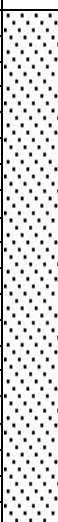
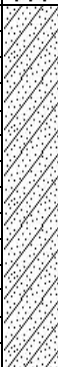


JET PROBE LOG					
PROJECT: Galveston County			JET PROBE: GCJP-04-12		
COORDINATES:	DATE: 04/15/04		WATER DEPTH: 19.2 FT		
N = 13632295	START TIME: 1816		TOP DIVER: JB		
E = 3255031	END TIME: 1823		BOTTOM DIVER: KW		
NOTES	ELEV.	DEPTH	SYMBOL	DESCRIPTION	
LENGTH OF PVC PIPE: 20.0'	-19.2	0		SEA FLOOR	
PENETRATION DEPTH: 17.0'		1		SAND	
JET PUMP TYPE: BRIGGS & STRATON 3.0 HP		2			
GAL/HR: 8460		3			
DIAMETER OF PIPE: 1.5"		4			
SUPPORT VESSEL: Aqua Quest		5			
POSITIONING: DIFFERENTIAL GPS USCG BEACON		6			
NAVIGATION SYSTEM: "HYPACK"		7			
WEATHER:		8			
WIND:		9			
DIR: SOUTH		10			
SPEED: 10 to 15 Kt	-29.2	11		SAND, with Clay Layers	
WAVES:	12				
DIR: SOUTH	13				
HEIGHT: 2 to 3 Ft.	14				
CURRENT:	15				
DIR: SOUTH	16				
SPEED: MODERATE	17				
SAND SAMPLES	-36.2	18			Refusal @ 17.0' Resistant Clay Layer
TOP:	19				
Mean (mm): 0.09, 5.91% Silt, Phi Sorting: 0.41	20				
Munsell Color: Wet 5Y-4/2, Dry 5Y-6/3	21				
BOTTOM:	22				
Mean (mm): 0.09, 14.15% Silt, Phi Sorting: 0.46	23				
Munsell Color: Wet 5Y-4/1, Dry 5Y-6/1	24				
TURBIDITY:					
TOP (0.0' - 8.5'): Moderate					
BOTTOM: (8.5' - 17.0'): Moderate					
DRAWN BY: KW	CHECKED BY: MDA / JLA				
JOB NO: 2600.02					

Gradation Analysis Report

Project Name: Galveston Jet Probes

Sample Name: GCJP-04-12 Top

Sample Date: 4/19/2004

Analyzed By: ID



Coastal Planning & Engineering, Inc.

2481 N.W. Boca Raton Blvd.
Boca Raton, FL 33431

Easting:	3255031	Northing:	13632295	Coordinate System:	State Plane 1983 TX SC Feet	Elevation:	N/A
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USCS:	Dry Munsel:	Wet Munsel:	Comments:
SM	5Y-6/3	5Y-4/2	

Dry Weight:	Wash Weight:	Sieve Loss:	Percent Silt:	Estimated Percent Shell Content:
78.39	75.38	0.02	5.91	0.28

Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4	-4.25	19.02	0.00	0.00	0.00	0.00
5/8	-4.00	16.00	0.00	0.00	0.00	0.00
5/16	-3.25	9.51	0.00	0.00	0.00	0.00
4	-3.00	8.00	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.82	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.00	0.00	0.00	0.00
14	-0.50	1.41	0.00	0.00	0.00	0.00
18	0.00	1.00	0.08	0.10	0.08	0.10
25	0.50	0.70	0.04	0.05	0.12	0.15
35	1.00	0.50	0.07	0.09	0.19	0.24
45	1.50	0.35	0.06	0.08	0.25	0.32
60	2.00	0.25	0.14	0.18	0.39	0.50
80	2.50	0.17	0.77	0.98	1.16	1.48
120	3.00	0.12	3.90	4.98	5.06	6.45
170	3.50	0.08	46.58	59.42	51.64	65.88
200	3.75	0.07	16.47	21.01	68.11	86.89
230	4.00	0.06	5.65	7.21	73.76	94.09
Pan	Pan	Pan	4.61	5.88	78.37	99.97
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.85	3.08	3.16	3.37	3.61	3.72	4.04
Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
Graphic	3.41	0.09	0.34	0.19	1.07	
Moment	3.40	0.09	0.41	0.20	1.64	

Gradation Analysis Report

Project Name: Galveston Jet Probes

Sample Name: GCJP-04-12 Bot

Sample Date: 4/19/2004

Analyzed By: ID



Coastal Planning & Engineering, Inc.

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Boca Raton, FL 33431

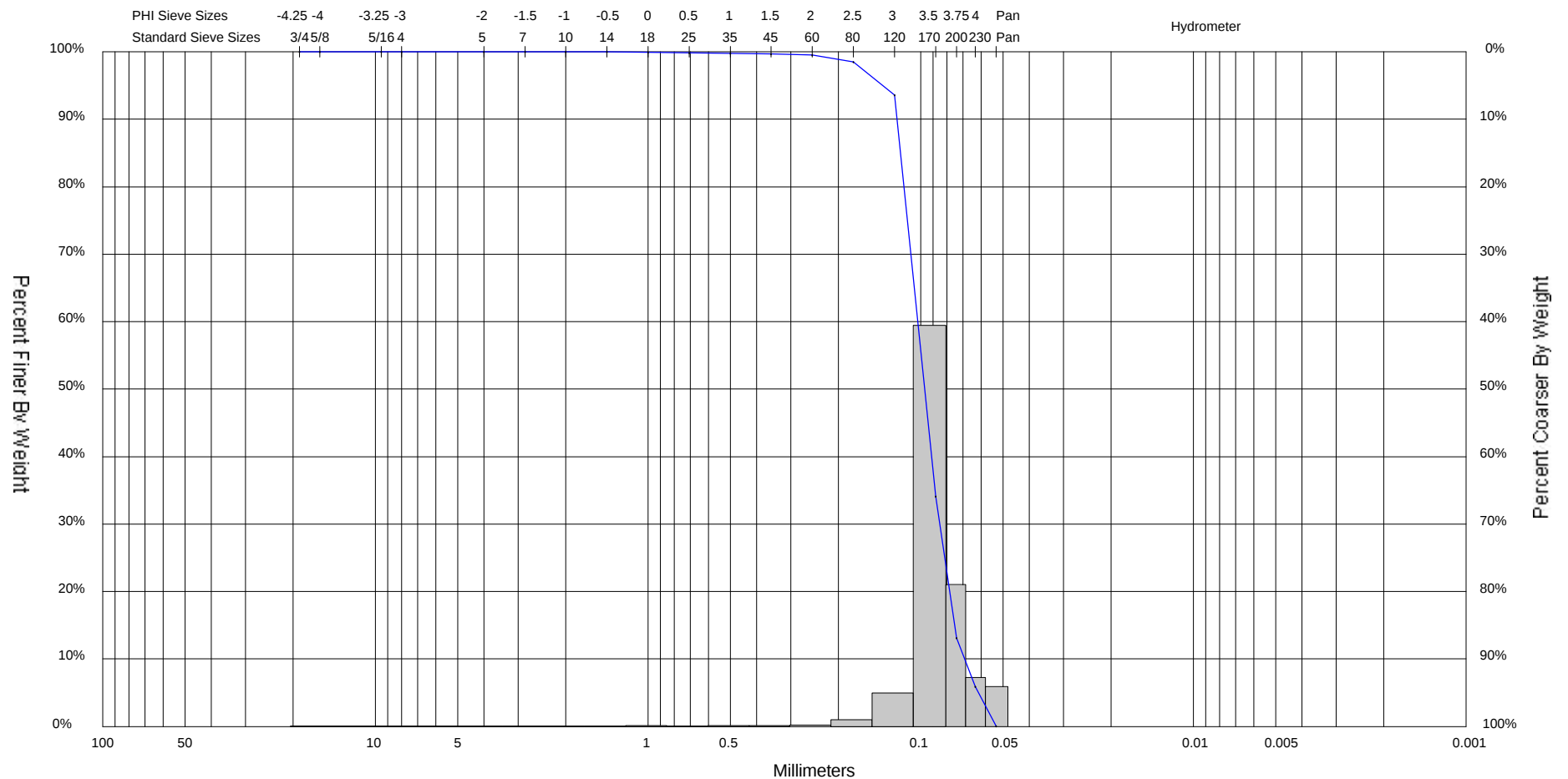
Easting: 3255031	Northing: 13632295	Coordinate System: State Plane 1983 TX SC Feet	Elevation: N/A
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USCS: SM	Dry Munsel: 5Y-6/1	Wet Munsel: 5Y-4/1	Comments:
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Dry Weight: 79.81	Wash Weight: 74.4	Sieve Loss: 0.02	Percent Silt: 14.15	Estimated Percent Shell Content: 0.22
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Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained
3/4	-4.25	19.02	0.00	0.00	0.00	0.00
5/8	-4.00	16.00	0.00	0.00	0.00	0.00
5/16	-3.25	9.51	0.00	0.00	0.00	0.00
4	-3.00	8.00	0.00	0.00	0.00	0.00
5	-2.00	4.00	0.00	0.00	0.00	0.00
7	-1.50	2.82	0.00	0.00	0.00	0.00
10	-1.00	2.00	0.06	0.08	0.06	0.08
14	-0.50	1.41	0.03	0.04	0.09	0.11
18	0.00	1.00	0.03	0.04	0.12	0.15
25	0.50	0.70	0.04	0.05	0.16	0.20
35	1.00	0.50	0.02	0.03	0.18	0.23
45	1.50	0.35	0.05	0.06	0.23	0.29
60	2.00	0.25	0.10	0.13	0.33	0.41
80	2.50	0.17	0.55	0.69	0.88	1.10
120	3.00	0.12	5.18	6.49	6.06	7.59
170	3.50	0.08	49.82	62.42	55.88	70.02
200	3.75	0.07	11.87	14.87	67.75	84.89
230	4.00	0.06	0.77	0.96	68.52	85.85
Pan	Pan	Pan	11.27	14.12	79.79	99.97
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
2.8	3.07	3.14	3.34	3.58	3.74	4.16

Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis
Graphic	3.42	0.09	0.37	0.35	1.26
Moment	3.40	0.09	0.46	0.34	1.84



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev.	Comments	USCS	% Silt	Median	Mean	Skew	Kurt	Sort	Sample Information	
GCJP-04-12 Top		N/A		SM	5.91	0.10	0.09	0.20	1.64	0.41	Project Name:	Galveston Jet Probes
Incremental % Weight		N/A	Use Left Hand Scale								Collection Date:	4/19/2004
											Analyzed By:	ID
				Coastal Planning & Engineering, Inc. 2481 N.W. Boca Raton Blvd. Boca Raton, FL 33431 ph 561 391-8102 fax 561 391-9116							Easting (X):	3255031
											Northing (Y):	13632295
											Horizontal System:	State Plane 1983 TX SC Feet
											Vertical System:	NAVD 1988 Feet

