



NCDOT GEOTECHNICAL ENGINEERING UNIT BORELOG REPORT

PROJECT NO. 34410.1.25		ID. R-2248E		COUNTY Mecklenburg		GEOLOGIST Todd, R. W.	
SITE DESCRIPTION -Y20- OVER -Y22-							GROUND WTR (ft)
BORING NO. B-40		STATION N/A		OFFSET N/A		ALIGNMENT -Y20-	
COLLAR ELEV. 744.1 ft		TOTAL DEPTH 24.8 ft		NORTHING 591,828		EASTING 1,479,124	
DRILL MACHINE CME-550X		DRILL METHOD H.S. Augers				HAMMER TYPE Automatic	
START DATE 03/08/10		COMP. DATE 03/08/10		SURFACE WATER DEPTH N/A		DEPTH TO ROCK N/A	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
745	744.1	0.0											GROUND SURFACE	0.0
740	740.5	3.6	2	2	2	4						M	RESIDUAL SOFT TO HARD RED-BROWN-TAN SILTY SANDY CLAY, MOIST TO WET (A-6)	
735	735.5	8.6	4	5	7	12						W		
730	730.5	13.6	1	1	2	3						M		
725	725.5	18.6	3	4	5	9						D	RESIDUAL HARD TAN-GRAY CLAYEY SANDY SILT, DRY (A-4)	17.0
720			13	24	50	74							WEATHERED ROCK SEVERELY WEATHERED CRYSTALLINE ROCK	19.6
715													Boring Terminated by Auger Refusal at Elevation 719.3 ft ON CRYSTALLINE ROCK	24.8
710													LOCATED AT METRIC STATION -Y20-14+53, CL	
705														
700														
695														
690														
685														
680														
675														
670														
665														

NCDOT BORE SINGLE R2248E Y20.GPJ NC DOT.GDT 03/10/10



NCDOT GEOTECHNICAL ENGINEERING UNIT

BORELOG REPORT

PROJECT NO. 34410.1.25	ID. R-2248E	COUNTY Mecklenburg	GEOLOGIST Todd, R. W.
SITE DESCRIPTION -Y20- OVER -Y22-			GROUND WTR (ft)
BORING NO. B-41	STATION N/A	OFFSET N/A	0 HR. N/A
COLLAR ELEV. 739.5 ft	TOTAL DEPTH 34.8 ft	NORTHING 591,758	24 HR. 2.6
DRILL MACHINE CME-550X	DRILL METHOD NW Casing W/SPT & Core	HAMMER TYPE Automatic	
START DATE 03/09/10	COMP. DATE 03/09/10	SURFACE WATER DEPTH N/A	DEPTH TO ROCK 15.4 ft

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG	SOIL AND ROCK DESCRIPTION				
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)			
740															739.5	GROUND SURFACE	0.0	
																RESIDUAL		
																TAN V. STIFF MOIST SANDY SILT (A-4)		
735	734.2	5.3													734.5		5.0	
																RESIDUAL		
																TAN V. STIFF TO HARD DRY TO MOIST SANDY CLAY (A-6)		
730	729.2	10.3	5	7	11													
725	724.2	15.3	7	12	78										727.3		12.2	
																WEATHERED ROCK		
																SEVERELY WEATHERED CRYSTALLINE ROCK		
720															724.1		15.4	
																CRYSTALLINE ROCK		
																GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = V. CLOSE TO MOD. CLOSE		
715															719.6		19.9	
																CRYSTALLINE ROCK		
																GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = CLOSE		
710															716.0		23.5	
																CRYSTALLINE ROCK		
																GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = V. CLOSE TO CLOSE		
705															709.5		30.0	
																CRYSTALLINE ROCK		
																GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = CLOSE		
700															704.7		34.8	
																Boring Terminated at Elevation 704.7 ft IN GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE		
																LOCATED AT METRIC STATION 14+82 -Y20- CENTERLINE		
695																		
690																		
685																		
680																		
675																		
670																		
665																		
660																		

NCDOT BORE SINGL E R2248E_Y20.GPJ NC_DOT_GDT 03/11/10



NCDOT GEOTECHNICAL ENGINEERING UNIT CORE BORING REPORT

PROJECT NO. 34410.1.25		ID. R-2248E		COUNTY Mecklenburg		GEOLOGIST Todd, R. W.					
SITE DESCRIPTION -Y20- OVER -Y22-							GROUND WTR (ft)				
BORING NO. B-41		STATION N/A		OFFSET N/A		ALIGNMENT -Y20-	0 HR. N/A				
COLLAR ELEV. 739.5 ft		TOTAL DEPTH 34.8 ft		NORTHING 591,758		EASTING 1,479,189	24 HR. 2.6				
DRILL MACHINE CME-550X		DRILL METHOD NW Casing W/SPT & Core				HAMMER TYPE Automatic					
START DATE 03/09/10		COMP. DATE 03/09/10		SURFACE WATER DEPTH N/A		DEPTH TO ROCK 15.4 ft					
CORE SIZE NW		TOTAL RUN 19.4 ft		DRILLER Smith, M. L.							
ELEV (ft)	RUN ELEV (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		STRATA		L O G	DESCRIPTION AND REMARKS	DEPTH (ft)
					REC. (ft) %	ROD (ft) %	REC. (ft) %	ROD (ft) %			
724.1										Begin Coring @ 15.4 ft	
	724.1	15.4	4.5	1:12/1.0 1:12/1.0 1:12/1.0 1:12/1.0	(4.5) 100%	(3.8) 84%				724.1 GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = V. CLOSE TO MOD. CLOSE	15.4
	719.6	19.9									
			3.6	00:36/0.5 1:06/1.0 1:06/1.0 1:06/1.0	(3.5) 97%	(3.1) 86%				719.6 CRYSTALLINE ROCK GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = CLOSE	19.9
	716.0	23.5									
			6.5	0:40/0.6 1:06/1.0 1:06/1.0 1:06/1.0 1:06/1.0	(6.4) 98%	(5.2) 80%				716.0 CRYSTALLINE ROCK GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = V. CLOSE TO CLOSE	23.5
	710										
	709.5	30.0		1:06/1.0 1:06/1.0 0:33/0.5						709.5	30.0
			4.8	1:00/1.0 1:00/1.0 1:00/1.0 1:00/1.0 0:48/0.8	(4.6) 96%	(3.5) 73%				704.7 CRYSTALLINE ROCK GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE. FS = CLOSE	34.8
	705										
	704.7	34.8									
										Boring Terminated at Elevation 704.7 ft IN GRAY/BRN. SLI. WEATH. TO FRESH MOD. HARD TO HARD GRANITE	
	700									LOCATED AT METRIC STATION 14+82 -Y20- CENTERLINE	
	695										
	690										
	685										
	680										
	675										
	670										
	665										
	660										
	655										
	650										
	645										

NCDOT CORE SINGLE R2248E Y20.GPJ NC_DOT.GDT 03/11/10



NCDOT GEOTECHNICAL ENGINEERING UNIT BORELOG REPORT

PROJECT NO. 34410.1.25	ID. R-2248E	COUNTY Mecklenburg	GEOLOGIST Todd, R. W.
SITE DESCRIPTION -Y20- OVER -Y22-			GROUND WTR (ft)
BORING NO. B-42	STATION N/A	OFFSET N/A	ALIGNMENT -Y20-
COLLAR ELEV. 736.9 ft	TOTAL DEPTH 11.2 ft	NORTHING 591,689	EASTING 1,479,254
DRILL MACHINE CME-550X	DRILL METHOD H.S. Augers	HAMMER TYPE Automatic	
START DATE 03/08/10	COMP. DATE 03/08/10	SURFACE WATER DEPTH N/A	DEPTH TO ROCK N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION	DEPTH (ft)
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				
740														
735													GROUND SURFACE 0.0	
													RESIDUAL SOFT BLACK SILTY SANDY CLAY, WET (A-7-8) 1.0	
730	733.0	3.9	2	2	5								RESIDUAL MEDIUM STIFF TO HARD BROWN CLAYEY SANDY SILT, DRY (A-4)	
725	728.0	8.9	37	63/1						100/6			WEATHERED ROCK SEVERELY WEATHERED CRYSTALLINE ROCK 9.0	11.2
													Boring Terminated by Auger Refusal at Elevation 725.7 ft ON CRYSTALLINE ROCK	
720													LOCATED AT METRIC STATION -Y20-15+11, CL	
715														
710														
705														
700														
695														
690														
685														
680														
675														
670														
665														
660														

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