34-0157NB-B5L

Caltrans EXPLORATION BORING FIELD LOG

Date 4/28/08 | Boring No.

Location Doyle Drive, Lincoln Ave. high Viaduct | Loc No. | EA No. 163701 | Page 1 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work

Rt. Ft.. Lt. Line. Sta. Northings. Eastings. Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By: R Washed | Drill Crew: Norm, Logan, Jack

Drill rig: All terrain CS1000 | Hammer Type and Weight: Automatic

Drilling Method: Rotary Wash | Casing: N/A

Hole Completion:

Depth	Sample Interval	Tool Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
1									stick up above the
2								(Franciscan) Serpentenite/shale contact, medium grained	ground 4½ ft
3								greenish gray, v. soft, intensely	5 min
4								weathered and decomposed	Bed rock @ depth
5									½ ft. below the
		28						The same as above	ground surface
6	1	37							
		47							
7		0/60			3/60			Shale fragments (Gravel), angular	3 min
8								to sub-rounded to size 1½ inch,	
9								greenish black, fine grained,	
10								moderately hard	
11		16/60			45/60				
12								Shale, v. hard, bedded, fissile,	5 min
13	2½							fine grained black to greenish	
14								black, v. soft, intensely weathered	
15								and intensely to moderately	
16		54/60			60/60			fractured	continue on 4/29/08
17								Shale/Serpentenite contact	
18	3½							(Franciscan), fissile, fine to	5 min
19								medium grained, greenish	
20								gray, v. soft, intensely weathered	
21		55/60			60/60			slightly fractured, intact rock	
22									5 min
23	4½							Serpentenite, Franciscan, massive	
24								medium grained, greenish gray,	
25								v. soft, intensely weathered,	
26		40/60			60/60			one fracture, intact rock	9 min
27									
28	5½							The same as above	
29									
30									
31		40/60			60/60			The same as above, but slightly	5 min
32								fractured	
33	6½								
34								Shale, fissile, fissile, black	
35								fine grained, v. soft to moderately	
36		27/60			60/60			hard, intensely to moderately	16 min
37								weathered, intensely fractured and	
38	7½							sheared	

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Date 4/29/08 | Boring No.

Location Doyle Drive, Lincoln Ave, high Viaduct | Loc No. | EA No. 163701 | Page 2 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work

Ft. Rt. Lt. Line. Sta. Northings. Eastings. Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By: R Nashed | Drill Crew: Norm, Logan, Jack

Drill rig: All terrain CS1000 | Hammer Type and Weight: Automatic

Drilling Method: Rotary wash/coring | Casing: N/A

Hole Completion: 4/30/08

Depth	Sample Interval / Total Blows / RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
39						Shale, massive, fissile, fined grained, black, soft to moderately soft, moderately weathered, slightly fractured	
40							
41	50/60		60/60				
42	8						
43							3 min
44						The same as above	
45							
46	50/60		60/60				
47	9						9 min
48							
49						The same as above	
50							
51	41/60		60/60				
52	10					Shale, massive, fissile, fine grained, dark gray, moderately soft, intensely weathered, intensely fractured	
53							6 min
54							
55							
56	32/60		60/60				
57	11					The same as above	6 min
58							
59	35/60		60/60				
60						The same as above	
61	12						5 min
62							
63	12/30		30/30				
64	13					The same as above	5 min
65							
66	30/60		60/60				
67							7 min
68	14						
69						The same as above	
70							
71	35/60		30/60				6 min
72							
73	15					Sandstone, thinly bedded, medium grained, dark gray, hard, slightly weathered, intact rock	
74							
75							
76	54/60		54/60				15 min
77						Shale, massive, medium	
78	16						

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Caltrans EXPLORATION BORING FIELD LOG

Date 4/29/08 | Boring No.

Location Doyle Drive, Lincoln Blvd high viaduct | Job No. | EA No. 1637ot | Page 3 of 3

Dist. 04 Co. SF Rt. 101 P.M. | Br. No. | Purpose of Work

Ft. Rt. Lt. Line. Sta. Northings. Eastings. Elev.

Ground Water Data: Date/Time | Water Level | Bot. of Boring

Logged By: R Nashed | Drill Crew: Norm, Logan, Todd, Jack

Drill rig: All terrain Cslow | Hammer Type and Weight: Automatic

Drilling Method: Rotary wash / Coring | Casing: N/A

Hole Completion: 4/30/08

Depth	Sample Interval	Tool Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
79								gray, v. soft, intensely weathered intact rock	
80									
81		30/60				54/60			
82								Shale, massive, fissile, dark gray to black, moderately soft, intensely weathered, slightly fractured	
83	17								3 min
84									
85									
86		34/60				60/60			Continue on 4/30/08
87								The same as above	
88	18								5 min
89								The same as above, but intensely fractured	
90									
91		0/60				3/60			4 min
92									
93	19								
94								Shale/sandstone contact (sandy shale), v. thickly bedded, fissile, black, medium to coarse grained, moderately soft, intensely weathered, intensely fractured	
95									
96		29/60				60/60			8 min
97									
98	20								
99									
100									
101		27/60				60/60		shaley sandstone, massive, medium to coarse grained, dark gray, moderately hard, intensely weathered, intensely fractured	6 min
102									
103									
104	21								
105								Sandy shale, massive, fissile, fine to medium grained, dark gray, soft, intensely weathered, intensely fractured	
106		0/60				60/60			6 min
107									
108	22								
109									
110									
111		32/60				6/60		The same as above, but slightly fractured	7 min
112									
113	23								
114									
115									

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