**UCB-BYU-UCLA ZETAS-SaU-METU** 

Joint Research

Project Name: Geotechnical Site Investigation at Electrical Sub-Stations

Location: Adapazari Electrical Sub-Station

Date: August 20, 2000

Field Log by: Rodolfo B. Sancio

Sponsored by:

NSF, Caltrans CEC, PG&E

Operator: ZETAS (Zemin Teknolojisi, A. S.)

Drilling Method: Rotary wash with 9 cm-diameter tricone bit Water Table Elevation: Not present up to depth explored

Notes:

Test ID: SPT-AS1

GPS Coordinates: 40.74250°N 30.38408°E

Elevation: -0.10 m with respect to WP 27 **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)

	Notes.																			
Depth Scale (m)	Lithology	NSCS	Sample Type and No.	Recovery/ Length (cm)	SPT Blows/15 cm	Casing Depth (m)	Rod Length (m)	Energy Ratio (%)	Description	qu Pocket Pen (kPa)	<sup>S</sup> u Torvane (kPa)	Moisture Content (%)	Liquid Limit	Plasticity Index	% fines < 75 µm	< 5 µm (%)	< 2 µm (%)	D50 (mm)	D10 (mm)	Remarks
- 0 1 - 1 2									Fill: Medium dense, yellow, gravelly compacted fill. At a depth of approximately 5.2 m there appears to be a trnsition to stiff brown clay											Very difficult to excavate with manual equipment. The rock used as fill appears to be gray sandstone weathered to light brown silty sandy gravel
-3		GP-SC	S-AS1-1	22/45	4-10-12	1.95	5.80	60				8	27	10	11	-	-	20	0.07	omy came, grave.
- - 4 -		SM	S-AS1-2	24/45	5-7-5	3.45	7.32	60				14	27	-	34	17	10	0.14	0.002	
-5 - - - - - - -		CL/CH	S-AS1-3	22/45	4-5-7	3.45	8.84	64	SM: Yellow to brown clayey silty sand with gravel. This soil may be the product of extensive weathering of bedrock (residual soil)			22	49	36	82	57	52	0.001	<1µm	
<u> </u>		SM	S-AS1-4	16/45	3-3-5	6.00	10.37	69				19	26	-	35	20	15	0.15	<3µm	
-7 - - -8 - -		CL	S-AS1-5	32/45	8-18-34	7.50	11.89	66	SANDSTONE: Light gray to brown, weathered (decomposed) sandstone to siltstone. Red oxidized seams indicate that parent rock may be Flysh			18	30	12	89	36	24	0.01	<1µm	