UCB-BYU-UCLA ZETAS-SaU-METU Project Name: Ground Failure and Building Performance in Adapazari, Turkey Location: Site B - Kuyudibi Ave. and Yaprak Street, Karaosman District, Adapazari

Date: July 4, 2000

Sponsored by: NSF, Caltrans

Joint Research

Field Log by: Rodolfo B. Sancio

Operator: ZETAS (Zemin Teknolojisi, A. S.) Drilling Method: Rotary wash with 9 cm-diameter tricone bit

CEC, PG&E

Water Table Elevation: GWL = 3.3 m 06/05/00, Caved in at 3.05 m 07/08

Notes: Solid flight auger used to a depth of 1 m

Test ID: SPT-B1

GPS Coordinates: 40.78513°N 30.40024°E

Elevation: -22 cm with respect to CPT-B3

Drilling Equipment: Custom made, equivalent to Crealius XC90H Responsible Engineers: J. D. Bray and R. B. Sancio, U. C. Berkeley

SPT System: Rope, pulley and cathead method. AWJ rods. Hammer Type: Safety Hammer (per Kovacs et al. 1983)

Depth Scale (m)	Lithology	USCS	Sample Type and No.	Recovery/ Length (cm)	SPT Blows/15 cm	Casing Depth (m)	Rod Length (m)	Energy Ratio (%)	Description	qu Pocket Pen (kPa)	Su Torvane (kPa)	Moisture Content (%)	Liquid Limit	Plasticity Index	% fines < 75 µm	< 5 µm (%)	< 2 µm (%)	D50 (mm)	D10 (mm)	Remarks
-1									Fill: Rubble from demolition of building B1. Brown sandy silty clay											
-2	H	ML	S-B1-1	31/45	1-1-1	1.55	5.80		CLAYEY SILT: Olive gray clayey silt with traces of fine sand. S-C2-B is gray brown clayey silt. The brown tones may be due to oxidation of	50		32	37	-	96	33	28	0.012	<2µm	
-3	H	ML ML	S-B1-2A S-B1-2B	32/45	2-1-2	2.55	5.80	49 49	ferric minerals SAND AND SILT: Brown low	60 70		32 31	31 42	-	82 93	<15% 44	<10% 33	0.05 0.007	0.014 <2µm	
- - - 4		SM ML	S-B1-3A S-B1-3B	41/45	2-5-3	3.35	7.32	63 63	plasticity silt to silty fine sand. FC of recovered samples varies from 14% to 66%	250 110		24 30	-	-	21 59	- <15%	- <10%	0.17 0.07	0.05 0.018	
	 - -	SM ML	S-B1-4A S-B1-4B	27/45	4-3-6	4.15	8.84	68 68	SILTY SAND: Gray sand	150 110		27 23	27	-	14 66	3 18	2 15	0.13 0.05	0.06 <2µm	
- 5 -		SM	S-B1-5	30/45	10-12-14	4.95	8.84	63	mixtures grading with depth from sandy silt to sand with silt and sand with silt and fine to			17	-	-	29	-	-	0.5	-	
-6 -7		SW-SM	S-B1-6	21/45	9-13-16	6.15	10.37	66	coarse gravel. Gravel content is irregularly variable from 2% to 27%. The shape of the gravel particles is variable from flat and elongated to well proportioned angular and rounded			11	-	-	5	-	-	1.7	0.21	
- - 8 - - - - - 9		SP-SM	S-B1-7	18/45	9-15-17	7.95	11.89					15	-	-	5	-	-	0.6	0.17	
-10		СН	S-B1-8	35/45	3-3-5	10.45	13.42	67	CH: Stiff gray moist high plasticity silty clay. Wash water shows traces of shells.	200	38	35	62	40	100	68	59	0.001	<2µm	

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-12 -13 -14 -15 -16	SM	S-B1-9 S-B1-10 S-B1-11	32/45 38/45 27/45	7-5-5	10.45 10.45	16.46		CLAY AND SAND: Interbedded thin strata of gray silty sand to sandy silt and gray silty clay to clayey silt CH: Moist gray high plasticity silty clay. Very thin (< 1 cm) red oxidized seams found in S-B1-11	275 220		28	27	- 34	36	<15% 80	<10% 58	0.09	0.037 <1μm	SPT-B1-11 was peformed using BW rods and donut hammer