

Boring Designation SB04

DRILLING LOG		DIVISION	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT Matagorda County Sand Search Matagorda County, Texas			9. SIZE AND TYPE OF BIT	
2. BORING DESIGNATION SB04			10. COORDINATE SYSTEM/DATUM UTM Zone 15	
3. DRILLING AGENCY Coastal Tech			11. MANUFACTURER'S DESIGNATION OF DRILL 3" Dia Vibracore and Auger	
4. NAME OF DRILLER Randy Parkinson,			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 N/A			15. DATE BORING STARTED 05-10-05 COMPLETED 05-10-05	
8. TOTAL DEPTH OF BORING 11.2 Ft.			16. ELEVATION TOP OF BORING 2.0 Ft.	
			17. TOTAL RECOVERY FOR BORING 11.2 Ft.	
			18. SIGNATURE AND TITLE OF INSPECTOR	

ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
2.0	0.0					
-1.0	3.0		Fine grained, quartz, SAND, augered interval 0.0'-3.0', contact obscured, yellow (10YR-7/6), (SP).		1	Sample #1, Depth = 0.0' - 0.0'
					2	Sample #2, Depth = 3.0' - 3.3' Core Interval 0.0-0.3'
					3	Sample #3, Depth = 9.0' - 9.3' Core Interval 6.0-6.3'
-9.2	11.2		Fine grained, quartz, SAND, thin (cm) clay seams from 5.5' to 7.5', yellow (10YR-7/6), (SP).		4	Sample #4, Depth = 11.0' - 11.2' Core Interval 8.0-8.2'
			End of Boring			

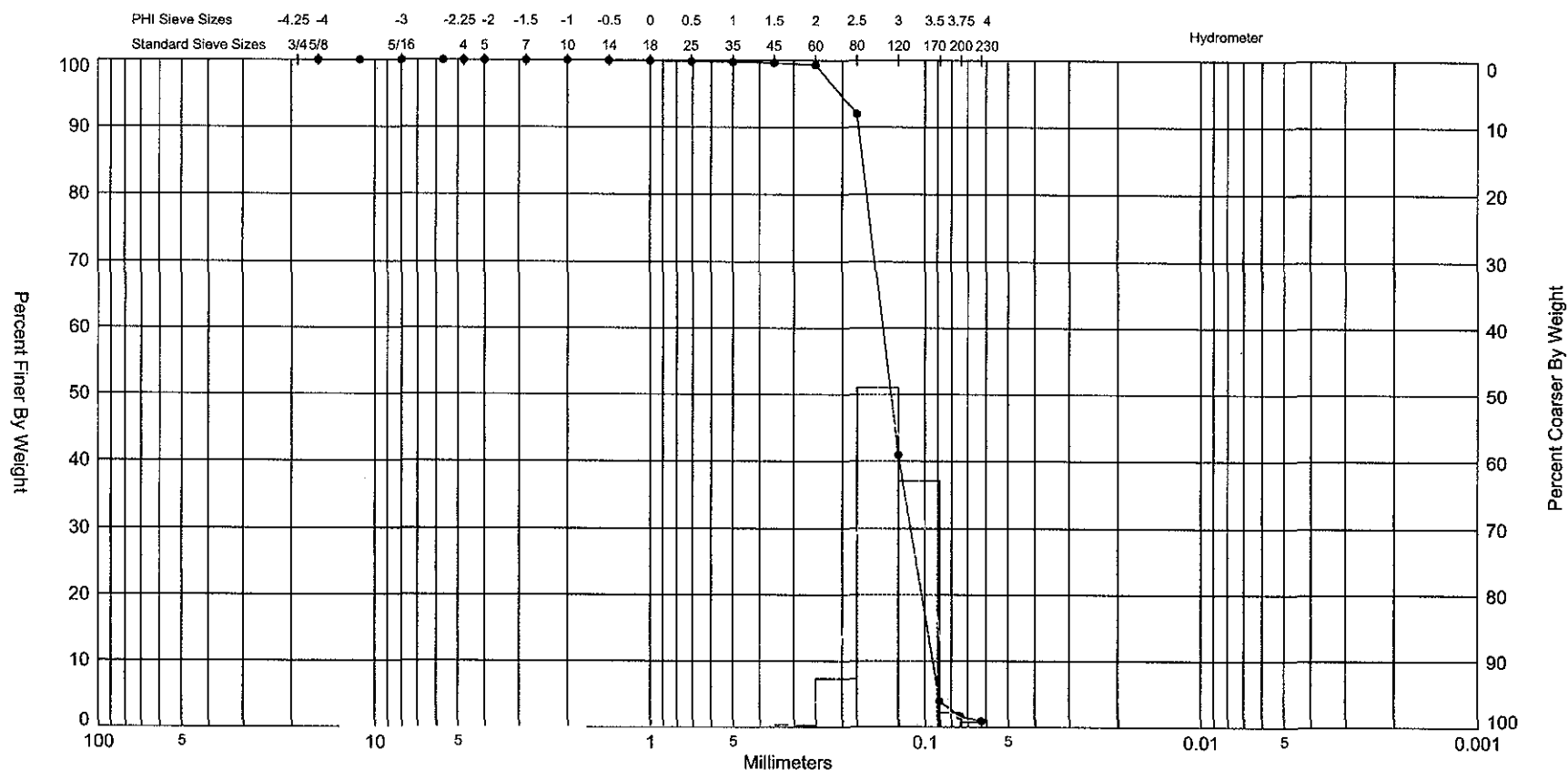
FLORIDA DEP ROSS MATAGORDA COUNTY TEXAS GPJ FL DEP ROSS.GDT 6/7/05

Scale in Ft

SB04

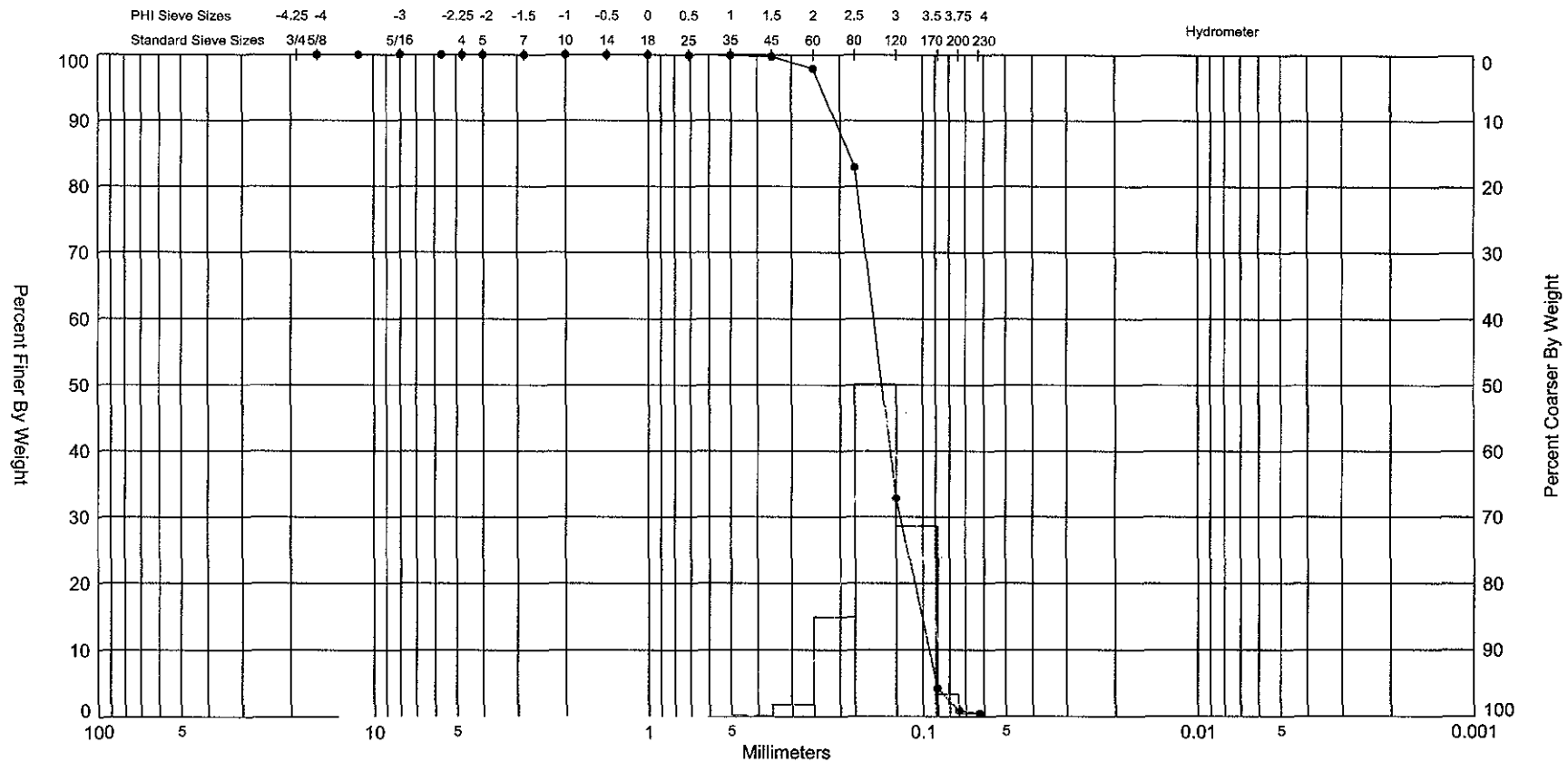
COASTAL TECH
COASTAL TECH





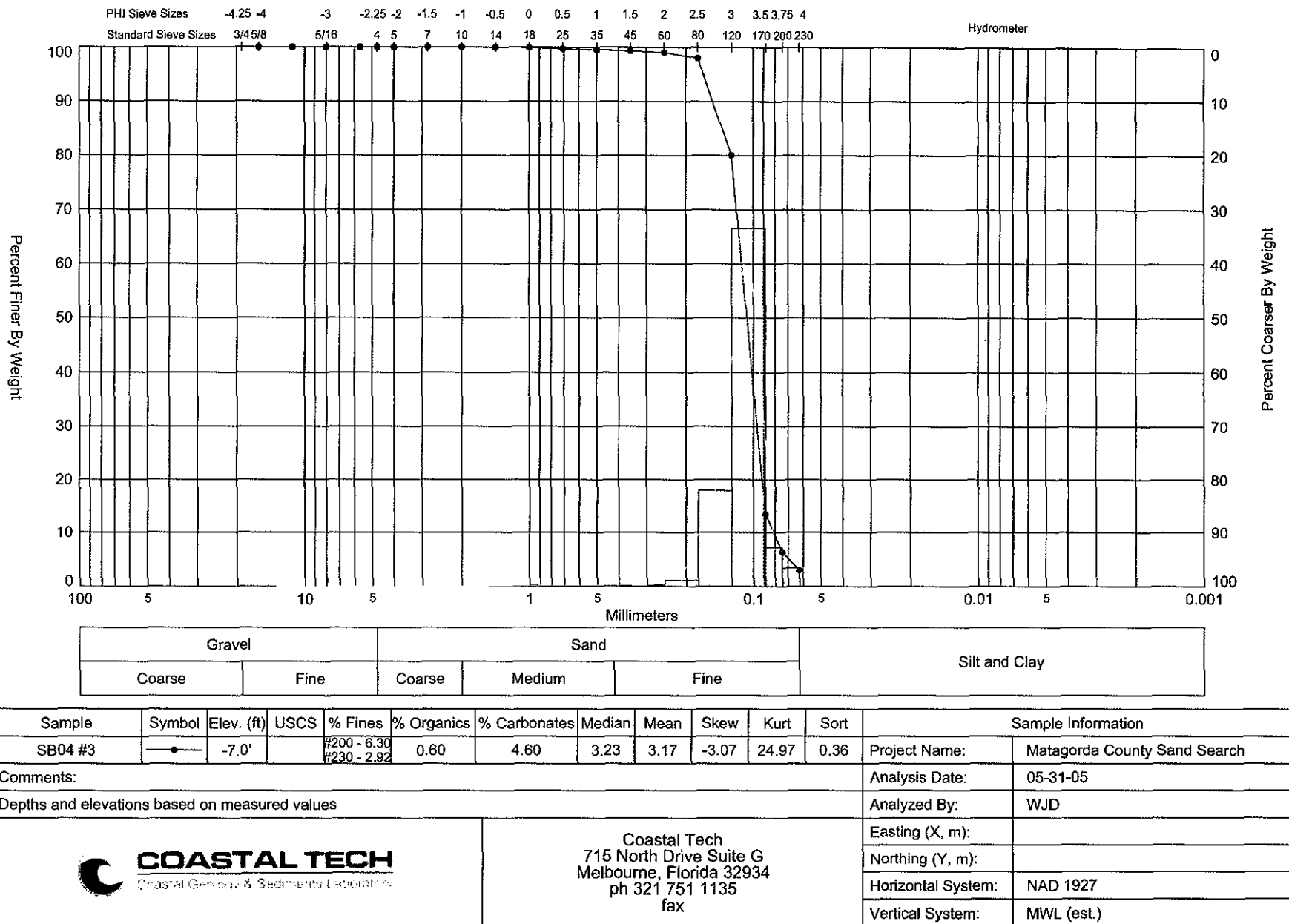
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
SB04 #1		2.0'	SP	#200 - 1.66 #230 - 0.90	0.60	2.50	2.91	2.92	-1.39	13.29	0.37	Project Name:	Matagorda County Sand Search
Comments:												Analysis Date:	05-31-05
Depths and elevations based on measured values												Analyzed By:	WJD
 COASTAL TECH Coastal Geology & Sediments Laboratory						Coastal Tech 715 North Drive Suite G Melbourne, Florida 32934 ph 321 751 1135 fax						Easting (X, m):	
												Northing (Y, m):	
												Horizontal System:	NAD 1927
												Vertical System:	MWL (est.)

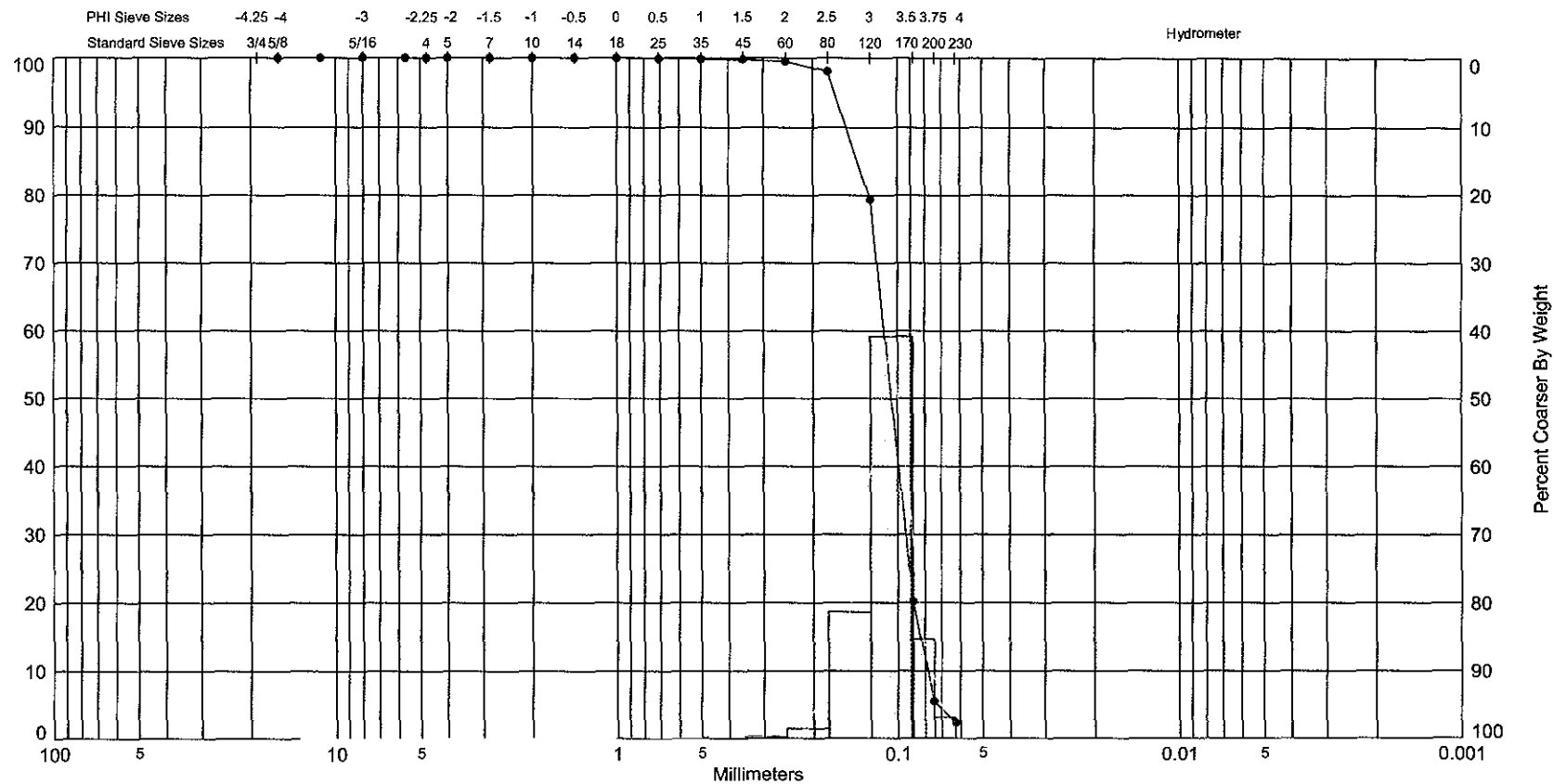


Gravel		Sand			Silt and Clay	
Coarse	Fine	Coarse	Medium	Fine		

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
SB04 #2	—●—	-1.0'	SP	#200 - 0.91 #230 - 0.48	0.30	3.30	2.83	2.83	-0.48	4.6	0.4	Project Name:	Matagorda County Sand Search
Comments:												Analysis Date:	05-31-05
Depths and elevations based on measured values												Analyzed By:	WJD
 COASTAL TECH Coastal Geology & Sediments Laboratory												Easting (X, m):	
												Northing (Y, m):	
												Horizontal System:	NAD 1927
												Vertical System:	MWL (est.)
Coastal Tech 715 North Drive Suite G Melbourne, Florida 32934 ph 321 751 1135 fax													



Percent Finer By Weight



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	
SB04 #4		-9.0'		#200 - 5.52 #230 - 2.39	0.60	5.20	3.25	3.21	-1.66	13.18	0.34	Project Name:	Matagorda County Sand Search
Comments:												Analysis Date:	05-31-05
Depths and elevations based on measured values												Analyzed By:	WJD
 COASTAL TECH Coastal Geology & Sediments Laboratory						Coastal Tech 715 North Drive Suite G Melbourne, Florida 32934 ph 321 751 1135 fax						Easting (X, m):	
												Northing (Y, m):	
												Horizontal System:	NAD 1927
												Vertical System:	MWL (est.)

Granulometric Report

Depths and elevations based on measured values



COASTAL TECH

Coastal Geology & Sediments Laboratory

Project Name: Matagorda County Sand Search

Sample Name: SB04 #1

Analysis Date: 05-31-05

Analyzed By: WJD

Coastal Tech
715 North Drive Suite G
Melbourne, Florida 32934
ph 321 751 1135
fax

Easting (m):

Northing (m):

Coordinate System:

Elevation (ft):

UTM Zone 15

2.0' MWL (est.)

USCS:

SP

Munsell:

Wet - 10YR-7/6

Comments:

Dry Weight (g):

61.39

Wash Weight (g):

61.39

Pan Retained (g):

0.41

Sieve Loss (%):

0.23

Fines (%):

#200 - 1.66

#230 - 0.90

Organics (%):

0.60

Carbonates (%):

2.50

Shells (%):

Sieve Number

Sieve Size
(Phi)

Sieve Size
(Millimeters)

Grams
Retained

% Weight
Retained

Cum. Grams
Retained

C. % Weight
Retained

5/8"

-4.00

16.00

0.00

0.00

0.00

0.00

11/16"

-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

0.00

0.00

0.00

0.00

5

-2.00

4.00

0.00

0.00

0.00

0.00

7

-1.50

2.83

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

0.03

0.05

0.03

0.05

18

0.00

1.00

0.03

0.05

0.06

0.10

25

0.50

0.71

0.05

0.08

0.11

0.18

35

1.00

0.50

0.05

0.08

0.16

0.26

45

1.50

0.35

0.07

0.11

0.23

0.37

60

2.00

0.25

0.18

0.29

0.41

0.67

80

2.50

0.18

4.51

7.35

4.92

8.01

120

3.00

0.13

31.34

51.05

36.26

59.06

170

3.50

0.09

22.74

37.04

59.00

96.11

200

3.75

0.07

1.37

2.23

60.37

98.34

230

4.00

0.06

0.47

0.77

60.84

99.10

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.49

3.34

3.22

2.91

2.67

2.58

2.29

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.92

0.13

0.37

-1.39

13.29

GRANULOMETRIC REPORT MATAGORDA COUNTY TEXAS.GPJ FL DEP ROSS.GDT 6/7/05

Granulometric Report

Depths and elevations based on measured values

**COASTAL TECH**

Coastal Geology & Sediments Laboratory

Project Name: Matagorda County Sand Search

Sample Name: SB04 #2

Analysis Date: 05-31-05

Analyzed By: WJD

Coastal Tech
715 North Drive Suite G
Melbourne, Florida 32934
ph 321 751 1135
fax

Easting (m):

Northing (m):

Coordinate System:

Elevation (ft):

UTM Zone 15

-1.0' MWL (est.)

USCS:

Munsell:

Comments:

SP

Wet - 10YR-7/6

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
83.79	83.79	0.40	0.00	#200 - 0.91 #230 - 0.48	0.30	3.30	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
5/8"	-4.00	16.00		0.00	0.00	0.00	
11/16"	-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	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	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	0.02	0.02	0.02	0.02	
25	0.50	0.71	0.02	0.02	0.04	0.05	
35	1.00	0.50	0.04	0.05	0.08	0.10	
45	1.50	0.35	0.13	0.16	0.21	0.25	
60	2.00	0.25	1.54	1.84	1.75	2.09	
80	2.50	0.18	12.55	14.98	14.30	17.07	
120	3.00	0.13	41.98	50.10	56.28	67.17	
170	3.50	0.09	23.96	28.60	80.24	95.76	
200	3.75	0.07	2.79	3.33	83.03	99.09	
230	4.00	0.06	0.36	0.43	83.39	99.52	

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.49

3.29

3.14

2.83

2.58

2.46

2.10

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

2.83

0.14

0.4

-0.48

4.6

Granularmetric Report

Depths and elevations based on measured values



COASTAL TECH

Coastal Geology & Sediments Laboratory

Project Name: Matagorda County Sand Search

Sample Name: SB04 #3

Analysis Date: 05-31-05

Analyzed By: WJD

Coastal Tech
715 North Drive Suite G
Melbourne, Florida 32934
ph 321 751 1135
fax

Easting (m):

Northing (m):

Coordinate System:

Elevation (ft):

UTM Zone 15

-7.0' MWL (est.)

USCS:

Munsell:

Comments:

Wet - 10YR-7/6

Dry Weight (g):	Wash Weight (g):	Pan Retained (g):	Sieve Loss (%):	Fines (%):	Organics (%):	Carbonates (%):	Shells (%):
97.30	97.30	2.84	0.00	#200 - 6.30 #230 - 2.92	0.60	4.60	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
5/8"	-4.00	16.00		0.00	0.00	0.00	
11/16"	-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	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	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	0.02	0.02	0.02	0.02	
18	0.00	1.00	0.08	0.08	0.10	0.10	
25	0.50	0.71	0.19	0.20	0.29	0.30	
35	1.00	0.50	0.17	0.17	0.46	0.47	
45	1.50	0.35	0.20	0.21	0.66	0.68	
60	2.00	0.25	0.25	0.26	0.91	0.94	
80	2.50	0.18	1.04	1.07	1.95	2.00	
120	3.00	0.13	17.46	17.94	19.41	19.95	
170	3.50	0.09	64.79	66.59	84.20	86.54	
200	3.75	0.07	6.97	7.16	91.17	93.70	
230	4.00	0.06	3.29	3.38	94.46	97.08	

Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95
3.85	3.48	3.41	3.23	3.04	2.89	2.58
Moment Statistics	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis	
	3.17	0.11	0.36	-3.07	24.97	

GRANULARMETRIC REPORT MATAGORDA COUNTY TEXAS.GPJ FL DEP ROSS.GDT 6/7/05

Granulometric Report

Depths and elevations based on measured values

**COASTAL TECH**

Coastal Geology & Sediments Laboratory

Project Name: Matagorda County Sand Search

Sample Name: SB04 #4

Analysis Date: 05-31-05

Analyzed By: WJD

Coastal Tech
715 North Drive Suite G
Melbourne, Florida 32934
ph 321 751 1135
fax

Easting (m):

Northing (m):

Coordinate System:

Elevation (ft):

UTM Zone 15

-9.0' MWL (est.)

USCS:

Munsell:

Comments:

Wet - 10YR-7/6

Dry Weight (g):

Wash Weight (g):

Pan Retained (g):

Sieve Loss (%):

Fines (%):

Organics (%):

Carbonates (%):

Shells (%):

88.61

88.61

2.12

0.00

#200 - 5.52
#230 - 2.39

0.60

5.20

Sieve Number

Sieve Size
(Phi)Sieve Size
(Millimeters)Grams
Retained% Weight
RetainedCum. Grams
RetainedC. % Weight
Retained

5/8"

-4.00

16.00

0.00

0.00

0.00

0.00

11/16"

-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

0.00

0.00

0.00

0.00

5

-2.00

4.00

0.00

0.00

0.00

0.00

7

-1.50

2.83

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

0.03

0.03

0.03

0.03

25

0.50

0.71

0.06

0.07

0.09

0.10

35

1.00

0.50

0.06

0.07

0.15

0.17

45

1.50

0.35

0.09

0.10

0.24

0.27

60

2.00

0.25

0.20

0.23

0.44

0.50

80

2.50

0.18

1.27

1.43

1.71

1.93

120

3.00

0.13

16.55

18.68

18.26

20.61

170

3.50

0.09

52.44

59.18

70.70

79.79

200

3.75

0.07

13.02

14.69

83.72

94.48

230

4.00

0.06

2.77

3.13

86.49

97.61

Phi 5

Phi 16

Phi 25

Phi 50

Phi 75

Phi 84

Phi 95

3.79

3.57

3.46

3.25

3.04

2.88

2.58

Moment

Mean Phi

Mean mm

Sorting

Skewness

Kurtosis

Statistics

3.21

0.11

0.34

-1.66

13.18

GRANULOMETRIC REPORT MATAGORDA COUNTY TEXAS.GPJ FL DEP ROSS.GDT 6/7/05