

LOGGED BY S. McLandrich	BEGIN DATE 11-29-07	COMPLETION DATE 11-29-07	BOREHOLE LOCATION (Lat/Long or North/East and Datum) N2120587.017 / E5996204.009 (NAD83)	HOLE ID MPTSB-R1
DRILLING CONTRACTOR Gregg Drilling and Testing, Inc.		BOREHOLE LOCATION (Offset, Station, Line) Offset 63ft L Sta 63+74 SB Alignment		SURFACE ELEVATION 16.609 ft (NAVD88)
DRILLING METHOD Mud Rotary		DRILL RIG Failing 1500		BOREHOLE DIAMETER 5 in.
SAMPLER TYPE(S) AND SIZE(S) (ID) MC (2.4"), SPT (1.4"), Grab		SPT HAMMER TYPE Automatic, 140 lbs., 30-inch drop		HAMMER EFFICIENCY, ERI 72.8%
BOREHOLE BACKFILL AND COMPLETION Neat Cement Grout backfill		GROUNDWATER DURING DRILLING AFTER DRILLING (DATE) READINGS		TOTAL DEPTH OF BORING 59 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		Poorly graded GRAVEL with CLAY and SAND (GP-GC), dark reddish brown, moist, fine to coarse, angular, with pieces of asphalt, slight earthy odor. [FILL]		S1										
14.61	2		GRAVELLY lean CLAY (CL), dark brown, moist, with pieces of wood and charcoal.		S2	18	35	33							
	3					15									
12.61	4		3.8', grades to SANDY lean CLAY, stiff, reddish brown mixed with grayish brown, SAND is fine.		S3	4	10	100							
	5		5.0', grades olive gray, wood pieces are milled.			4									
	6					4									
10.61	7		CLAYEY SAND (SC), medium dense, reddish brown, moist, fine, with grayish brown mottling. [COLMA SAND]		S4	6	26	100							
	8					10									
8.61	9		Poorly graded SAND with CLAY (SP-SC), medium dense, grayish brown, moist, fine, with iron-oxide staining.		S5	5	22	100		24.1	129.1	UU = 0.69		PA, CU	
	10					8									
	11					14									
4.61	12		CLAYEY SAND (SC), medium dense, grayish brown, moist, fine to medium, with reddish brown mottling, weakly cemented, clean SAND with pockets of yellowish brown, fine SANDY CLAY (up to 1/4" diameter).		S6	15	38	100							
	13					18									
2.61	14		14.0', grades very dense, with veins of iron-oxide staining, pockets of SANDY CLAY up to 3/4" diameter.		S7	13	57	100		23.5	125.8			PA, CU	
	15					25									
	16					32									Sandy clay in drill cuttings at 15.5'
0.61	17		Poorly graded SAND with CLAY (SP-SC), dense, olive brown, moist, fine to medium, with reddish brown mottling, weakly cemented.		S8	11	56	100							
	18					26									
-1.39	19					30				21.3	131.8			PA	
	20					10	36	100							
	21					14									
-3.39	22					22									
	23		Grades dark olive brown.		S10	25	87	100							
	24		Grades very dense.			42									
	25					45									
						77		100							

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REPORT TITLE BORING RECORD				HOLE ID MPTSB-R1	
DIST. 4	COUNTY S.F.	ROUTE 101	POSTMILE 8.3/9.4	EA 163701	
PROJECT OR BRIDGE NAME Doyle Drive Replacement Project					
BRIDGE NUMBER 34-0163L		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 1 of 3

Figure

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
-9.39	25		Poorly graded SAND with CLAY (SP-SC), dense, olive brown, moist, fine to medium, with reddish brown mottling, weakly cemented.			11 32 45									
	26		26.5', reddish brown clay in cuttings.												
-11.39	27														
	28		28.0' - 28.5', layer of heavy oxidation.		S12	21 24 44	68	100							
	29		28.5', piece of heavily oxidized, strongly cemented sand (1/2" diameter).												
-13.39	30		28.8', grades olive brown without oxidation.		S13	11 23 37	60	100							
	31														
-15.39	32														
	33				S14	18 39 50/	89/ 11.5"	100							
-17.39	34				S15	5.5" 16 26 40	66	100							
	35		34.5' - 34.7', iron-oxide staining.												
-19.39	36														
	37														
-21.39	38				S16	48 50/ 5.75"	50/ 5.75"	100							
	39		38.6' - 38.8', iron-oxide staining.		S17	5.75" 20 24 35	59	100							
-23.39	40														
	41														
-25.39	42														
	43				S18	43 30 39	69	100							
-27.39	44		Grades yellowish brown, wet, fine. 43.5', light iron-oxide staining.												
	45		CLAYEY SAND (SC), very dense, dark olive brown, moist, fine, trace CLAY. 45.0', grades to reddish brown.		S19	17 28 32	60	100							
-29.39	46														
	47														
-31.39	48		Grades light yellowish brown, with iron-oxide stained mottling.		S20	22 32 43	75	100							
	49				S21	11 22 28	50	100		21.2	132.4			PA	
-33.39	50		Grades with streaks of iron-oxide staining.												
	51														
-35.39	52				S22	36 50/ 4.5"	50/ 4.5"	100							
	53		Poorly graded SAND (SP), very dense, dark yellowish brown, moist.		S23	4.5" 18 50/ 5.75"	50/ 5.75"	100							
-37.39	54														
	55														

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BRIDGE NUMBER 34-0163L		PREPARED BY T. Carroll		DATE 11-3-08	SHEET 2 of 3

Figure

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
55															
-39.39	56		Poorly graded SAND (SP), very dense, dark yellowish brown, moist.												
-41.39	58		57.5' - 57.8', grades reddish brown, wet.	S24		35	95/1.75	100							
	59		Borehole terminated at a depth of 59 feet on 11/29/2007.												
-43.39	60		See Boring Record Legend for soil classification chart and key to test data and sampler type.												
-45.39	62														
-47.39	64														
-49.39	66														
-51.39	68														
-53.39	70														
-55.39	72														
-57.39	74														
-59.39	76														
-61.39	78														
-63.39	80														
-65.39	82														
-67.39	84														
	85														



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Figure