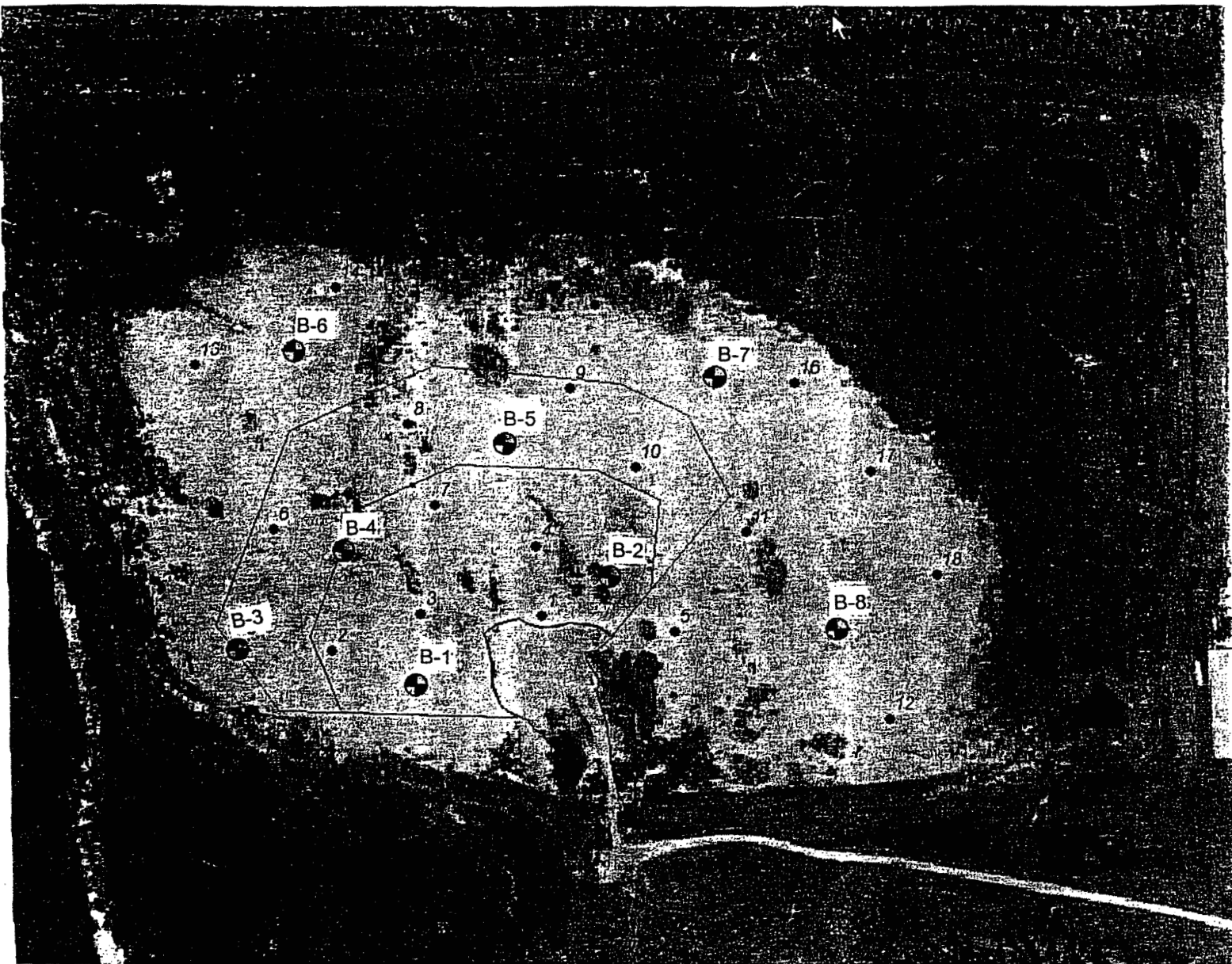




ENGINEERING AND TESTING
LABORATORY, INC.



BORING LOCATION PLAN

NO SCALE

October 7, 2004

Attn.: Mr. Hugo E. Bermudez, P.E.

RETL Job No.: C0400619

TOWN OF QUINTANA BEACH NOURISHMENT PROJECT

Port of Bay City

Bay City, Texas

ROCK ENGINEERING AND TESTING LABORATORY, INC.
4910 NEPTUNE STREET
CORPUS CHRISTI, TX 78405
(361) 883-4555

LOG OF BORING B-1

SHEET 1 of 1



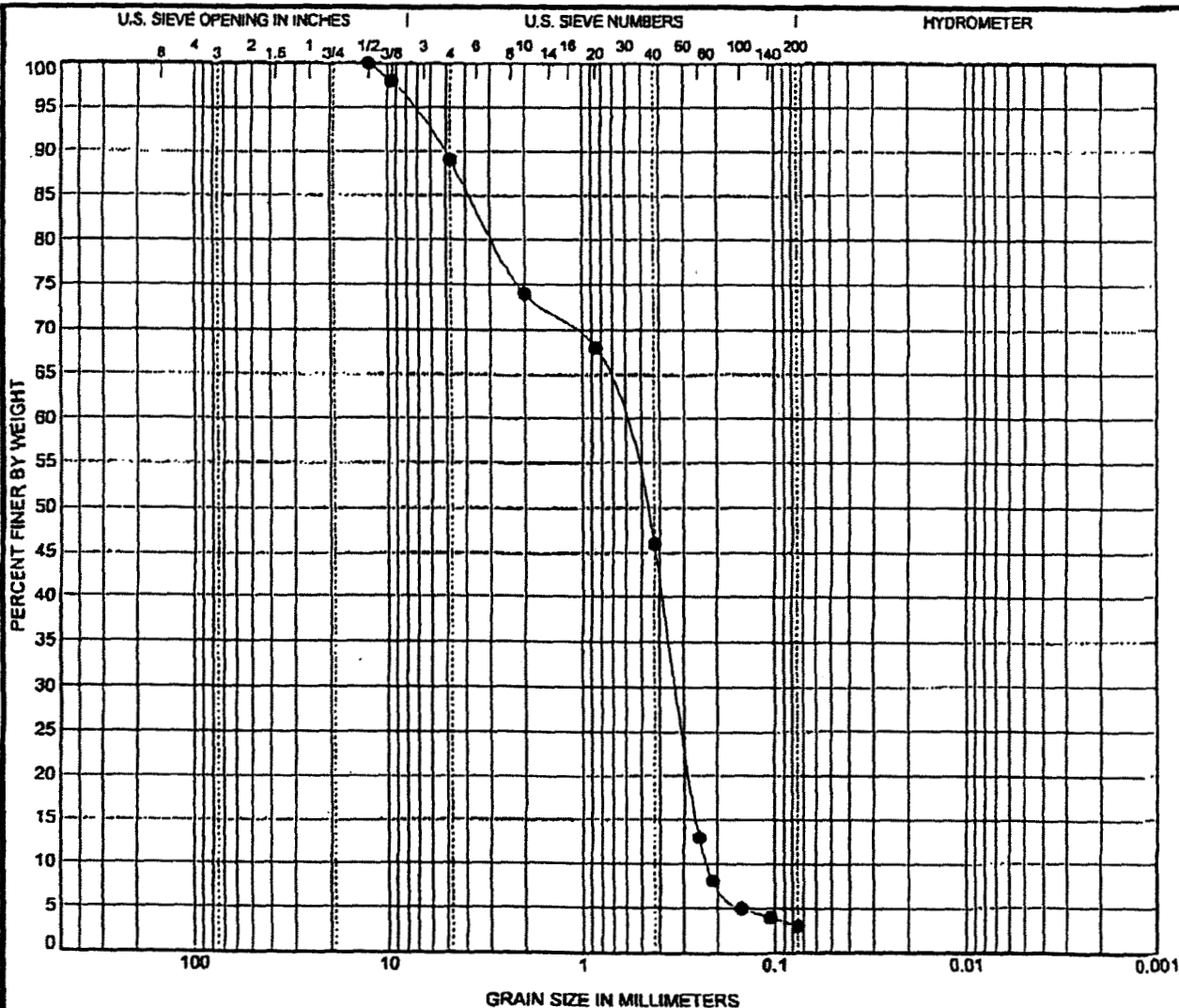
Rock Engineering and Testing Laboratory, Inc.
4910 Neptune Street
Corpus Christi, Texas 78405
Telephone: (361) 883-4555
Fax: (361) 883-4711

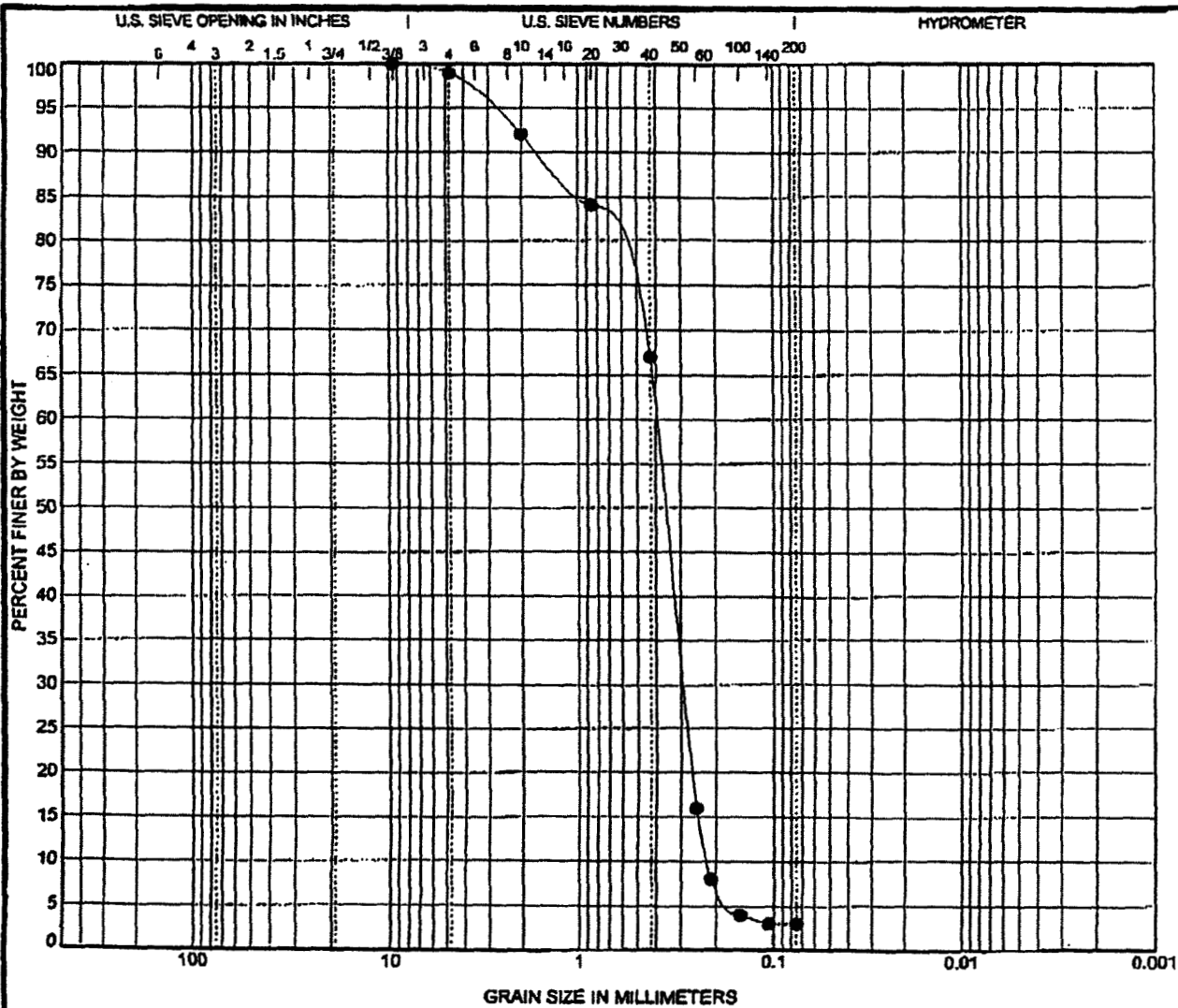
CLIENT: Coast and Harbor Engineering, Inc.
PROJECT: Prop. Quintana Beach Nourishment
LOCATION: Port of Bay City, Texas
NUMBER: C0400619

DATE(S) DRILLED: 9/8/04 - 9/8/04

FIELD DATA					LABORATORY DATA							DRILLING METHOD(S): Hollow Stem Auger
SOIL SYMBOL	DEPTH (FT)	SAMPLE NUMBER	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION	MOISTURE CONTENT (%)	ATTERBERG LIMITS			DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ FT)	MINUS NO. 200 SIEVE (%)	GROUNDWATER INFORMATION: Groundwater (GW) was not noted during drilling or measured upon completion of drilling operations.
						LIQUID LIMIT LL	PLASTIC LIMIT PL	PLASTICITY INDEX PI				SURFACE ELEVATION: N/A
												DESCRIPTION OF STRATUM
		SS S-1	N= 10	2							3	POORLY GRADED SAND , light reddish brown (5YR 6/4), dry, medium. (SP)
	5	SS S-2	N= 12	3								Same as above, reddish yellow (5YR 7/6).
		SS S-3	N= 12	3								Same as above, reddish yellow (5YR 7/6).
	10	SS S-4	N= 16	4								POORLY GRADED SAND , pink (7.5YK 7/4), dry, medium.
		SS S-5	N= 17	3							3	Same as above, pink (7.5YK 7/4). (SP)
	15	SS S-6	N= 19	4								Same as above, pink (7.5YK 7/4).
		SS S-7	N= 25	4								POORLY GRADED SAND , pink (7.5YK 7/4), dry, medium.
	20	SS S-8	N= 18	4								Same as above, pink (7.5YK 7/4).
	25	SS S-9	N= 8	4								Same as above, pink (7.5YK 7/4), loose.
	30	SS S-10	N= 8	20							4	POORLY GRADED SAND , with clay balls, brown (7.5YK 5/3), moist, loose. (SP)
												Boring was terminated at a depth of 30-feet.
N - STANDARD PENETRATION TEST RESISTANCE P - POCKET PENETROMETER RESISTANCE T - POCKET TORVANE SHEAR STRENGTH												REMARKS: Boring location and depth was determined by Coast and Harbor Engineering, Inc. and boring was performed by Envirocore, a drilling sub-contractor to RETL.

LOG OF BORING C04619.GPJ ROCK ETL.GDT 10/7/04





COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	B-1 11.0	POORLY GRADED SAND(SP)				0.96	1.79

[illegible]

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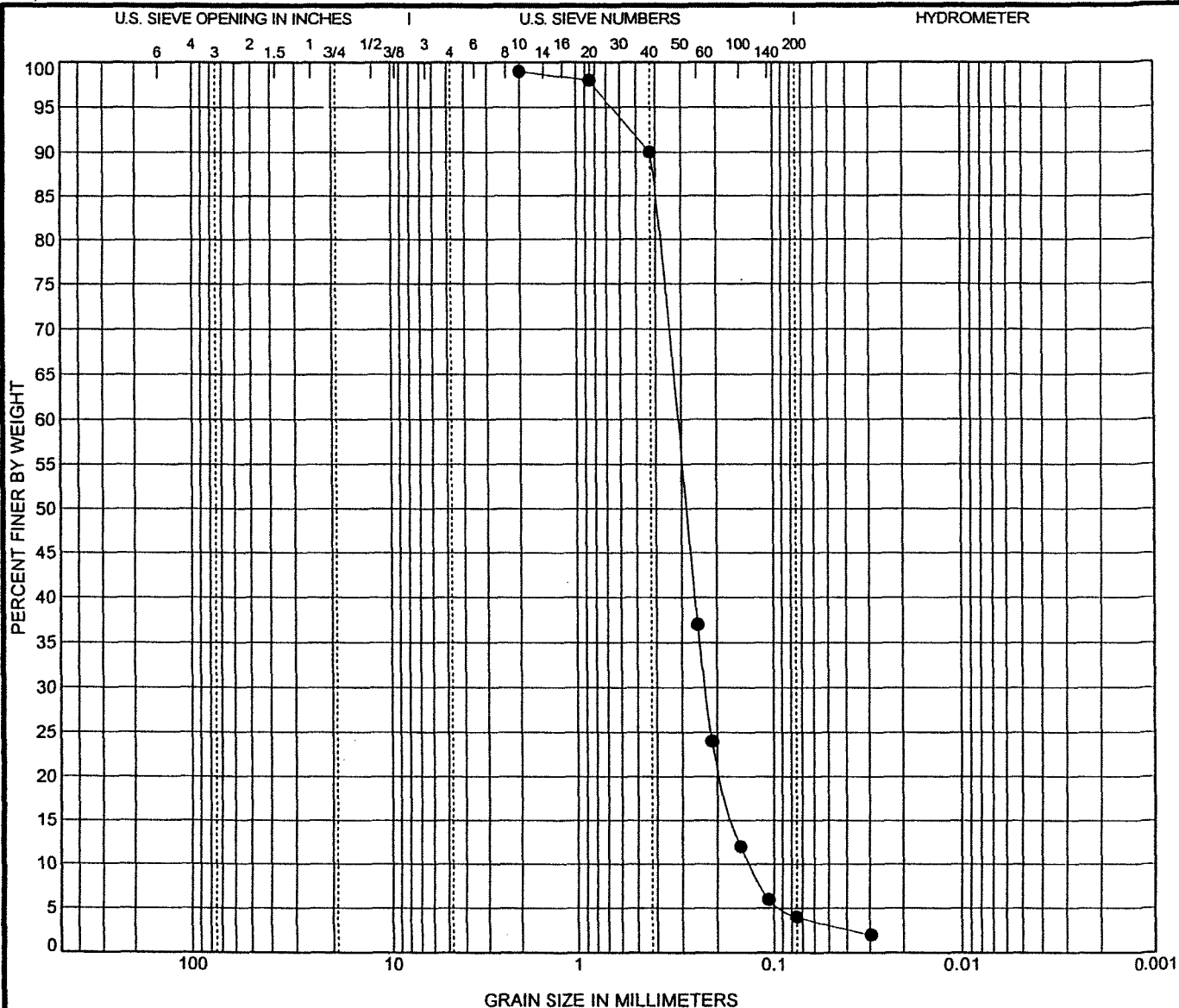
GRAIN SIZE DISTRIBUTION

Project: Prop. Quintana Beach Nourishment

Location: Port of Bay City, Texas

Number: C0400619

US GRAIN SIZE COMS19.GPJ US LAB.GOT 112.74



COBBLES	GRAVEL		SAND			' SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	B-1 23.0	POORLY GRADED SAND(SP)				1.24	2.36

[illegible]

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