

BORING LOGS

ENVIRONMENTAL DATING SERVICES
534 NEW STATE HWY./ROUTE 44
RAYNHAM, MA 02767

SHORE PROTECTION PROJECT
BEACH ROAD AT SYLVIA BEACH
OAK BLUFFS, MARTHA'S VINEYARD, MA

BORING NUMBER: B-1

GROUND WATER OBSERVATIONS					CASING				SAMPLER		CORE BAR.	
DATE	TIME	DEPTH	STABILIZATION TIME	TYPE:	NW	HW	S/S	NV-2				
6/26	0800	4'6"	TIDAL AREA	SIZE, I.D.:	3"	4"	1-3/8"	2"				
				HAMMER WT.	300	300	140					
				HAMMER FALL	24"	24"	30"					
DEPTH	CBL S N W G S	SAMPLE INFORMATION				SAMPLE DESCRIPTION	DEPTH					
		No.	DEPTH (Ft.)	BLOWS/6"								
0		1	0-1'6"	2-1-1	Dry, very loose, white FINE SAND, trace Inorganic Silt, trace Shells	0'						
5		2	5-6'6"	19-15-12	Wet, medium dense, gray/brown, COARSE SAND, trace fine Sand, trace Inorganic Silt, trace Shells	5'						
10		3	10-11'6"	13-12-13	Wet, medium dense, gray/brown, FINE SAND, some medium Sand, trace Inorganic Silt, trace Shells	10'						
15		4	15-16'6"	11-9-10	Wet, medium dense, gray, FINE SAND, some Inorganic Silt, trace fine Gravel	15'						
20		5	20-21'6"	17-12-13	Wet, medium dense, gray, FINE SAND & INORGANIC SILT	20'						
25		6	25-26'6"	30-17-19	Wet, dense, gray, FINE SAND & INORGANIC SILT							
30		7	30-31'6"	14-17-12	Wet, medium dense, gray, FINE SAND & INORGANIC SILT							
35					BOTTOM OF BORING	32'						

GROUND ELEVATION: 4.6'
START: 6/26/96 AT:0630 HRS
FINISH:6/2696 AT:1200 HRS
TOTAL HOURS: 5HRS 30 MIN
BORING FOREMAN: E. WORDELL
INSPECTOR: P. BURNS
STA:174+58.94 OFFSET:105.5RT
CONTRACT #:95579 FILE#: 1174
REMARKS

SEE NOTE # 1

NOTES: 1. Encountered "Nested Cobbles" at 5' to 8'6" Depth.

SCALE: 1"=5'

GEOTECHNICAL & ENVIRONMENTAL DRILLING SERVICES
534 NEW STATE HWY./ROUTE 44
RAYNHAM, MA 02767

PROJECT TITLE & LOCATION
SHORE PROTECTION PROJECT
BEACH ROAD AT SYLVIA BEACH
OAK BLUFFS, MARTHA'S VINEYARD, MA

BORING NUMBER: B-1A

GROUND ELEVATION: 3.0'

START: 6/18/96 AT:1200 HRS

FINISH: 6/18/96 AT:2030 HRS

TOTAL HOURS: 8 HRS 30 MIN

BORING FOREMAN: E. WORDELL

INSPECTOR: P. BURNS/E. MAHONEY

STA:174+83.94 OFFSET:105.5 RT

CONTRACT #:95579 FILE#: 1174

REMARKS

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH	STABILIZATION TIME	TYPE:	CASING	SAMPLER	CORE BAR.
6/18	1330	5'5"	TIDAL AREA	SIZE, I.D.:	NW HW	S/S	NV-2
				HAMMER WT.	300	300	140
				HAMMER FALL	24"	24"	30"

DEPTH	C.B.A.L.S.D.N.W.G.S.	SAMPLE INFORMATION			SAMPLE DESCRIPTION	DEPTH
		No.	DEPTH (Ft.)	BLOWS/6"		
0		1	0-1'6"	6-5-6	Moist, medium dense, light brown FINE SAND, trace Inorganic Silt	0'
5		2	5-6'6"	3-6-11	Wet, medium dense, light brown FINE SAND, trace coarse Sand, trace Inorganic Silt	
10		3	10-11'6"	1-3-3	Wet, loose, gray/brown, FINE SAND, some coarse Sand, trace Inorganic Silt, trace fine Gravel	
15		4	15-16'6"	13-10-27	Wet, dense, black/dark brown, ORGANIC SILT, some fine Sand	15'
20		5	20-21'6"	42-31-33	Wet, very dense, dark gray FINE SAND, some coarse Sand, trace Inorganic Silt	20'
25		6	25-26'6"	25-27-47	Wet, very dense, brown/gray, FINE SAND, some coarse Sand, trace fine Gravel, trace Inorganic Silt	25'
30		7	30-31'6"	31-15-17	Moist, dense, gray, FINE SAND & INORGANIC SILT	30'
35					BOTTOM OF BORING	32'

NOTES: 1. Encountered "Wested Cobbles" from 0' to 1' and 5' to 8.5'

SCALE: 1"=5'

GEOTECHNICAL & ENVIRONMENTAL DRILLING SERVICES
534 NEW STATE HWY./ROUTE 44
RAYNHAM, MA 02767

PROJECT TITLE & LOCATION
SHORE PROTECTION PROJECT
BEACH ROAD AT SYLVIA BEACH
OAK BLUFFS, MARTHA'S VINEYARD, MA

BORING NUMBER: B-2

GROUND ELEVATION: 1.0'

START: 6/23/96 AT:1500 HRS

FINISH:6/23/96 AT:2030 HRS

TOTAL HOURS: 8 HRS

BORING FOREMAN: E. WORDELL

INSPECTOR: P. BURNS

STA:174+58.94 OFFSET:140.5'RT

CONTRACT #:95579 FILE#: 1174

REMARKS

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH	STABILIZATION TIME
6/23	1520	1'6	TIDAL AREA

TYPE:	CASING		SAMPLER	CORE BAR.
	NW	HW	S/S	NV-2
SIZE, I.D.:	3"	4"	1-3/8"	2"
HAMMER WT.	300	300	140	
HAMMER FALL	24"	24"	30"	

DEPTH	C.B. LOGS	SAMPLE INFORMATION			
		No.	DEPTH (Ft.)	BLOWS/6"	
0		1	0-1'6	2-2-2	
5		2	5-6'6	12-15-10	
10		3	10-11'6	13-12-17	
15		4	15-16'6	9-12-13	
20		5	20-21'6	9-15-17	
25		6	25-26'6	17-13-24	
30		7	30-31'6	12-15-11	
35					

SAMPLE DESCRIPTION	D P T H
Dry, loose, white, FINE SAND, trace Inorganic Silt	0
Wet, medium dense, gray/brown, COARSE SAND, trace fine Sand, trace fine Gravel, trace Inorganic Silt, trace Shells	5
Wet, medium dense, gray/brown, COARSE SAND, trace fine Sand, trace Inorganic Silt	1
Wet, medium dense, light gray, FINE SAND, some Inorganic Silt	1
Wet, dense, light gray, FINE SAND, some Inorganic Silt	
Wet, dense, gray, FINE SAND, trace Inorganic Silt	
Wet, medium dense, gray, FINE SAND, trace Inorganic Silt	32
BOTTOM OF BORING	

SEE NOTE # 1

NOTES: Encountered "Nested Cobbles" at 5' TO 8'6 Depth.

SCALE: 1"=5'

Form 74/MUN

BORING NO. B-2

GEOTECHNICAL & ENVIRONMENTAL DRILLING SERVICES 534 NEW STATE HWY./ROUTE 44 RAYNHAM, MA 02767					PROJECT TITLE & LOCATION SHORE PROTECTION PROJECT BEACH ROAD AT SYLVIA BEACH OAK BLUFFS, MARTHA'S VINEYARD, MA				BORING NUMBER: B-2A	
GROUND WATER OBSERVATIONS					CASING		SAMPLER	CORE BAR.	GROUND ELEVATION: 1.7'	
DATE	TIME	DEPTH	STABILIZATION TIME	TYPE:	NW	NW	S/S	NV-2	START: 6/19/96 AT:0630 HRS	
6/19	0830	1'	TIDAL AREA	SIZE, I.D.:'	3"	4"	1-3/8"	2"	FINISH:6/19/96 AT:1130 HRS	
					HAMMER WT.	300	300	140	TOTAL HOURS: 5 HRS	
					HAMMER FALL	24"	24"	30"	BORING FOREMAN: E. WORDELL	
DEPTH	CBL SNGS	SAMPLE INFORMATION			SAMPLE DESCRIPTION			DEPTH	REMARKS	
		No.	DEPTH (Ft.)	BLOWS/6"						
0		1	0-1'6	7-3-4	Wet, loose, white, FINE SAND, some coarse Sand, trace fine Gravel, trace Inorganic Silt			0'	SEE NOTE # 1	
5		2	5-6'6	9-15-25	Wet, dense, light brown, COARSE SAND, trace fine Sand, trace fine Gravel, trace Inorganic Silt, Shells			5'		
10		3	10-11'6	7-11-19	Wet, dense, dark brown, FINE SAND & ORGANIC SILT, trace fine Gravel			10'		
15		4	15-16'6	9-15-41	Wet, very dense, dark brown, FINE SAND, trace coarse Sand, trace Inorganic Silt (Slightly Organic)			15'		
20		5	20-21'6	21-29-31	Wet, very dense, dark brown, FINE SAND, trace coarse Sand, trace Inorganic Silt (Slightly Organic)					
25		6	25-26'6	17-21-31	Wet, dense, gray, FINE SAND & INORGANIC SILT, trace fine Gravel			25'		
30		7	30-31'6	13-22-17	Wet, dense, gray, FINE SAND, some Inorganic Silt					
35					BOTTOM OF BORING			32'		

NOTES: 1. Encountered "Wested Cobbles" at 3' TO 8' Depth.
SCALE: 1"=5'

BORING No. B-2A

GROUND WATER OBSERVATIONS						CASING				SAMPLER	CORE BAR.
DATE	TIME	DEPTH	STABILIZATION TIME	TYPE:	NW	HW	S/S	NV-2			
6/25	1100	1'	TIDAL AREA	SIZE, I.D.:	3"	4"	1-3/8"	2"			
				HAMMER WT.	300	300	140				
				HAMMER FALL	24"	24"	30"				

D E P T H	C B A L S O N W G S	SAMPLE INFORMATION				SAMPLE DESCRIPTION	D P T H
		No.	DEPTH (Ft.)	BLOWS/6"			
0		1	0-1'6	1-2-1	Wet, very loose, light brown COARSE SAND, trace fine Sand, trace fine Gravel, trace Inorganic Silt	0'	
5		2	5-6'6	14-13-12	Wet, medium dense, light brown, FINE SAND, trace fine Gravel, trace Inorganic Silt		
10		3	10-11'6	19-14-11	Wet, medium dense, light brown, FINE SAND, trace fine Gravel, trace Inorganic Silt, trace Shells		
15		4	15-16'6	7-12-12	Wet, medium dense, dark gray, FINE SAND & INORGANIC SILT (Slightly Organic)	15'	
20		5	20-21'6	7-14-18	Moist, dense, gray, FINE SAND, some Inorganic Silt (Slightly Organic)		
25		6	25-26'6	23-19-21	Wet, dense, gray, FINE SAND, some Inorganic Silt	25'	
30		7	30-31'6	13-11-7	Wet, medium dense gray, FINE SAND, some Inorganic Silt		
35					BOTTOM OF BORING	32'	

SCALE: 1"=5'
BORING No. B-4

534 NEW STATE HWY./ROUTE 44
RAYNHAM, MA 02767

SHORE PROTECTION PROJECT
BEACH ROAD AT SYLVIA BEACH
OAK BLUFFS, MARTHA'S VINEYARD, MA

GROUND ELEVATION: 5.2'

START: 6/19/96 AT:1200 HRS

FINISH:6/19/96 AT:1930 HRS

TOTAL HOURS: 7 HRS 30 MIN

BORING FOREMAN: E. WORDELL

INSPECTOR: P. BURNS/E. MAHONEY

STA:170+50 OFFSET: 88.5'R

CONTRACT #:95579 FILE#: 1174

REMARKS

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH	STABILIZATION TIME	TYPE:	NW	NW	S/S	NW-2
6/19	1300	-4'6	TIDAL AREA	SIZE, I.D.s	3"	4"	1-3/8"	2"
				HAMMER WT.	300	300	140	
				HAMMER FALL	24"	24"	30"	
DEPTH	C.B.L.S.O.W.G.S	SAMPLE INFORMATION			SAMPLE DESCRIPTION			DEPTH
		No.	DEPTH (Ft.)	BLOWS/6"				
0		1	0-1'6	1-2-1	Moist, very loose, light yellow/brown, FINE SAND, trace Inorganic Silt			0'
5		2	5-6'6	21-15-61	Wet, very dense, gray/brown, FINE SAND, trace coarse Sand, trace Inorganic Silt			5'
10		3	10-11'6	11-8-15	Wet, medium dense, dark, gray/brown, FINE SAND, some Organic Silt, trace coarse Sand			10'
15		4	15-16'6	10-17-31	Wet, dense, dark gray/brown FINE SAND, some Organic Silt			
20		5	20-21'6	30-23-33	Wet, very dense, dark gray/brown, FINE SAND, some Inorganic Silt			20'
25		6	25-26'6	5-6-13	Wet, medium dense, gray, FINE SAND, some Inorganic Silt, trace coarse Sand			
30		7	30-31'6	8-22-21	Wet, dense, gray, FINE SAND, trace coarse Sand, some fine Gravelk, trace Inorganic Silt			30'
					BOTTOM OF BORING			32'
35								

SEE NOTE # 1

NOTES: 1. Encountered "Nested Cobbles" at 5'6 to 8' Depth.

SCALE: 1"=5'

Form 7H/MHD

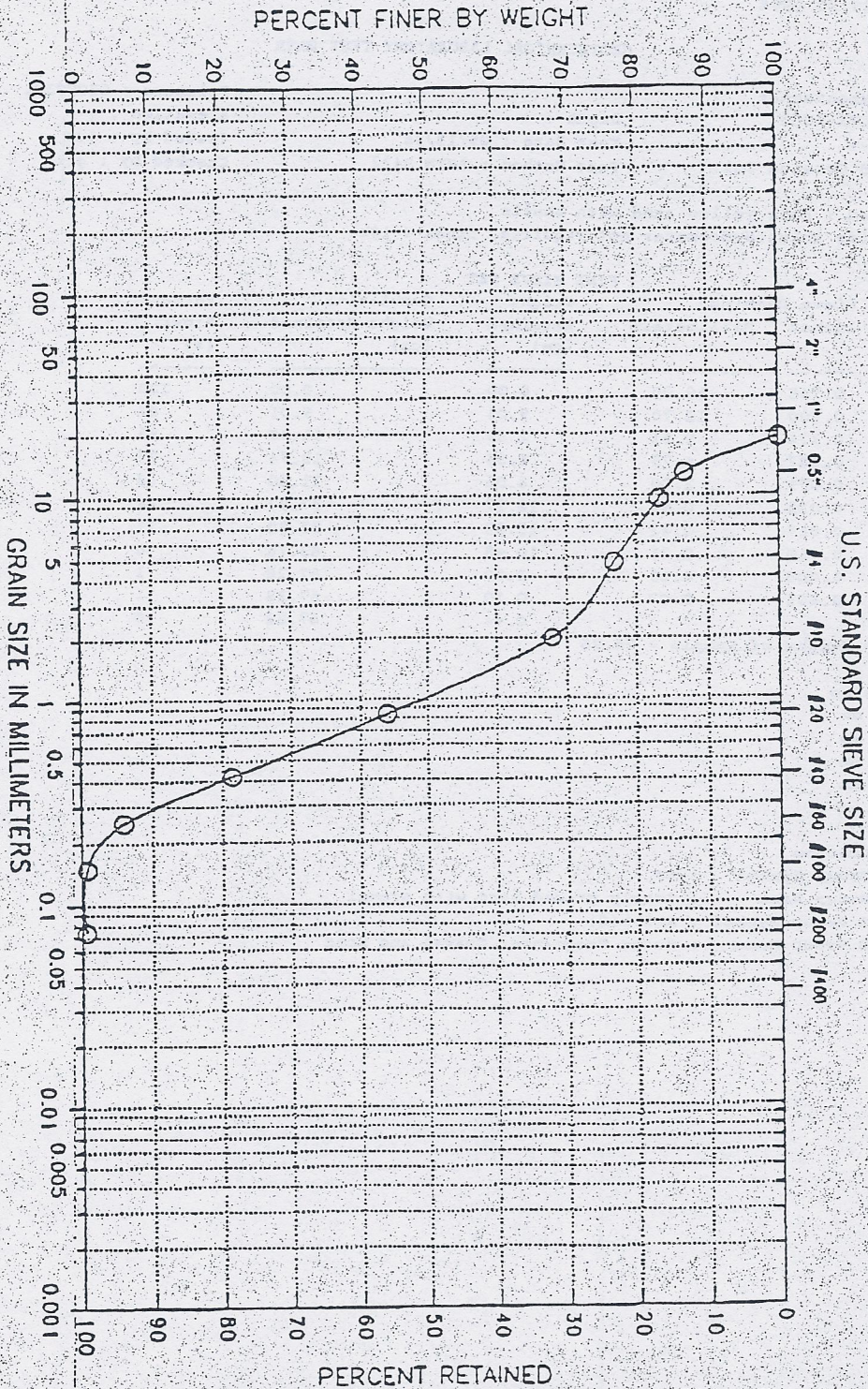
BORING No. B-3

ZOINO-HEBERT, INC. GEOTECHNICAL & ENVIRONMENTAL DRILLING SERVICES 534 NEW STATE HWY./ROUTE 44 RAYNHAM, MA 02767					PROJECT TITLE & LOCATION SHORE PROTECTION PROJECT BEACH ROAD AT SYLVIA BEACH OAK BLUFFS, MARTHA'S VINEYARD, MA				BORING NUMBER: B-5 GROUND ELEVATION: 5.8' START: 6/20/96 AT:1100 HRS FINISH:6/20/96 AT:1930 HRS TOTAL HOURS: 8 HRS 30 MIN BORING FOREMAN: E. WORDELL INSPECTOR: P. BURNS/E.MAHONEY STA: 166+50 OFFSET: 97' RT CONTRACT #:95579 FILE#: 1174	
GROUND WATER OBSERVATIONS					CASING		SAMPLER	CORE BAR.	REMARKS	
DATE	TIME	DEPTH	STABILIZATION TIME	TYPE:	NW	HW	S/S	NV-2		
6/20	1300	5'6	TIDAL AREA	SIZE, I.D.:	3"	4"	1-3/8"	2"		
				HAMMER WT.	300	300	140			
				HAMMER FALL	24"	24"	30"			
DEPTH	CBL SNGS	SAMPLE INFORMATION			SAMPLE DESCRIPTION	DEPTH				
		No.	DEPTH (Ft.)	BLOWS/6"						
0		1	0-1'6	2-1-3	Moist, very loose, light brown COARSE SAND, trace Silt	0'				
5		2	5-6'6	13-15-7	Wet, medium dense, light brown, FINE SAND, some fine to medium Gravel, trace Inorganic Silt					
10		3	10-11'6	12-13-12	Wet, medium dense, light gray, FINE SAND, trace coarse Sand, trace fine Gravel, trace Inorganic Silt, Shells					
15		4	15-16'6	14-10-9	Wet, medium dense, dark gray, FINE SAND & INORGANIC SILT (Slightly Organic)	15'				
20		5	20-21'6	4-11-14	Wet, medium dense, dark gray, FINE SAND & INORGANIC SILT	20'				
25		6	25-26'6	45-20-24	Wet, dense, dark gray, FINE SAND, some Inorganic Silt	25'				
30		7	30-31'6	14-9-11	Wet, medium dense, dark gray, FINE SAND, Some Inorganic Silt					
35					BOTTOM OF BORING	32'				

ZOINO-HEBERT, INC. GEOTECHNICAL & ENVIRONMENTAL DRILLING SERVICES 534 NEW STATE HWY./ROUTE 44 RAYNHAM, MA 02767					PROJECT TITLE & LOCATION SHORE PROTECTION PROJECT BEACH ROAD AT SYLVIA BEACH OAK BLUFFS, MARTHA'S VINEYARD, MA				BORING NUMBER: 8-6	
GROUND WATER OBSERVATIONS					CASING		SAMPLER	CORE BAR.	GROUND ELEVATION: 2.0'	
DATE	TIME	DEPTH	STABILIZATION TIME	TYPE:	NW	HW	S/S	NV-2	START: 6/21/96 AT:0630 HRS	
6/21	0800	1'	TIDAL AREA	SIZE, I.D.:	3"	4"	1-3/8"	2"	FINISH:6/21/96 AT:1430 HRS	
				HAMMER WT.	300	300	140		TOTAL HOURS: 8 HRS	
				HAMMER FALL	24"	24"	30"		BORING FOREMAN: E. WORDELL	
D E P T H	C B A L S O N W G S	SAMPLE INFORMATION				SAMPLE DESCRIPTION	D P T H	INSPECTOR: P. BURNS/E.MAHONEY		
		No.		DEPTH (Ft.)	BLOWS/6"			STA: 166+50	OFFSET: 160'RT	
									CONTRACT #:95579 FILE#: 1174	
									REMARKS	
0		1	0-1'6	1-2-2	Wet, very loose, light brown COARSE SAND, trace fine Gravel, trace Inorganic Silt			0'		
5		2	5-6'6	12-16-24	Wet, dense, light brown, FINE SAND, trace coarse Sand, trace fine Gravel, trace Inorganic Silt					
10		3	10-11'6	13-15-19	Wet, dense, light gray/brown, FINE SAND, trace coarse Sand, trace Silt					
15		4	15-16'6	6-2-2	Moist, soft, dark gray, ORGANIC SILT, trace fine Sand			15'		
20		5	20-21'6	9-11-17	Moist, medium dense, dark gray, FINE SAND & INORGANIC SILT (Slightly Organic)					
25		6	25-26'6	31-17-21	Wet, dense, light gray, FINE SAND, trace Inorganic Silt			25'		
30		7	30-31'6	9-8-12	Wet, dense, light gray, FINE SAND, trace Inorganic Silt, trace fine Gravel					
35					BOTTOM OF BORING			32'		

Boring No. ---
 Sample No: 08 Outside Inl
 Test Method ASTM D422
 Filename : 08OUTINL

Project : Sengerhatchel
 Project No.: GTX-1003
 Location: ---
 Test Date 05/15/96



COBBLES	GRAVEL		SAND				SLT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE		

Classification :
 (SP) Poorly graded sand with gravel
 Visual Description :
 Pale yellow sand with shells

Remarks :
 Outside Inlet; Hydrometer not required, fines < 10%

Fri May 17 16:49:20 1996

Page : 1

GEOTECHNICAL LABORATORY TEST DATA

Project : Senghontachet
Project No. : GTX-1003
Boring No. : ---
Sample No. : OB Outside Inl
Location : ---

Depth : ---
Test Date : 05/15/96
Test Method : ASTM D422

Filename : OBOUSTINL
Elevation : ---
Tested by : jdt
Checked by : gta

Soil Description : Pale yellow sand with shells
Remarks : Outside Inlet; Hydrometer not required; fines < 10%

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
0.75"	0.748	19.00	0.00	0.00	100
3.0"	0.500	12.70	9.01	9.01	87
0.25"	0.374	9.51	2.39	11.40	83
#4	0.187	4.75	4.34	15.74	77
#10	0.079	2.00	6.06	21.80	68
#20	0.033	0.84	16.17	37.97	44
#40	0.017	0.42	15.33	53.30	21
#60	0.010	0.25	10.48	63.78	6
#100	0.006	0.15	3.50	67.28	1
#200	0.003	0.07	0.10	67.38	1
Pan			0.44	67.82	0

Total Dry Weight of Sample = 76.96

U65 : 11.0325 mm
U60 : 1.5034 mm
U50 : 1.0453 mm
U30 : 0.5468 mm
U15 : 0.3387 mm
D10 : 0.2863 mm

Soil Classification

ASTM Group Symbol : SP
ASTM Group Name : Poorly graded sand with gravel
AASHTO Group Symbol : A-1-b(0)
AASHTO Group Name : Stone Fragments, Gravel and Sand

MAY 17 '96 16:53 GEOTESTING EXPRESS

Page: 1

MAY 17 16:49:20 1996

UNSATURATED SAMPLE DATA

Project : Sanchochotat
 Project No. : 97-1001
 Boring No. : ---
 Sample No. : CA Site 1
 Location : ---

Depth : ---
 Test Date : 05/13/96
 Test Method : ASTM D422

File Name : 050100
 Elevation : ---
 Tested By : JAC
 Checked By : JAC

Soil Description : saturated, dark gray sand with little silt. shells
 Remarks : hydrometer not required, fines < 10%

Sieve Mesh	Sieve Opening		Weight Retained (g)	Cumulative Weight Retained (g)	Percent Finer (%)
	Inches	Millimeters			
---	---	---	---	---	100
0.5"	0.500	12.70	0.00	0.00	97
0.375"	0.375	9.51	2.65	2.65	94
#4	0.187	4.75	2.91	5.57	91
#10	0.075	2.00	7.50	13.07	86
#20	0.025	0.84	11.17	24.24	76
#40	0.017	0.42	20.97	45.21	55
#60	0.010	0.25	13.81	59.02	41
#100	0.008	0.15	9.76	68.78	31
#200	0.003	0.07	3.36	72.13	28
pan	---	---	4.83	76.97	23

Total Dry Weight of Sample = 96.3

#20 : 2.0070 mm
 #40 : 0.3003 mm
 #60 : 0.2500 mm
 #100 : 0.1500 mm
 #200 : 0.0750 mm

Soil Classification

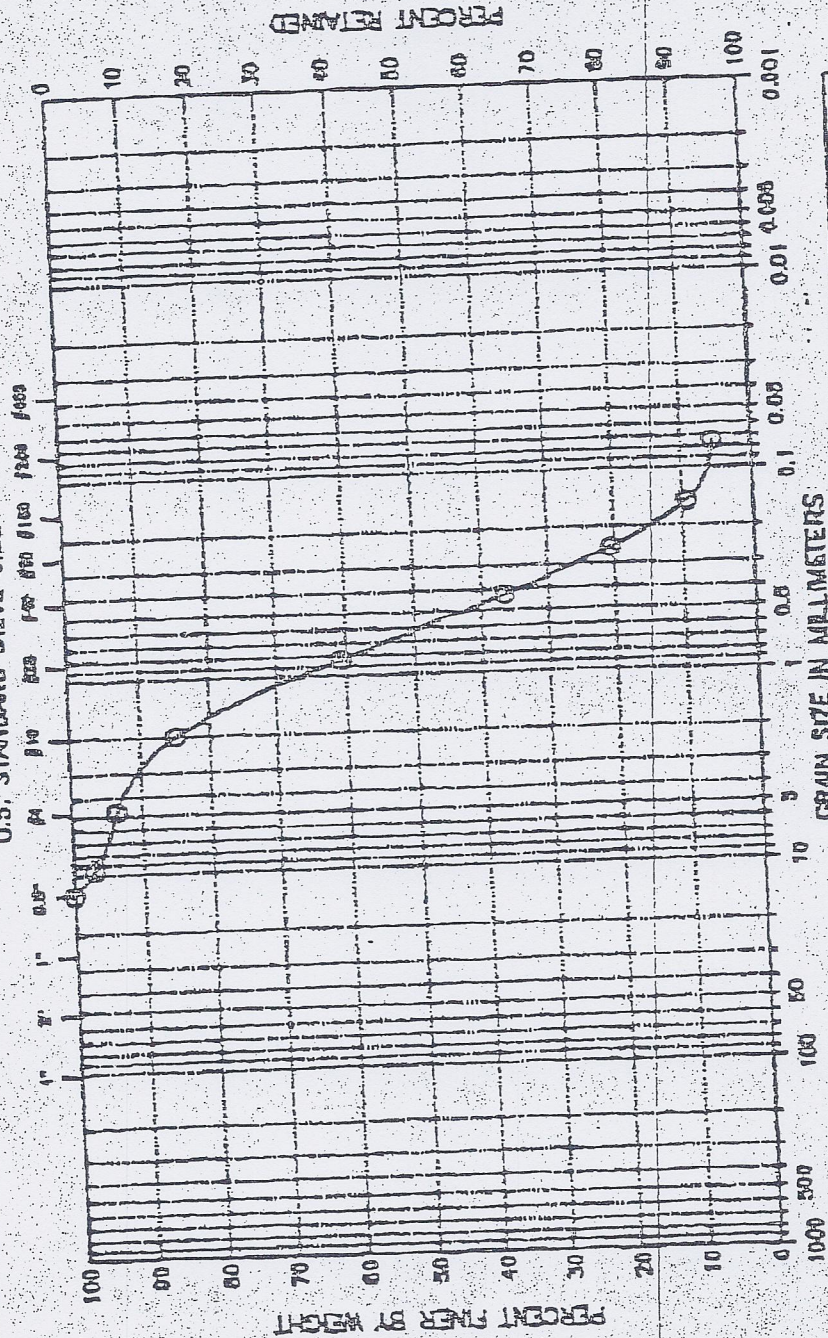
ASTM Group Symbol : SP-SM
 ASTM Group Name : Poorly graded sand with silt
 USCS Group Symbol : A-1-b(0)
 USCS Group Name : Stone Fragments, Gravel and Sand

MAY 17 '86 16:52 GEOTESTING EXPRESS

Project : Senghahtechel
 Project No.: GTX-100J
 Location: ---
 Test Date 05/15/86

Boring No.: ---
 Sample No.: QD 51w 2
 Test Method ASTM D422
 Flaremark : 0630722

U.S. STANDARD SIEVE SIZE



COARSE		FINE		SAND		SILT OR CLAY	

Remarks: Hydrometer not required, fines < 10%

Classification: (SP-SM) Poorly graded sand with silt

Visual Description: Saturated, dark gray sand with (11%) silt, shells

MAY 17 '96 13:53 GEOTESTING EXPRESS

Page: 1

MAY 17 14:49:20 1996

GEOTESTING EXPRESS

Project : Longhorn

Project No. : 95-1001

Survey No. : ---

Sample No. : CA Site 2

Location : ---

Soil Description : Sandstone, dark gray sand with little silt. shells

Remarks : Hydrometer not required. fines < 10%

Depth : ---

Test Date : 05/11/96

Test Method : ASTM D42

Filament : 0.075

Flow Rate : ---

Tested by : JAC

Checked by : JAC

Sieve No.	Sieve Opening		Weight Retained (g)	Cumulative Weight Retained (g)	Percent Fines (%)
	Inches	Millimeters			
10	0.150	12.75	0.00	0.00	100
20	0.850	21.50	0.00	0.00	97
40	0.425	10.75	0.00	0.00	94
60	0.250	6.35	0.00	0.00	91
80	0.188	4.75	0.00	0.00	88
100	0.150	3.75	0.00	0.00	85
120	0.125	3.18	0.00	0.00	82
140	0.106	2.66	0.00	0.00	79
160	0.094	2.36	0.00	0.00	76
180	0.083	2.08	0.00	0.00	73
200	0.075	1.88	0.00	0.00	70
250	0.063	1.58	0.00	0.00	67
300	0.050	1.25	0.00	0.00	64
350	0.043	1.08	0.00	0.00	61
400	0.038	0.95	0.00	0.00	58
450	0.033	0.83	0.00	0.00	55
500	0.029	0.73	0.00	0.00	52
550	0.025	0.63	0.00	0.00	49
600	0.022	0.55	0.00	0.00	46
650	0.020	0.48	0.00	0.00	43
700	0.018	0.43	0.00	0.00	40
750	0.016	0.38	0.00	0.00	37
800	0.015	0.35	0.00	0.00	34
850	0.014	0.32	0.00	0.00	31
900	0.013	0.29	0.00	0.00	28
950	0.012	0.26	0.00	0.00	25
1000	0.011	0.23	0.00	0.00	22
1050	0.010	0.20	0.00	0.00	19
1100	0.009	0.18	0.00	0.00	16
1150	0.008	0.16	0.00	0.00	13
1200	0.007	0.14	0.00	0.00	10
1250	0.006	0.12	0.00	0.00	7
1300	0.005	0.10	0.00	0.00	4
1350	0.004	0.09	0.00	0.00	1
1400	0.003	0.07	0.00	0.00	0
1450	0.002	0.05	0.00	0.00	0
1500	0.001	0.03	0.00	0.00	0
1550	0.001	0.02	0.00	0.00	0
1600	0.001	0.01	0.00	0.00	0
1650	0.001	0.01	0.00	0.00	0
1700	0.001	0.01	0.00	0.00	0
1750	0.001	0.01	0.00	0.00	0
1800	0.001	0.01	0.00	0.00	0
1850	0.001	0.01	0.00	0.00	0
1900	0.001	0.01	0.00	0.00	0
1950	0.001	0.01	0.00	0.00	0
2000	0.001	0.01	0.00	0.00	0

Total Dry Weight of Sample = 36.3

No. : 1.0000

No. : 0.0000

No. : 0.0000

No. : 0.0000

No. : 0.0000

No. : 0.0000

No. : 0.0000

No. : 0.0000

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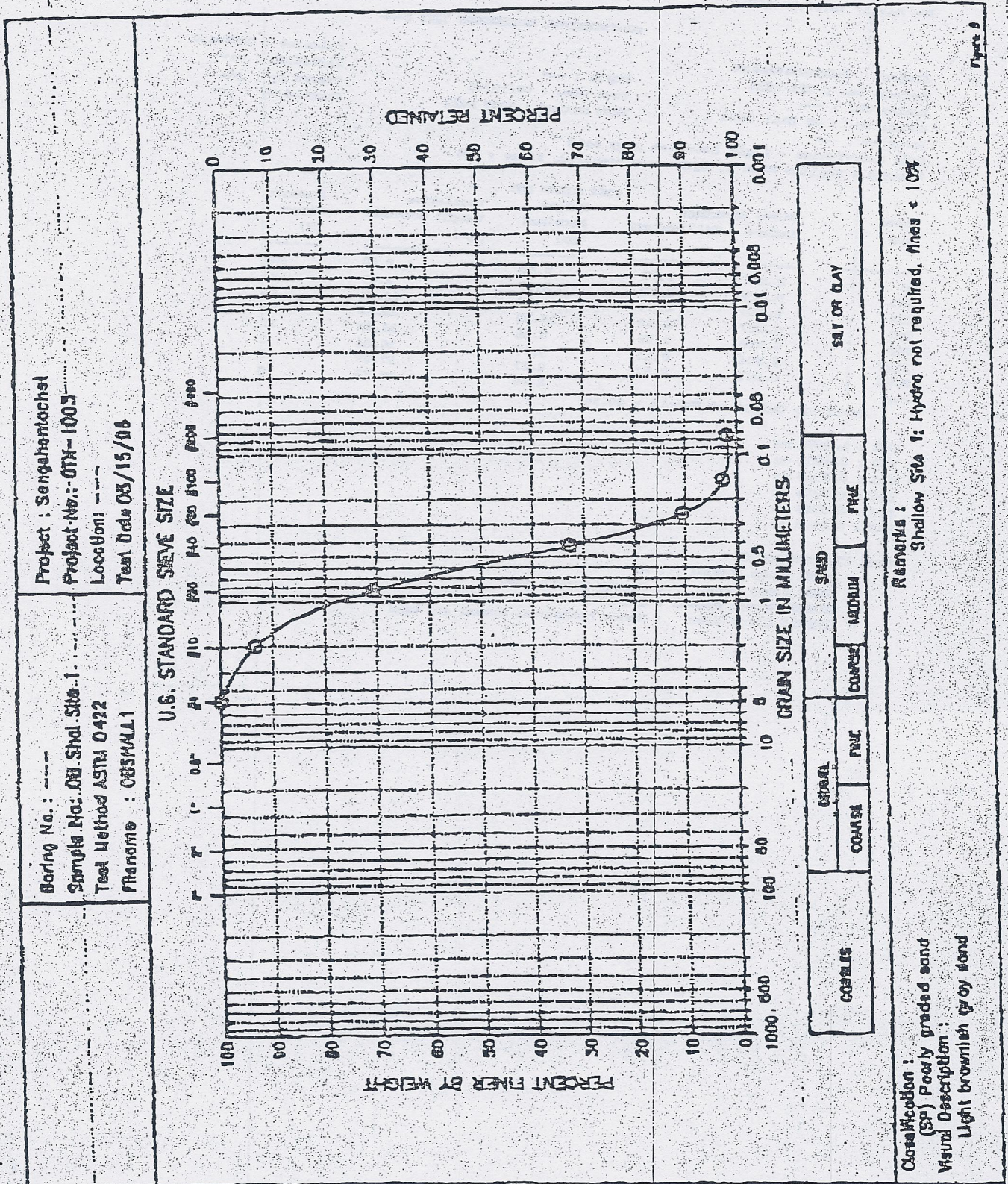
No. : 0.0000

No. : 0.0000

No. : 0.0000

MAY 17 '98 16:51 GEOTESTING EXPRESS

P. 05



MAY 17 '96 15:52 GEOTESTING EXPRESS

Page 1

MAY 17 15:49.39 1996

Geotesting Express Test 500

Project : Amherstwater

Project No. : 500-1001

Testing No. : ---

Sample No. : CS Soil Mts 1

Location : ---

Soil Description : light brownish gray sand

Remarks : Shallow Area 1: Spore test required. Class < 10%

Depth : ---

Test Date : 05/15/96

Test Method : ASTM D422

Filename : 0500001

Revision : ---

Tested by : jda

Checked by : grr

Sieve Size	Sieve Opening		Weight Retained (g)	Cumulative Weight Retained (g)	Percent Finer (%)
	Inches	Millimeters			
				0.00	100
#4	0.187	4.75	2.49	2.49	97
#10	0.075	2.00	2.62	5.11	94
#20	0.003	0.84	16.33	18.94	81
#40	0.017	0.42	3.36	22.30	77
#60	0.010	0.25	2.97	25.27	74
#80	0.006	0.15	0.37	25.64	73
#100	0.003	0.07	0.64	26.28	72
Fun					

Total Dry Weight of Sample = 46.34

#40 : 1.4402 gm

#60 : 0.6901 gm

#80 : 0.5743 gm

#100 : 0.3903 gm

#15 : 0.7708 gm

#10 : 0.2998 gm

Soil Classification

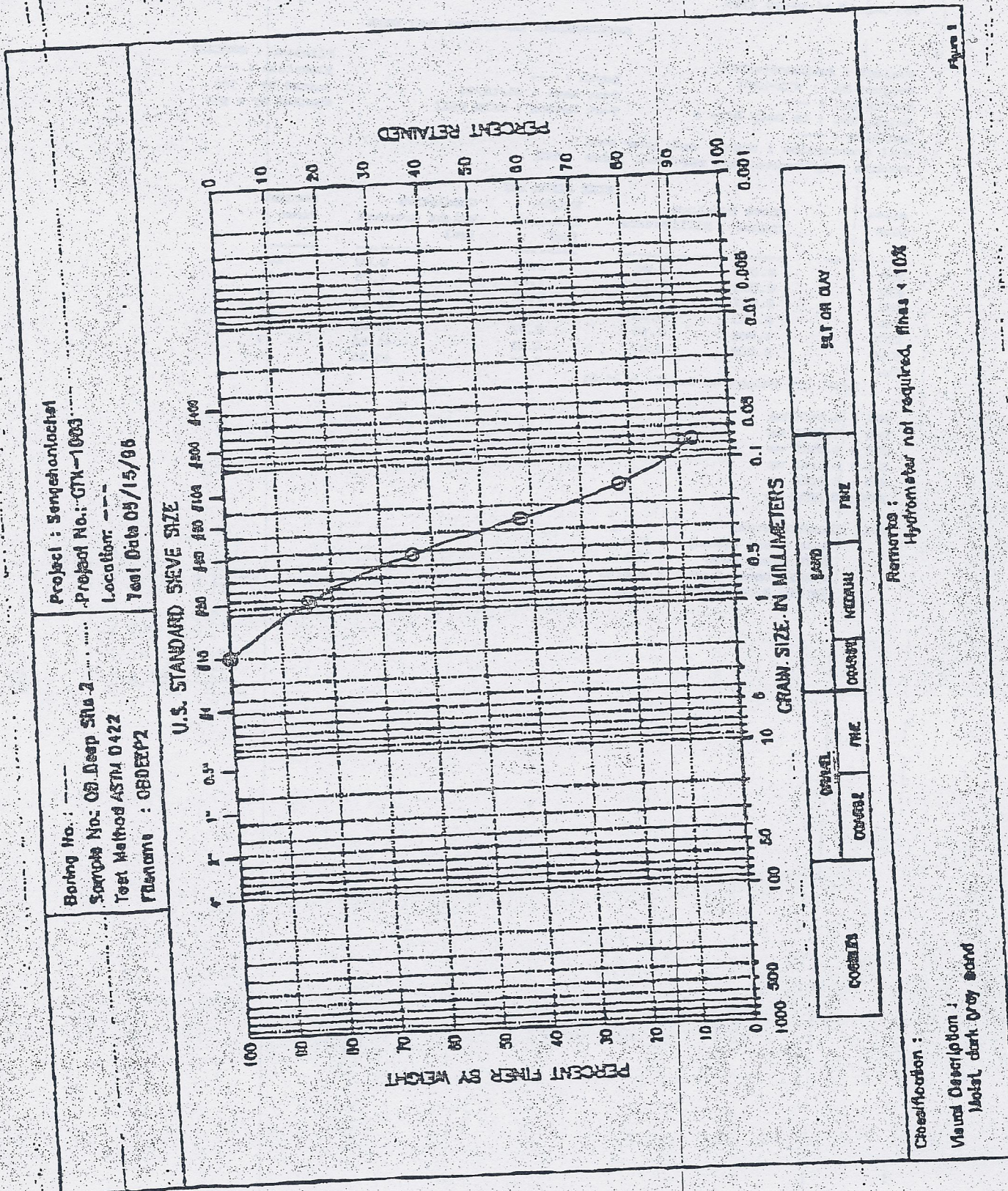
ASTM Group Symbol : SP

ASTM Group Name : poorly graded sand

ASTM Group Symbol : 1-1-b(2)

ASTM Group Name : poorly graded, natural and sand

MAY 17 '96 16:50 GEOTESTING EXPRESS



5-20-98 18:46

GROUNDWATER ANALYTICAL

P. 25

MAY 17 '98 16:51 GEOTESTING EXPRESS

MAY 17 14:49:20 1998

GEOTESTING LABORATORY TEST DATA

Project : Georgetown

Project No. : 672-1003

Boring No. : ---

Sample No. : 1 On deep site 3

Location : ---

Soil Description : White, dark gray sand

Remarks : Hydrometer not required. fines : 10%

Depth : ---

Test Date : 05/15/98

Test Method : ASTM D422

File Name : 672-1003

Elevation : ---

Tested By : Jdt

Checked By : Jdt

Sieve Size	Sieve Opening Nominal Millimeters		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Fines (%)
100	0.075	2.50	0.00	0.00	100
200	0.075	0.84	7.00	7.00	84
400	0.047	0.42	9.30	16.30	64
600	0.025	0.25	9.40	25.70	42
800	0.018	0.18	8.92	34.62	23
1000	0.006	0.07	5.51	40.13	7
2000	0.003	0.07	3.39	43.52	0
Pass					

Total Dry Weight of Sample = 14.51

No. 1 : 0.2500 mm

No. 2 : 0.1500 mm

No. 3 : 0.0750 mm

No. 4 : 0.0475 mm

No. 5 : 0.0250 mm

No. 6 : 0.0150 mm

No. 7 : 0.0075 mm

No. 8 : 0.0037 mm

No. 9 : 0.0019 mm

No. 10 : 0.0009 mm

No. 11 : 0.0005 mm

No. 12 : 0.0002 mm

No. 13 : 0.0001 mm

No. 14 : 0.0000 mm

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No. 49 : 0.0000 mm

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No. 60 : 0.0000 mm