

LOGGED BY T. Carroll	BEGIN DATE 3-5-08	COMPLETION DATE 3-7-08	BOREHOLE LOCATION (Lat/Long or North/East and Datum) N2120511.047 / E5995523.129 (NAD83)	HOLE ID M-10
DRILLING CONTRACTOR Gregg Drilling and Testing, Inc.			BOREHOLE LOCATION (Offset, Station, Line) Offset 112ft R Sta 70+39 NB Alignment	SURFACE ELEVATION 11.908 ft (NAVD88)
DRILLING METHOD Mud Rotary			DRILL RIG CME 550	BOREHOLE DIAMETER 5 in. (soil); 4 in. (rock)
SAMPLER TYPE(S) AND SIZE(S) (ID) MC (2.4"), SPT (1.4")			SPT HAMMER TYPE Automatic, 140 lbs., 30-inch drop	HAMMER EFFICIENCY, ERI 76.2%
BOREHOLE BACKFILL AND COMPLETION Neat Cement Grout backfill			GROUNDWATER DURING DRILLING AFTER DRILLING (DATE) READINGS 3.5	TOTAL DEPTH OF BORING 55 ft

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
0	0		SILTY SAND (SM), poorly compacted, dark brown, moist, fine, with frequent angular GRAVEL pieces. [FILL]												
	1		10.0", piece of asphalt (3" diameter).												
9.91	2		CLAYEY GRAVEL (GC), moderately compacted, greenish gray, moist, angular, with fine to coarse SAND												
	3		2.8', piece of decomposed wood.	S1	16	26	83								
	4		SILTY SAND (SM), poorly compacted, dark gray, moist, SAND is fine to very fine. [HYDRAULIC FILL]		12	14									
7.91	5		Poorly graded SAND (SP), loose, dark gray, wet, fine, trace medium to coarse SAND, trace fines, occasional shell fragments.	S2	4	8	83			22.7				PA	
	6		5.0', grades yellowish brown.	S3	1	3	100								
5.91	7		5.5', 2.5" nail.		2	1									
	8		6.0', occasional piece of rounded GRAVEL, SAND grades fine to medium.	S4	0	7	100								
3.91	9		6.5', grades dark gray.		3	4									
	10		8.5', piece of ceramic.												
	11		Slight increase in fines content, with pockets of dark gray, poorly graded SAND with SILT, and pockets of dark gray fat CLAY.	S5	4	19	67			28.3	21.4	DS = 0.576		PA	
	12		Grades grayish brown with frequent pieces of decomposed vegetation (up to 1/2" diameter), a piece of angular fine GRAVEL up to 1/4" diameter.		9	10				26.5	23.7	DS = 0.624			
-0.09	13		Grades without decayed vegetation, without GRAVEL, without pockets of CLAY.	S6	4	30	39			27.2	124.5	DS = 0.726			
	14		Poorly graded SAND (SP), medium dense, yellowish brown, wet, fine to medium, trace fines, with iron-oxide staining. [COLMA SAND]												
-2.09	15		14.3', trace of coarse SAND.	S7	6	41	50			19.3	133.9				
	16		14.8', dark gray, very fine SAND; grades without iron-oxide staining.	S8	2	10	94								
-4.09	17		Grades loose.		4	6									
	18														
-6.09	19		Grades medium dense.	S9	9	29	67								
	20				14	15									
-8.09	21		Poorly graded SAND with CLAY (SP-SC), loose, yellowish brown, wet, fine to medium, with pieces of subangular to subrounded GRAVEL, GRAVEL is fine to coarse.	S10	3	10	100								
	22				4	6									
-10.09	23														
	24			S11		56	83			23.7	130.6			PA	
-12.09	25														

(continued)

CALTRANS FORMAT DOYLEDRIVE ARUPLOGS 11-2-08.GPJ ARUP LIBRARY CALTRANS FORMAT.GLB 11/3/08



Department of Transportation  
Division of Engineering Services  
Geotechnical Services

REPORT TITLE BORING RECORD				HOLE ID M-10	
DIST. 4	COUNTY S.F.	ROUTE 101	POSTMILE 8.3/9.4	EA 163701	
PROJECT OR BRIDGE NAME Doyle Drive Replacement Project					
BRIDGE NUMBER N/A		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 1 of 2

Figure

CALTRANS FORMAT ARUPLOGS 11-2-08.GPJ ARUP LIBRARY CALTRANS FORMAT.GLB 11/3/08

ELEVATION (ft)	DEPTH (ft)	Material Graphics	Description	Sample Location	Sample Number	Blows per 6 In	Blows per Foot	Recovery (%)	RQD (%)	Moisture Content (%)	Dry Unit Weight (pcf)	Shear Strength (tsf)	Drilling Method	Casing Depth	Remarks
-14.09	25		Poorly graded SAND with SILT (SP-SM), dense, yellowish brown, wet, very fine to fine, with iron-oxide mottling, occasional pockets of weak cementation (up to 1/4" diameter). 25.5', occasional piece of coarse SAND, grades very dense.	S12	9	21	56	100							
	26	35													
	27	10													
	28	20													
-16.09	29		Poorly graded SAND, very dense, yellowish brown, wet, fine to very fine, trace fines, with iron-oxide mottling.	S13	17	37	87	89							
	30	50													
	31														
-20.09	32		31.0', piece of GRAVEL (serpentine, 1/2" diameter).	S14	4	20	56	100							
	33														
	34	36													
-22.09	35		Pockets of moderate cementation (up to 1/4" diameter).	S15	23	38	88	83							
	36														
	37														
-24.09	38		Grades without pockets of cementation, grades dense.	S16	15	21	51	89							
	39														
	40														
-28.09	41		SILTY SAND (SM), very dense, light yellowish brown, wet, fine, with iron-oxide staining.	S17	9	26	66	83							
	42														
	43														
-30.09	44		Grades medium dense.	S18	14	26	71	89		20.6					PA
	45														
	46														
-32.09	47		Grades medium dense.	S19	8	12	30	94							
	48														
	49														
-34.09	50		Poorly graded SAND (SP), dense, brown, wet, coarse.	S20	7	21	55	89							
	51														
	52														
-38.09	53		Lean CLAY with SAND (CL), stiff, yellowish brown, moist, trace of subrounded to subangular fine GRAVEL, with pockets of lean CLAY. [COLLUVIUM]	S21	23	50/6"	25								
	54														
	55														

Slight rig chatter at 33'

Slower drilling, no rig chatter



Department of Transportation  
Division of Engineering Services  
Geotechnical Services

REPORT TITLE <b>BORING RECORD</b>				HOLE ID M-10	
DIST. 4	COUNTY S.F.	ROUTE 101	POSTMILE 8.3/9.4	EA 163701	
PROJECT OR BRIDGE NAME Doyle Drive Replacement Project					
BRIDGE NUMBER N/A		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 2 of 2

Figure