et) LIMITS LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 - with sand layer 7.5' to 8.0' 10 74 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 113
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / F.2)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SIBS	Passing No. 200 Sieve (%)
- 5 20 25 30 35	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets - with wood at 1.5' - with sand layer 13.5' to 14.0' Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		86				
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 114
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft ²)	رچ (ه	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Indrained Sheat	October 2, 1987	ndrained She Strength (Kips / F ₁ ²)	Moisture Content (%)	Jnit Dry Weigt (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passi 200 (4)
9 (P S	"3	<u> </u>	ا تا تا	P. P.	ž
	Very soft to soft olive gray clay with shell fragments, and sand						
	seams, partings, and pockets						
- 5 -							
- 10 -							
- 15 -	q	0.03	62		62	36	
		_					
- 20 -							
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to 						
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths were obtained by miniature						
	vane tests performed on remolded samples.						
	remotived samples.						
40	KEY			-, 1			
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 115-A Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

JUB NO. 1007-13	State Project	750-55-01						
FIELD DATA	MATERIAL DESCRIPT	10N	LABORATORY DATA					
s set)	LOCATION: See Ocean Sur		Shear th 't ²)	e 8 ²	Veight Ft)		RBERG MITS	e ve
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 19	87	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Very soft to soft olive with sand partings	gray clay				_		
- 5 -								
- 10 -								
- 15 -								
- 20 -								
- 25 -								
- 30 -	Notes: 1) Depth is reference penetration below 2) Cores were obtaine	seafloor.	-					
- 35 -	vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform	s by rengths iniature						
40	remolded samples.							
Jar Sample	KEY							
* Mechanical G	rain Size Analysis							
** Hydrometer A	nalysis	COMPLETI	ON DEP	тн: 3	3 '			٠

LOG OF BORING NO. 115-B Isles Derniers Stabilization Project State Project 750-55-01

		State Project /50-55-01						
FIELD	DATA	MATERIAL DESCRIPTION		LABORATORY DATA				
(F)	Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	0 €	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples	istan istan ws/ ined rengt	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft²)	Moisture Content (%)	Init Dry Weigh (Lbs / Cu Ft)	₽ €	city	188 in 1890 S
Sa	Penetration Resistance. (Blows / F.t.) Indrained She Strength (Kips / Ft ²)	55555 E, 1557	Indra St (Kip	Con	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	å ().
\longrightarrow	٦						<u> </u>	
		Very soft to soft olive gray clay						
		with shell fragments, and sand seams, partings, and pockets	1					
		seams, partings, and pockets	1					
- 5 -								
- 10 -			l					
				70				
				/ 0				
- 15 -		a .						
			1					
			+ -					
20 -								
							İ	
- 25 -								
		Nahaa						
20		Notes: 1) Depth is referenced to						
- 30 -		penetration below seafloor.						
		Cores were obtained using						
		vibracoring methods by						
- 35 -		Ocean Surveys, Inc. 3) Undrained shear strengths						
		were obtained by miniature						
		vane tests performed on						
		remolded samples.						
40		-						
_	Sample	KEY						
	and the second							

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 116 Isles Derniers Stabilization Project

State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION	ATTERRERG					
et)	LOCATION: See Ocean Surveys, Inc.	Shea h t ²)	a 🗝	19 C	LIA	AITS	ieve
Samples Samples enetrati tesistant ilows / F Inained S Strengtl	Drawing dated	engt	stur	7. V.	2		ssin SOS
Depth (Feet) Samples Penetration Resistance (Blows / F.L) Undrained Shea Strength (Kips / Ft ²)	October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
5		5		5 =	55	로드	Ž
	Very soft to soft olive gray clay						
	with shell fragments, and sand	l					
	seams, partings, and pockets	0.03	72		69	44	
		0.03	72		09	44	
- 5 -							
10							
10							
- 15 -							
13							
- 20			76				
20							
- 25 -							
	Notes:						
- 30 -	1) Depth is referenced to						
	penetration below seafloor.						
	2) Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.					1	
- 35 -	Undrained shear strengths						
	were obtained by miniature						
	vane tests performed on remolded samples.						
	remoraed samples.						
40	VEV						
1 C1	KEY						
Jar Sample							

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 117
Isles Derniers Stabilization Project

State Project 750-55-01

JQB NQ. 1087-1328 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 10 15 - with sand layer 17' to 17.5' 47 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis COMPLETION DEPTH: 20'

LOG OF BORING NO. 118
Isles Derniers Stabilization Project

ł	JOB	NC	10	87-13	Isles Derniers Stab State Project		roject					
	F	IEL	DATA		MATERIAL DESCRIPT			L	ABORAT	ORY DA	ATA	
					LOCATION: See Ocean Sur		Shear Ith : t ²)	ė 8€	Weight u F t)		RBERG	Sieve
	Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
I					Very soft to soft olive with shell fragments, seams, partings, and	and sand						
	- 5	-				Podkeds		88				
					91					,		=
	- 10	-										
	- 15											
	- 20											
	- 25											
	- 25											
	- 30				Notes: 1) Depth is reference penetration below 2) Cores were obtained	seafloor.						
	- 35				vibracoring method Ocean Surveys, Inc 3) Undrained shear st	s by						
	- 55				were obtained by mere tests perform remolded samples.	iniature						
L	40	Ш										
		ar	Samp	ole	KEY							
	* M	ec	hanid	cal Gr	rain Size Analysis							

** Hydrometer Analysis

LOG OF BORING NO. 119 Isles Derniers Stabilization Project State Project 750-55-01

5.5.5.5.5.7.	MATERIAL DESCRIPTION	T	LABORATORY DATA				
FIELD DATA	MATERIAL DESCRIPTION	, ATTERBERG					
Samples Samples Penetration Resistance: (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / F1 ²)	9 (g	Unit Dry Weight (Lbs / Cu Ft)	LIN	AITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Judrained Ske Strength (Kips / F.t ²)	October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	t Dry	Liquid Limit (%)	Plasticity Index (%)	Passi 200 (%)
Q Q G G S S		2 - Ş	Ž	<u> </u>	Lin J	P. P.	ž
	Very soft to soft olive gray clay		00				
 	with shell fragments, and sand seams, partings, and pockets		89				
- 5 -		-					
- 10 -							
			67		00	F 2	
- 15 -	*	0.10	67		83	53	
		-			_		_
- 20 -							
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 						
	vane tests performed on						
	remolded samples.						
40 41	KEY			-			
lar Sample							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 120 Isles Derniers Stabilization Project State Project 750-55-01

State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
s s libn cibn Eil Eil Shear th	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	9 %	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)	
Depth (Feet) Samples Penetration Resistance. (Blows / Et) ndrained She Strength (Kips / Ft²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry I	_ p€	icity	200 (%)	
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained She Strength (Kips / Ft ²)	2, 222	Jndra St (Kip	Con	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	۵. 2	
	Warren auf han auf hali							
	Very soft to soft olive gray clay with shell fragments, and sand							
	seams, partings, and pockets							
	seame, parerings, and pockeds							
- 5 -		-						
- 10 -								
						14		
	- with wood partings at 14.0'							
- 15 -	with wood partings at 11.0							
					_			
- 20 -								
- 25 -								
	Notes							
- 30 -	Notes: 1) Depth is referenced to							
	penetration below seafloor.							
	2) Cores were obtained using							
	vibracoring methods by Ocean Surveys, Inc.							
- 35 -	Undrained shear strengths							
	were obtained by miniature							
	<pre>vane tests performed on remolded samples.</pre>			İ				
 	55 Jan 2 1 1 1 1 1 1 2 1 2		1					
40 40	KEY							
Jar Sample								

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 121
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

	State Project 750-55-01				
	FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA		
	Samples Samples Penetration Resistance. (Blows / Ft) Undrained Shear	LOCATION: See Ocean Surveys, Inc Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid (Lbs / Cu Ft) Liquid (Lbs / Cu Ft) Plasticity Index (%) Passing No. 200 Sieve (%)		
	- 5 25 35 35	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets - with sand layer 13.5' to 14' Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	y 0.03 77 63 41		
ľ	40	KEY			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 122 Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01	Ct /5U-55-U1					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA L ATTERBERG			,		
s s inn inn inn inn inn inn inn inn inn	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	4 8°	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) ndrained She. Strength (Kips / Ft?)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Jry V		icity	188 in 200 S (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shea Strength (Kips / Ft²)	0000001 2, 1307	Indra St (Kip	Con	Unit ((Lbs	Liquid Limit (%)	Plasticity Index (%)	No. 2
	W. S.	٦				ш-	
	Very soft to soft olive gray clay with shell fragments, and sand						
	seams, partings, and pockets						
- 5 -							
- 10 -	·						
			74				
- 15 -							
- 20 -					1		
					1		
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to 						
	penetration below seafloor. 2) Cores were obtained using					l	
	vibracoring methods by						
	Ocean Surveys, Inc.		l				
- 35 -	 Undrained shear strengths were obtained by miniature 						
	vane tests performed on						
	remolded samples.						
40	454						
Jar Sample	KEY						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 123A Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

	State Project		·					
FIELD DATA	MATERIAL DESCRIPT	ION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Sur Drawing dated October 2, 19	.T.U 80	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity STAB	Passing No. 200 Sieve (%)
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d to seafloor. d using s by rengths iniature						
Jar Sample * Mechanical Gr	rain Size Analysis							1
** Hydrometer An		COMPLETI	ON DEPT	ГН: 2	20'			

LOG OF BORING NO. 123B Isles Derniers Stabilization Project State Project 750-55-01

State Project /50-55-01							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / Ft2)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	δ 6 5	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)
Samples Samples Penetration Resistance (Blows / F.1) Strength (Kips / F.2)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry C/C	. p.€	icity (%)	Passing . 200 Sie (%)
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Judrained She Strength (Kips / Ft2)	,	Jndra Si (Kip	Ş Ç	Lbs (Lbs	Liquid Limit (%)	Plasticity Index (%)	å.
	Very soft to soft olive gray clay with shell fragments and sand						
	seams, partings, and pockets						
 							
5							
- 10 -							
		30					
- 15 -	. 4						
- 20 -							
- 25 -							
- 30 -	Notes: 1) Depth is referenced to						
	penetration below seafloor.						
	 Cores were obtained using vibracoring methods by 						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40							
_	KEY						
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 124 Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01	T					
FIELD DATA	MATERIAL DESCRIPTION	ļ	L		ORY DA		
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	e €°	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / E.t) Indrained Shea Strength (Kips / Ft²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry V	_p €	icity (%)	assin 200 S (%)
Res Res Res X X X X X X X X X X X X X X X X X X X	2, 222,	Judra St (Kip	Con	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	₽.
	Very soft to soft olive gray clay						
	with shell fragments and sand						
	seams, partings, and pockets						
- 5 -							
- 10 -							
- 15 -	×						
				_	-		-
20							
- 20 -							
							ı
- 25 -							
	Notos						
- 30 -	Notes: 1) Depth is referenced to						
	penetration below seafloor.						
	 Cores were obtained using vibracoring methods by 						
	Ocean Surveys, Inc.		1				
- 35 -	Undrained shear strengths were obtained by miniature						
	vane tests performed on						
	remolded samples.						
40	KEY						
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 125 Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01	T		1505.			
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA	-	1
s ion ion F.I) Shear th	LOCATION: See Ocean Surveys, Inc.	Shear th	e €	Veight JFt)		RBERG	ieve
Samples Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
S G B S X		Lpd. X	_ 2ပိ	3	Lig	Plas	ž
	Very soft to soft olive gray clay with shell fragments, and sand						
	seams, partings, and pockets						8
- 5 -							
			77				
		8	77				
- 10 -							
- 15 -							
•		-		8			
- 20 -					-		_
05							
- 25 -							
	Notace						
- 30 -	Notes: 1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 						
	<pre>vane tests performed on remolded samples.</pre>						
40							
Jar Sample	KEY						
-							- 1

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 126 Isles Derniers Stabilization Project State Project 750-55-01

100, 10	State Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPTION	<u> </u>	L		TORY DA		
is in in in in in in in in in in in in in	LOCATION: See Ocean Surveys, Inc.	Shear th	9 (°	Unit Dry Weight (Lbs / Cu Ft)	LIA	RBERG MITS	D :-
Depth (Feet) Samples Penetration Resistance. (Blows / E.1) drained She Strength (Kips / Ft ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Dry I	be€	ticity × (%)	200 S
Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa S	*	Undra S (Kij	ŽÖ	Lbit (Lbs	Ligu	Plas	ů.
Depth (Feet) Dept	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	O Undrained Shear O Strength (Kips / Ft²)	₩ ₀	Unit C	Liquid (%)	Plasticity 14	Passing No. 200 Sieve
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Jar Sample	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 127 Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01							
FIELD DATA	MATERIAL DESCRIPTION		Unit Dry Weight (R. Inc.) Moisture Content (%) Unit Dry Weight (R. Inc.) Unit Dry Weight (R. Inc.) Unit Ory Weight (R. Inc.) Dassing Passing No. 200 Sieve					
Samples Samples Penetration Resistance Blows / F.1) Grained Shear Strength Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	drained Shear Strength Kips / F1 ²)	Moisture Content (%)	nit Dry Weight Lbs / Cu Ft)	LIM	1175	Passing o. 200 Sieve (%)	
- 10 - 15 20 25	Drawing dated October 2, 1987 Very soft to soft dark gray clay with shell fragments, and sand seams, partings, and pockets - olive gray below 1.5' Notes:		Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIM	1175	Passing No. 200 Sieve	
- 30 -	1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
Jar Sample	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 128
Isles Derniers Stabilization Project

1087-1328 JOB NO.

JOB NΩ. 1087-13	State Project	750-55-01	1							
FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORA	TORY DA				
eet) ss tion nce Ft) Shear ath	LOCATION: See Ocean Sur Drawing dated	veys, Inc.	Shear gth F ₁ 2)	9. (%	Weight u Ft)	LIM	RBERG	Sieve		
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	October 2, 19	87	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)		
	Very soft to soft olive with shell fragments, seams, partings, and	and sand								
- 5 -										
- 10 -										
- 15 -				67						
- 20 -			-		-			-		
- 25 -										
- 30 -	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method	seafloor. d using	1							
- 35 -	Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	rengths								
40										
Jar Sample	KEY									
* Mechanical Gr	rain Size Analysis									
** Hydrometer Ar	nalysis	COMPLETION DEPTH: 20'								

LOG OF BORING NO. 129
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

FIELD DATA	MATERIAL DESCRIPT		LABORATORY DATA					
	MATERIAL DESCRIPTION	1014	L			ATTE	RBERG	
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Of Index (%)	Passing No. 200 Sieve (%)
- 5 - 10 - 15 - 20 - 25 - 30 - 35 - 40	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d to seafloor. d using s by rengths iniature						
Jar Sample	KEY	-						
* Mechanical Grain Size Analysis								
** Hydrometer Ar	nalysis	COMPLETI	ON DEP	ГН: 2	20'			2

LOG OF BORING NO. 130 Isles Derniers Stabilization Project JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Undrained Shear LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Strength (Kips / F₁²) Depth (Feet) Moisture Content (%) Samples Drawing dated Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 75 5 10 76

Passing No. 200 Sieve (%)

Plasticity Index (%)

51

Notes:

- 1) Depth is referenced to penetration below seafloor.
- 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc.
- 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.

KEY

Jar Sample

- 15

20

25

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35

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- Mechanical Grain Size Analysis
- Hydrometer Analysis

LOG OF BORING NO. 131 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPT	and the record to be or the lateral property and the second	Τ	L	ABORAT	TORY DA	ATA	
			٤			ATTE	RBERG	
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur	veys, Inc.	Undrained Shear Strength (Kips / F1 ²)	a 60	Unit Dry Weight (Lbs / Cu Ft)	LIM	ITS	Passing No. 200 Sieve (%)
epth (Fe Samples enetrati tesistan tlows / F In ained S Strength	Drawing dated	07	ned :	stur ent (7.0		S. S.	ssin S (%)
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Jndrained She. Strength (Kips / Ft ²)	October 2, 19	0/	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	olt D	Liquid Limit (%)	Plasticity Index (%)	P. 2.
5			Š	J	5 =	ڙ ت	로드	Ž
	Very soft to soft olive	gray clay						
	with shell fragments,							
	seams, partings, and p	ockets						1
5								
- 10 -								
			1					
- 15 -								
			Γ					
- 20 -								
- 25 -								
	Notes:					1		
- 30 -	1) Depth is reference	d to						
	penetration below							
	2) Cores were obtaine							
	vibracoring method Ocean Surveys, Inc							
- 35 -	3) Undrained shear st					1		
	were obtained by m	iniature						
	vane tests perform	ed on						
	remolded samples.							
40								
40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 132 Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-UI	Υ					
FIELD DATA	MATERIAL DESCRIPTION		L	_	TORY DA	-	
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	ure t (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	RBERG	Passing No. 200 Sieve (%)
Samples Samples enetrati tesistant Slows / E Irained S Strength	October 2, 1987	raine Strer (ips /	Moisture Content (%)	it Dry	Liquid Limit (%)	Plasticity Index (%)	Passing . 200 Sie (%)
		D S	O	5 5	يّ ت	1 d -	ž
	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
	seams, parerings, and pockets						
- 5 -			68				
	·						
- 10 -			7				
	•						
75	<v< td=""><td></td><td></td><td></td><td></td><td></td><td></td></v<>						
- 15 -							
- 20 -							
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to 						
	penetration below seafloor. 2) Cores were obtained using			:			
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths were obtained by miniature						
	vane tests performed on				ĺ		
	remolded samples.						
40	KEY			1			
lan Cample	1						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 133
Isles Derniers Stabilization Project
State Project 750-55-01

200, 1	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L		ORY DA	-	
Samples Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	, <u>.</u>	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Samples Samples Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii Penetratii	Drawing dated	ength	sture ant (9	7. C. ₹	2	ž:	ssing SOSi
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Indrained She Strength (Kips / Ft²)	October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	nit D Lbs ,	Liquid Limit (%)	Plasticity Index (%)	Pa: 0. 20 (
		5	·	5 0	ات د	17.	z
	Very soft to soft olive gray clay						
	with shell fragments, and sand seams, partings, and pockets						
	seams, partings, and pockets						
- 5 -							
				a a			
- 10							
15 -							
		\vdash			_		-
20							
- 20 -							
- 25 -							
						1	
	Notes:						
- 30 -	1) Depth is referenced to	=					
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by					1	
	Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 						
	vane tests performed on						
	remolded samples.						
40 40	KEY	· · · · · · · · · · · · · · · · · · ·					
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 134
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project		r					
FIELD DATA	MATERIAL DESCRIPT	ION		L		TORY DA		
C C C C	LOCATION: See Ocean Sur	veys. Inc.	hear ;)	_	Unit Dry Weight (Lbs / Cu Ft)		RBERG	9
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	Drawing dated		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	C ×		2:3	Passing No. 200 Sieve (%)
epth (Fee Samples enetration lows / F Inained S Strength	October 2, 19	87	aine Strer ips/	Aoist	t Dry	1 gg	sticin	200 200 (%
2 (g g g g) F (X			rbd X	≥ ပိ	불월	Liquid Limit (%)	Plasticity Index (%)	ž.
	Very soft to soft olive	anay clay						
	with shell fragments,							
	seams, partings, and	Security Security States of the Security Securit	0.03	74		64	38	
	, ,							
- 5 -								
- 10 -								
				76				
				70				
- 15 -	¥6							
20 -						_		_
- 25 -			l				l	
							1	
	Notes:							
- 30 -	 Depth is reference 					1		
	penetration below 2) Cores were obtaine							
	vibracoring method							
	Ocean Surveys, Inc							
- 35 -	Undrained shear st	rengths						
	were obtained by m							
	<pre>vane tests perform remolded samples.</pre>	ea on					1	
	remoraed sampres.	1						
40								
	KEY	[2]			*			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 135
Isles Derniers Stabilization Project

State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
		re F		Ĭ.		RBERG	
Depth (Feet) Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / F1 ²)	Jre (%	Unit Dry Weight (Lbs / Cu Ft)			Passing No. 200 Sieve (%)
Samples Samples enetration lows / For Strength	October 2, 1987	raine Stren	Moisture Content (%)	t Dry	Liquid Limit (%)	Plasticity Index (%)	Passing . 200 Sie (%)
Q Q Q B P S	,	L dr	~ິບ	<u> </u>	i i i	P -	ž
	Very soft to soft olive gray clay						
	with shell fragments, and sand						
	seams, partings, and pockets						
- 5 -							
- 10 -							
- 15 -							
- 20 -							
- 25 -							
					1		
	Notes:				l		
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.					1	
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40							
_	KEY						
Jar Sample	1						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 136 Isles Derniers Stabilization Project JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) Undrained Shear LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Strength (Kips / Ft²) Moisture Content (%) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 10 72 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

LOG OF BORING NO. 137
Isles Derniers Stabilization Project
State Project 750-55-01

		ICI) D. T.		MATERIAL DESCRIPT		T	1	AROPA	TORY DA	Δ T Δ	
-		ICL	DATA		MATERIAL DESCRIPT	1014	1.			-	RBERG	T
	()		E 4.3	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / F1 ²)	. <u> </u>	Unit Dry Weight (Lbs / Cu Ft)		MITS	Passing No. 200 Sieve (%)
ł	Depth (Feet)	ples	Penetration Resistance (Blows / Ft)	ed S ength	Drawing dated	0.7	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	₹ 0			sing (%
1	epth	Samples	enet	rain Stre Kips	October 2, 19	87	Irain Stre Kips	Mois	it Dr	Liquid Limit (%)	Plasticity Index (%)	P. 20
	۱۵۱		0.00	P ÷			D S	O	5 5	ا يَ يَـ	2 -	ž
H		+			Very soft to soft olive	gray clay			-			
		7			with shell fragments,							
					seams, partings, and	pockets						
		4										
	- 5	+						5				
		-										
		4										
	- 10	4										
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		$\exists 1$										
		11										
	- 25]										
	23	41	- 1	1					(1)			
1		41						-				
		$\exists 1$			Notas							
	- 20]			Notes: 1) Depth is reference	d to				1		
	- 30				penetration below							1
		41		- 1	Cores were obtained	d using						
		41			vibracoring method							
		+		1	Ocean Surveys, Inc							
	- 35				 Undrained shear st were obtained by m 							
		41			vane tests perform							
1		$\exists 1$			remolded samples.							
1		+										
	- 40				KEY				1			
1			_	_		l .						8

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO.138
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project							
FIELD DATA	MATERIAL DESCRIPT	ION			ABORAT	ORY DA		
Samples Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plast	Passing No. 200 Sieve (%)
- 10 -	Very soft to soft olive with shell fragments, seams, partings, and	and sand						
- 30 - - 35 - - 40	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by m vane tests perform remolded samples.	seafloor. d using s by rengths iniature						
Jar Sample * Mechanical Gr	rain Size Analysis							
** Hydrometer Ar	nalysis	COMPLETI	ON DEPI	Γ Η: 2	0'			

JOB NO. 1087-1328

LOG OF BORING NO. 139
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project							
FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORA	TORY DA	-	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / F1 ²)	رچ (چ)	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Judrained Sher Strength (Kips / Ft²)	Drawing dated October 2, 19		ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Init Dry Weigh (Lbs / Cu Ft)	_p 🚱	Plasticity Index (%)	200 S
Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa S	,		Jndra St (Kip	Z O	Lbs	Liquid Limit (%)	Plast	٠ . 2
$H \rightarrow H \rightarrow f$	Very soft to soft olive	anay clay				_		
	with shell fragments,							
	seams, partings, and			96				
5 -								
- 10 -								
	У							
- 15 -	ē							
		-	- +			-		
- 20 -								
- 25 -								
	N. A.							
- 30 -	Notes: 1) Depth is reference	d to						
	penetration below	seafloor.		ļ			l	
	Cores were obtained vibracoring method							
	Ocean Surveys, Inc	.						
- 35 -	 Undrained shear st were obtained by m 							
	vane tests perform							
	remolded samples.							
40	KEY							
	NL I							-

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 140
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	CATION: See Ocean Sur Drawing dated October 2, 19	-	Undrained Shear Strength (Kips / F1 ²)	ture nt (%)	Weight u F t)		RBERG	eve
Samples Samples Penetratic Resistanc (Blows / F. Undrained S Strength (Kips / Ft	Drawing dated October 2, 19	-	ined S trength	ture 1 (4	₹ 5			
			Undra S (Ki	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
w	ry soft to soft olive with shell fragments, seams, partings, and	and sand		77				
Dar	rk gray silty fine sa lay pockets and shel							
- 20 - - 25 - - 30 - 2	tes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	d to seafloor. d using s by rengths iniature						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 141
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

	State Project		T		10001		Ţ.	
FIELD DATA	MATERIAL DESCRIPT	ION		L		ORY DA	RBERG	
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19	3	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity ST	Passing No. 200 Sieve (%)
- 10 -	Very soft to soft dark with shell fragments, seams, partings, and period of the control of the c	and sand	0.07	77		97	64	
- 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	seafloor. d using s by rengths iniature						
Jar Sample	rain Size Analysis							
** Hydrometer A	nalysis	COMPLETI	ON DEP	TH:]	17'			

LOG OF BORING NO. 142 Isles Derniers Stabilization Project

JOB NO. 1087-1328

State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D		,
Depth (Feet) Samples Penetration Resistance. (Blows / Et) ndrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	ture 1 (%)	Unit Dry Weight (Lbs / Cu Ft)	LIF	RBERG MITS ≥⊋	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shea	October 2, 1987	Undrained She Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dr (Lbs /	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Si (%)
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 15 - - 20 - - 25 -	Olive gray clayey silt with shell fragments						94**
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
	INC I						1

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

LOG OF BORING NO. 143
Isles Derniers Stabilization Project

State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
	S 0 5	ra'		Ĕ.		RBERG	u
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) Undrained Shear Strength (Kips / F.1.)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity (%)	Passing No. 200 Sieve (%)
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		58				

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 144
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project	tate Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPT	ION	LABORATORY DATA			,		
Depth (Feet) Samples Penetration Resistance (Blows / Fil) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Sur	veys, Inc.	Undrained Shear Strength (Kips / F1 ²)	9. (%)	Unit Dry Weight (Lbs / Cu Ft)		RBERG IITS	Passing No. 200 Sieve (%)
Depth (Feer) Samples Penetration Resistance (Blows / F.I.) Indrained She Strength (Kips / F. ²)	Drawing dated October 2, 19	87	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry I	hid (%)	Plasticity Index (%)	200 S
Rei Blo	~		Undra S (Ki	S o	L. G.	Liquid Limit (%)	Plas	Š.
	Very soft to soft olive							
	with shell fragments, seams, partings, and	Secondary and the second second						
	seams, partings, and	POCKECS						
- 5 -								
	- with wood fragments	at 6'		57				
- 10 -								
- 15 -	ie.							
- 20 -								
- 25 -	9							
	Notes:							
- 30 -	 Depth is reference 					l		
	penetration below 2) Cores were obtaine	d using						
	vibracoring method Ocean Surveys, Inc							
- 35 -	Undrained shear st	rengths						
	were obtained by m vane tests perform							
	remolded samples.							
40	KEY							
	15-1							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 145
Isles Derniers Stabilization Project

State Project 750-55-01

	State Froject	730-33-01						
FIELD DATA	MATERIAL DESCRIPTI	ON		L	ABORAT	ORY DA	TA	
on in shear	LOCATION: See Ocean Sur	veys, Inc.	Undrained Shear Strength (Kips / Ft ²)	. 3	Unit Dry Weight (Lbs / Cu Ft)		RBERG	eve
Samples Samples enetrati tesistanc ilows / F Irained S Strength	Drawing dated	0.7	engt	sture	. Y . \	.	Sity	Passing . 200 Sie (%)
Depth (Feet) Samples Penetration Resistance. (Blows / E.I.) Undrained Shea Strength (Kips / Ft²)	October 2, 19	87	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	nit D Lbs ,	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
5			5		ח	7 .5	م ت	Z
	Very soft to soft olive							
	with shell fragments, seams, partings, and p							
	seams, partings, and p	JUCKEUS						
5 -								
- 10 +		İ		67				
		I						
- 15 -	Olive gray sandy silt, s							
	clayey with shell frag	ments						
		·	- +			-		
		ŀ						
- 20 -								
						1		
- 25 -								
				1				
	Notes:							
- 30 -	 Depth is reference penetration below 	d to		1		1	İ	
	Cores were obtained	d using						
	vibracoring method							
- 35 -	Ocean Surveys, Inc 3) Undrained shear st			Ì				
	were obtained by m	iniature						
	<pre>vane tests perform remolded samples.</pre>	ed on						
	remoraeu sampres.							
40	KEY							
	-x= 1							

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 146
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

EUGL D DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION					RBERG	
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)		Unit Dry Weight (Lbs / Cu Ft)	LIA	AITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / Et) Indrained She Strength (Kips / Ft ²)	Drawing dated	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	¥ 3			Sing Sing
Samples Samples enetrati Resistant Slows / B Irained S Strengt	October 2, 1987	rain Stre (ips	Mois	it Dr	Liquid Limit (%)	Plasticity Index (%)	Pas (9)
9 () 9 8 B B		L C	_0	들글	ا ي ت	PI®	ž
	Very soft to soft olive gray clay						
	with shell fragments, and sand						
	seams, partings and pockets						
- 5 -							
- 10 -							
- 15 -	36						
					-		
- 20 -							
- 25 -							
	Notes:					-	
- 30 -	1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using			6). (9
	vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature						
	<pre>vane tests performed on remolded samples.</pre>						
	remotada sampitos						
40 41	VEV						
1	KEY						
Jar Sample	i						

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 147
Isles Derniers Stabilization Project

State Project 750-55-01

	State Froject	730-33-01						
FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORA"	ORY DA	ATA	
i i i i i i i i i i i i i i i i i i i	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / F1 ²)	0 € 0	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Samples Samples enetrati enesistanc ilows / F	Drawing dated October 2, 19		ned engt	stur ent (/ Cu		.÷€	\$\$ in S
Samples Samples Penetration Resistance (Blows / F.1) Undrained Shea Strength (Kips / Ft²)	october 2, 19	67	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Init D	Liquid Limit (%)	Plasticity Index (%)	P. 2.
حًا ا			Ď		3	75	α =	
	Very soft to soft olive with shell fragments,							
	seams, partings, and							
	, , , , ,							
5 🖣				75				
				, •				
- 10 -								
	•							
	Olive gray sandy silt,	slightly						
- 15 -	<pre>clayey, with shell fra - with clay layers 13</pre>	gments						
	15.5' to 16', 16.5'	to 17',						
	<u>and 17.5' to 18'</u>	- :	- +			-		
- 20 -								
						- 1	1	
						1	1	
		I				1	1	
- 25 -		I						
		İ					l	
	W.							
- 30 -	Notes: 1) Depth is reference	d to						
	penetration below	seafloor.						
	Cores were obtaine vibracoring method							
	Ocean Surveys, Inc							
- 35 -	3) Undrained shear st							
	were obtained by m vane tests perform							
	remolded samples.	necessors satisficants						
40								
40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 148
Isles Derniers Stabilization Project

State Project 750-55-01

MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG LIMITS Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) Indrained Shear LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / Ft) Strength (Kips / Ft²) Moisture Content (%) Depth (Feet Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 0.04 87 101 62 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 149
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project							
FIELD DATA	MATERIAL DESCRIPT	ION			ABORA	ORY DA	-	
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / F1 ²)	.e (%)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
epth (Fe Samples enetrati tesistant Slows / F Inained S Strength	Drawing dated October 2, 19	87	ned reng	stur) C	- F	city (%)	188 ir (%)
Depth (Feet) Samples Penetration Resistance. (Blows / E.t) drained She Strength (Kips / Ft ²)	0000DE1 2, 13	07	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	nit (Liquid Limit (%)	Plasticity Index (%)	P.e
			Ď		5 -	בר	4	2
	Very soft to soft olive	gray clay						
	with shell fragments, seams, partings, and	and sand						
	seams, partings, and	hockers						
- 5 -								
- 10 -								
			1				1	
- 15 -								
	-	// // // // // // // // // // // // //						
							I	
- 20 -								
							1	
- 25 -							İ	
	Notaci							1
- 30 -	Notes: 1) Depth is reference	d to	-					
30	penetration below	seafloor.						
	2) Cores were obtaine							
	vibracoring method Ocean Surveys, Inc					1	1	
- 35 -	3) Undrained shear st			1				
	were obtained by m	iniature		ļ		1		
	<pre>vane tests perform remolded samples.</pre>	ed on						
	remotued samples.	1				1		
40 41	VEV							
lan Cample	KEY							
Jar Sample								
* Mechanical Gr	rain Size Analysis							
Access to the second code.	200							
** Hydrometer A	naiysis	COMPLET	ON DED	ru. 1	5 5 1			
		COMPLETI	UN DEP	ın:				

JOB NO. 1087-1328

LOG OF BORING NO. 150 Isles Derniers Stabilization Project State Project 750-55-01

EIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION	-				RBERG	
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SIII	Passing No. 200 Sieve (第)
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	0.04	69		66	41	-
- 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
lan Cample	KEY			*			

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 151 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

	State Project /50-55-01	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION				-	RBERG	
s stion tion cee. Ft) Shear lift ith	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	ē €.	Unit Dry Weight (Lbs / Cu Ft)		IITS	Passing No. 200 Sieve (%)
Samples Samples Resistance (Blows / Fill Strength (Kips / Fil)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry	. p.€	icity	Passing . 200 Sid (%)
Samples Samples Penetration Resistance (Blows / F.1) Undrained She, Strength (Kips / Ft ²)	• • • • • • • • • • • • • • • • • • • •	Indra S (Kip	Ş. Ç.	Lbit (Lbs	Liquid Limit (%)	Plasticity Index (%)	ª. Ž
	Variable of the second						
	Very soft to soft olive gray clay with shell fragments, and sand						
	seams, partings, and pockets						
	, , , , , , , , , , , , , , , , , , , ,						
- 5 -	9						
					1		
- 10 -							
			70				
			79				
- 15 -							
- 20 -							
- 25 -							
							ı
	Notes:						
30	 Depth is referenced to penetration below seafloor. 						
	2) Cores were obtained using				- 1		
	vibracoring methods by						
	Ocean Surveys, Inc. 3) Undrained shear strengths						
- 35 -	were obtained by miniature		88				
	vane tests performed on						
	remolded samples.						
40						1	
_	KEY					-	
🖁 Jar Sample	SI.						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 152 Isles Derniers Stabilization Project State Project 750-55-01

-					State Project /50-55-01	LABORATORY DATA					
-	F	IEL	D DATA	Ϊ.	MATERIAL DESCRIPTION	+	<u> </u>		-	RBERG	
	5		2 43	hear 2)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)		Unit Dry Weight (Lbs / Cu Ft)	LIM	AITS	Passing No. 200 Sieve (%)
	Depth (Feet)	les	Penetration Resistance (Blows / Ft)	Undrained Shea Strength (Kips / Ft ²)	Drawing dated	ndrained She Strength (Kips / F ₁ ²)	Moisture Content (%)	Cur	_	7.3	sing Sie
I	t d	Samples	sisi	aine Stre ips/	October 2, 1987	aine Stre ips /	Aoisi	t Dr	p 50	stici ex (9	200 200 (%
I	å	("	2 4 10	P X		L Page	20	5 3	Liquid Limit (%)	Plasticity Index (%)	ž
-	+	+			Very soft to soft olive gray clay						
		\dashv			with shell fragments, and sand						
ı		\dashv			seams, partings, and pockets	1	74				
ı					, paramaga, and paramaga	1					
ı	- 5	4									
ı		\dashv									13
1		+									
1											
I	- 10										
1	10	4								-	
		\dashv									
ı											
ı	- 15										
	13								1 10 1		
		\dashv								ĺ	
	ļ										
ı	20	71									
	- 20	11				\vdash					_
l		41									
	-	\dashv									
	0.5	11									
	- 25										
	-	\dashv	.								
	-	$\exists 1$			Notes:					-	
	- 30				 Depth is referenced to penetration below seafloor. 						
1		$\exists 1$			2) Cores were obtained using						i
		\dashv			vibracoring methods by						
	-	\dashv	1		Ocean Surveys, Inc.						
	- 35	4			3) Undrained shear strengths						
					were obtained by miniature vane tests performed on						
		4			remolded samples.						
	-	+			constitution and to the deal of the transfer			l			
-	- 40	Ш			KEY						
		la n	Ç 5 m.	10	NE I						
•	-	ar	Samp	ıe							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 153
Isles Derniers Stabilization Project
State Project 750-55-01

100, 10	State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	ORY DA			
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Et ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	رم. (م.)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Indrained She Strength (Kips / Ft ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry s/C	jā Se	Plasticity Index (%)	200 (%)	
Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa S	•	Undr.	Ž o	L _b ic	Liquid Limit (%)	Plas	ž.	
	Very soft to soft olive gray clay							
	with shell fragments, and sand seams, partings, and pockets							
	seams, parerings, and pookeds							
- 5 -								
- 10 -	- with sand layer 13.5' to 14'							
			55					
			33					
- 15 -								
20					_			
- 25 -								
	Notes:							
- 30 -	 Depth is referenced to 							
	penetration below seafloor. 2) Cores were obtained using					1		
	vibracoring methods by Ocean Surveys, Inc.							
- 35 -	Undrained shear strengths							
	were obtained by miniature vane tests performed on							
	remolded samples.							
40								
Jar Sample	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 154
Isles Derniers Stabilization Project
State Project 750-55-01

EJELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION	ATTERBERG					
Samples Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / F t ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SIII	Passing No. 200 Sieve (%)
- 5 20 25 30 35 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	0.06	72		70	45	
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 155
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project 750-55-01	-01					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
s silion dion Green Fill Shear th	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	9 (°)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Indrained She. Strength (Kips / F.t ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Init Dry Weigh (Lbs / Cu Ft)		Plasticity Index (%)	200 S
Samples Samples Penetration Resistance (Blows / Et) Undrained Shear Strength (Kips / Et2)		Undra S (Ki	ŠÖ	الج الج	Liquid Limit (%)	Plas Inde	Š.
	Very soft to soft olive gray clay						
	with shell fragments, and sand seams, partings, and pockets.						
- 5 -		i n					
- 10 -							
- 15 -	я						
			67				
		- +			1		_
- 20 -							
- 25 -							ı
						-	
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using vibracoring methods by	Ì					
	Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 				*		
	vane tests performed on remolded samples.						
40							
Jar Sample	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 156 Isles Derniers Stabilization Project

State Project 750-55-01

	State Project 750-55-01	- - - - - - - - - -					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
in in in in in in in in in in in in in i	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	±€°	Unit Dry Weight (Lbs / Cu Ft)		RBERG	9 9 9
Samples Samples Penetration Resistance (Blows / E.t) Adrained She Strength (Kips / F.t2)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Jry W		city	888 in (%)
Samples Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft²)	0000E1 2, 1307	Indrai St (Kip	Cont	Unit [Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
		٦				<u> </u>	
	Very soft to soft olive gray clay with shell fragments and sand						
	seams						
- 5 -							
- 10 -							
- 15 -						1	
					_		
- 20 -							
						1	
						1	
- 25 -							
					ł		
	Notes:						
- 30 -	1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using				İ		
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
	•						
40	KEY			•			
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 157 Isles Derniers Stabilization Project

JOB NO. 1087-1328

State Project 750-55-01

EIGID DATA	MATERIAL DESCRIPTION	T		AROBA	TORY	A T A	
FIELD DATA	MATERIAL DESCRIPTION	+			TORY DA	RBERG	ı
Depth (Feet) Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / F1 ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Signature (%)	Passing No. 200 Sieve (%)
ع المقالة ع		P ÷	U	돌긛	ا ي ت	<u> </u>	ž
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		59				
_	KEY						
Jar Sample							
* Mechanical Gr	rain Size Analysis	Z_{α}					

COMPLETION DEPTH: 18.5'

Hydrometer Analysis

LOG OF BORING NO. 158
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

FIELD DATA	MATERIAL DESCRIPTION	ON	LABORATORY DATA					
C Later C	LOCATION: See Ocean Surv	evs. Inc.	near (_	fe :		RBERG	e .
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 198	7	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
- 5 -	Very soft to soft olive with shell fragments, seams, partings, and p	and sand						
- 15 -								
- 20 -			-					_
- 30 - - 35 -	Notes: 1) Depth is referenced penetration below s 2) Cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear str were obtained by mi vane tests performe remolded samples.	eafloor. using by engths niature						
40 40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 159
Isles Derniers Stabilization Project

State Project 750-55-01 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 160 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / Ft) Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay 0.02 77 57 33 with shell fragments, and sand seams, partings, and pockets 5 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis

LOG OF BORING NO. 161 Isles Derniers Stabilization Project State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
ess ution moce / F.t.) 1 Shear gth F.t.2)	LOCATION: See Ocean Surveys, Inc. Drawing dated	l Shear gth F1 ²)	ارة (ع)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Sieve
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Init Dry (Lbs / C	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
خ ا	Very soft to soft olive gray clay	j		3	75	a =	2
	with shell fragments, and sand seams, partings, and pockets		55				
- 5 -							
- 10 -							
							ų.
- 15 -							
- 20 -							
- 25 -							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor.						
	2) Cores were obtained using vibracoring methods by						
- 35 -	Ocean Surveys, Inc. 3) Undrained shear strengths						
	were obtained by miniature vane tests performed on						
40	remolded samples.						
Jar Sample	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 163 Isles Derniers Stabilization Project State Project 750-55-01

F1515 5 : 7 :	State Project /50-55-01	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION	<u> </u>			-	RBERG	Т
Samples Samples Penetration Resistance (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft ²)	Ure t (%)	Unit Dry Weight (Lbs / Cu Ft)	LIM	NITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) Indrained She Strength (Kips / F. ²)	October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	nit Dry Lbs / (Liquid Limit (%)	Plasticity Index (%)	Passing o. 200 Si (%)
5 5		5		5 0	75	<u> </u>	Z
	Very soft to soft olive gray clay						104
	Olive gray fine sand with shell						12*
	Very soft to soft olive gray clay						
5 -	with shell fragments, and sand						
	seams, partings, and pockets		73				
			, 0				
- 10 -							
- 15 -	·						
				-			
- 20 -					_		
	4						
- 25 -		İ			1		
	Notes:						
- 30 -	1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by					İ	
- 35 -	Ocean Surveys, Inc. 3) Undrained shear strengths						
	were obtained by miniature						
	<pre>vane tests performed on remolded samples.</pre>						
40							
40	KEY					•	
Jar Sample							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 164
Isles Derniers Stabilization Project
State Project 750-55-01

Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plast	Passing No. 200 Sieve (%)
Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIA	AITS	assing 200 Sieve (%)
Streng (Kips / F	Moistur Content (Unit Dry 1 (Lbs / CL	Liquid Limit (%)	Plasticity ndex (%)	200 S
				u -	ž
					74**
			-		6*
.06	59		66	43	
-	06	06 59	06 59	06 59 66	06 59 66 43

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 165
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01	т					
FIELD DATA	MATERIAL DESCRIPTION		L		ORY DA		
Depth (Feet) Samples Penetration Resistance, (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft²)	9. (%)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Judrained She Strength (Kips / Ft²)	October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	It Dry bs / C	Liquid Limit (%)	Plasticity Index (%)	Passi . 200 (%)
a la garage		S Chd	-0	3 3	Liq	PIa Ind	ž
	Very soft to soft olive gray clay with shell fragments, and sand						
	seams, partings, and pockets						
- 5 -							
- 10 -			62	æ			
- 15 -							
					_		
- 20 -							
- 25 -							
25				1			
			İ				
- 30 -	Notes: 1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using						ı
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40 40	KEY						
lan Cample							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 166
Isles Derniers Stabilization Project
State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	T	L	ABORA	ORY DA	ATA	
		۲.				RBERG	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity SI	Passing No. 200 Sieve (%)
	Very soft to soft olive gray clay with shell fragments and sand seams						
- 5 -	Olive gray fine sand with shell fragments						6*
	Olive gray sandy silt with clay pockets						78**
- 10 -							ž.
- 15 -							
- 20 -		_			-		
- 25 -							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature						
40	vane tests performed on remolded samples.						
Jar Sample							

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 167
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / F.t) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with sand seams Olive gray silty sand with shell 14* fragments Very soft to soft olive gray clay 5 with shell fragments, and sand seams, partings, and pockets 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 168
Isles Derniers Stabilization Project
State Project 750-55-01

	- Total			State Project	/50-55-01						
	FIEL	D DATA		MATERIAL DESCRIPT	ION		L	ABORA	TORY DA		
(E)		ion Ce. Ft)	Shear h t ²)	LOCATION: See Ocean Sur		Shear h 1 ²)	υ <mark>έ</mark> δ	reight		RBERG	e ve
Depth (Feet)	Samples	Penetration Resistance. (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 19		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	\overline{A}		5			5		50	75	۵ ـ	Z
				Olive gray silty clay w fragments and sand se		0.02	65		39	19	
	-			Olive gray silty fine sa with clay pockets and							9*
	5 -			fragments							34**
											13*
- 10	2										
											2*
- 19	5 -			· e							
								el .	2		
20	\exists				-						
- 20											
- 25	5 -										
	ᅦ										
- 30				Notes: 1) Depth is reference							
				penetration below 2) Cores were obtaine vibracoring method	d using						
- 3!				Ocean Surveys, Inc 3) Undrained shear st	•						
				were obtained by m vane tests perform	iniature						
				remolded samples.							
40) 11			KEY			<u> </u>				

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 169
Isles Derniers Stabilization Project
State Project 750-55-01

Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remoiled samples.	2007	State Project /50-55-01			-			
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained by vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	a byanesyren Fig.	52459567 G	
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracorring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	s Signa Shear (t)	LOCATION: See Ocean Surveys, Inc.	Shear th	9 6 9	Veight JFt)		AITS	geve
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracorring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	ample ample sistar was / sistar was / sinced treng treng treng treng ps / F	October 2, 1987	ined treng	oistur Itent	Dry I	p (%	icity	200 S
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracorring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	Dep Se Res (Bloom S (Kirk)		Undra Si (Kig	χ̈́ο	(Lbs	Liqui	Plast	٠ . و
with shell fragments, and sand seams, partings, and pockets 48 -10 - -20 - -25 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						_		
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		with shell fragments, and sand						
Notes: -30 - 15 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		seams, partings, and pockets						
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 5 -							
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.				10				
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 10 -			40				
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		·						
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 15							
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 20 -		_ +			-		-
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						İ		
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 25 -						1	
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		Notes:						
2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples. KEY	- 30 -	 Depth is referenced to 						
Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		2) Cores were obtained using						
3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								
vane tests performed on remolded samples.	- 35 -	Undrained shear strengths						
remolded samples.								
KEY								
KEY	40							
		KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 170
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01	00-01					
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA	ATA	
er) on critical shear	LOCATION: See Ocean Surveys, Inc.	shear ر 2)	(9	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Samples Samples entration enetration for sistence for sis	Drawing dated	engt	sture ant (°	₹ 7 \	- G	<u>\$</u>	ssing 30 Si
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained She Strength (Kips / Ft²)	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	nit D Lbs ,	Liquid Limit (%)	Plasticity Index (%)	Pa: 0. 20
	¥	5		50	ت ا	<u> </u>	Z
	Olive gray fine sand with shell						1*
	fragments						
	- clay layer at 4'						
- 5 -							
	Very soft to soft olive gray clay						
	with shell fragments, and sand seams, partings, and pockets						
- 10 -	seams, partings, and pockets						
		1					
- 15 -	ř						
 		1					
- 20 -							
	,						
				3			
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to 				1		
	penetration below seafloor.						
	 Cores were obtained using vibracoring methods by 						
	Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 						
	vane tests performed on					1	
	remolded samples.						
40							
	KEY			•			
Jar Sample							

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO.171
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA	
Depth (Feet) Samples Penetration Resistance (Blows / F.t.)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve
	Olive gray silty fine sand with clay pockets and shell fragments	5					22**
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets	0.03	58		69	43	
- 15 - - 20 - - 25 - - 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on						3* 75**
40	remolded samples.						

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 172
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project	/50-55-01						
FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORA	TORY DA		
Depth (Feet) Samples Penetration Resistance (Blows / E.I) Judrained Shear Strength (Kips / F. ²)	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / F1 ²)	9. (%)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Samples Samples Penetration Resistance (Blows / F.I.) Indrained She Strength (Kips / F. ²)	Drawing dated October 2, 19		ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Dry I	Pg€	Plasticity Index (%)	200 S
Der C S S S S S S S S S S S S S S S S S S	**************************************		Chdr. S.	∑ ō	الة ق	Liquid Limit (%)	Plas	Š.
	Olive gray silty fine s							
	slightly clayey, with	organics		55				57**
								4*
5	Very soft to soft olive with shell fragments,	gray clay						
	seams, partings, and	pockets		52				
- 10 -								
		-						
- 15 -	355							
		a g						
- 20 -		-	_		×	_		
						ł		
- 25 -								
	Notes:							
- 30 -	 Depth is reference penetration below 							
	Cores were obtaine vibracoring method	d using						
	Ocean Surveys, Inc							
- 35 -	 Undrained shear st were obtained by m 							
	<pre>vane tests perform remolded samples.</pre>							
	. cmo raca samp res							
40	KEY				!			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 173
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L		TORY DA		
Depth (Feet) Samples Fenetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve (%)
- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Jar Sample							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO.174
Isles Derniers Stabilization Project
State Project 750-55-01

	JUE	2 1/17	۷. ا	00/-13	State Project	750-55-01						
	F	IEL	DATA		MATERIAL DESCRIPTI	ON		L	ABORA	ORY DA	ATA	
	Depth (Feet)	Samples	Penetration Resistance. (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surv Drawing dated October 2, 198		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Index (%)	Passing No. 200 Sieve (%)
ľ					Olive gray silty fine sa clay pockets	and with						7*
	- 5				Very soft to soft olive with shell fragments, seams, partings, and p	and sand		55				
	- 15 - 20											
	- 30				Notes: 1) Depth is referenced penetration below selected penetration below selected penetration below selected penetration methods of the selected penetrology of the sele	seafloor. d using s by rengths iniature						
	- 40	<u> </u>			KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 175-A

Isles Derniers Stabilization Project
State Project 750-55-01

FIELD DATA

MATERIAL DESCRIPTION

Location:

Drawing dated
October 2, 1987

	State Project /50-55-01	-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA	-01170-01-02-00	·	
s s libn Cee Fit) Shear	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	9 6 9	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)	
Depth (Feet) Samples Penetration Resistance (Blows / F.t.) Undrained Shea	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Dry I	. p. 60	icity (()	200 S	
Ble Ble	<u> </u>	Undra S (Ki	Σ̈́ο	F. F.	Liquid Limit (%)	Plasticity Index (%)	å.	
	Very soft to soft olive gray clay			 				
	with shell fragments, and sand seams, partings, and pockets							
	seams, partings, and pockets							
- 5 -								
- 10 -		L _			_			
- 15 -								
	×							
- 20 -								
- 25 -			-					
					1			
20	Notes: 1) Depth is referenced to							
- 30 -	penetration below seafloor.				ļ		- 5	
	Cores were obtained using vibracoring methods by							
	Ocean Surveys, Inc.							
- 35 -	Undrained shear strengths were obtained by miniature							
	vane tests performed on remolded samples.					İ		
	remoraca sampres.					į		
40 40	KEY							

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

LOG OF BORING NO. 175-B Isles Derniers Stabilization Project State Project 750-55-01

_	State Project /50-55-01											
	F	IEL	D DATA		MATERIAL DESCRIPT	ION	LABORATORY DATA				-	
	Depth (Feet)	Samples	Penetration Resistance. (Blows / F.t)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plast	Passing No. 200 Sieve
	- 5				Olive gray and dark gray silt with clay pocket	S						4* 67**
	- 10				Very soft to soft olive with shell fragments, seams, partings, and p	and sand						
	- 25				Notes: 1) Depth is referenced penetration below 2) Cores were obtained vibracoring method Ocean Surveys, Inc. 3) Undrained shear st were obtained by mixane tests perform remolded samples.	seafloor. d using s by rengths iniature						
	1 .1	2 r	Samr	vlo.	KEY				20408			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 176
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 LABORATORY DATA FIELD DATA MATERIAL DESCRIPTION ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Indrained Shear LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Strength (Kips / Ft²) Moisture Content (%) Samples Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray silty fine sand with 3* clay pockets and organics 60** Very soft to soft olive gray clay with sand seams, partings, 5 and pockets 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 177
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPT	ION	LABORATORY DATA			,		
s signal	LOCATION: See Ocean Sur		Shear h t ²)	9 2 0	(eight Ft)		RBERG	D :-
Depth (Feet) Samples Penetration Resistance (Blows / E.I) Undrained She Strength (Kips / Ft²)	Drawing dated October 2, 19	87	Undrained Shea Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Very soft to soft olive with shell fragments seams - with sand layer to	and sand	0.03	73		63	42	2*
- 5 -	Olive gray fine sand with fragments	th shell						7*
- 10 -								5*
- 15 -	Very soft to soft olive with shell fragments a seams, partings, and p	and sand	-		e e			
- 25 -								
- 30 -	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	seafloor. d using s by rengths iniature						
40 40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 178
Isles Derniers Stabilization Project

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State Project /50-55-01										
FIELD DATA	MATERIAL DESCRIPTION	1	L		TORY DA					
Depth (Feet) Samples Penetration Resistance. Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft.2)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	e €°	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)			
Depth (Feet) Samples Penetration Resistance (Blows / F.t.) Indrained She Strength	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry C	p (%	icity	200 S			
Dep Se Res		Judra S (Kip	χο̈́	Lhit (Lbs	Liquid Limit (%)	Plasticity Index (%)	å.			
H H I	Very soft to soft olive gray clay	1					3*			
	with shell fragments, and sand									
	seams, partings, and pockets - with sand layer to 1'									
- 5 -	- with said layer to 1		59							
		0.05	67		66	35				
10		0.03	0,		00	33				
	,									
- 15 -										
				33						
		T 7								
- 20 -										
- 25 -										
	*									
	Notes:									
- 30 -	 Depth is referenced to penetration below seafloor. 						=			
	Cores were obtained using									
	vibracoring methods by Ocean Surveys, Inc.									
- 35 -	Undrained shear strengths									
	were obtained by miniature vane tests performed on		1				I			
	remolded samples.									
40										
	KEY									

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 179
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION FIELD DATA LABORATORY DATA ATTERBERG LIMITS Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Penetration Resistance (Blows / F.t) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray and dark gray silty fine sand with clay pockets and shell fragments 1* 5 4* 56** 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. KEY

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 180
Isles Derniers Stabilization Project
State Project 750-55-01

State Project /50-55-UI										
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	ORY DA	100.00				
es milion mice. (Fit)	LOCATION: See Ocean Surveys, Inc. Drawing dated	l Shear gth F (²)	ē.€,	Weight UFt)		RBERG	Sieve			
Depth (Feet) Samples Penetration Resistance. (Blows / Fill	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)			
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets - with a sand layer 4' to 5'						4*			
- 20 -	Olive gray silty fine sand, slightly clayey with shell fragments						60 <u>**</u>			
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
lar Sample	KEY		-							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 181
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01											
FIELD DATA	MATERIAL DESCRIPTION	NO		L	ABORAT	ORY DA		-			
i i i i i i i i i i i i i i i i i i i	LOCATION: See Ocean Surv	eys, Inc.	Shear th	e 😥	reight Ft)		RBERG NTS	eve eve			
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	Drawing dated October 2, 198	37	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)			
	Olive gray and dark gray fine sand, slightly cl with shell fragments	ayey,						42**			
- 5 -	Olive gray clayey silt w pockets							73**			
	Olive gray fine sand wit fragments	h shell						7*			
- 10 -	Very soft to soft olive with shell fragments, seams, partings, and p	and sand									
- 15 -											
- 20 -			-		_						
- 25 -											
- 30 -	Notes: 1) Depth is referenced penetration below s 2) Cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear str were obtained by mi vane tests performe remolded samples.	eafloor. Lusing by rengths niature									
40	KEY										

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

LOG OF BORING NO. 182
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

-	State Project /50-55-UI											
FIELD DATA					MATERIAL DESCRIPT	ION	LABORATORY DATA					
	eet)	es es	ation unce. / F.t)	d Shear gth F (²)	LOCATION: See Ocean Sur Drawing dated	veys, Inc.	d Shear gth F1 ²)	9. (%)	Weight (u Ft)		RBERG	ng Sieve
I	Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	Undrained Shear Strength (Kips / Ft ²)	October 2, 19	87	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
L	-	7		ס			٥			-25	α-	
l		_			Olive gray silty fine s clay seams and pocket							
I	- 5											8*
												2*
	- 10											2*
					Very soft to soft olive with shell fragments, seams, partings, and	and sand						
	- 15											
							0.09	67	٠	90	55	
	- 20											_
	- 25											
	- 30				Notes: 1) Depth is reference penetration below 2) Cores were obtaine	seafloor.						
	- 35				vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m	s by rengths						
					vane tests perform remolded samples.							
一	40	11			KEY							-

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

LOG OF BORING NO. 183
Isles Derniers Stabilization Project

State Project 750-55-01

State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORAT	TORY DA	_	
et) Con Con Con Con Con Con Con Con Con Con	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / Ft²)	e € 9	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	eve eve
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) ndrained She Strength (Kips / Ft²)	Drawing dated October 2, 19	87	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Jnit Dry Weigh (Lbs / Cu Ft)	₽ € %	G. S.	200 S
Depth (Feet) Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	000000 2, 25	01	Indra St (Kip	Con	Unit (Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve
	Olive gray and dark gra	v siltv						
	fine sand with clay p	ockets						
								2*
5 -								
								4*
	×							44**
			,					
- 10 -								
	ž.							1*
- 15 -	8							
								0*
- 20 -						4		
				Ē				
- 25 -								
				1				
	Notes:							=
- 30 -	 Depth is reference penetration below 					l		
	 Cores were obtaine vibracoring method 	d using						
	Ocean Surveys, Inc							
- 35 -	Undrained shear st were obtained by m							
	vane tests perform							
	remolded samples.							
40	VEV							
	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 184
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

	State Project		LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPT	ION		L		-	etit en sometite	
Samples Samples Penetration Rei istance, (Blows / F.1) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Index (%)	Passing No. 200 Sieve (%)
9 (, g & B) bi			L S	Ťŭ	를린	ا ي ا	P.B.	ž
	Dark gray silty fine sa clay pockets	nd with						32**
- 5 -								
- 10 -		L		2				
- 15 -								0*
						-		0*
- 20 -								
- 25 -								
- 30 -	Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st	seafloor. d using s by						
	were obtained by m vane tests perform remolded samples.	iniature		ii.				
40	KEY							-
Jar Sample								
	ain Size Analysis							
** Hydrometer Ar	aalysis	COMPLETI	ON DEPI	ГН: 1	8.5'			e l

LOG OF BORING NO. 185
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project	/30-33-01	T					
FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORA	TORY DA		
s inn ion ion ion ion ion ion ion ion ion	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / F1 ²)	e 8 ²	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing . 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Et) drained She Strength (Kips / Ft ²)	Drawing dated October 2, 19		ned rengt	istur ent (/ Cu	_ €€	Si Ç	S 00 S
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained She Strength (Kips / Ft²)	october 2, 19	07	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Jnit C (Lbs	Liquid Limit (%)	Plasticity Index (%)	No. 2
٦			j.		3	-5	α –	
▋├──┪	<pre>Very soft to soft olive with shell fragments,</pre>							9*
	seams, partings, and	pockets						
	- with fine sand laye	r to 1'	0.04	0.E		0.5	E 7	
- 5 -			0.04	95		85	57	
		*						
- 10 -								
								-
- 15 -	,			49				
		-				-		
- 20 -								
		â						
						1		
- 25 -								
						1		
	N. L.			1				
- 30 -	Notes: 1) Depth is reference	d to				İ		ı
30	penetration below	seafloor.				ļ		
	Cores were obtaine vibracoring method						-	
	Ocean Surveys, Inc					İ		
- 35 -	Undrained shear st	rengths						
	were obtained by m vane tests perform							
	remolded samples.							
							1	
40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 186
Isles Derniers Stabilization Project
State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
11200212	WATERIAL DESCRIPTION	L			ATTE	RBERG	
Samples Samples Penetration Resistance (Blows / F.1) Undrained Shea Strength (Kips / F.2)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	e €0	Unit Dry Weight (Lbs / Cu Ft)	LIM	1175	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / F.t) Indrained She Strength (Kips / F.t ²)	Drawing dated	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	2 7	2	.;; €	Passing 200 Si (%)
Sam Sam Sam Sesi 3low drair Str Kips	October 2, 1987	drair Str Kips	Moi	bs.	Liquid Limit (%)	Plasticity Index (%)	Pa:
		Š	U	5 =	25	ع ج	ž
	Ulive gray sandy silt with clay						
	pockets and mica						
							72**
- 5 -							, _
							3*
10							,
	1						2*
	Vany soft to soft alive answerlan						
	Very soft to soft olive gray clay with shell fragments, and sand						
15	seams, partings, and pockets						
	to a leasure 2 1 and the street 200 2 to be the 1 to be 200 200 200 200 200 200 200 200 200 20						
			50				
- 20 -		 					
	# ID						
- 25 -							
	Notes:						
- 30 -	1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	3) Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
			-				
40 40	KEY						
Jar Sample							
oar Sampie	1						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 187
Isles Derniers Stabilization Project
State Project 750-55-01

-					State Project /50-55-UI	LABORATORY DATA					
-	F	IELI	DATA		MATERIAL DESCRIPTION	L			ATTE	RBERG	T
	et.)		u gr	Shear h t ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	v € P	Unit Dry Weight (Lbs / Cu Ft)		IITS	Passing No. 200 Sieve (%)
1	(Fe	Samples	standis / F	engtl	Drawing dated October 2, 1987	ned 9	stur ent (Cu /	<u>s</u> e	S. S.	ssing 00 Sign
ı	Depth (Feet)	San	Penetration Resistance (Blows / Ft)	Undrained Shea Strength (Kips / Ft ²)	october 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Init D	Liquid Limit (%)	Plasticity Index (%)	P. 2
		7	Ū	ž		Ď		5 -	75	σ <u>-</u>	Z
		4			Very soft to soft olive gray clay		1331				
I	-	-			with shell fragments, and sand seams, partings, and pockets						
i					, , , , , , , , , , , , , , , , , , , ,						
1	- 5	4				1					
ı		\exists									
ı					- with sand layer at 7' to 8'						5*
1		4									
1	- 10	1									
I	- 15	1									
1	15	-1									
		$\exists 1$		1				27			
			1	1							
I	- 20	4									
		\exists									
			l								
		\dashv									
ı	- 25	1									
		$\exists 1$	- 1								
1		+			N						
	20	1	- 1		Notes: 1) Depth is referenced to	ł					
	- 30	1			penetration below seafloor.						
		$\exists I$		- 1	Cores were obtained using						
		\exists			vibracoring methods by Ocean Surveys, Inc.						
	- 35	4			Undrained shear strengths						
	151170	\exists			were obtained by miniature						
		11			<pre>vane tests performed on remolded samples.</pre>						
		$\exists 1$									
H	- 40	11			KEY		1	1			
	J	ar	Samp	ole							
1			-1111		191						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 15'

LOG OF BORING NO. 162 Isles Derniers Stabilization Project State Project 750-55-01

FIFIDDATA	MATERIAL DESCRIPTION	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION				-	RBERG	
Depth (Feet) Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	a №	Unit Dry Weight (Lbs / Cu Ft)		AITS	Passing No. 200 Sieve (%)
epth (Fe Samples enetration lows / F In ained S Strength	Drawing dated	engt	sture ent (7. C.	.	<u>\$</u>	ssing So Si
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Indrained She Strength (Kips / Ft ²)	October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	nit D Lbs	Liquid Limit (%)	Plasticity Index (%)	P. 20
5 5		5		5 0	ڙ د	9 -	Z
	Olive gray clayey silt with sand						
	seams, partings, and pockets		53				
			33				
- 5 -							
							2:
							86**
- 10 -	*						
- 15 -							
	ē						
- 20 -							
20					7		
	*						
					1		
- 25 -							
				13			
					1		
	Notes:				- 1		
30 -	 Depth is referenced to penetration below seafloor. 						
	2) Cores were obtained using				į		
	vibracoring methods by		2				
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths were obtained by miniature						
	vane tests performed on						
	remolded samples.						
40							
lar Sample	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 189
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION	<u> </u>	L		TORY DA		
Samples Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	0 € 2	Unit Dry Weight (Lbs / Cu Ft)	LIM	RBERG	Passing No. 200 Sieve (%)
Samples Samples Penetration Resistance (Blows / E.I) Adrained She Strength (Kips / F. ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	/ Cu	79€	oity (%)	15.5 in (%)
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) Judrained She Strength (Kips / F.1 ²)	october 2, 1907	Indrai St (Kip	Cont	Unit [Liquid Limit (%)	Plasticity Index (%)	No. 2
]		2				ш-	
	Olive gray fine sand with clay pockets						5*
	,						
							3*
- 5 -							
							8. 31 71
							2*
- 10 -							۷*
- 15 🕂	*						4*
		\vdash			-		
- 20 -	¥						
- 25 -							
						2.00	
	Notes:					İ	
- 30 -	 Depth is referenced to penetration below seafloor. 					İ	
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.		20				
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40	γ						
	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

JOB NO. 1087-1328

LOG OF BORING NO. 190
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA	ATA	
s s ion ion ice. Ett) Shear it	LOCATION: See Ocean Surveys, In	Shear Shear th	e 60	Veight JFt)		RBERG	g sieve
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shea Strength (Kips / Ft²)	Drawing dated October 2, 1987	Undrained Shear	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
5 5		É		5 5	75	<u> </u>	
	Olive gray fine sand with shell fragments						1*
- 5 -	Very soft to soft olive gray cl with shell fragments, and san seams, partings, and pockets	ay d					
- 10 -		0.04	74	c*	75	49	
- 15 -							
- 20 -		-					
- 25 -							9
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40 40	KEY						_

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 19'

LOG OF BORING NO.191 Isles Derniers Stabilization Project State Project 750-55-01

51515 5151	State Project /50-55-UI	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION	 	L	ABORA	-	RBERG	т
Depth (Feet) Samples Penetration Resistance. (Blows / F.I.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	δ <u>ε</u>	Unit Dry Weight (Lbs / Cu Ft)		AITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / F.t) ndrained She Strength (Kips / Ft²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Dry C	₽ €	icity	200 (%)
Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa S	,	Judra Si (Kip	Ž į	(Lbs	Liquid Limit (%)	Plasticity Index (%)	₽ .
	Olive gray silty fine sand,						58**
	clayey with shell fragments						30
							9*
5 -							
							3*
							a.
							1*
- 10 -							
							2*
							_
- 15 -							
- 20 -	*						
- 25 -							
25							
	4						
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40							
— , , , ,	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 14.5'

LOG OF BORING NO. 192
Isles Derniers Stabilization Project
State Project 750-55-01

L	State Project 750-55-01											
	F	IELI	DATA		MATERIAL DESCRIPT	ION		L	ABORA	ORY DA	ATA	
	et)		ion (Ce.	Shear h (2)	LOCATION: See Ocean Sur		Shear th	9 6	Veight JFt)		RBERG	9. e.e
	Depth (Feet)	Samples	Penetration Resistance. (Blows / F.1)	Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 19	87	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
					Olive gray sandy silt wi pockets and organics	th clay	÷					78**
	- 5	-										
	- 10	-	4		Olive gray silty fine sa clay seams and shell f							35**
												1* 1*
	- 15	-			Very soft to soft olive with sand seams and sh fragments	gray clay ell						
	- 20					a .						
	- 25	-										21
	- 30 - 35				Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	seafloor. d using s by rengths iniature						
	<u>-</u> 40	44			KEY					1		

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5

JOB NO. 1087-1328

LOG OF BORING NO.193
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORAT	ORY DA		
s sibn ibn coe. Fil	LOCATION: See Ocean Surveys, Inc.	Shear Ith : 1 ²)	رچ (چ)	Weight JFt)		RBERG	e Sieve
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shea Strength (Kips / Ft²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F ₁ ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 5 -	Olive gray silty fine sand - clay layer 6' to 7'			183			6*
- 10 -	,						2* 1*
							1,
- 15 -	Very soft to soft olive gray clay with sand seams and shell fragments						
- 20 -							
- 25 -							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc.						
40	 Undrained shear strengths were obtained by miniature vane tests performed on remolded samples. 						
	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 19'

LOG OF BORING NO. 194
Isles Derniers Stabilization Project

State Project 750-55-01

					State Project /5U-55-UI			10			
_	F	IEL	DATA	1	MATERIAL DESCRIPTION		L	ABORA	TORY DA		
	eet)	s	tion nce. F.t)	Shear gth = (2)	LOCATION: See Ocean Surveys, Inc. Drawing dated	1 Shear gth F (2)	9 (%)	Weight (u Ft)		RBERG	Sieve
	Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	Undrained Shea Strength $(Kips / Ft^2)$	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
					Olive gray silty fine sand, slightly clayey, with shell fragments						32**
	- 5				Very soft to soft olive gray clay - with shell layer at 7'	0.04	91		82	51	
	- 10	_			Olive gray fine sand with shell fragments						4*
	- 15				Olive gray sandy silt, slightly clayey, with shell fragments and mica	_			4		67**
	- 20										
	- 25		-								
	- 30				Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on						
	- 40				remolded samples.						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. 195
Isles Derniers Stabilization Project

State Project 750-55-01

State Project 750-55-01											
	F	IELI	DATA		MATERIAL DESCRIPTION	LABORATORY DATA					,
l	et)		E 4.7	Shear h r ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	e €0	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
ı	Depth (Feet)	Samples	etrati istan vs / I	ned S rengt	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%))ry W	_ p.€	city (%)	88 in 800 S
ı	Dept	Sar	Penetration Resistance (Blows / F.t)	Undrained Shea Strength (Kips / Ft ²)	00000E1 2, 1307	Indra St (Kip	Con	Unit (Liquid Limit (%)	Plasticity Index (%)	8
L		\rightarrow		ס	Olive gray fine sand with shell	5				ш-	
l					fragments						1*
I		-			Vone acft to acft alive and alay						2*
Ī	- 5	-			Very soft to soft olive gray clay with shell fragments, and sand						
		1			seams, partings, and pockets						
		-									
	- 10	-									
ı											
	- 15	+			*						
		\dashv			3 3 						
	- 20]			*						
		\exists									
		ᆀ			*						
		$\dashv \mid$									
	- 25										
		\dashv	1	ı							
		ᆀ		1	Notes:						
	- 30	+		1	 Depth is referenced to penetration below seafloor. 						
		$\exists 1$	į		2) Cores were obtained using						
		$\dashv \mid$			vibracoring methods by Ocean Surveys, Inc.						
	- 35	7			Undrained shear strengths						
		\exists			were obtained by miniature						
		71		- 1	<pre>vane tests performed on remolded samples.</pre>						
	40	\exists			, and the second	=					
Γ	- 40				KEY						
		1	C 2	-1-	i i						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18.5'

LOG OF BORING NO.196
Isles Derniers Stabilization Project

State Project 750-55-01

FIG. 5	State Project /50-55-01	т		ABODA	TODY 5		
FIELD DATA	MATERIAL DESCRIPTION	,			TORY D	RBERG	Τ
Samples Samples Penetration Rei stance (Blows / F.t.) Undrained Shear Strength (Kips / F.t.2)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	ھ ہ	Unit Dry Weight (Lbs / Cu Ft)	LIA	AITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) Judrained Shea	Drawing dated	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Jnit Dry Weigh (Lbs / Cu Ft)		ž.č.	sing 0 Si
Sam Senet Resis Slows Stro Kips	October 2, 1987	Jrair Str Kips	Mois	it Di	Liquid Limit (%)	Plasticity Index (%)	Pas 3. 20
		J S	0	들리	ڙ ڌ	<u>a</u> =	ž
	Dark gray silty fine sand with						50**
	clay pockets and organics						4*
5 1							5*
- 10 -							2*
- 15 -							13*
- 20 -	P						
20							
- 25 -							
	Notes:				1		
- 30 -	 Depth is referenced to 						
	penetration below seafloor.						
	 Cores were obtained using vibracoring methods by 						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature						
	<pre>vane tests performed on remolded samples.</pre>		-				
	. c.mo. aca samp. co.						
40 41	KEY						
Jar Sample	(NC)						
Jan Jampie	1						
* Mechanical G	rain Size Analysis						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 197 Isles Derniers Stabilization Project

State Project 750-55-01

FIELD DATA	MATERIAL DESCRIPTION	T	L	ABORA	Unit Dry Weight (Lbs / Cu Ft) Liquid Limit (%) Liquid Limit (%) Liquid Limit (%) Liquid Limit (%) Liquid Limit (%) Liquid Limit (%) Liquid Liq					
		lear)		₹ a			0 >			
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Sheat Strength (Kips / Ft²)		Undrained Shea Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Wei (Lbs / Cu F	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sie (%)			
	Olive gray fine sand with clay pockets and shell fragments					4*				
- 5 -	Very soft to soft olive gray clay with organic seams and sand pockets									
- 10 -	Olive gray silty fine sand with shell fragments and sand seams						1*			
			90				12*			
- 15 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets			2						
- 20 -	-									
- 25 -										
- 30 - - 35 - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
Jar Sample	KEY			¥						

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO.198
Isles Derniers Stabilization Project
State Project 750-55-01

JOB MO. I	06/-13	State Project	750-55-01						
FIELD DAT	А	MATERIAL DESCRIPTI	ON		L	ABORA	TORY DA	-	
Depth (Feet) Samples Penetration Resistance (Resistance (Final Prince (F	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surv Drawing dated October 2, 198		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plast	Passing No. 200 Sieve (%)
- 10 -	ח	Olive gray and dark gray clay pockets and shell - shell layer at 12'							98**
- 15 - - 20 - - 25 - - 30 - - 35 - - 40		Notes: 1) Depth is referenced penetration below so the coring methods Ocean Surveys, Inc. 3) Undrained shear still were obtained by min vane tests performs remolded samples.	d to seafloor. d using s by rengths iniature	0.05	36		32	16	

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 16'

LOG OF BORING NO. 199
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA	-		
s interpretation Shear th (2)	LOCATION: See Ocean Surveys, Inc.	Shear tth : 1 ²)	رة (8)	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Sieve	
Samples Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	it Dry	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
g (, , g & B) b 3		D E	0	5 =	اً تِ	<u>g</u> -	ž	
	Olive gray sandy silt with clay pockets and shell fragments				8		69**	
- 5 -	Olive gray fine sand with shell fragments						1*	
- 10 -							1*	
- 15 -	p.						9*	
		_				3	5*	
- 20 -								
- 25 -							4	
20	Notes: 1) Depth is referenced to	==						
- 30 -	penetration below seafloor. 2) Cores were obtained using vibracoring methods by							
- 35 -	Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature							
	vane tests performed on remolded samples.							
40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5

JOB NO. 1087-1328

LOG OF BORING NO. 200
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01									
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA			
s silon sice. Fit)	LOCATION: See Ocean Surveys, Inc.	Shear th	6 €	Veight Ft)		RBERG	ieve		
Depth (Feet) Samples Penetration Resistance (Blows / Ft)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve		
	Very soft to soft olive gray clay with shell fragments				_				
- 5 -	Olive gray fine sand with shell fragments						2*		
- 10 -							1*		
	- with clay pockets below 11.5'						11*		
- 15 -		_			_		5 *		
- 20 -									
- 25 -				8					
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc.								
40	3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 16'

LOG OF BORING NO. 201
Isles Derniers Stabilization Project

State Project 750-55-01

	State Project /50-55-UI	r		1000			
FIELD DATA	MATERIAL DESCRIPTION	-	L		TORY DA	RBERG	T
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	δ ε δ	Unit Dry Weight (Lbs / Cu Ft)		AITS	Passing No. 200 Sieve (%)
Samples Samples Penetration Resistance (Blows / FL) odrained She Strength (Kips / Ft²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry C/C	₽.	icity (%)	200 (%)
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Judrained Shee Strength (Kips / Ft ²)	,	Indra St (Kip	Ž o Ž	(Lbs	Liquid Limit (%)	Plasticity Index (%)	₽ . 8
	Olive gray fine sand with shell						
	fragments						
	- clay layer to 1'						
							3*
- 5 -	ii.						
							1*
							1^
- 10 -							
	ж.						2*
- 15 -	*						12*
	V						
	Very soft to soft olive gray silty clay with sand pockets and shell			1,0			64**
- 20 -	fragments				-		_
	isido (contacto de la contacto de la						
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to 						
	penetration below seafloor.						
	Cores were obtained using vibracoring methods by						
	Ocean Surveys, Inc.		20				
- 35 -	 Undrained shear strengths were obtained by miniature 						
	vane tests performed on						
	remolded samples.						
40					l		
	KEY			8			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19.5'

LOG OF BORING NO. 202
Isles Derniers Stabilization Project
State Project 750-55-01

	3 147		107-13	State Project 750-55-01						
F	Samples The Sample			MATERIAL DESCRIPTION		L	ABORAT	ORY DA		
Depth (Feet)	Samples	Penetration Resistance. (Blows / Et)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SIBS CLIS CLIS CLIS CLIS CLIS CLIS CLIS CLI	Passing No. 200 Sieve (%)
- 5				Very soft to soft olive gray sandy clay with shell fragments						
- 10 - 15				Olive gray fine sand with shell fragments and sand pockets						1*
- 20 - 25				Very soft to soft dark gray silty clay with sand pockets				-		74**
- 30 - 35 - 40				Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.					-	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 203
Isles Derniers Stabilization Project
State Project 750-55-01

L	State Project 750-55-01										
	FI	ELD DAT	Δ.	MATERIAL DESCRIPTION	l		L	ABORAT	ORY DA	ATA	
	Depth (Feet)	Samples Penetration Resistance. (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surve Drawing dated October 2, 1987	=	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve (%)
Ī				Olive gray clayey silt wit	th mica						83**
	- 5			Olive gray silty fine sand	d with						35** 48*
	- 10 - 15 - 20			Olive gray fine sand with fragments	shell						11* 11* 4* 2* 5*
	- 30 - 35 - 40 -			Notes: 1) Depth is referenced penetration below se 2) Cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear stre were obtained by min vane tests performed remolded samples.	afloor. using by ngths iature						
	=			KEY				•			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 204
Isles Derniers Stabilization Project
State Project 750-55-01

State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPTION		5				1	
ris tion tion nce. F1)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Shear th = (2)	ور (و	Weight u Ft)		1175	Passing No. 200 Sieve (%)	
Depth (Feet) Samples Penetration Resistance (Blows / Et)	October 2, 1987	ained Streng ips / F	foistu	Dry S/C	biu (%)	sticity ex (%)	Passii 200 (%)	
90 (8 8 8 B) AP	χ, χ	Undr.	≥ ပိ	= = =	Lig	Pias Inde	ž	
	Olive gray fine sand with clay pockets and shell fragments							
	pockets and shell tragments						5*	
- 5 -			8				0.4	
							0*	
							1*	
- 10 -	- silty below 10'						22**	
- 15 -								
					-		_	
- 20 -								
	a a							
- 25 -								
- 30 -	Notes: 1) Depth is referenced to							
	penetration below seafloor. 2) Cores were obtained using							
	vibracoring methods by Ocean Surveys, Inc.							
- 35 -	 Undrained shear strengths were obtained by miniature 							
	vane tests performed on remolded samples.							
10	Temoraca Sampres							
40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16'

LOG OF BORING NO. 205
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01									
FIELD DATA	MATERIAL DESCRIPTION		33						
s sion ion ice Ft) Shear	LOCATION: See Ocean Survey:	S, Inc. Shear	(%) Neight	LIMITS	g Sieve				
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undersined Shea	Drawing dated October 2, 1987	Undrained Streng (Kips / F	Moistur Content (Unit Dry W	Liquid Limit (%) Plasticity Index (%)	Passing No. 200 Sieve				
	Very soft to soft olive grawith shell fragments	y clay							
- 5 -									
- 10 -	Olive gray fine sand with s fragments	hell			3*				
					1*				
- 15 -	Very soft to soft olive graded dark gray clay with sand				60**				
- 20 -									
- 25 -									
	Notes:								
- 30 -	1) Depth is referenced to penetration below seas 2) Cores were obtained us vibracoring methods by Ocean Surveys, Inc.	floor. sing							
- 35 -	3) Undrained shear streng were obtained by minimum vane tests performed remolded samples.	ature							
40 40	KEY								

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16'

LOG OF BORING NO. 206
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01										
FIELD	DATA		MATERIAL DESCRIPT	ION		L	ABORA	TORY DA	ATA	
s set)	ion Ce Ft)	Shear th t ²)	LOCATION: See Ocean Sur		Shear th (2)		Veight JFt)	ATTE	RBERG MITS	g ieve
Depth (Feet) Samples	Penetration Resistance (Blows / F.t)	Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 19		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve
	2,50	rbd. X			Lhd. X	2 0	<u> </u>	Lig	Plas	Š
			Olive gray fine sand wit fragments	ch shell	0.05	215		113	78	
			- clay layer to 1.5'							3*
- 5 -										
										1.4
										1*
- 10 -										
			÷							2*
- 15 -										
										4*
- 20 -				•						
		ı								
- 25 -										
		į								
- 30 -			Notes: 1) Depth is reference							
			penetration below : 2) Cores were obtained							
			vibracoring method Ocean Surveys, Inc							
- 35 -			 Undrained shear st were obtained by m 	rengths						
			vane tests perform remolded samples.							
40			remoraca sampres.							
40			KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

JOB NO. 1087-1328

LOG OF BORING NO. 207 Isles Derniers Stabilization Project State Project 750-55-01

State Project 750-55-01									
FIELD	DATA		MATERIAL DESCRIPTION		L	ABORAT	ORY D	ATA	
et)	E 성급	Shear (2)	LOCATION: See Ocean Surveys, Inc.	Shear C (2)		eight Ft)		RBERG MITS	20
Depth (Feet) Samples	Penetration Resistance (Blows / F.t)	Undrained Shea Strength (Kips / Ft²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (名)	Passing No. 200 Sieve
		<u>ה</u>		٥				а-	
			Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 5 -									
			Olive gray fine sand with shell fragments and clay pockets						8*
- 10		3.							9*
									7*
- 15 -									
				_					
- 20 -			∞						
- 25 -									
- 30 -			Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by						
- 35 -			Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on						
40			remolded samples.						

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 16'

LOG OF BORING NO. 208
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION			ABORA			,
Samples Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys	Undrained Shear Strength	(₂)	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) drained She Strength (Kips / Ft ²)	Drawing dated October 2, 1987	ned	(Kips / F1 ²) Moisture Content (%)	Zy V	_ s€	€ £	S 00 S
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Indrained She Strength (Kips / Ft²)	october 2, 1987	ndrained She Strength	Cont Cont	Jnit (Lbs	Liquid Limit (%)	Plasticity Index (%)	2 . 2 .
خ ا						п-	
	Very soft to soft olive gray with organics and shell	clay					
	fragments						
	Olive gray fine sand with c	ay					24
- 5 -	pockets						3*
							1*
▮ ├─── <mark></mark> │							2*
- 10 -		•					_
		1					2*
	52.5						
	- clayey at 14'						45**
- 15 -							
							7*
			+	-	-		
- 20 -		•					
- 25 -		l					
20	Notes: 1) Depth is referenced to						
- 30 -	penetration below seaf	loor.					
	2) Cores were obtained us	ing					
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strength						
	were obtained by miniat vane tests performed o					8	
	remolded samples.						
						8	
40	KEY		<u> </u>				

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18'

LOG OF BORING NO. 209
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPTI	ON		L	ABORA	ORY DA		
er) on ii) Shear	LOCATION: See Ocean Surv	veys, Inc.	Shear n (2)		Unit Dry Weight (Lbs / Cu Ft)		RBERG	9 9 9
Depth (Feet) Samples Penetration Resistance (Blows / F.t.) Judrained Shez Strength (Kips / F.t.)	Drawing dated October 2, 198	37	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Ory W	€	eicity (%)	200 Sing (%)
Samples Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / F.t2)	0000001 2, 150	,	Undrained Shear Strength (Kips / F1 ²)	Co Mo	Unit (Lbs	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Very soft to soft olive	gray clay						
	with shell fragments,	and sand						
	seams, partings and po Olive gray fine sand wit	ckets ch shell						
- 5 -	fragments							2*
								_
- 10 -								1*
								•
- 15 -	9 4 1							6*
						-		-
- 20 -								
				-				
- 25 -								
	Notes:							
- 30 -	 Depth is referenced penetration below s 							
	Cores were obtained	d using						
	vibracoring methods Ocean Surveys, Inc.		K. C. C. C. C. C. C. C. C. C. C. C. C. C.					
- 35 -	 Undrained shear stage were obtained by m 	rengths						
	vane tests perform							
	remolded samples.							
40 41	KEY							
	virtual 40							9

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 210 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA	
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity CLIN SHERE CLIN CLIN CLIN CLIN CLIN CLIN CLIN CLIN	Passing No. 200 Sieve (%)
- 5 -	Very soft to soft olive gray clay with shell fragments and sand pockets						
- 10 -	Olive gray silty fine sand with mica						47**
- 15 -	Very soft to soft olive gray silty clay with sand pockets	0.11	69		75_	44	61**
- 25 -							
- 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 211
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01											
	FIEL	DATA		MATERIAL DESCRIPTION			L	ABORA	ORY DA		
	(jet)	ion ce. Et)	Shear h t ²)	LOCATION: See Ocean Surveys, I	nc.	Undrained Shear Strength (Kips / Ft ²)	وي م	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
	Depth (Feet) Samples	Penetration Resistance (Blows / F.t)	ined : rengt	Drawing dated October 2, 1987	020	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry V		icity	assin 200 S (%)
	Dep Sa	Per Bio	Undrained Shear Strength (Kips / Ft ²)			Undra S (Ki _l	N O	Lbs	Liquid Limit (%)	Plasticity Index (%)	Š.
H				Olive gray clayey silt with mi	ca						
				1							
	- 5 -										98**
											96**
	- 10 -			Olive gray fine sand with shel fragments and clay pockets	1						
											14*
	15										3*
	- 15 -										1*
	- 20 -								_		6*
								ı			
	- 25 -										
				Notes:							
	- 30 -			 Depth is referenced to penetration below seafloo 	r.						
				 Cores were obtained using vibracoring methods by 							
	- 2F			Ocean Surveys, Inc. 3) Undrained shear strengths							
	- 35 -			were obtained by miniatur							
				<pre>vane tests performed on remolded samples.</pre>							
	40										
				KEY				1.0			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 212 Isles Derniers Stabilization Project State Project 750-55-01

	State Project 750-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA"	ORY DA		
Depth (Feet) Samples Penetration Resistance. (Blows / F.1) Undrained Shear Strength (Kins / F.2)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	0 8°	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / F.I.) Indrained She (Kins / F.2.)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Init Dry Weigh (Lbs / Cu Ft)	.p.68	icity (%)	200 S
De O Se Se Se Se Se Se Se Se Se Se Se Se Se	,	Undra Si (Kig	Ç, X	ig sq	Liquid Limit (%)	Plasticity Index (%)	δ.
	Olive gray clayey silt with mica						
- 5 -							93**
	- with sand seams below 6.5'						
- 10 -					-		
- 15 -	01:						
	Olive gray fine sand with clay seams and shell fragments						2*
- 20 -							
- 25 -							
					1		
	Notes: 1) Depth is referenced to						
- 30 -	penetration below seafloor.						
	Cores were obtained using vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 						i
	vane tests performed on						
	remolded samples.						
40	KEY						
Jar Sample	550000						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. 213 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

ا ا ا						LABORATORY DATA			
[] [[]]] F []	LOCATION: See Ocean Surveys, Inc	hear	2)	e ight		RBERG MITS	9 > 9		
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 1987	Undrained Shea	(Kips / F ₁ ²) Moisture	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)		
	Olive gray silty fine sand, slightly clayey with mica						44*		
- 5 -							2*		
10	Very soft to soft olive gray sandy clay with sand pockets						67**		
- 10 -	Olive gray and dark gray silty fine sand with clay pockets and shell fragments						47**		
- 15 -	with silty clay layerat 13.5'Olive gray fine sand with shell						70** 5*		
	fragments			-			J		
- 20 -									
- 25 -									
- 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 19'

LOG OF BORING NO. 214 Isles Derniers Stabilization Project State Project 750-55-01

State Project /50-55-01									
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA				
Samples Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / F1 ²)	0 ge	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)		
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Judrained Shee	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Init Dry Weigh (Lbs / Cu Ft)	. p€	icity	assin 200 S (%)		
Se Res Res (Blo Undra Si Si Si Si Si Si Si Si Si Si Si Si Si	,	Undra Si (Kig	S C	Lbs	Liquid Limit (%)	Plasticity Index (%)	٠ . ق		
	Very soft to soft olive gray, and	-							
	dark gray sandy clay with								
	silt pockets and shell fragments								
- 5 -									
- 10 -			(c				61**		
						,			
- 15 -									
		0.08	62		64	40			
					_				
- 20 -									
- 25 -									
20	Notes: 1) Depth is referenced to								
- 30 -	penetration below seafloor.								
	 Cores were obtained using vibracoring methods by 								
	Ocean Surveys, Inc.								
- 35 -	 Undrained shear strengths were obtained by miniature 								
	<pre>vane tests performed on remolded samples.</pre>								
	. cmoraca sampres.								
40 40	KEY	1							
Jar Sample									

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 215
Isles Derniers Stabilization Project
State Project 750-55-01

-			04 - 40 / 24 (20 to 20 t		State Project /50-55-	-01	LABORATORY DATA					
L	F	IEL	DATA		MATERIAL DESCRIPTION	-			ABORA		RBERG	
	Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, In Drawing dated October 2, 1987	ic.	Undrained Shear Strength (Kips / Fl ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SI	Passing No. 200 Sieve (集)
L	P	(s	9,8,8	Undr (X			D Z	-3	돌린	Lia Limi	Pla pn-	
					Olive gray clayey sand, slightly silty with shell fragments and sandy silt							68** 32**
	- 5 - 10 - 15				to 1.5'							41*
					- with dark gray fine sand below 17'		_					4*
	- 20 - 25											
	- 30				Notes: 1) Depth is referenced to penetration below seaflood 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
Γ	<u>-</u> 40 -				KEY	•			,			

Jar Sample

JOB NO. 1087-1328

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 216
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01												
	FI	ELC	DATA		MATERIAL DESCRIPT	ION		L	ABORA	ORY DA		_
	(let)		ion ce Ft)	Shear h t ²)	LOCATION: See Ocean Sur		Shear th '(2)	9 60 9 40	Veight Ft)		RBERG	oieve sieve
	Depth (Feet)	Samples	Penetration Resistance (Blows / Ft)	Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 19		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	٥ (9 8 8	D _n U			D 5	0	5 5	ٿ ٽ	<u>g</u> -	ž
					Very soft to soft olive clay with shell fragm sand seams and pocket	ents and						
	- 5				Olive gray and dark gra with clay pockets and fragments							35**
	- 10											12*
					×							46**
	- 15									3*		16*
	- 20	∄					_			_		
	- 25											,
		\parallel			Notos							
	- 30				Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc	seafloor. d using s by						
	- 35				 Undrained shear st were obtained by m vane tests perform remolded samples. 	rengths iniature						
H	- 40 ·	Ш			KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 217 Isles Derniers Stabilization Project State Project 750-55-01

	State Project /50-55-01	LABORATORY DATA					
FIELD DATA	MATERIAL DESCRIPTION					RBERG	
Depth (Feet) Samples Penetration Resistance. (Blows / F.I.) Undrained Shear Strength (Kips / F.1.)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft ²)	ارم (مع)	Unit Dry Weight (Lbs / Cu Ft)		AITS T	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / E.t) Judrained Ske Strength (Kips / Ft ²)	October 2, 1987	ainec Stren ips /	Moisture Content (%)	Dry S/C	bir (%)	Plasticity Index (%)	200 (%)
S S S S S S S S S S S S S S S S S S S		Lhd X	Σိ္ပ	F H	Liquid Limit (%)	Plas	Š.
	Very soft to soft olive gray						
	clay with shell fragments, and						
	sand seams, partings, and pockets				55	30	
- 5 -	Formers						
	9						
	- with sand layer 9' to 10'						
- 10 -							
- 15 -	*						
					_		
. —							
- 20 -							
- 25 -							
[23]							
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on						
	remolded samples.						
40							
	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. 218
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01	·					
FIELD DATA	MATERIAL DESCRIPTION			Γ	ORY DA	RBERG	
2) E E C C C C C C C C	LOCATION: See Ocean Surveys, Inc.	shear 2)		Ft.)		HITS	9 >
Samples Samples Penetration Resistance (Blows / FL) Undrained Shea	Drawing dated	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	3	ity ®	Passing No. 200 Sieve (%)
Samples Samples entitati tesistanc llows / F Strength	October 2, 1987	Irain Stre Kips	Mois	it Dr	Liquid Limit (%)	Plasticity Index (%)	Pas . 20 (9
] Q (D S	O	들리	ڙ ڌ	Pla pr	ž
	Olive gray fine sand						
	- with clay layer to 1'						
							2*
- 5 -							6*
	Very soft to soft olive gray						
	clay with shell fragments, and						
- 10 -	sand seams, partings, and						
	pockets						
- 15 -							
					_		
20 -							
- 25 -						1	
		Ī					
	Notes:						
- 30 -	1) Depth is referenced to						
	penetration below seafloor.						
	Cores were obtained using vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths						
	were obtained by miniature vane tests performed on	1					
	remolded samples.	1		1			
	,			1			
40 40	KEY						
Jar Sample							

Mechanical Grain Size Analysis

** Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 219
Isles Derniers Stabilization Project
State Project 750-55-01

October 2, 1987 October 2, 1987 October 2, 1987 October 2, 1987 October 2, 1987 October 3, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 4, 1987 October 5, 1987 October 5, 1987 October 6, 1987 October 6, 1987 October 7, 1987 October 1, 1987 October 2, 1987 October 3, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 4, 1987 October 2, 1987 October 3, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 4, 1987 October 3, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 4, 1987 October 5, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 6, 1987 October 7, 1987 October 6, 1987 Octobe	State Project 750-55-01								
Cocation: See Ocean Surveys, Inc. Drawing dated October 2, 1987 Cocation: See Ocean Surveys, Inc. October 2, 1987 October 2, 1987 Cocation: See Ocean Surveys, Inc. October 2, 1987 Cocation: See Ocean Surveys, Inc. October 2, 1987 Cocation: See Ocean Surveys, Inc. October 2, 1987 Cocation: Se	FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
Olive gray clayey fine sand with shell fragments 6* 53*** -1015252530 - Notes: 1) Depth is referenced to	et)	LOCATION: See Ocean Surveys, Inc.	Shear h [2]	. . .	eight Ft)			ieve	
shell fragments 6* 53** -10152530 - Notes: 1) Depth is referenced to	Samples Samples Penetrali Resistan (Blows / F Undrained S Strength	Drawing dated October 2, 1987	Undrained S Strengtl (Kips / Ft	Moisture Content (Unit Dry W (Lbs / Cu	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 5 - - 10 - - 15 - - 20 - - 25 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on	Und		(T)	Liq		6* 53** 51** 2*	
Jar Sample	l _	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 220 Isles Derniers Stabilization Project State Project 750-55-01

		State Project 750-55-01							
FIELD DAT	Α	MATERIAL DESCRIPT	ION	LABORATORY DATA					
(£ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Shear (2)	LOCATION: See Ocean Sur		Shear h (2)	و. هـ	eight Ft)		RBERG	200
Samples Penetration Resistance	Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 19		Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
- 5 -		Olive gray clayey silt	with mica						98**
		Olive gray and dark gra	v ciltv						51**
- 10 -		fine sand with shell and clay pockets							10*
- 15 -						-			10*
- 20 -									
- 25 -									
- 30 -		Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc.	seafloor. d using ls by						
- 35 -		 Undrained shear st were obtained by m vane tests perform remolded samples. 	iniature						
40		KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. 221
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L		TORY D		
in in in in in in in in in in in in in i	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft ²)	a e ²	Unit Dry Weight (Lbs / Cu Ft)		RBERG AITS	9
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Indrained She Strength,	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry V	p g	Plasticity Index (%)	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength	ž (Lhd.	Σô	Lb (Lb	Liquid Limit (%)	Plas	Š.
	Very soft to soft olive gray						
	clay with shell fragments and sand seams						
- 5 -							
	Olive gray silty fine sand with shell fragments and clay						30*
	pockets						
- 10 -							
	,						2*
- 15 -				100			2*
- 20 -		<u> </u>			_		
- 25 -							
- 30 -	Notes: 1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by Ocean Surveys, Inc.						
- 35 -	3) Undrained shear strengths were obtained by miniature						
	vane tests performed on remolded samples.						
40	Temoraca Sampres.						
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19.5'

LOG OF BORING NO. 222 Isles Derniers Stabilization Project State Project 750-55-01

JOB NO. 1087-1328

State Project 750-55-01							
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY DA		
s s ion ion Shear (12)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	9 6	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / F.t) Indrained She Strength (Kips / Ft ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry I	pj.	Plasticity Index (%)	200 S
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shea Strength (Kips / Ft ²)		Undr. S (Ki	Σö	الج ظ	Liquid Limit (%)	Plas	Š.
	Olive gray clayey silt, slightly						87**
	sandy with mica						
	Olive gray silty fine sand with clay pockets						13*
- 5 -	chay pooned						6*
- 10 -							45**
							9*
							1*
- 15 -	V. C. C. C. C.						1"
	Very soft to soft olive gray sandy clay with shell fragments						68**
					-		
- 20 -							
- 25 -							
	Notes:						
- 30 -	 Depth is referenced to penetration below seafloor. 						
	Cores were obtained using vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	Undrained shear strengths were obtained by miniature						
	<pre>vane tests performed on remolded samples.</pre>						
	remoraca sumpres.						
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 223
Isles Derniers Stabilization Project
State Project 750-55-01

	-	State Project	/50-55-01						
FIELD DAT	А	MATERIAL DESCRIPTI	ON		L	ABORA	ORY DA		
Depth (Feet) Samples Peretration Resistance. Resistance.	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Sur Drawing dated October 2, 19		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve (%)
- 5 -	מח	Very soft to soft olive with shell fragments, seams, partings, and olive gray and dark gray sand with clay pocket: - with clay layer 10	and sand pockets y fine s	0.05	45	5	51	33	25** 1*
- 15 - - 20 - - 25 - - 30 -		Notes: 1) Depth is reference penetration below 2) Cores were obtaine	seafloor.						3*
- 35 -		vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	rengths iniature			·			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 224
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project							
FIELD DATA	FIELD DATA MATERIAL DESCRIPTION				ABORAT	ORY DA	-	
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surv	veys, Inc.	Undrained Shear Strength (Kips / Ft ²)	⊕ 6 ⁰	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)
Samples Samples Penetration Resistance (Blows / F.t) adrained She Strength (Kips / F.t ²)	Drawing dated October 2, 198	27	ndrained She Strength (Kips / Ft ²)	istur tent (77.	- Pe	G.	nissin (%)
Samples Samples Penetration Resistance (Blows / F.I.) Judrained Shea	0000001 2, 150	"	ndra St (Kip	Moisture Content (%)	Jnit ((Lbs	Liquid Limit (%)	Plasticity Index (%)	a .
٥			٥				ш-	
	Olive gray silty fine sa - clayey to 2'	ind						55**
	with shell fragments			1				
- 5 -								23**
5 1								2*
								4*
- 10 -	- clay pockets below 1	10'						41**
	R &							
								1*
- 15 -								4*
								7
		æ						66**
- 20 -		-	- +					00
25								
- 25 -								
		1					8	
	Notes:					I		
- 30 -	 Depth is referenced penetration below s 	to seafloor						
	Cores were obtained	dusing						
	vibracoring methods Ocean Surveys, Inc.							
- 35 -	Undrained shear str	rengths						
	were obtained by mi vane tests performe						9	
	remolded samples.							
40	_							
40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 226
Isles Derniers Stabilization Project

State Project 750-55-01

Comparison of the company of the c	State 110ject 730-33-01								- Carlon Carlon Carlon
LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987 Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay pockets Olive gray silty fine sand with shell fragments and clay gray silty fine sand with shell fragmen	FIELD DATA		ION	 	L			-	
Notes: -30 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	ion ce. Ft) Shear t ²)	LOCATION: See Ocean Sur		Shear h t ²)	e € 9	(eight Ft)			
Notes: -30 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	nples nples stan stan stan stan stan stan stan	Drawing dated	97	ned s	stur ent (/ Cu		S. S.	ssing S OS
Notes: -30 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	Sar Sar Resignation of Sar (Blow of Sar (Kip (Kip (Kip (Kip (Kip (Kip (Kip (Kip	october 2, 19	07	drai Str (Kip:	Moi	nit D	iquio mit (lasti	P. 2
shell fragments and clay pockets 11* 5* 65** -1025253025303	ا ا			Š		3 -	7.5	<u> </u>	Z
Notes: 11* 5* 65** 2* 45** 36** 3* -20 - 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
Notes: - 20 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained syminiature vane tests performed on remolded samples.			lay						
Notes: -10 - -15 - -25 - -25 - -30 - -25 - -30 - -35 - 30 - -35 - 30 - 30 - -35 - 30 - 30 - -35 - 30 -		Programmer and the second							11*
Notes: -30 - 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 5 -								5*
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		111							
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.				1					65**
Notes: - 25 - - 25 - - 30 - - 20 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 10 -								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									2*
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									45**
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 15 -								36**
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.					8				
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.					12				3*
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 20 -					_	-		
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 25 -								
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						l			
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		Notos							
penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 30 -		d to						
vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		penetration below	seafloor.						
Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									
vane tests performed on remolded samples.	- 35 -	Undrained shear st	rengths						
remolded samples.									
40			eu Uii					1	
40		1	ı					1	
KEY	40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 227
Isles Derniers Stabilization Project
State Project 750-55-01

1007 1	State Project 750-55-01	5-01					-
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Index (%)	Passing No. 200 Sieve (%)
- 5 -	Very soft to soft olive gray clay with sand seams Olive gray fine sand with shell fragments						14* 3*
- 10 -	Very soft olive gray silty clay with sand pockets						68**
- 15 -	Olive gray and dark gray silty fine sand with shell fragments						37** 1*
- 20 -	· · · · · · · · · · · · · · · · · · ·	- +					<u>14*</u>
- 30 - - 35 - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 228
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / F.t) Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 Olive gray silty fine sand with shell fragments and clay 7* pockets 10 1* 2* 15 51** 20 25

Notes:

- 1) Depth is referenced to penetration below seafloor.
- 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc.
- 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.

KEY

Jar Sample

30

35

- Mechanical Grain Size Analysis
- Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 229
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01												
	F	IELD	DATA		MATERIAL DESCRIPT	ION		L	ABORAT	ORY DA	ATA	
	set)	9	ion Ce Ft)	Shear th t ²)	LOCATION: See Ocean Sur		Shear th (2)	e (P	Veight Ft)		RBERG	g
	Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 19	87	Undrained Shea Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
					Olive gray silty fine sa organics and shell fra	and with agments						52**
	- 5											53**
					Olive gray fine sand wit fragments	ch shell			(5)			9* 3*
	- 10	-										5*
	- 15	_										2*
												2* 10*
	- 20	1										10
	- 25											
	- 30				Notes: 1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc	seafloor. d using s by						
	- 35				3) Undrained shear st were obtained by m vane tests perform remolded samples.	rengths iniature						
	- 40	44			KEY		1	1				

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

JOB NO. 1087-1328

LOG OF BORING NO. 230 Isles Derniers Stabilization Project State Project 750-55-01

Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained by Ocean Surveys, Inc. 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	State Project 750-55-01								
Notes:	FIELD DATA	MATERIAL DESCRIPT	ION		L	ABORAT	ORY DA	ATA	
Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets Olive gray fine sand with shell fragments and clay pockets 14* -10 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	et)	LOCATION: See Ocean Sur		Shear C (2)		eight Ft)			. o
Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets Olive gray fine sand with shell fragments and clay pockets 14* -10 - Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	Depth (Fe. Samples Penetration Resistance (Blows / Foundarined Strength (Kips / Fr	Drawing dated October 2, 19		Undrained S Strength (Kips / Ft	Moisture Content (9	Unit Dry W	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Si (%)
with shell fragments, and sand seams, partings, and pockets Olive gray fine sand with shell fragments and clay pockets 14* 8* -10 Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.			grav clav						
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		with shell fragments,	and sand		65				
Notes: 10 Notes: 11 Depth is referenced to penetration below seafloor. 20 Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 30 Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		country parotings, and p							
Notes: -30 - 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	5	Olive gray fine sand with fragments and clay poo	th shell ckets						14*
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 10 -		÷						8*
Notes: - 30 - - 25 - 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.									1*
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 15 -	×.							1*
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.				_			_		4*
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 20 -								
Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.								18	
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 25 -		=						
1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		Notos							
2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	- 30 -	1) Depth is reference	d to seafloor.						
3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		Cores were obtaine vibracoring method	d using s by						
vane tests performed on remolded samples.	- 35 -	Undrained shear st	rengths						
40 KEY		vane tests perform							
	40	KEY							

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 18'

LOG OF BORING NO. 231 Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 MATERIAL DESCRIPTION LABORATORY DATA FIELD DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / Ft) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 0.06 67 71 48 10 Olive gray fine sand with shell fragments and clay pockets 1* 2* 15 10* 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples.

Jar Sample

Mechanical Grain Size Analysis

KEY

Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 232 Isles Derniers Stabilization Project State Project 750-55-01

State Project 750-55-01								
FIELD DATA	MATERIAL DESCRIPTION		LABORATORY DATA					
et) Don Et. Shear	LOCATION: See Ocean Surveys, Inc.	Shear h t ²)	e €°	eight F t)		RBERG	eve	
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) Undrained Shea	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets		60					
- 10 -	Olive gray fine sand with shell fragments						1*	
15 -	Very soft to soft olive gray silty clay with sand pockets				_		75*	
- 20 - - 25 -	Notes:							
- 35 -	 Depth is referenced to penetration below seafloor. Cores were obtained using vibracoring methods by Ocean Surveys, Inc. Undrained shear strengths were obtained by miniature vane tests performed on remolded samples. 			·				

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 233
Isles Derniers Stabilization Project
State Project 750-55-01

	5001	-	10	07-13	State Project 750-55-01						
	FIE	LD	DATA		MATERIAL DESCRIPTION	LABORATORY DATA			ATA		
	Depth (Feet)	Samples	Penetration Resistance. (Blows / Et)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plasticity Plastic	Passing No. 200 Sieve (%)
L	1 4		g g @	Undi (X		P X	-0	<u> </u>	تَّ رَّة	PIa In	ž
					Olive gray silty fine sand with organics and mica						49**
	- 5				Very soft to soft olive gray clay with organics and sandy silt seams and pockets	0.02	64		48	27	56**
					Olive gray silty fine to fine sand with clay pockets and shell fragments						6*
	- 10 -										28**
	- 15 -										2*
								S			0*
	- 20 -					_			-		3*
	- 25 -										
	- 30 -				Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by						
	- 35 -				Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.				,		
H	- 40 -	Ш			KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19.5'

LOG OF BORING NO. 234
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

State Project /50-55-01									
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA							
Depth (Feet) Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	9 € 9	Unit Dry Weight (Lbs / Cu Ft)		IITS	oieve		
Depth (Feet) Samples Penetration Resistance (Blows / F.I.) Indrained She Strength (Kips / F. ¹²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / F1 ²)	Moisture Content (%)	Dry I	_ €	icity (%)	Passing No. 200 Siev (%)		
Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa S	1, 111	Judra St (Kip	¥ °°	(Lbs	Liquid Limit (%)	Plasticity Index (%)	٠. م		
	Very soft to soft olive gray clay	-			_				
	with shell fragments, and sand								
	seams, partings, and pockets								
- 5 -									
			52						
			52						
10	Olive gray fine sand with shell								
	fragments						24		
							2*		
- 15 -	- clay layer 14' to 15'		٠						
							5*		
- 20 -									
- 25 -									
						1			
	Notes:								
- 30 -	1) Depth is referenced to								
	penetration below seafloor. 2) Cores were obtained using								
	vibracoring methods by								
25	Ocean Surveys, Inc. 3) Undrained shear strengths								
- 35 -	were obtained by miniature								
	vane tests performed on								
	remolded samples.								
40	KEY								
Jar Sample									

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 20'

LOG OF BORING NO. 235
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPT	ION	LABORATORY DATA						
s lition Cross Shear th	LOCATION: See Ocean Sur	veys, Inc.	Undrained Shear Strength (Kips / Ft²)	رم» (م»)	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	Passing No. 200 Sieve (%)	
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	Drawing dated October 2, 19	87	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry S/C	biu (%)	Plasticity Index (%)	Passir 200 (%)	
Q	-		Und X	≥ 0	3 3	Lig	P.I.	Š	
- 5 - - 10 - - 15 - - 20 -	Very soft to soft olive with shell fragments, seams, partings, and partings. Notes: 1) Depth is reference	and sand	0.04	75	(Lb)	Liquid (%)	seld 55	. No.	
- 35 -	1) Depth is reference penetration below 2) Cores were obtaine vibracoring method Ocean Surveys, Inc 3) Undrained shear st were obtained by m vane tests perform remolded samples.	seafloor. d using s by rengths iniature							
40	KEY								

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 236
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

State Project /50-55-01								
MATERIAL DESCRIPTIO	N	LABORATORY DATA						
Drawing dated	Strength	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)			Passing No. 200 Sieve (%)		
with shell fragments, a	and sand	59						
						2* 6* 1* 12*		
penetration below so 2) Cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear stre were obtained by min	eafloor. using by engths niature							
	Notes: 1) Depth is referenced penetration below seams, partings, and possesses were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear striwere obtained by min vane tests performed.	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets Olive gray fine sand with shell fragments and clay pockets Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on		

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 20'

LOG OF BORING NO. 237
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA ATTERBERG						
Samples Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SIRN SIRN SIRN SIRN SIRN SIRN SIRN SIRN	Passing No. 200 Sieve (%)	
- 5 -	Very soft to soft olive gray silty clay with shell fragments, sand pockets, and organics	0.03	79		69	46	65**	
- 15 -			49		_			
- 20 - - 25 -								
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
40 40	KEY	1						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 239A Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 LABORATORY DATA MATERIAL DESCRIPTION FIELD DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Undrained Shear Undrained Shear Strength (Kips / Ft²) LIMITS Penetration Resistance (Blows / F.t) LOCATION: See Ocean Surveys, Inc. Strength (Kips / F1²) Depth (Feet) Moisture Content (%) Drawing dated Liquid Limit (%) October 2, 1987 Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 0.05 41 37 21 Olive gray fine sand with shell fragments and clay pockets 2* 10 1* 15 2* 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by

> Ocean Surveys, Inc. 3) Undrained shear strengths

> > remolded samples.

were obtained by miniature vane tests performed on

Jar Sample

35

40

Mechanical Grain Size Analysis

KEY

Hydrometer Analysis

COMPLETION DEPTH: 20'

LOG OF BORING NO. 239B Isles Derniers Stabilization Project State Project 750-55-01

100, 10	State Project 750-55-01									
FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA							ATA			
s s tion nce Ft) Shear ith	LOCATION: See Ocean Surv		Shear jth = (2)	ر%) (%)	Weight u F t)		RBERG MITS	og Sieve		
Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shea Strength (Kips / Ft²)	Drawing dated October 2, 198	87	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)		
	Very soft to soft olive with shell fragments, seams, partings, and p	and sand								
- 5 -				59						
10	Olive gray and dark gray with shell fragments a pockets	fine sand						2*		
- 15 -	pockets							8*		
		6						8*		
- 20 -										
- 25 -										
- 30 -	Notes: 1) Depth is referenced		-							
	penetration below : 2) Cores were obtained vibracoring method: 0cean Surveys, Inc	d using s by	-							
- 35 -	 Undrained shear standard by movere obtained by movered b	iniature								
40	KEY									

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 20'

LOG OF BORING NO. 240 Isles Derniers Stabilization Project State Project 750-55-01

State Project /50-55-01								
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA						
in in in in in in in in in in in in in i	LOCATION: See Ocean Surveys, Inc.	Shear h (²)	v €.	reight Ft)		RBERG	g ieve	
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Undrained Shea Strength (Kips / Et ²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets		51					
	Olive gray fine sand with shell fragments and clay pockets						6*	
- 15 -	•						7*	
- 20 -		-						
- 25 -								
- 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
40	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 19'

LOG OF BORING NO. 241

JOB NO. 1087-1328

LOG OF BORING NO. 241

Isles Derniers Stabilization Project

State Project 750-55-01

	State Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	ORY DA	ATA	
Samples Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	e € 0	Unit Dry Weight (Lbs / Cu Ft)		RBERG MITS	e ve
Depth (Feet) Samples Penetration Resistance. (Blows / Et) Indrained She Strength (Kips / Ft ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Init Dry Weigh (Lbs / Cu Ft)	უ <u>წ</u>	icity	Passing 200 Si (%)
Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa S	2, 230,	Indra St (Kip	Con	Lhit (Lbs	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	Very soft to soft olive gray clay	2					
	with shell fragments, and sand						
	seams, partings, and pockets						
- 5 -			47				
10 -	Olive gray fine sand with clay						
	pockets and shell fragments		2.				6*
							1*
- 15 -							
							3*
							2644
20							36**
- 20		- †					_
- 25 -							
	Notes:						
- 30 -	1) Depth is referenced to						
	penetration below seafloor. 2) Cores were obtained using						
	vibracoring methods by						
	Ocean Surveys, Inc. 3) Undrained shear strengths						
- 35 -	were obtained by miniature						
	vane tests performed on remolded samples.						
	remoraed samples.						
40 41	KEY						
lar Sample							

Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 20'

LOG OF BORING NO. 242 Isles Derniers Stabilization Project

State Project 750-55-01

State Project /50-55-01							
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA L ATTERBERG					
Samples Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc.	Undrained Shear Strength (Kips / Ft²)	é. €,	Unit Dry Weight (Lbs / Cu Ft)		MITS	Passing No. 200 Sieve (%)
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Indrained She Strength (Kips / Ft ²)	Drawing dated October 2, 1987	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry S/C	.5 €g	Plasticity Index (%)	Passing 200 Si (%)
Dep Pe Re Re S (Bic (Si (Ki (Ki (Ki (Ki (Ki (Ki (Ki (Ki (Ki (K		Undra S (Ki	Žο̈́	Unit Dr.) (Lbs /	Liquid Limit (%)	Plas	ů.
	Olive gray fine sand with shell		55				
	<pre>fragments and clay pockets - clay layer to 1'</pre>						
	- Clay layer to 1						
- 5 -							4*
							·
	Very soft to soft olive gray clay						
- 10	with shell fragments, and sand			 			4*
	seams, partings, and pockets						
- 15 -	*						
- 20 -							
- 25 -							
	Notes: 1) Depth is referenced to						
- 30 -	penetration below seafloor.						
	Cores were obtained using vibracoring methods by						
	Ocean Surveys, Inc.						
- 35 -	 Undrained shear strengths were obtained by miniature 					100	
	<pre>vane tests performed on remolded samples.</pre>						
	Temoraca Sampres.						
40 40	KEY						
	i						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JQB NQ. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. 243A Isles Derniers Stabilization Project

State Project 750-55-01

	State Project 750-55-01	
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA
Samples Samples Penetration Resistance. (Blows / F.t.) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft2) Moisture Content (%) Unit Dry Weight (Lbs / Cu Ft) Liquid Liquid Liquid Liquid Liquid Liquid No Soo Sieve (%)
- 5 -	Olive gray sandy silt	75*
- 10 -	Olive gray fine sand with shell fragments and clay pockets	19*
- 15 -		2*
- 25 -	Notes: 1) Depth is referenced to	
- 35 -	penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	
40	KEY	

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. 243B Isles Derniers Stabilization Project

State Project 750-55-01

	State Project	730-33-01						
FIELD DATA	MATERIAL DESCRIPTION	ON	LABORATORY DATA					
Depth (Feet) Samples Penetration Resistance. (Blows / F.t.) Strength (Kips / F.t. ²)	LOCATION: See Ocean Surv Drawing dated October 2, 198		Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SER	Passing No. 200 Sieve (%)
- 5 -	Very soft to soft olive with shell fragments, seams, partings, and p	and sand	0.03	89		77	50	
- 10 -	Olive gray fine sand wit fragments and clay sea							2* 2* 3*
- 15 - - 20 - - 25 - - 30 - - 35 - 40	Notes: 1) Depth is referenced penetration below so 2) Cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear str were obtained by mind vane tests performed remolded samples.	and sand pockets d to seafloor. d using s by rengths iniature						
	KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17.5'

LOG OF BORING NO. 244
Isles Derniers Stabilization Project
State Project 750-55-01

State Project 750-55-01									
FIELD	ATA	MATERIAL DESCRIPTI	ON	LABORATORY DATA					
et)	5hear h 1 ²)	LOCATION: See Ocean Surv	veys, Inc.	Undrained Shear Strength (Kips / F1 ²)	e €°	Unit Dry Weight (Lbs / Cu Ft)		RBERG	e :-
Depth (Feet) Samples Penetration	Resistance (Blows / Ft) ndrained She Strength (Kips / Ft ²)	Drawing dated October 2, 198	87	ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Zy V	ું કુલ	icity (%)	Passing . 200 Sieve (%)
Sar	Resistance (Blows / F.1) Undrained She Strength (Kips / Ft ²)	0000001 2, 130	<i>31</i>	Indra St (Kip	Con	Unit Dry (Lbs /	Liquid Limit (%)	Plasticity Index (%)	å . S
	٥	V 6: 1 6: 1:		ט	10		_		
		Very soft to soft olive with shell fragments,			43				
		seams, partings, and							
			•						-
5		Olive gray fine sand wit							
		fragments and clay poo	ckets						2*
- 10 📮									1*
									13*
- 15									4*
		Very soft to soft olive with shell fragments,							
		seams, partings, and p			60				
- 20 -									
							8		
						20	2		
- 25 -									
30		Notes: 1) Depth is referenced	d to						
- 30 -		penetration below	seafloor.						
		Cores were obtained vibracoring method							
		Ocean Surveys, Inc							
- 35 -		 Undrained shear st were obtained by m 							
		vane tests perform							
		remolded samples.			4				
40									
_ ,		KEY							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

LOG OF BORING NO. 245
Isles Derniers Stabilization Project
State Project 750-55-01

JUE	3 147	4. IL	707-13	State Project	750-55-01						
FIELD DATA MATERIAL DESCR					ON		L	ABORAT	ORY DA	ATA	-
Depth (Feet)	Samples	Penetration Resistance (Blows / Et)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surv Drawing dated October 2, 198	1.5	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity SER	Passing No. 200 Sieve (%)
- 5				Olive gray silty fine to sand with shell fragme - clay layer to 1'	o fine ents						49**
											1*
- 10				Very soft to soft olive with shell fragments, seams, partings, and p	and sand						
- 15 - 20 - 25 - 30 - 35				Notes: 1) Depth is referenced penetration below so cores were obtained vibracoring methods Ocean Surveys, Inc. 3) Undrained shear structure were obtained by min vane tests performe remolded samples.	to seafloor. dusing s by rengths iniature						<u>36*</u> *
_				KEY				8.			

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16'

LOG OF BORING NO. 246
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

	State Project /50-55-01						
FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	-		
Samples Samples Penetration Resistance. (Blows / Et) Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	LIM	RBERG	Passing . 200 Sieve (%)
Depth Sam Resi (Blow Undrain Str			Moi	Unit D (Lbs,	Liquid Limit (%)	Plasticity Index (%)	Pa: No. 20
	Very soft to soft olive gray clay with shell fragments and sand seams, partings, and pockets						
- 10 -	- sand layer 7' to 8.5'		45				10*
- 15 -	- sand layer 12.5' to 14'	<u> </u>					7*
- 20 -				2			
- 25 -							
- 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40	KEY	1					

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 16'

JOB NO. 1087-1328

LOG OF BORING NO. 247 Isles Derniers Stabilization Project

State	Project	750-55-01

	State Project /50-55-01											
	FIEL	D DATA		MATERIAL DESCRIPT	ION	LABORATORY DATA						
	(La la	ion Ce.	Shear h	LOCATION: See Ocean Sur		Undrained Shear Strength (Kips / F1 ²)	v €°	Unit Dry Weight (Lbs / Cu Ft)		RBERG	Passing No. 200 Sieve (%)	
	Depth (Feet) Samples	Penetration Resistance (Blows / F.t.)	ined trengl	Drawing dated October 2, 19		ndrained She Strength (Kips / Ft ²)	Moisture Content (%)	Dry V	_p€	icity	assin 200 S (%)	
	a C	Per (Bio	Undrained Shear Strength (Kips / Ft ²)			Undra S (Kiy	Ş	ارة ال	Liquid Limit (%)	Plasticity Index (%)	å.	
				Very soft to soft olive							7*	
				with shell fragments, seams, partings, and	and sand							
				- sand layer to 1'	pockets		n (i					
	- 5 -			Olive gray fine to silt sand with clay pocket							32**	
				shell fragments	3 and						32	
	- 10 -										48**	
				e 							3*	
				•								
	- 15 -			025							2*	
								0			12*	
									-			
	- 20 -											
					9							
	- 25 -											
				Notes: 1) Depth is reference	d +a							
	- 30 -			penetration below	seafloor.							
				Cores were obtaine vibracoring method								
	- 35 -			Ocean Surveys, Inc 3) Undrained shear st								
	33 7			were obtained by m	iniature							
				<pre>vane tests perform remolded samples.</pre>	lea on							
	40											
1.	_			KEY				¥				

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18'

LOG OF BORING NO. 248
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01 LABORATORY DATA MATERIAL DESCRIPTION FIELD DATA ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Passing No. 200 Sieve (%) LIMITS LOCATION: See Ocean Surveys, Inc. Penetration Resistance (Blows / Ft) Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray fine sand with shell fragments and clay seams 0.01 56 35 17 - sandy silt layer to 1.5' 5 7* 8* 10 6* 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples.

Jar Sample

40

Mechanical Grain Size Analysis

KEY

Hydrometer Analysis

COMPLETION DEPTH: 16'

LOG OF BORING NO. 249
Isles Derniers Stabilization Project
State Project 750-55-01

L	500) 14T	2. 10	707-13	State Project 750-55-01						
L	F	IELI	D DATA		MATERIAL DESCRIPTION						
	Depth (Feet)	Samples	Penetration Resistance (Blows / Et)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Index (%)	Passing No. 200 Sieve (%)
	- 5				Olive gray silty fine sand with shell fragments and clay pockets		49				53**
	- 10 - 15 - 20				Olive gray sandy silt with clay pockets and shell fragments		54		_		48* 64**
	- 35 - 35 - 40				Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
	-				KEY						

- Jar Sample
- Mechanical Grain Size Analysis
- Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 18'

JOB NO. 1087-1328

LOG OF BORING NO. 250
Isles Derniers Stabilization Project
State Project 750-55-01

			State Project 750-55-01								
FI	ELD DATA	1	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA			
Depth (Feet)	Penetration Resistance (Blows / E.1)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity CHRS LINGEX (%)	Passing No. 200 Sieve		
- 5			Olive gray clayey sand, slightly silty, with shell fragments						47**		
- 10 - 15 - 20 - 25 - 30 - 35 - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 4			Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.		50				46** 4* 1*		
70			KEY								

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 18'

LOG OF BORING NO. 251 Isles Derniers Stabilization Project State Project 750-55-01

51515 5474		JAROPATORY BATA						
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA L ATTERBERG						
es trion nce 'Ft) I Shear	LOCATION: See Ocean Surveys, Inc. Drawing dated	Shear sth	ક €	Weight u F t)		41TS	Sieve	
Depth (Feet) Samples Penetration Resistance (Blows / F.1) Undrained Shear Strength (Kips / F t ²)	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)	
j	W. G. J.	<u>ځ</u>		3 0	75	<u>a</u> -	Z	
	Very soft to soft olive gray clay with shell fragments, and sand							
	seams, partings, and pockets - sand layer 2' to 3'						11*	
- 5 -	Sund Tuyer 2 00 5							
- 10 -				=				
			8					
			56					
- 15 -								
- 20 -								
- 25 -								
	Notes:							
- 30 -	 Depth is referenced to 							
	penetration below seafloor. 2) Cores were obtained using							
	vibracoring methods by Ocean Surveys, Inc.							
- 35 -	Undrained shear strengths							
	were obtained by miniature vane tests performed on							
	remolded samples.							
40 1	KEY						-	
Jar Sample								

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16'

LOG OF BORING NO. 252 Isles Derniers Stabilization Project State Project 750-55-01

ı	JOB NO. 1007-	State Project 750-55-01						
I	FIELD DATA	MATERIAL DESCRIPTION		L	ABORA	TORY D	ATA	
	Feet) es ation ance. / Ft) d Shear	LOCATION: See Ocean Surveys, Inc. Drawing dated	d Shear igth F (²)	ure t (%)	(Weight	LIA	RBERG	ing Sieve
	Depth (Feet) Samples Penetration Resistance (Blows / Et) Undrained Shear Strength	October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
	- 5 - - 10 - - 15 - - 20 - - 25 - - 30 - - 35 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	0.05	71		72	48	
ľ	40 40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16'

LOG OF BORING NO. 253
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

_	State Project /50-55-01											
L	FIE	LD DAT	Δ	MATERIAL DESCRIPTI	ON	LABORATORY DATA						
	eet)	i jo	Shear th	LOCATION: See Ocean Sur	veys, Inc.	Shear th t ²)	9. 19.	reight Ft)		RBERG MITS	ieve	
	Depth (Feet)	Penetration Resistance. (Blows / F.1)	Undrained Shea Strength (Kips / Ft ²)	Drawing dated October 2, 198	87	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve	
I				Olive gray silty fine sa slightly clayey with s fragments	shell						47**	
	- 5			Olive gray sandy silt, s clayey, with shell fra							76**	
	- 10 -			Very soft to soft olive with shell fragments, seams, partings, and p	and sand		48					
	- 15 -								_			
	- 20 -											
	- 25 -											
	- 30 - - 35 -			Notes: 1) Depth is referenced penetration below serviced penetration below	seafloor. d using s by rengths iniature							
	- 40 - -			KEY								

Jar Sample

- Mechanical Grain Size Analysis
- Hydrometer Analysis

COMPLETION DEPTH: 17'

LOG OF BORING NO. 254
Isles Derniers Stabilization Project
State Project 750-55-01

L	500	, 14	2. 10	707-13	State Project 750-55-01	State Project 750-55-01						
L	F	IELI	D DATA		MATERIAL DESCRIPTION	LABORATORY DATA						
	Depth (Feet)	Samples	Penetration Resistance (Blows / F.t)	Undrained Shear Strength (Kips / Ft ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity LINGEX (%)	Passing No. 200 Sieve (%)	
	- 5				Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets							
	- 10	-			Olive gray silty fine sand, slightly clayey, with shell fragments						56**	
	- 15 - 20 - 25 - 30 - 35				Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.							
1					KEY							

Jar Sample

- Mechanical Grain Size Analysis
- Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 16.5'

LOG OF BORING NO. 255
Isles Derniers Stabilization Project

JOB NO. 1087-1328 State Project 750-55-01

FIFID DATA				30000 110,1000 730-33-01						
T -	IEL	D DATA		MATERIAL DESCRIPTION						_
eet)	s	ion Frt)	Shear th (2)	LOCATION: See Ocean Surveys, Inc.	Shear h t ²)	e € 9	eight Ft)			9
Depth (F.	Sample	Penetrat Resistan (Blows /	Undrained Strengt (Kips / F	Drawing dated October 2, 1987	Indrained Strengt (Kips / Fi	Moisture Content (Unit Dry W	Liquid imit (%)	Plasticity Index (%)	Passing No. 200 Sieve
+	7]				ш-	
				Olive gray silty fine sand with clay pockets						59**
- 5										13
- 10	-			V Co. A.						64**
				Wery soft to soft olive gray clay with sand seams, partings, and pockets and shell fragments						
- 15										
- 20										
- 25										
- 30				Notes: 1) Depth is referenced to						
30				penetration below seafloor. 2) Cores were obtained using vibracoring methods by						
- 35				 Undrained shear strengths were obtained by miniature 						
- 40 ·				remolded samples.						
	- 5 - 10 - 20 - 25 - 30	- 5 25 30 35 35	Samples - 20 25 30 35	- 5 - - 10 - - 15 - - 20 - - 35 - - 35 -	Company of the second of the	Location: See Ocean Surveys, Inc. Drawing dated October 2, 1987 Drawing dated October 2,	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.	Cocation: See Ocean Surveys, Inc. Drawing dated October 2, 1987 Drawing dated October 2,	See Ocean Surveys, Inc. Drawing dated October 2, 1987 Dr	Company of the second

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

20' COMPLETION DEPTH:

JOB NO. 1087-1328

LOG OF BORING NO. 256
Isles Derniers Stabilization Project

State Project 750-55-01 FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA ATTERBERG LIMITS Undrained Shear Strength (Kips / Ft²) Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing No. 200 Sieve (%) Penetration Resistance. (Blows / F.t) LOCATION: See Ocean Surveys, Inc. Depth (Feet) Moisture Content (%) Drawing dated Plasticity Index (%) Liquid Limit (%) October 2, 1987 Olive gray fine sand with shell fragments and clay pockets 8* Very soft to soft olive gray clay with sand seams, partings, and 5 pockets and shell fragments 10 45 15 61 41 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample Mechanical Grain Size Analysis ** Hydrometer Analysis COMPLETION DEPTH:

LOG OF BORING NO. 257
Isles Derniers Stabilization Project
State Project 750-55-01

L	State Project 750-55-01										
L	F	IEL	D DATA		MATERIAL DESCRIPTION		١	ABORA	TORY D	ATA	
	eet)	es es	ution Ince. / Ft)	1 Shear gth F t ²)	LOCATION: See Ocean Surveys, Inc. Drawing dated	Shear gth = 12)	ē €,	Weight u F t)		RBERG	ojeve Sieve
	Depth (Feet)	Samples	Penetration Resistance. (Blows / Ft)	Undrained Shear Strength (Kips / Ft ²)	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve (%)
Γ		-			Olive gray fine sand with shell fragments and clay pockets						
		4			Tragments and cray pockets						
	- 5	1									34**
	- 10										4*
	- 15				• -						7*
		H				_		_			<u>3</u> *
	- 20	3		l							
	20						l				
		\exists									
	- 25	4									
		$\exists $			Notes:						
	- 30][Depth is referenced to penetration below seafloor.						
		-			2) Cores were obtained using vibracoring methods by						
	- 35				Ocean Surveys, Inc. 3) Undrained shear strengths						
	33				were obtained by miniature vane tests performed on						
		$\exists $			remolded samples.						
Г	- 40 ·				KEY						_
	Jar Sample										

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. "A"
Isles Derniers Stabilization Project
State Project 750-55-01 JOB NO. 1087-1328

300 NO. 100/-1.	State Project 750-55-01	0-55-01					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
Samples Samples Penetration Resistance (Blows / Ft) Undrained Shear Strength (Kips / Ft²)	LOCATION: See Ocean Surveys, Inc. Drawing dated October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)		Plasticity Plast	Passing No. 200 Sieve (%)
- 5 -	Olive gray and dark gray silty fine sand with clay pockets and shell fragments - sandy silt below 6.5'					= ,	58** 75**
- 10 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 20 - - 25 - - 30 - - 35 - - 40	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						

KEY

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 17'

LOG OF BORING NO. "B" Isles Derniers Stabilization Project JQB NQ. 1087-1328 State Project 750-55-01 FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA ATTERBERG Unit Dry Weight (Lbs / Cu Ft) Undrained Shear Strength (Kips / Ft²) Undrained Shear Passing . 200 Sieve (%) LIMITS Penetration Resistance (Blows / Ft) LOCATION: See Ocean Surveys, Inc. Strength (Kips / Ft²) Depth (Feet) Moisture Content (%) Samples Drawing dated Plasticity Index (別) October 2, 1987 ů. Olive gray fine sand 1* Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets 5 50 10 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample

* Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 18.5'

JOB NO. 1087-1328

LOG OF BORING NO. "C"
Isles Derniers Stabilization Project
State Project 750-55-01

FIELD DATA MATERIAL DESCRIPTION LABORATORY DATA Undrained Shear Strength (Kips / Ft²) ATTERBERG Undrained Shear Strength (Kips / Ft²) Unit Dry Weight (Lbs / Cu Ft) Passing . 200 Sieve (%) Penetration Resistance. (Blows / F.t) LIMITS LOCATION: See Ocean Surveys. Inc. Moisture Content (%) Drawing dated Liquid Limit (%) October 2, 1987 Š. Dark gray fine sand with shell fragments 5* Very soft to soft olive gray clay with shell fragments, and sand 5 seams, partings, and pockets 10 - with sand layer 11.5' to 13' 1* 15 20 25 Notes: 1) Depth is referenced to 30 penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths 35 were obtained by miniature vane tests performed on remolded samples. 40 KEY Jar Sample Mechanical Grain Size Analysis Hydrometer Analysis COMPLETION DEPTH:

JOB NO. 1087-1328

LOG OF BORING NO. "D"
Isles Derniers Stabilization Project
State Project 750-55-01

	State Project /50-55-01	_					
FIELD DATA	MATERIAL DESCRIPTION	LABORATORY DATA					
ss tion tion Et) Shear gih	LOCATION: See Ocean Surveys, Inc.	Shear th	v €°	eight Ft)		RBERG MITS	g ieve
Depth (Feet) Samples Penetration Resistance. (Blows / Ft) Undrained Shear Strength (Kips / Ft ²)	Drawing dated October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve
	Olive gray clayey silt with mica						92**
- 5 -	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets						
- 15 -			52				
- 20 -		-			_		
- 25 -	Notes:						
- 35 -	1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
Jar Sample							

* Mechanical Grain Size Analysis

** Hydrometer Analysis

COMPLETION DEPTH: 18.5'

LOG OF BORING NO. "E" Isles Derniers Stabilization Project

State Project 750-55-01

State Project 750-55-01							
FIELD DATA				ATA			
est) ttian ttian nce Ft1	LOCATION: See Ocean Surveys, Inc. Drawing dated	Shear tth - (2)	∮ €	Weight u F t)		RBERG MITS	e ve
Depth (Feet) Samples Penetration Resistance (Blows / F.t) Undrained Shear Strength (Kips / Ft ²)	October 2, 1987	Undrained Shear Strength (Kips / Ft ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve
	Very soft to soft olive gray clay with shell fragments, and sand seams, partings, and pockets - sand layer 2' to 3.5'						3*
- 5 -	- fine sand 5' to 6'						46**
10 -			55				
	Olive gray fine sand with clay pockets						2*
- 15 -	Very soft to soft olive gray clay with shell fragments and sand seams						_
- 20 -							
- 25 -							
	Notes:						
- 30 -	1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by						
- 35 -	Ocean Surveys, Inc. 3) Undrained shear strengths were obtained by miniature vane tests performed on remolded samples.						
40	KEY						

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

JOB NO. 1087-1328

COMPLETION DEPTH: 17'

LOG OF BORING NO. "F"
Isles Derniers Stabilization Project
State Project 750-55-01

JOB NO. 1087-1328

	State Project /50-55-01							
FIELD DATA MATERIAL DESCRIPTION			LABORATORY DATA					
es ation ance. / F.t.)	LOCATION: See Ocean Surveys, Inc. Drawing dated	J Shear gth F (²)	(%)	Weight u Ft)		RBERG	ng Sieve	
Depth (Feet) Samples Penetration Resistance (Blows / Ft) Undrained Shea Strength (Kips / Ft ²)	October 2, 1987	Undrained Shear Strength (Kips / F1 ²)	Moisture Content (%)	Unit Dry Weight (Lbs / Cu Ft)	Liquid Limit (%)	Plasticity Index (%)	Passing No. 200 Sieve	
	Olive gray silty fine to fine sand with shell fragments and clay pockets						39**	
- 5 -	- clay layer 6' to 8'	200	71					
- 10 -							8*	
- 15 -	rs.						2*	
- 20 -							11*	
- 25 -	Nahaa							
- 30 -	Notes: 1) Depth is referenced to penetration below seafloor. 2) Cores were obtained using vibracoring methods by Ocean Surveys, Inc. 3) Undrained shear strengths							
40	were obtained by miniature vane tests performed on remolded samples.							

Jar Sample

Mechanical Grain Size Analysis

Hydrometer Analysis

COMPLETION DEPTH: 20'

			8
- 3			
2.0			
2			