34-0157NE-B4R

EXPLORATION BORING FIELD LOG

Caltrans

Date 7/7/08 | Boring No.

Location: Doyle Drive Replacement | Log No. | EA No. 163701 | Page 1 of 5

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

Ft. Rt. Lt. | Line. Sta. | Northings. 2120753.014 | Eastings. 5993837.632 | Elev. 37.93B

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

Logged By: E. Ortega | Drill Crew: B. Johnson

Drill rig: CME 75 | Hammer Type and Weight:

Drilling Method: Rotatory Wash | Casing:

Hole Completion: 7/10/08

Depth	Sample Interval	Tool	Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
1									Drilled thru unpaved area			
2												
3												
4												
5			5						Poorly graded Sand (SP) med. dense, dk. brown, moist n. pls, med sand, weak cementation			
6			7									
			10									
7												
8												
9												
10									Same			
11			3									
			8									
			10									
12												
13												
14												
15									Same but dense			
			9									
16			16									
			17									
17												
18												
19												
20									Same but med. dense			
			6									
21			11									
			17								7/08/08	
22												
23												
24												
25									Clayey Sand (SC) med dense dk. gray, moist, low pls, med sand, med cementation, smells			
			8									
26			6									
			10									
27												
28												
29												
30												

34-0157NE-B4R

Caltrans EXPLORATION BORING FIELD LOG

Date | Boring No.

Location: Doyle Drive Replacement | Log No. | EA No. 163701 | Page 2 of 5

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

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

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

Logged By: E. Ortega | Drill Crew: B Johnson

Drill rig: CME 75 | Hammer Type and Weight:

Drilling Method: Rotatory Wash | Casing:

Hole Completion: 7/10/08

Depth	Sample Interval Total Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
30	5					Poorly graded sand (SP) med dense, dark brown, m. pls, med sand, weak cementation			
31	5 12								
32									
33									
34									Pushed
35						Fat Clay with sand (CH), very stiff, dark olive gray, med to high pls q_p ~ 3.75 – 4.5 Ton/ft²			
36	4 9 10								
37									
38									
39									
40	5					Fat Clay (CH), stiff, dark brown to dark olive gray, h. pls q_p = 1.75 – 4.25 Ton/ft²			
41	6 6								
42									
43									
44									
45	5					Same but v. stiff q_p = 2.75 – 3.75 Ton/ft²			
46	7 10								
47									
48									
49									
50	5					Same but stiff q_p = 1.25 – 2.75 Ton/ft²			
51	6 5								
52									
53									
54									
55	4					Same q_p = 1.75 – 2.75 Ton/ft²			
56	4 7								
57									

34-0157NB-B4R

EXPLORATION BORING FIELD LOG

Caltrans

Date 7/08/08 | Boring No.

Location: Doyle Drive Replacement | Loc No. | EA No. 163701 7/09/08 | Page 3 of 5

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

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

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

Logged By: E. Ortega | Drill Crew: B Johnson

Drill rig: CME75 | Hammer Type and Weight:

Drilling Method: Rotatory Wash | Casing:

Hole Completion: 7/10/08

Depth	Sample Interval	Total Blows / RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description	Remarks
57								
58								
59								
60							Colma Sand, Poorly graded Sand (SP), dense, dark brown, n.pls, fine to med sand weak cementation	
61		13 23 23						
62								
63								
64								
65							Fat Clay (CH), very stiff, dark gray, h.pls, qu = 1.5 = 4.5 Ton/ft²	
66		5 7 12						
67								
68								
69								
70		20					Sedimentary rock, Shale, decomposed, dark greenish gray, w oxidation spots (Poorly graded gravel with clay and sand) (GP-GC)	
71		24 33					Same but mod to slightly fract RQD = 13+8+21/48 = 87.5%	
72								
73								
74								
75							Sandstone, int. to mod fract, dark greenish gray, int weath, soft RQD = 5.5+5+4+16/60 = 50.8%	
76								
77								
78								
79								
80							Same RQD = 5.5+5+4+16/60	
81								
82								
83								
84								
85							Same RQD = 5.5+5+7.5+7.5+11+8.5/60 = 75%	← 7/09/08
86								
87								
88								
89								
90								

34-0157NB-B4R

Caltrans EXPLORATION BORING FIELD LOG

Date | Boring No.

Location: Doyle Drive Replacement | Job No. | EA No. 163701 | Page 4 of 5

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

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

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

Logged By: E. Ortega | Drill Crew: B Johnson

Drill rig: CME 75 | Hammer Type and Weight:

Drilling Method: Rotatory Wash | Casing:

Hole Completion: 7/10/08

Depth	Sample Interval	Tool	Blows	RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
91									Same but intensely fract			
92									RQD = 4.5+5+6+5+5/60 = 42.5%			
93												
94												
95									Same but mod fract, some			
96									oxidation spots and healed w clay			
97									RQD = 9.5+8.5+9.5+4.5+4.5+4.5+4.5/60 = 90%			
98												
99												
100									Same			
101									RQD = 18+12+10+6.5+6.5/60 = 58.7%			
102												
103												
104												
105									Same but int fract			
106									RQD = 5.5+4+5+7.5+18+4.5+4.5/60 = 65%			
107												
108												
109												
110									Same but mod fract			
111									RQD = 8.5+10+5+9.5/60 = 55%			
112												
113												
114												
115									Same			
116									RQD = 6+8+5+4+6.5/60 = 49.2%			
117												
118												
119												
120									Same			
121									RQD = 4+4.5+4.5+4.5+5.5+6+5.5/60 = 57.5%			
122												
123												
124												
125									Same			
126									RQD = 8.5+8.5+4.5+4.5/48 = 54.2%			
127												
128												
129									Shale, vaint fract, black, soft			
130									RQD = 5.5/12 = 45.8%			

34-0157NB-B4R

Caltrans

EXPLORATION BORING FIELD LOG

Date | Boring No.

Location: Doyle Drive Replacement | Lab No. | EA No. 163701 | Page 5 of 5

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

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

Ground Water Data

Date / Time	Water Level	Bot. of Boring

Logged By: E. Ortega | Drill Crew: B Johnson

Drill rig: CME 75 | Hammer Type and Weight:

Drilling Method: Rotatory Wash | Casing:

Hole Completion: 7/10/08

Depth	Sample Interval Tool	Blows RQD	Sample I.D.	% Rec.	Strength	Graphic Log	Description			Remarks
131							Shale, v. int fract, black to			
132							drk. gray, soft			
133							(Clayey Gravel) (GC) RQD=0			
134										
135							Interbedded Shale, v. int fract			1' Sandstone
136							black, soft and			1'8" Shale
137							Sandstone v. int fract, drk. gray			2'4" Sandstone
138							soft			
139							RQD = 6+8/60 = 23%			
140							Sandstone, v. int fract,			
141							drk. gray soft			
142							RQD = 4+5/60 = 15%			
143										
144										
145							Same hot int to v. int fract			
146							RQD = 8+8.5/60 = 27.5%			
147										
148										
149										
150							Bottom of boring @ 150'			
							on 7/10/08			