

## SECTION 00220

## GEOTECHNICAL DATA

## PART ONE - GENERAL

## 1.01 RELATED REQUIREMENTS

- A. General Conditions.

## 1.02 SUBSURFACE EXPLORATIONS

- A. General: Subsurface explorations were conducted for this project by Morrison Geotechnical Engineering of Winslow, Maine, hereinafter referred to as the Engineer.
- B. Availability: The exploration reports are appended to this specification section.
  - 1. Boring logs by Guild Drilling Company, Inc.
  - 2. Exploration Reports by Morrison Geotechnical Engineering.
- C. Use of Data: This data, which presents results of investigations and tests of subsurface conditions at the site, and which may affect cost, progress, or performance of the work, have been relied upon by the Engineer in preparation of the Project Manual and Drawings. This data is not guaranteed as to accuracy or completeness and are attached to these Contract Documents for reference purposes only. The data is available for bidders' information, but is not warranty of subsurface conditions.

## 1.03 EXISTING CONDITIONS

- A. Bidders should visit the site and acquaint themselves with all existing conditions. Prior to bidding, bidders may make additional investigations to satisfy themselves as to site and subsurface conditions, but all such investigations shall be arranged in advance with the Engineer or the Owner.

## 1.04 UNFORSEEN SUBSURFACE CONDITIONS

- A. The Contractor shall promptly notify the Engineer of any subsurface conditions at the site differing materially from those indicated or referred to in the Contract Documents. Should, following review and additional investigations and tests as may be deemed necessary, the Engineer find that the results of such investigations and tests indicate that there are subsurface conditions which differ materially from those

Section 00220 - Page 2

intended in the Contract Documents, and which could not reasonably have been anticipated by the Contractor, a Change Order will be issued incorporating the necessary revisions.

PART TWO - PRODUCTS

Not Used

PART THREE - EXECUTION

Not Used

END OF SECTION

# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

SHEET 1 OF 2

DATE \_\_\_\_\_

HOLE NO. B-1

LINE & STA. \_\_\_\_\_

OFFSET \_\_\_\_\_

SURF. ELEV. -27' MLW

TO Morrison Geotechnical Engineering ADDRESS Winslow, Maine  
 PROJECT NAME Proposed Dock LOCATION Eastport, Maine  
 REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO Taken at Site OUR JOB NO. 84-8

GROUND WATER OBSERVATIONS		Rods "AW" CASING	SAMPLER	CORE BAR	Date	Time
At <u>Tidal</u>	after _____ Hours	Type <u>BW</u>	<u>S/S</u>	_____	START <u>6/8/83</u>	_____ o.m.
At _____	after _____ Hours	Size I.D. <u>2 1/2"</u>	<u>1 3/8"</u>	_____	COMPLETE <u>6/8/83</u>	_____ p.m.
		Hammer Wt. <u>300#</u>	<u>140#</u>	BIT _____	TOTAL HRS. _____	
		Hammer Fall <u>24"</u>	<u>30"</u>	_____	BORING FOREMAN <u>J. Phillips</u>	
					INSPECTOR <u>P. Foster</u>	
					SOILS ENGR. _____	

**LOCATION OF BORING:**

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No.	Pen	Rec.
		0'-2'	D	WOR	WOH&R	3			Brown fine to coarse SAND, tr. fine gravel, tr. silt Casing dropped 1' while washing out	1	24'	4"
		6'		Bobbed Sample					Sand ran 1'9" into casing @ 6'	2	-	12'
		10'-11'6"	D		7	6		13'		3	18'	6"
		15'-16'6"	D		30	17		16'	Brown fine to coarse SAND, little fine to medium gravel, little silt	4	18'	13"
		20'-21'6"	D		1	2		25'6"	Gray silty CLAY, tr. sand lenses	5	18'	18"
		25'-26'6"	D		1	6		36'	Brown fine to coarse SAND, trace silt	6	18'	12"
		30'-		No sample					(Sand ran into casing 2' at 30')			
		35'-36'6"	D		16	17			Brown fine to medium SAND, little silt, tr. fine gravel (sand ran into casing 5')	7	18'	18"

GROUND SURFACE TO 50' USED 2 1/2" CASING: THEN OER to 54'6"

Sample Type D=Dry C=Cored W=Washed UP=Undisturbed Piston TP=Test Pit A=Auger V=Vane Test UT=Undisturbed Thinwall	Proportions Used trace 0 to 10% little 10 to 20% some 20 to 35% and 35 to 50%	140lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density 0-10 Loose 10-30 Med. Dense 30-50 Dense 50+ Very Dense
		Cohesive Consistency 0-4 Soft 30+ Hard 4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff

SUMMARY:  
 Earth Boring 43'6"  
 Rock Coring 8  
 Samples \_\_\_\_\_  
**HOLE NO B-1**

# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

SHEET 2 OF 2

TO \_\_\_\_\_ ADDRESS \_\_\_\_\_  
 PROJECT NAME \_\_\_\_\_ LOCATION \_\_\_\_\_  
 REPORT SENT TO \_\_\_\_\_ PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO \_\_\_\_\_ OUR JOB NO. 84-8

DATE \_\_\_\_\_  
 HOLE NO. B-1  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. \_\_\_\_\_

GROUND WATER OBSERVATIONS	CASING	SAMPLER	CORE BAR.	Date	Time
At _____ after _____ Hours	Type _____	_____	_____	START _____	a.m.
At _____ after _____ Hours	Size I.D. _____	_____	_____	COMPLETE _____	p.m.
	Hammer Wt. _____	_____	BIT _____	TOTAL HRS. _____	p.m.
	Hammer Fall _____	_____	_____	BORING FOREMAN _____	
				INSPECTOR _____	
				SOILS ENGR. _____	

**LOCATION OF BORING:**

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	To 6-12	To 12-18				No.	Pen	Rec.
		40'		No	Sample							
		45'-46'6"	D	21	22	53			Brown fine to medium SAND, little silt, trace of fine gravel, trace of cobbles	8	18'	3"
								54'6"	(Drove O.E. Rod (AW) from 46'6" to Refusal at 54'6")			
									Refusal - Bottom of Boring 54'6"			
									WOR=Weight of Rods WOH&R = Weight of Hammer & Rods			

GROUND SURFACE TO _____	USED _____	"CASING: THEN _____	
Sample Type D=Dry C=Cored W=Washed UP=Undisturbed Piston TP=Test Pit A=Auger V=Vane Test UT=Undisturbed Thinwall	Proportions Used trace 0 to 10% little 10 to 20% some 20 to 35% and 35 to 50%	140lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density 0-10 Loose 10-30 Med. Dense 30-50 Dense 50+ Very Dense	Cohesive Consistency 0-4 Soft 30+ Hard 4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff
			SUMMARY: Earth Boring _____ Rock Coring _____ Samples _____
			HOLE NO B-1

# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

SHEET 1 OF 2  
 DATE \_\_\_\_\_  
 HOLE NO. B-2  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. -28' MLW

TO Morrison Geotechnical Eng. ADDRESS Winslow, Maine  
 PROJECT NAME Proposed Dock LOCATION Eastport, Maine  
 REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO Taken at Site OUR JOB NO. 84-8

GROUND WATER OBSERVATIONS At <u>Tidal</u> after _____ Hours At _____ after _____ Hours	Rods "AW" CASING Type <u>BW</u> Size I.D. <u>2 1/2"</u> Hammer Wt <u>300#</u> Hammer Fall <u>24"</u>	SAMPLER <u>S/S</u> <u>1 3/8"</u> <u>140#</u> <u>30"</u>	CORE BAR _____ _____ BIT	Date _____ Time _____ START <u>6/11/83</u> _____ a.m. COMPLETE <u>6/11/83</u> _____ a.m. TOTAL HRS. _____ BORING FOREMAN <u>J. Phillips</u> INSPECTOR <u>P. Foster</u> SOILS ENGR. _____
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**LOCATION OF BORING:**

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No.	Pen	Rec.
		0'-2'	D	WOH&R	1	0				-	24'	0
		2'-4'	D		1	2			Brown fine to coarse SAND, trace fine gravel, tr. silt	1	24'	6"
		5'-7'	D		3	3				2	24'	6"
		9'6"-11'6"	D		6	8		8'	(Casing drove harder)	3	24'	6"
		14'6"-16'6"	D		4	3				4	24'	12"
		21'-23'	D		6	11				5	24'	9"
		26'-26'6"		(Cobble)				23'6"	(Casing drove harder) Cobble- broke w/chopping bit			
		27'-29'	D		22	24				6	24'	18"
		32'6"-34'6"	D		6	6				7	24'	12"
		37'6"-39'7"	D		6	6				8	24'	18"

GROUND SURFACE TO <u>46'6"</u> Sample Type D=Dry C=Cored W=Washed UP=Undisturbed Piston TP=Test Pit A=Auger V=Vane Test UT=Undisturbed Thinwall	USED <u>2 1/2"</u> CASING: THEN <u>Refusal</u> Proportions Used trace 0 to 10% little 10 to 20% some 20 to 35% and 35 to 50%	140lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density 0-10 Loose 10-30 Med. Dense 30-50 Dense 50+ Very Dense	Cohesive Consistency 0-4 Soft 30+ Hard 4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff	SUMMARY: Earth Boring <u>46'6"</u> Rock Coring _____ Samples <u>8</u> HOLE NO <u>B-2</u>
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# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

TO Morrison Geotechnical Engineering ADDRESS Winslow, Maine  
 PROJECT NAME Proposed Dock LOCATION Eastport Maine  
 REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO Taken at Site OUR JOB NO. 84-8

SHEET 1 of 2  
 DATE \_\_\_\_\_  
 HOLE NO. B-3  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. -26.5' MLW

GROUND WATER OBSERVATIONS		Rods "AW" CASING	SAMPLER	CORE BAR Hi Core	Date	Time
At <u>Tidal</u>	after _____ Hours	Type <u>BW</u>	<u>S/S</u>	<u>200</u>	START <u>6/9/83</u>	_____ a.m.
At _____	after _____ Hours	Size I.D. <u>2 1/2"</u>	<u>1 3/8"</u>	<u>1 3/8"</u>	COMPLETE <u>6/9/83</u>	_____ p.m.
		Hammer Wt <u>300#</u>	<u>140#</u>		TOTAL HRS. _____	_____ p.m.
		Hammer Fall <u>24"</u>	<u>30"</u>	BIT Dia. _____	BORING FOREMAN <u>J. Phillips</u>	
					INSPECTOR <u>P. Foster</u>	
					SOILS ENGR. _____	

### LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	To 6-12	To 12-18				No.	Pen	Rec.
		0'-2'	D	WOH&R						-	24'	0
		3'-5'	D		6	6	6		Brown fine to coarse SAND, little silt, trace fine gravel	1	24'	8"
							6					
		8'-10'	D		22	11	10			2	24'	12"
							12					
		15'-17'	D		27	17	19			3	24"	8"
							17					
		22'-24'	D		17	19	15			4	24"	9"
							17					
		28'-30	D		11	9	10			5	24"	3'
							11					
		35'6"-37'7"	C					32'	Sand ran 6' into casing. Bobbed spoon for sample No rec.  Brown fine to medium SAND, trace of silt (indicated by casing wash)	C	25"	25'

GROUND SURFACE TO 35'6" USED BW "CASING: THEN Cored & AW O.E. Rod to Refusal

Sample Type  
 D=Dry C=Cored W=Washed  
 UP=Undisturbed Piston  
 TP=Test Pit A=Auger V=Vone Test  
 UT=Undisturbed Thinwall

Proportions Used  
 trace 0 to 10%  
 little 10 to 20%  
 some 20 to 35%  
 and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler  
 Cohesionless Density  
 0-10 Loose  
 10-30 Med. Dense  
 30-50 Dense  
 50+ Very Dense  
 Cohesive Consistency  
 0-4 Soft  
 4-8 M/Stiff  
 8-15 Stiff  
 15-30 V-Stiff  
 30+ Hard

SUMMARY:  
 Earth Boring 49'5"  
 Rock Coring 2'1"  
 Samples 5

HOLE NO B-3



# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

SHEET 1 OF 2  
 DATE \_\_\_\_\_  
 HOLE NO. B-4  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. -31' MLW

TO Morrison Geotechnical Engineering ADDRESS Winslow, Maine  
 PROJECT NAME Proposed Dock LOCATION Eastport, Maine  
 REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO Taken at Site OUR JOB NO. 84-8

GROUND WATER OBSERVATIONS		Rods - "AW" Type _____ Size I.D. _____ Hammer Wt. _____ Hammer Fall _____	CASING BW _____ 2 1/2" _____ 300# _____ 24" _____	SAMPLER S/S _____ 1 3/8" _____ 140# _____ 30" _____	CORE BAR. _____ _____ _____ BIT _____	Date	Time
At <u>Tidal</u>	after _____ Hours					START <u>6/13/83</u>	_____ a.m.
At _____	after _____ Hours	COMPLETE <u>6/13/83</u>	_____ p.m.	TOTAL HRS. _____	BORING FOREMAN <u>J. Phillips</u>	INSPECTOR _____	SOILS ENGR. _____

### LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock - color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec.
		0'-2'	D	1	2	5		Brown fine to medium SAND, trace of fine to medium gravel, trace of silt	1	24'	8"	
		6'-8'	D	51	18	15			(Pushed Cobble)	2	24'	8"
		11'-13'	D	15	7	7				3	24'	24"
		16'-18'	D	9	5	6		19'	4	24'	5"	
		22'-24'	D	21	15	18		Brown fine to medium SAND, little silt, trace of fine to medium gravel	5	24'	11"	
		28'-30'	D	79	18	11			6	24'	6"	
		33'6"-35'6"	D	15	10	9			7	24'	14"	

GROUND SURFACE TO <u>47'</u>		USED <u>BW</u>	"CASING: THEN <u>Sampled &amp; O.E. Rod</u>
Sample Type D=Dry C=Cored W=Washed UP=Undisturbed Piston TP=Test Pit A=Auger V=Vane Test UT=Undisturbed Thinwall	Proportions Used trace 0 to 10% little 10 to 20% some 20 to 35% and 35 to 50%	140lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density 0-10 Loose 10-30 Med. Dense 30-50 Dense 50+ Very Dense	Cohesive Consistency 0-4 Soft 30+ Hard 4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff
			SUMMARY: Earth Boring <u>51'6"</u> Rock Coring _____ Samples <u>9</u>
			HOLE NO <u>B-4</u>

# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R I

SHEET 2 OF 2  
 DATE \_\_\_\_\_  
 HOLE NO. B-4  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. \_\_\_\_\_

TO \_\_\_\_\_ ADDRESS \_\_\_\_\_  
 PROJECT NAME \_\_\_\_\_ LOCATION \_\_\_\_\_  
 REPORT SENT TO \_\_\_\_\_ PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO \_\_\_\_\_ OUR JOB NO. 84-8

GROUND WATER OBSERVATIONS			CASING	SAMPLER	CORE BAR	Date	Time
At _____	after _____	Hours	Type _____	_____	_____	START _____	a.m.
At _____	after _____	Hours	Size i D. _____	_____	_____	COMPLETE _____	p.m.
			Hammer Wt _____	_____	_____	TOTAL HRS. _____	
			Hammer Fall _____	_____	_____	BORING FOREMAN _____	
					BIT _____	INSPECTOR _____	
						SOILS ENGR. _____	

**LOCATION OF BORING:** \_\_\_\_\_

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	12-18				No.	Pen	Rec.
		39'6"-41'6"	D	31	21	24		Brown fine to medium SAND, little silt, trace of fine to medium gravel	8	24'	8"	
						19						
		47'-49'	D	14	11	12		51'6"	9	24'	11"	
						12						
		49'-51'6"	Drove O.E. Rod					Bottom of Boring 51'6"  (ran out of rods)				

GROUND SURFACE TO _____	USED _____	"CASING: THEN _____	SUMMARY:
Sample Type	Proportions Used	140lb Wt. x 30" fall on 2" O.D. Sampler	Earth Boring _____
D=Dry C=Cored W=Washed	trace 0 to 10%	Cohesionless Density	Rock Coring _____
UP=Undisturbed Piston	little 10 to 20%	0-10 Loose	Samples _____
TP=Test Pit A=Auger V=Vane Test	same 20 to 35%	10-30 Med. Dense	
UT=Undisturbed Thinwall	and 35 to 50%	30-50 Dense	
		50+ Very Dense	
		0-4 Soft 30+ Hard	
		4-8 M/Stiff	
		8-15 Stiff	
		15-30 V-Stiff	

HOLE NO B-4

# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R. I.

TO Morrison Geotechnical Engineering ADDRESS Winslow, Maine  
 PROJECT NAME Proposed Dock LOCATION Eastport, Maine  
 REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO Taken at Site OUR JOB NO. 84-8

SHEET 1 OF 1  
 DATE \_\_\_\_\_  
 HOLE NO. B-5  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. -45' MLW

GROUND WATER OBSERVATIONS		Rods - "AW" Type _____ Size I.D. _____ Hammer Wt. _____ Hammer Fall _____	CASING BW <u>2 1/2"</u> 300# 24"	SAMPLER S/S 1 3/8" 140# 30"	CORE BAR _____ _____ BIT	Date	Time
At _____ after _____ Hours	START <u>6/14/83</u> _____ a.m. p.m.						
At _____ after _____ Hours	COMPLETE <u>6/14/83</u> _____ a.m. p.m.	TOTAL HRS. _____		BORING FOREMAN <u>J. Phillips</u>		INSPECTOR _____	
Tidal		SOILS ENGR. _____					

## LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strata Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No.	Pen	Rec.
		0'-2'	D	1	2	2		Brown fine to medium SAND, trace of fine to medium gravel, trace of silt	1	24'	11"	
		6'6"-8'6"	D	4	5	4		" some silt	2	24'	8"	
		11'-13'	D	13	19	10		15'	3	24'	18"	
		15'6"-17'	D	4	8	8		Note: Client wanted to core hole. Tide was rising. Drove O.E. Rod in an attempt to fine refusal before tide rose another 15'. This was to utilize all the rods at the lowest tide	4	18'	18"	
								44'				
								Bottom of Boring 44'				
								(no refusal)				

GROUND SURFACE TO <u>15'6"</u>		USED <u>BW</u> "CASING: THEN <u>Sampled then drove O.E. Rod</u>
Sample Type D=Dry C=Cored W=Washed UP=Undisturbed Piston TP=Test Pit A=Auger V=Vane Test UT=Undisturbed Thinwall	Proportions Used trace 0 to 10% little 10 to 20% some 20 to 35% and 35 to 50%	140lb Wt. x 30" fall on 2" O.D. Sampler Cohesionless Density 0-10 Loose 10-30 Med. Dense 30-50 Dense 50+ Very Dense Cohesive Consistency 0-4 Soft 30+ Hard 4-8 M/Stiff 8-15 Stiff 15-30 V-Stiff
		SUMMARY: Earth Boring <u>44'</u> Rock Coring _____ Samples <u>4</u>
		HOLE NO <u>R-5</u>

# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R I

TO Morrison Geotechnical Engineering ADDRESS Winslow, Maine  
 PROJECT NAME Proposed Dock LOCATION Eastport, Maine  
 REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO Taken at Site OUR JOB NO. 84-8

SHEET 1 of 1  
 DATE \_\_\_\_\_  
 HOLE NO. B-6  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. -39' MLW

GROUND WATER OBSERVATIONS At <u>Tidal</u> after _____ Hours At _____ after _____ Hours	Rods-"AW" Type <u>BW</u> Size I.D. <u>2 1/2"</u> Hammer Wt. <u>300#</u> Hammer Fall <u>24"</u>	CASING <u>BW</u>	SAMPLER <u>S/S</u> <u>1 3/8"</u> <u>140#</u> <u>30"</u>	CORE BAR _____ _____ BIT	Date _____ Time _____ START <u>6/12/83</u> <u>_____</u> a.m. COMPLETE <u>6/12/83</u> <u>_____</u> p.m. TOTAL HRS. _____ BORING FOREMAN <u>J. Phillips</u> INSPECTOR _____ SOILS ENGR. _____
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**LOCATION OF BORING:**

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strato Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	6-12	To 12-18				No	Pen	Rec.
		0'-2'	D	1	3	3			Brown fine to medium SAND, trace of fine to medium gravel	1	24'	14"
						1						
		5'-7'	D	5	7	6				2	24'	15"
						7						
		10'-12'	D	8	5	5				3	24'	8"
						6						
		16'6"-18'6"	D	9	6	6				4	24'	12"
						7						
		21'6"-23'6"	D	10	19	35			" trace of cobbles	5	24'	12"
						23						
		26'6"-28'6"	D	100	20	16			(pushed cobble)	6	24'	12"
						20						
									(Drove casing to 39'6") (Drove O.E. Rod (AW) to 50')			
								50'				
									Bottom of Boring 50' (ran out of rods)			

GROUND SURFACE TO 39'6" USED BW "CASING: THEN Drove O.E. Rod to 50'

Sample Type  
 D=Dry C=Cored W=Washed  
 UP=Undisturbed Piston  
 TP=Test Pit A=Auger V=Vane Test  
 UT=Undisturbed Thinwall

Proportions Used  
 trace 0 to 10%  
 little 10 to 20%  
 some 20 to 35%  
 and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler  
 Cohesionless Density Cohesive Consistency  
 0-10 Loose 0-4 Soft 30+ Hard  
 10-30 Med. Dense 4-8 M/Stiff  
 30-50 Dense 8-15 Stiff  
 50+ Very Dense 15-30 V-Stiff

SUMMARY:  
 Earth Boring 50'  
 Rock Coring \_\_\_\_\_  
 Samples 6

HOLE NO. B-6



# GUILD DRILLING CO., INC.

100 WATER STREET EAST PROVIDENCE, R I

TO Morrison Geotechnical Engineering ADDRESS Winslow, Maine  
 PROJECT NAME Proposed Dock LOCATION Eastport, Maine  
 REPORT SENT TO above PROJ. NO. \_\_\_\_\_  
 SAMPLES SENT TO Taken at Site OUR JOB NO. 84-8

SHEET 1 OF 1  
 DATE \_\_\_\_\_  
 HOLE NO. B-8  
 LINE & STA. \_\_\_\_\_  
 OFFSET \_\_\_\_\_  
 SURF. ELEV. -18' MLW

GROUND WATER OBSERVATIONS		Rods-"AW" Type Size I D. Hammer Wt Hammer Fall	CASING BW 2 1/2" 300# 24"	SAMPLER S/S 1 3/8" 140# 30"	CORE BAR.   BIT	Date	Time
At <u>Tidal</u>	after _____ Hours					START <u>6/14/83</u>	_____ a.m.
At _____	after _____ Hours	COMPLETE <u>6/14/83</u>	_____ p.m.				
				TOTAL HRS. _____			
				BORING FOREMAN <u>J. Phillips</u>			
				INSPECTOR _____			
				SOILS ENGR. _____			

### LOCATION OF BORING:

DEPTH	Casing Blows per foot	Sample Depths From - To	Type of Sample	Blows per 6" on Sampler			Moisture Density or Consist.	Strato Change Elev.	SOIL IDENTIFICATION Remarks include color, gradation, Type of soil etc. Rock-color, type, condition, hardness, Drilling time, seams and etc.	SAMPLE		
				From 0-6	To 6-12	To 12-18				No.	Pen	Rec.
		0'-2'	D	2	2	2			Brown silty fine to medium SAND, trace of wood, trace of organics	1	24'	3"
								3'				
		6'6"-8'6"	D	2	0	1			Brown fine to medium SAND, trace of fine gravel, trace of silt	2	24'	8"
						4		7'6"				
								11'6"	Brown silty fine to medium SAND			
									Bottom of Boring 11'6" (refusal with casing)			

GROUND SURFACE TO 11'6" USED BW "CASING: THEN Refusal

Sample Type  
 D=Dry C=Cored W=Washed  
 UP=Undisturbed Piston  
 TP=Test Pit A=Auger V=Vane Test  
 UT=Undisturbed Thinwall

Proportions Used  
 trace 0 to 10%  
 little 10 to 20%  
 some 20 to 35%  
 and 35 to 50%

140lb Wt. x 30" fall on 2" O.D. Sampler  
 Cohesionless Density Cohesive Consistency  
 0-10 Loose 0-4 Soft 30 + Hard  
 10-30 Med. Dense 4-8 M/Stiff  
 30-50 Dense 8-15 Stiff  
 50 + Very Dense 15-30 V-Stiff

SUMMARY:  
 Earth Boring 11'6"  
 Rock Coring \_\_\_\_\_  
 Samples 2

HOLE NO B-8

# REPORT OF EXPLORATION

HOLE NO. B-1

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-27.5 Feet</u> DATE START <u>June 8, 1983</u> DATE COMPLETE <u>June 8, 1983</u> WEATHER <u>Sunny</u>
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SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/8 In.	Length Driven	Recovery In. Or %	Sample No.	
		From	To					
1	Split Spoon	0.0'	2.0'	WOR/12"/ WOR/ 3	2.0'	3"	S1	Gravel, medium to coarse, some sand, loose, brown, GW-GP
2	Split Spoon	---	---	---	---		S2	Sample of blow back inside casing
3	Split Spoon	10.0'	11.5'	7/6/6	1.5'	4"	S3	Gravel, medium to coarse, some sand, medium, dense, brown
4	Split Spoon	15.0'	16.5'	30/17/7	1.5'	1.0'	S4A	Gravel, fine to coarse, with little sand and trace of silt, dense, brown-gray, GW
							S4B	Silty clay, with trace of sand, stiff, gray, CL
5	Split Spoon	20.0'	21.5'	1/2/3	1.5'	1.5'	S5	Silty clay, with trace of sand, medium, gray, CL
6	Split Spoon	25.0'	26.5'	1/6/26	1.5'	1.0'	S6	Silty clay, with trace of sand, soft, gray, CL
								Sand, fine to coarse, with little gravel, dense, brown, SW

MORRISON GEOTECHNICAL ENGINEERING

Depth		FIELD LOG OF BORING	GROUNDWATER DATA			
From	To		At Completion	Date	Time	Depth
0.0'	16.0'	Gravel, fine to coarse, with some sand, very loose to dense, brown with various color stone, GW				
16.0'	25.5'	Silty clay, with sand layers, soft to stiff, gray, CL				
25.5'	36.0'	Sand, fine to coarse, with trace of gravel and silt, dense, brown, SW				
36.0'	50.0'	Silty sand, fine to medium, with trace of gravel and cobbles, dense, brown, SM, (till)				
50.0'	54.5'	Drove open ended rods				
54.5'		Refusal				
		Dredge Depth: 12.5' below mud line				



# REPORT OF EXPLORATION

HOLE NO. B-2

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-27.5 Feet</u> DATE START <u>June 11, 1983</u> DATE COMPLETE <u>June 11, 1983</u> WEATHER <u>Sunny</u>
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SAMPLE DATA							FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/6 In.	Length Driven	Recovery In. Or %	Sample No.	
		From	To					
1	Split Spoon	0.0'	2.0'	WOR/1/0/1	2.0'	None		
2	Split Spoon	2.0'	4.0'	1/2/3/3	2.0'	6"	S1	Sand, medium to coarse, with little gravel, loose, brown-red, SW
3	Split Spoon	5.0'	7.0'	3/3/2/2	2.0'	6"	S2	Sand, fine to coarse, with little gravel, loose, brown-red, SW
4	Split Spoon	9.5'	11.5'	6/8/9/11	2.0'	6"	S3	Sand, fine to coarse, with little gravel, loose, brown-red, SW
5	Split Spoon	14.5'	16.5'	4/3/6/7	2.0'	1'	S4	Sandy gravel, fine to coarse, with trace of silts, medium dense, brown with red, GW
6	Split Spoon	21.0'	23.0'	6/11/12/14	2.0'	9"	S5	Sandy gravel, fine to coarse, with trace of silts, medium dense, brown with red, GW
7	Split Spoon	27.0'	29.0'	22/24/15/15	2.0'	1.5'	S6	Sandy gravel to gravelly sand, fine to coarse, with trace silts, brown with red, dense, GW-SW

Depth		FIELD LOG OF BORING	GROUNDWATER DATA			
From	To		At Completion	Date	Time	Depth
0.0'	46.5'	Sandy gravel to gravelly sand, fine to coarse, with trace of silts and cobbles, loose to dense, brown with red, GW-SW				
46.5'		Refusal				
		Dredge Depth: 12.5' below mudline				

MORRISON GEOTECHNICAL ENGINEERING

# REPORT OF EXPLORATION

HOLE NO. B-2 (con't)

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-27.5 Feet</u> DATE START <u>June 11, 1983</u> DATE COMPLETE <u>June 11, 1983</u> WEATHER <u>Sunny</u>
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SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/8 In.	Length Driven	Recovery In. Or %	Sample No.		
		From	To						
8	Split Spoon	32.5'	34.5'	6/6/7/8	2.0'	1.0'	S7	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, medium dense, brown with red, GW-SW	
9	Split Spoon	37.5'	39.5'	6/6/7/8	2.0'	1.5'	S8	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, medium dense, brown with red, GW-SW	

MORRISON GEOTECHNICAL ENGINEERING

Depth		FIELD LOG OF BORING				GROUNDWATER DATA			
From	To								
						At Completion	Date	Time	Depth
						LOCATION			

# REPORT OF EXPLORATION

HOLE NO. B-3

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-27.0 Feet</u> DATE START <u>June 9, 1983</u> DATE COMPLETE <u>June 9, 1983</u> WEATHER <u>Sunny</u>
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SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/8 In.	Length Driven	Recovery In. Or %	Sample No.		
		From	To						
1	Split Spoon	0.0'	0.2'	WOR/2'	2.0'	None			
2	Split Spoon	3.0'	5.0'	6/6/6/6	2.0'	8"	S1	Sand, fine to coarse, with some gravel and trace of silts, medium dense, brown, SW	
3	Split Spoon	8.0'	10.0'	22/11/20/12	2.0'	1.0'	S2	Sand, fine to coarse, with some gravel and trace of silts, medium dense, brown, SW	
4	Split Spoon	15.0'	17.0'	22/17/19/17	2.0'	8"	S3	Sand, fine to coarse, with some gravel and trace of silts, dense, brown, SW	
5	Split Spoon	22.0'	24.0'	17/19/15/17	2.0'	9"	S4	Sand, fine to coarse, with some gravel and trace of silts, dense, brown, SW	
6	Split Spoon	28.0'	30.0'	11/9/10/11	2.0'	3"	S5	Sand, fine to coarse, with some gravel and trace of silts, medium dense, brown, SW	
7	B Core	35.5'	37.6'	---	2.1'	2.1'	R1	Boulder, siltstone	

MORRISON GEOTECHNICAL ENGINEERING

Depth		FIELD LOG OF BORING	GROUNDWATER DATA			
From	To		At Completion	Date	Time	Depth
0.0'	3.0'	Gravelly sand, fine to coarse, with a trace of silts and cobbles, loose to dense, brown with red, SW				
35.0'	37.6'	Boulder, siltstone				
37.6'	51.5'	Drove open ended rods	LOCATION			
51.5'		Refusal				
		Dredge Depth: 13' below mud line				

# REPORT OF EXPLORATION

HOLE NO. B-4

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-31.5 Feet</u> DATE START <u>June 13, 1983</u> DATE COMPLETE <u>June 13, 1983</u> WEATHER <u>Sunny</u>
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SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/6 In.	Length Driven	Recovery In. Or %	Sample No.		
		From	To						
1	Split Spoon	0.0'	2.0'	WOH/1/2/5	2.0'	8"	S1	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown with red, loose, SW-GW	
2	Split Spoon	6.0'	8.0'	5/18/15/8	2.0'	8"	S2	Sandy gravel to gravelly sand, fine to coarse, with trace of pushed cobble, brown with red, medium dense, SW-GW	
3	Split Spoon	11.0'	13.0'	9/5/6/9	2.0'	2.0'	S3	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown with red, loose, SW-GW	
4	Split Spoon	16.0'	18.0'	21/15/18/18	2.0'	5"	S4	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown with red, loose, SW-GW	
5	Split Spoon	22.0'	24.0'	79/18/11/9	2.0'	11"	S5	Sandy gravel to gravelly sand, fine to coarse, with little silts, brown with red, loose, SW-GW	

MORRISON GEOTECHNICAL ENGINEERING

Depth		FIELD LOG OF BORING		GROUNDWATER DATA			
From	To			At Completion	Date	Time	Depth
0.0'	51.5'	Sandy gravel to gravelly sand, fine to coarse, with cobbles and trace of silts, loose to dense, brown with red, GW-SW					
51.5'		End of boring					
		Dredge Depth: 8.5' below mud line					

# REPORT OF EXPLORATION

HOLE NO. B-4 (con't)

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-31.5 Feet</u> DATE START <u>June 13, 1983</u> DATE COMPLETE <u>June 13, 1983</u> WEATHER <u>Sunny</u>
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**MORRISON GEOTECHNICAL ENGINEERING**

SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/6 In.	Length Driven	Recovery In. Or %	Sample No.		
		From	To						
6	Split Spoon	28.0'	30.0'	79/18/ 11/9	2.0'	6"	S6	Sandy gravel to gravelly sand, fine to coarse, with cobbles, brown with red, loose, SW-GW	
7	Split Spoon	33.5'	35.5'	15/10/ 9/12	2.0'	14"	S7	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown with red, loose, SW-GW	
8	Split Spoon	39.5'	41.5'	31/21/ 24/19	2.0'	12"	S8	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown with red, loose, SW-GW	
9	Split Spoon	47.0'	49.0'	14/11/ 12/12	2.0'	11"	S9	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown with red, loose, SW-GW	

Depth		FIELD LOG OF BORING	GROUNDWATER DATA			
From	To		At Completion	Date	Time	Depth

# REPORT OF EXPLORATION

HOLE NO. B-5

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-42.0 Feet</u> DATE START <u>June 14, 1983</u> DATE COMPLETE <u>June 14, 1983</u> WEATHER <u>Sunny with occasional shower</u>
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MORRISON GEOTECHNICAL ENGINEERING

SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/8 in.	Length Driven	Recovery In. Or %	Sample No.		
		From	To						
1	Split Spoon	0.0'	2.0'	WOH/1/2/2	2.0'	11"	S1	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown, loose, SW-GW	
2	Split Spoon	6.5'	8.5'	4/5/4/5	2.0'	8"	S2	Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown, loose, SW-GW	
3	Split Spoon	11.0'	13.0'	13/9/10/9	2.0'	1.5'	S3	Sandy gravel to gravelly sand, fine to coarse, with some silt, brown, medium dense, SW-GW	
4	Split Spoon	15.5'	17.0'	4/8/8	1.5'	1.5'	S4	Wash sample, not representative	

Depth			FIELD LOG OF BORING	GROUNDWATER DATA			
From	To			At Completion	Date	Time	Depth
0.0'	17.0'		Sandy gravel to gravelly sand, fine to coarse, with trace of silt, brown with red, loose to medium dense, SW-GW				
17.0'	44.0'		Drove open ended rods				
44.0'			End of boring				
			No Dredge Required				

Hole No. B-5

# REPORT OF EXPLORATION

HOLE NO. B-6

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-35.5 Feet</u> DATE START <u>June 12, 1983</u> DATE COMPLETE <u>June 12, 1983</u> WEATHER <u>Sunny</u>
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MORRISON GEOTECHNICAL ENGINEERING

SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/8 In.	Length Driven	Recovery In. Or %	Sample No.		
		From	To						
1	Split Spoon	0.0'	2.0'	1/3/3/1	2.0'	14"	S1	Sandy gravel to gravelly sand, fine to coarse, brown with red, loose, SW-GW	
2	Split Spoon	5.0'	7.0'	5/7/6/7	2.0'	15"	S2	Sandy gravel to gravelly sand, fine to coarse, brown with red, medium dense, SW-GW	
3	Split Spoon	10.0'	12.0'	8/5/5/6	2.0'	8"	S3	Sandy gravel to gravelly sand, fine to coarse, brown with red, loose, SW-GW	
4	Split Spoon	16.5'	18.5'	9/6/6/7	2.0'	1.0'	S4	Sandy gravel to gravelly sand, fine to coarse, brown with red, loose, SW-GW	
5	Split Spoon	21.5'	23.5'	10/19/35/23	2.0'	1.0'	S5	Sandy gravel to gravelly sand, fine to coarse, with cobbles, brown with, red, dense, SW-GW	
6	Split Spoon	26.5'	28.5'	100/20/16/20	2.0'	1.0'	S6	Sandy gravel to gravelly sand, fine to coarse, brown with red, pushed cobbles, loose, SW-GW	

Depth		FIELD LOG OF BORING	GROUNDWATER DATA			
From	To		At Completion	Date	Time	Depth
0.0'	28.5'	Sandy gravel to gravelly sand, fine to coarse, with cobbles, brown with red, loose to dense, GW-SW				
28.5'	50.0'	Drove open ended rods				
50.0'		End of boring				
		Dredge Depth: 4.5' below mud line				

Hole No. B-6

# REPORT OF EXPLORATION

HOLE NO. B-7

OBSERVER <u>Peter Foster</u> DRILL CONTRACTOR <u>Guild Drilling, Inc.</u> DRILLER <u>John Phillips</u> TYPE DRILL <u>Acker Hand Feed</u> SIZE & TYPE OF CASING <u>BW</u> DRILLING FLUID _____	PROJECT <u>Eastport P.A. Exp.</u> NO. <u>1621</u> LOCATION <u>Eastport, Maine</u> ELEVATION <u>-30.0 Feet</u> DATE START <u>June 10, 1983</u> DATE COMPLETE <u>June 10, 1983</u> WEATHER <u>Sunny</u>
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SAMPLE DATA								FIELD CLASSIFICATION AND REMARKS	
No.	Type Of Sample	Depth of Sample		Driving Resistance Blows/6 In.	Length Driven	Recovery In. Or %	Sample No.		
		From	To						
1	Split Spoon	0.0'	2.0'	WOH & WOR/ 2/3	2.0'	8"	S1	Sand, fine to coarse with trace of gravel and silt, brown, loose, SW	
2	Split Spoon	5.0'	7.0'	5/6/7/7	2.0'	1.0'	S2	Sand, fine to coarse with trace of gravel and silt, brown, medium dense, SW	
3	B Core	7.5'	12.5'	--	5.0'	5.0'	R1	Rock, basalt	

MORRISON GEOTECHNICAL ENGINEERING

Depth		FIELD LOG OF BORING	GROUNDWATER DATA			
From	To		At Completion	Date	Time	Depth
0.0'	7.5'	Sand, fine to coarse, with trace of gravel and silt, brown, loose to medium dense, SW				
7.5'	12.5'	Bedrock, basalt				
12.5'		End of boring				
		Dredge Depth: 10' below mud line				
		Bedrock excavation will be necessary to obtain desired elevation.				

Hole No. B-7