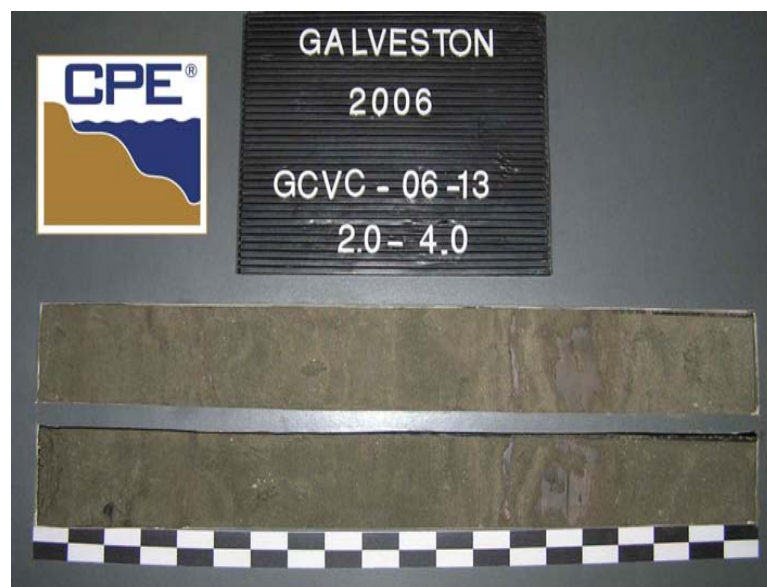
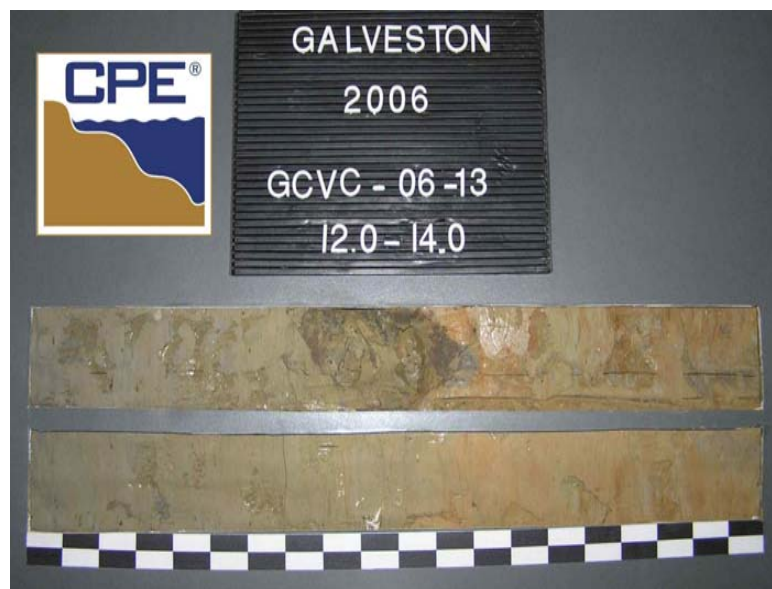






DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Texas Geotechnical Sand Search Galveston County Texas			9. SIZE AND TYPE OF BIT 3.0 In.	
2. BORING DESIGNATION GCVC-06-13			10. COORDINATE SYSTEM/DATUM Texas South Central	
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.			11. MANUFACTURER'S DESIGNATION OF DRILL ☐ AUTO HAMMER ☐ MANUAL HAMMER	
4. NAME OF DRILLER Charles Dill			12. TOTAL SAMPLES DISTURBED UNDISTURBED (UD)	
5. DIRECTION OF BORING ☒ VERTICAL ☐ INCLINED			13. TOTAL NUMBER CORE BOXES	
6. THICKNESS OF OVERBURDEN 0.0 Ft.			14. ELEVATION GROUND WATER	
7. DEPTH DRILLED INTO ROCK 0.0 Ft.			15. DATE BORING 10-08-06 10:41 STARTED 10-08-06 10:43 COMPLETED	
8. TOTAL DEPTH OF BORING 17.3 Ft.			16. ELEVATION TOP OF BORING -17.3 Ft.	
			17. TOTAL RECOVERY FOR BORING 14.9 Ft.	
			18. SIGNATURE AND TITLE OF INSPECTOR ML	

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-17.3	0.0					
-20.9	3.6		SAND, fine grained, quartz, trace shell hash, trace silt, clay lense @ 3.3'; 2.0" clay layer @ 3.4'; gray (5Y-5/1), (SP-SM).		1	Sample #1, Depth = 2.0' Mean (mm): 0.11, Phi Sorting: 0.48 Shell Hash: 0%, Fines (230): 6.29% (SP-SM)
-22.8	5.5		SAND, fine grained, quartz, trace shell, trace shell hash, trace silt, shell fragments up to (0.5"x0.5"); (2.0"x2.0") shell @ 5.1'; 2.0" shell hash layer @ 5.3'; gray (5Y-5/1), (SP).		2	Sample #2, Depth = 4.5' Mean (mm): 0.12, Phi Sorting: 0.58 Shell Hash: 0%, Fines (230): 2.06% (SP)
-28.8	11.5		CLAY, very stiff; brown at top and gray at bottom; reddish gray (5YR-5/2) to olive gray (5Y-5/2), (CL).			
-32.2	14.9		CLAY, very stiff; yellowish red (5YR-5/6) to olive gray (5Y-5/2); mottled between gray and brown, (CL).			
-34.6	17.3		No Recovery.			
			End of Boring			

FLORIDA DEP ROSS GALVESTON VIBRACORES_2006.GPJ FL DEP ROSS.GDT 12/14/06

Granularmetric Report Depths and elevations based on measured values				 Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116			
Project Name: Texas Geotechnical Sand Search							
Sample Name: GCVC-06-13 #1							
Analysis Date: 10-19-06							
Analyzed By: ST							
Easting (ft): 3,214,591		Northing (ft): 13,597,624		Coordinate System: Texas South Central		Elevation (ft): -19.3 MLLW	
USCS: SP-SM		Munsell: Wet - 5Y-5/1 Dry - 5Y-5/1 Washed - 5Y-5/1		Comments:			
Dry Weight (g): 94.56	Wash Weight (g): 89.72	Pan Retained (g): 0.87	Sieve Loss (%): 0.25	Fines (%): #200 - 9.03 #230 - 6.29	Organics (%):	Carbonates (%):	Shell Hash (%): 0
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.05	0.05	0.05	0.05	
5	-2.00	4.00	0.06	0.06	0.11	0.11	
7	-1.50	2.83	0.02	0.02	0.13	0.13	
10	-1.00	2.00	0.09	0.10	0.22	0.23	
14	-0.50	1.41	0.09	0.10	0.31	0.33	
18	0.00	1.00	0.11	0.12	0.42	0.45	
25	0.50	0.71	0.20	0.21	0.62	0.66	
35	1.00	0.50	0.18	0.19	0.80	0.85	
45	1.50	0.35	0.18	0.19	0.98	1.04	
60	2.00	0.25	0.30	0.32	1.28	1.36	
80	2.50	0.18	1.96	2.07	3.24	3.43	
120	3.00	0.13	12.70	13.43	15.94	16.86	
170	3.50	0.09	59.05	62.45	74.99	79.31	
200	3.75	0.07	11.03	11.66	86.02	90.97	
230	4.00	0.06	2.59	2.74	88.61	93.71	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
	3.60	3.47	3.27	3.07	2.97	2.56	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.18	0.11	0.48	-5.06	45.61		

Granularmetric Report

Depths and elevations based on measured values



Coastal Planning & Engineering
2481 NW Boca Raton Blvd, Boca Raton
FL 33431
ph (561) 391-8102
fax (561) 391-9116

Project Name: Texas Geotechnical Sand Search

Sample Name: GCVC-06-13 #2

Analysis Date: 10-19-06

Analyzed By: ST

Easting (ft):

3,214,591

Northing (ft):

13,597,624

Coordinate System:

Texas South Central

Elevation (ft):

-21.8 MLLW

USCS:

SP

Munsell:

Wet - 5Y-5/1

Dry - 5Y-6/1

Washed - 5Y-6/1

Comments:

Dry Weight (g):

97.37

Wash Weight (g):

95.56

Pan Retained (g):

0.19

Sieve Loss (%):

0.00

Fines (%):

#200 - 3.67

#230 - 2.06

Organics (%):

Carbonates (%):

Shell Hash (%):

0

Sieve Number

Sieve Size (Phi)

Sieve Size (Millimeters)

Grams Retained

% Weight Retained

Cum. Grams Retained

C. % Weight Retained

3/4"

-4.25

19.03

0.00

0.00

0.00

0.00

5/8"

-4.00

16.00

0.00

0.00

0.00

0.00

7/16"

-3.50

11.31

0.00

0.00

0.00

0.00

5/16"

-3.00

8.00

0.00

0.00

0.00

0.00

3.5

-2.50

5.66

0.05

0.05

0.05

0.05

4

-2.25

4.76

0.05

0.05

0.10

0.10

5

-2.00

4.00

0.12

0.12

0.22

0.22

7

-1.50

2.83

0.09

0.09

0.31

0.31

10

-1.00

2.00

0.12

0.12

0.43

0.43

14

-0.50

1.41

0.19

0.20

0.62

0.63

18

0.00

1.00

0.22

0.23

0.84

0.86

25

0.50

0.71

0.31

0.32

1.15

1.18

35

1.00

0.50

0.39

0.40

1.54

1.58

45

1.50

0.35

0.46

0.47

2.00

2.05

60

2.00

0.25

0.42

0.43

2.42

2.48

80

2.50

0.18

2.47

2.54

4.89

5.02

120

3.00

0.13

30.44

31.26

35.33

36.28

170

3.50

0.09

51.10

52.48

86.43

88.76

200

3.75

0.07

7.37

7.57

93.80

96.33

230

4.00

0.06

1.57

1.61

95.37

97.94

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.71

3.45

3.37

3.13

2.82

2.68

2.50

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

3.03

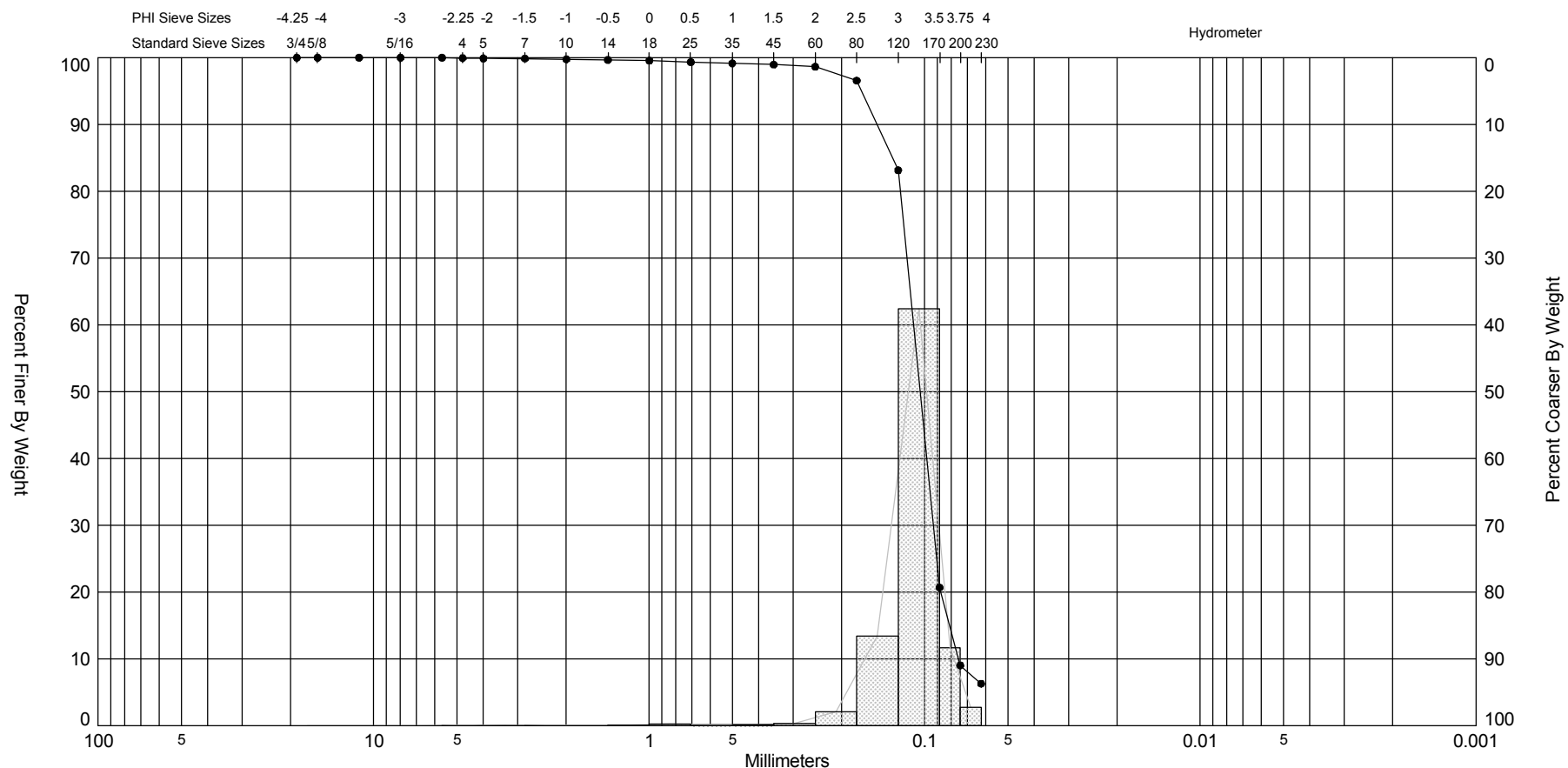
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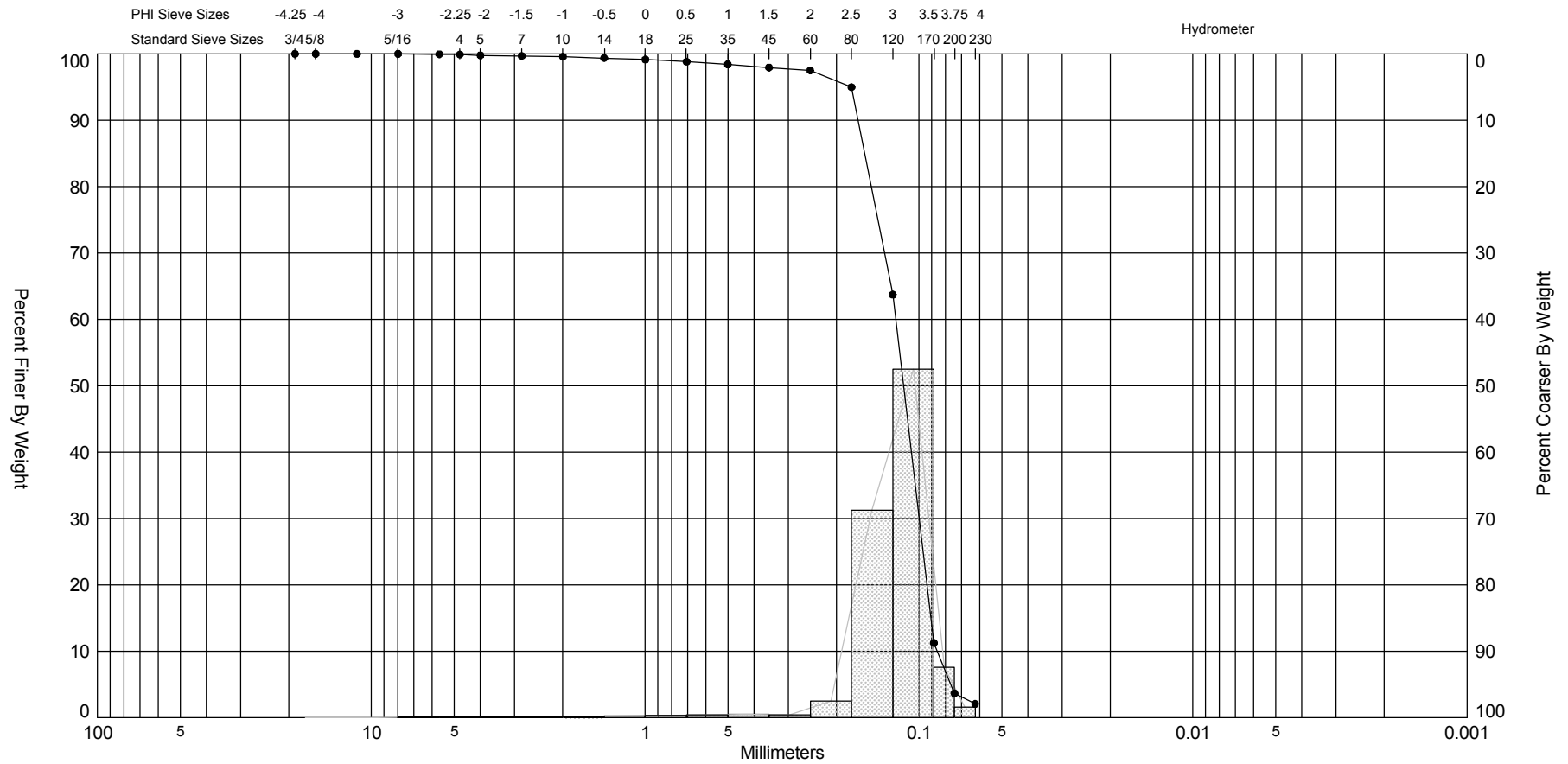
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GRANULARMETRIC REPORT GALVESTON_VIBRACORES_2006.GPJ FL DEP ROSS.GDT 12/14/06



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
GCVC-06-13 #1		-19.3	SP-SM	#200 - 9.03 #230 - 6.29			3.27	3.18	-5.06	45.61	0.48	Project Name:	Texas Geotechnical Sand Search
Comments:												Analysis Date:	10-19-06
Depths and elevations based on measured values												Analyzed By:	ST
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	3,214,591
												Northing (Y, ft):	13,597,624
												Horizontal System:	NAD 1983
												Vertical System:	MLLW



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
GCVC-06-13 #2	—●—	-21.8	SP	#200 - 3.67 #230 - 2.06			3.13	3.03	-4.5	33.96	0.58	Project Name:	Texas Geotechnical Sand Search
Comments:												Analysis Date:	10-19-06
Depths and elevations based on measured values												Analyzed By:	ST
						Coastal Planning & Engineering 2481 NW Boca Raton Blvd, Boca Raton FL 33431 ph (561) 391-8102 fax (561) 391-9116						Easting (X, ft):	3,214,591
												Northing (Y, ft):	13,597,624
												Horizontal System:	NAD 1983
												Vertical System:	MLLW