ABUTMENT 4

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

ROTARY FIELD NOTES

MR-1271 (REV. 2/93)

DIVISION OF NEW TECHNOLOGY, MATERIALS AND RESEARCH

ENGINEERING GEOLOGY

BORING NUMBER: B-00-4

DATE: 10/18/00

DIST.	CO.	RTE.	P.M.
11	SD	56	KP 3.3/10.1

BRIDGE NAME: RANCHO SANTA FE FARMS RD. O.C.

BRIDGE NUMBER: 57-1080

E.A. NUMBER: 11-172821

CREW: LARRY WILSON, LUIS SEPULVEDA, MIKE MULLINS

EQUIPMENT	C.H.C. NUMBER
CS 2000	6832

Geo: E. NEUPORT / MARK PAGENKOPP

SHEET: 1 OF 6

FM 92 1528 M

ROTARY FIELD NOTES

MR-1271 (REV. 2/93)

BORING NUMBER

B-00-4 About 3 Left Side

LOCATION

37.1 m Left 82+ 64.7m "A" Line

TOP HOLE ELEVATION

96.78 m Elev.

GWS	DATE	GWS	DATE

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
					On-Site 0800 10/18/00
0° - 1.5°	1.4"	1			Hand Auger to 2 ft Deep.
0.46m - 0.76m 1.5° - 2.5°	3.75	2			
2.5° - 4°	1.4"	3	9, 10, 12	22 (c33)	
1.22 - 1.52m 4° - 5°	3.75"	4			

ROTARY FIELD NOTES

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0 2½ 5 7½ 10 12½ 15 17½ 20

(c25) = Circled # is Field Blow Count X 1.5 to Correct for Auto Hammer

	LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
0.15m 5 0°		Sandy Gravel (GW) Gray, (Road Base Fill)
		Sandy Clay (CL) Dark Yellowish Brown, Dry to Moist, Fine Grained Sand.
1.13m 7 3° ft		Sandstone, Dark Yellowish Orange with Pale Brown Mottling, Moderately Weathered, Very Soft, Trace $CaCO_3$ Veins, Fine-Grained Sand.

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96.78m ELEV.

GWS	DATE		GWS		DATE	LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
DEPTH	**TOOL**	**S #**	**BLOWS PER FOOT**		**REMARKS**		
1.52 - 1.98m							
5' - 6.5'	1.4"	5	10, 15, 18	33	S.A.A.		
				(c50)			
6.5 - 7.5	3.75'	6					
							2.29m
2.29 - 2.74m							(AT 7.5 FT) LIGHT GRAY COLOR WITH DARK
7.5 - 9'	1.4"	7	10, 16, 21	37			YELLOWISH ORANGE MOTTLING.
				(c56)			
3.05m							
9' - 10'	3.75	8					

FM 92 1528 M

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TL-1271 (REV. 6/95)

BORING NUMBER

B-00-4

LOCATION

37.1 m LEFT 82+64.7 "A" LINE

TOP HOLE ELEVATION

96.78 m ELEV.

GWS	DATE	GWS	DATE

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
3.05 - 3.51 m					
10° - 11.5	1.4"	9	10, 18, 22	40	
				(c60)	
11.5 - 12.5	3.75	10			
3.81 - 4.27 m					
12.5 - 14°	1.4"	11	15, 26, 35	61	S.A.A.
				(c92)	
14° - 15°	3.75	12			
4.57 - 4.79 m					
15° - 15.7	1.4"	13	18, 50/0.3	E250	
				(c375)	

ROTARY FIELD NOTES

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DESCRIPTION

LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
	3.05 m
	(AT 10° FT) COLOR CHANGE TO PALE YELLOWISH BROWN WITH DARK YELLOWISH ORANGE MOTTLING, SOFT TO VERY SOFT, FINE TO VERY FINE-GRAINED SAND.
	4.72 m
	(AT 15.5 FT) INCREASE IN GRAIN SIZE TO MEDIUM TO FINE-GRAINED, TRACE BLACK MOTTLING, POSSIBLY ORGANIC MATERIAL.

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LOCATION

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TOP HOLE ELEVATION

96.78 m ELEV.

GWS	DATE	GWS	DATE

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
4.79 - 5.33m					
15⅞ - 17⅝	3.75"	14			
17⅝ - 19⅝	1.4"	15	7, 20, 29	49	
				(c74)	
5.79 - 6.10m					
19⅝ - 20⅝	3.75"	16			
20⅝ - 21⅝	1.4"	17	19, 31, 41	72	
				(c108)	
6.55 - 7.62m					
21⅝ - 25⅝	3.75	18			Rec = 3.2/3.5 = 91%
					RQD = 0/3.5 = 0%
					Same AA x color
					change @ 23⅜ to gray
8.08m					
25⅝ - 26⅝	1.4"	19	15, 26, 36	62	
				(c93)	

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DESCRIPTION

LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
	5.33m (AT 17⅝ FT) HIGHLY CEMENTED WITH $CaCO_3$ FOR APPROX 2cm PREDOMINATELY DARK YELLOWISH ORANGE COLOR
	6.10m (AT 20⅝ FT) COLOR ALTERNATES BETWEEN PALE YELLOWISH BROWN AND DARK YELLOWISH ORANGE, TRACE BLACK ORGANIC MOTTLING
	7.25m (at 23⅜ FT) Color change to medium light gray

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B-00-4

LOCATION

37.1m LEFT 82 + 64.7 "A" LINE

TOP HOLE ELEVATION

96 + 78m ELEV.

GWS	DATE	GWS	DATE

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
8.08 - 9.14m					
26.5 - 30.0	3.75	20			Rec 2.5/3.5 = 71%
					RQD 0/3.5 = 0%
30.0 - 31.5	1.4"	21	15,26,35	61	
				(C92)	
9.60 - 10.67m					
31.5 - 35.0	3.75"	22			Rec = 3.5/3.5 = 100%
					RQD = 0/3.5 = 0%
10.82m					
35.0 - 35.5	1.4"	23	50/5	E100	
				(150)	

LOG

DESCRIPTION

(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)

7.92m

(at 26.0 Ft) color change to DARK YELLOWISH ORANGE, AND ALTERNATING COLOR CHANGES TO LIGHT GRAY, OCCAISIONAL DARK BROWN TO BLACK MOTTLING

10.36m

(AT 34.0 FT) OCCAISIONAL $CaCO_3$ LAMINATIONS TO 2mm THICK, PREDOMINATELY HORIZONAL, FINE TO MEDIUM-GRAINED SAND, MODERATELY WEATHERED, MOD. SOFT

10.82m

(AT 35.5 FT) HIGHLY CEMENTED WITH $CaCO_3$ VERY HARD, FOR APPROX 2 cm.

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TOP HOLE ELEVATION

96+78 m ELEV.

GWS	DATE	GWS	DATE

DEPTH	TOOL	S #	BLOWS PER FOOT		REMARKS
10.82 - 12.19m					
35.5 - 40.0	3.75	24			Rec = 4 3/4.5 = 93%
					RQD = 0/4.5 = 0%
12.65m					
40.0 - 41.5	1.4"	25	23, 34, 50	84	SAA.
				(C126)	
					End Boring 11:00 AM
					10/18/00
					Boring Filled with Bentonite Chips.

12.65m
41.5 FT

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LOG	(density, color, grain size, **SOIL** or **ROCK** type, degree of saturation, etc.)
10.97m	$CaCO_3$ LAMINATIONS TO 2mm THICK TO 36.0 FT, grain-size PREDOMINANTLY MEDIUM GRAINED, MODERATELY WEATHERED, MOD HARD TO MOD SOFT.
BOH	