

PROJECT: DF18311.2005335.PR REFERENCE: N/A

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY ASHE
PROJECT DESCRIPTION REPLACE BRIDGE NO. 040439
ON SR 1120 (BALLOU RD.) OVER NORTH FORK
NEW RIVER
SITE BRIDGE I.D. – STA. 15+15.50 –L–

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	DF18311.2005335.PR	1	

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N.C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

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- NOTES:
- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N.C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
 - BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

PERSONNEL

K. HAVEN
A. GROSS, PG
M. B. MOSELEY
R. STUDNICKY

INVESTIGATED BY SUMMIT DES
DRAWN BY M. LEAR, PG
CHECKED BY A. GROSS, PG
SUBMITTED BY M. LEAR, PG
DATE MAY 2026

Prepared in the Office of:

↑

SUMMIT

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Signed by: Michael B. Lear 5/20/2026
A978C1A4C35D4DA...
SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

***NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT
SUBSURFACE INVESTIGATION
SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS***

[illegible]

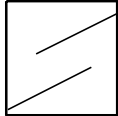
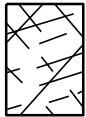
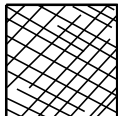
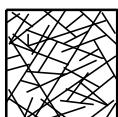
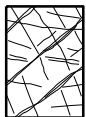
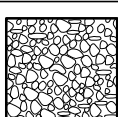
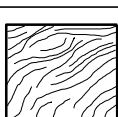
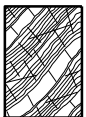
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

SUPPLEMENTAL LEGEND, GEOLOGICAL STRENGTH INDEX (GSI) TABLES
FROM AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

AASHTO LRFD Figure 10.4.6.4-1 — Determination of GSI for Jointed Rock Mass (Marinos and Hoek, 2000)

AASHTO LRFD Figure 10.4.6.4-2 — Determination of GSI for Tectonically Deformed Heterogeneous Rock Masses (Marinos and Hoek, 2000)

GEOLOGICAL STRENGTH INDEX (GSI) FOR JOINTED ROCKS (Hoek and Marinos, 2000)		SURFACE CONDITIONS					GSI FOR HETEROGENEOUS ROCK MASSES SUCH AS FLYSCH (Marinos, P and Hoek E., 2000)		SURFACE CONDITIONS OF DISCONTINUITIES (Predominantly bedding planes)				
From the lithology, structure and surface conditions of the discontinuities, estimate the average value of GSI. Do not try to be too precise. Quoting a range from 33 to 37 is more realistic than stating that GSI = 35. Note that the table does not apply to structurally controlled failures. Where weak planar structural planes are present in an unfavorable orientation with respect to the excavation face, these will dominate the rock mass behaviour. The shear strength of surfaces in rocks that are prone to deterioration as a result of changes in moisture content will be reduced if water is present. When working with rocks in the fair to very poor categories, a shift to the right may be made for wet conditions. Water pressure is dealt with by effective stress analysis.		VERY GOOD Very rough, fresh unweathered surfaces	GOOD Rough, slightly weathered, iron stained surfaces	FAIR Smooth, moderately weathered and altered surfaces	POOR Slickensided, highly weathered surfaces with compact coatings or fillings or angular fragments	VERY POOR Slickensided, highly weathered surfaces with soft clay coatings or fillings	From a description of the lithology, structure and surface conditions (particularly of the bedding planes), choose a box in the chart. Locate the position in the box that corresponds to the condition of the discontinuities and estimate the average value of GSI from the contours. Do not attempt to be too precise. Quoting a range from 33 to 37 is more realistic than giving GSI = 35. Note that the Hoek-Brown criterion does not apply to structurally controlled failures. Where unfavourably oriented continuous weak planar discontinuities are present, these will dominate the behaviour of the rock mass. The strength of some rock masses is reduced by the presence of groundwater and this can be allowed for by a slight shift to the right in the columns for fair, poor and very poor conditions. Water pressure does not change the value of GSI and it is dealt with by using effective stress analysis.		VERY GOOD - Very Rough, fresh unweathered surfaces	GOOD - Rough, slightly weathered surfaces	FAIR - Smooth, moderately weathered and altered surfaces	POOR - Very smooth, occasionally slickensided surfaces with compact coatings or fillings with angular fragments	VERY POOR - Very smooth, slickensided or highly weathered surfaces with soft clay coatings or fillings
STRUCTURE		DECREASING SURFACE QUALITY ➡					COMPOSITION AND STRUCTURE						
	INTACT OR MASSIVE - intact rock specimens or massive in situ rock with few widely spaced discontinuities	90			N/A	N/A		A. Thick bedded, very blocky sandstone. The effect of pelitic coatings on the bedding planes is minimized by the confinement of the rock mass. In shallow tunnels or slopes these bedding planes may cause structurally controlled instability.	70				
	BLOCKY - well interlocked undisturbed rock mass consisting of cubical blocks formed by three intersecting discontinuity sets	80							60				
	VERY BLOCKY - interlocked, partially disturbed mass with multi-faceted angular blocks formed by 4 or more joint sets		70					B. Sandstone with thin inter-layers of siltstone		50			
	BLOCKY/DISTURBED/SEAMY - folded with angular blocks formed by many intersecting discontinuity sets. Persistence of bedding planes or schistosity		60					C. Sandstone and siltstone in similar amounts			40		
	DISINTEGRATED - poorly interlocked, heavily broken rock mass with mixture of angular and rounded rock pieces			50				D. Siltstone or silty shale with sandstone layers				30	
	LAMINATED/SHEARED - Lack of blockiness due to close spacing of weak schistosity or shear planes			40				E. Weak siltstone or clayey shale with sandstone layers					20
				30			C, D, E, and G - may be more or less folded than illustrated but this does not change the strength. Tectonic deformation, faulting and loss of continuity moves these categories to F and H.						
				20				F. Tectonically deformed, intensively folded/faulted, sheared clayey shale or siltstone with broken and deformed sandstone layers forming an almost chaotic structure					10
				10				G. Undisturbed silty or clayey shale with or without a few very thin sandstone layers					
		N/A	N/A					H. Tectonically deformed silty or clayey shale forming a chaotic structure with pockets of clay. Thin layers of sandstone are transformed into small rock pieces.					
							— Means deformation after tectonic disturbance						

GEOTECHNICAL BORING REPORT

BORE LOG

WBS				DF18311.2005335.PR				TIP				N/A				COUNTY				ASHE				GEOLOGIST				K. Haven																							
SITE DESCRIPTION																		Replace Bridge No. 040439 on SR 1120 (Ballou Road) over North Fork New River																		GROUND WTR (ft)															
BORING NO.						BR-01						STATION						13+99						OFFSET						18 ft RT						ALIGNMENT						-L-						0 HR.		Dry	
COLLAR ELEV.						2,979.7 ft						TOTAL DEPTH						2.0 ft						NORTHING						979,615						EASTING						1,215,067						24 HR.		Dry	
DRILL RIG/HAMMER EFF./DATE														N/A														DRILL METHOD						Hand Auger, Rod Sounding						HAMMER TYPE						N/A					
DRILLER						M. G. Moseley						START DATE						10/10/25						COMP. DATE						10/10/25						SURFACE WATER DEPTH										N/A					
ELEV (ft)		DRIVE ELEV (ft)		DEPTH (ft)		BLOW COUNT			BLOWS PER FOOT										SAMP. NO.		MOI		LOG		SOIL AND ROCK DESCRIPTION																		DEPTH (ft)								
0.5ft		0.5ft		0.5ft		0		25		50		75		100																																					
2980		2,979.7		0.0		NA		WOH		1		1						M		2,979.7		GROUND SURFACE																		0.0											
2,978.7		1.0		NA		WOH		1		1										2,977.7		COLLUVIAL Brown, Moist, Very Loose, Silty SAND (A-2-4)																		2.0											
2,977.7		2.0		NA		100/0.0		1		100/0.0												Boring Terminated at Elevation 2,977.7 ft by Sounding Rod Refusal on CRYSTALLINE ROCK: GNEISS																													

NCDOT BORE SINGLE DF18311.2005335.PR_GEO_BRDG_GINT.GPJ NC_DOT.GDT 10/31/25

NCDOT BORE SINGLE DF18311.2005335.PR_GEO_BRDG_GINT.GPJ NC_DOT_GDT 10/31/25

GEOTECHNICAL BORING REPORT
BORE LOG

WBS DF18311.2005335.PR			TIP N/A		COUNTY ASHE			GEOLOGIST K. Haven							
SITE DESCRIPTION Replace Bridge No. 040439 on SR 1120 (Ballou Road) over North Fork New River												GROUND WTR (ft)			
BORING NO. EB1-A BR			STATION 14+48			OFFSET 10 ft LT			ALIGNMENT -L-			0 HR. Dry			
COLLAR ELEV. 2,985.8 ft			TOTAL DEPTH 0.5 ft			NORTHING 979,671			EASTING 1,215,069			24 HR. Dry			
DRILL RIG/HAMMER EFF./DATE N/A						DRILL METHOD Hand Auger, Rod Sounding			HAMMER TYPE N/A						
DRILLER M. G. Moseley			START DATE 10/10/25			COMP. DATE 10/10/25			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)
2990															

NCDOT BORE SINGLE DF18311.2005335.PR_GEO_BRDG_GINT.GPJ NC_DOT_GDT 10/31/25

GEOTECHNICAL BORING REPORT
BORE LOG

WBS			DF18311.2005335.PR			TIP			N/A			COUNTY			ASHE			GEOLOGIST			K. Haven																							
SITE DESCRIPTION															Replace Bridge No. 040439 on SR 1120 (Ballou Road) over North Fork New River										GROUND WTR (ft)																			
BORING NO.			EB1-B BR			STATION			14+60			OFFSET			13 ft RT			ALIGNMENT			-L-			0 HR.		Dry																		
COLLAR ELEV.			2,985.0 ft			TOTAL DEPTH			0.6 ft			NORTHING			979,670			EASTING			1,215,095			24 HR.		Dry																		
DRILL RIG/HAMMER EFF./DATE										N/A					DRILL METHOD					Hand Auger, Rod Sounding					HAMMER TYPE					N/A														
DRILLER					M. G. Moseley					START DATE					10/10/25					COMP. DATE					10/10/25					SURFACE WATER DEPTH										N/A				
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT										SAMP. NO.		LOG	SOIL AND ROCK DESCRIPTION																									
			0.5ft	0.5ft	0.5ft	0	25		50		75		100					ELEV. (ft) DEPTH (ft)																										
2985																				2,985.0 GROUND SURFACE 0.0																								
	2,985.0	0.0	NA	WOH	100/0.1								100/0.6			M		2,984.4 COLLUVIAL 0.6																										
																				Brown, Moist, Very Loose, Silty SAND (A-2-4)																								
																				Boring Terminated at Elevation 2,984.4 ft by Sounding Rod Refusal on CRYSTALLINE ROCK: GNEISS																								

GEOTECHNICAL BORING REPORT

BORE LOG

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GEOTECHNICAL BORING REPORT

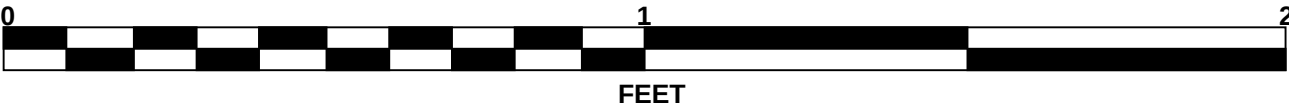
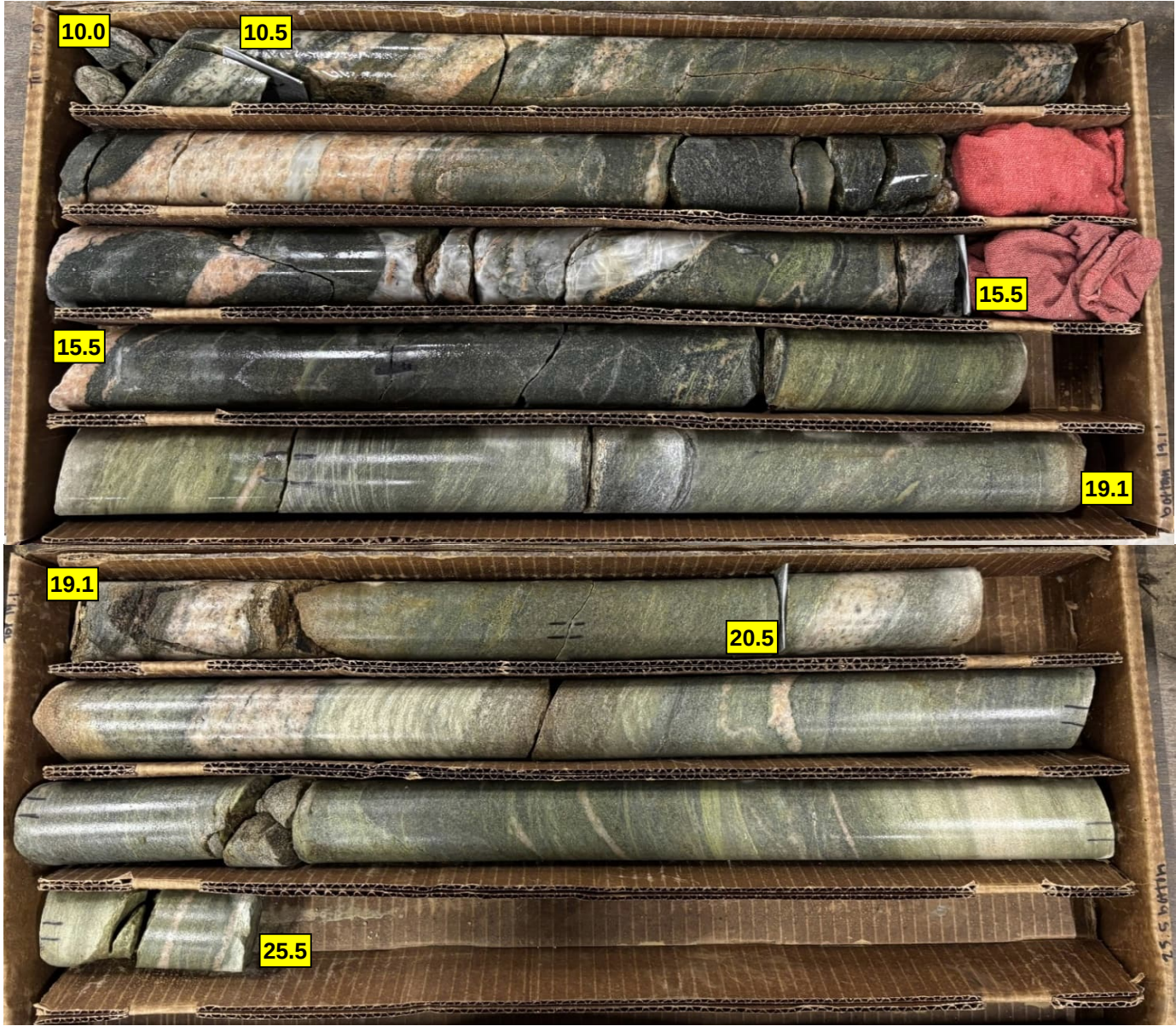
CORE LOG

WBS				DF18311.2005335.PR				TIP				N/A				COUNTY				ASHE				GEOLOGIST				K. Haven											
SITE DESCRIPTION																				Replace Bridge No. 040439 on SR 1120 (Ballou Road) over North Fork New River										GROUND WTR (ft)									
BORING NO.				B1-A				STATION				15+42				OFFSET				15 ft LT				ALIGNMENT				-L-				0 HR.		N/A					
COLLAR ELEV.				2,972.1 ft				TOTAL DEPTH				25.5 ft				NORTHING				979,754				EASTING				1,215,113				24 HR.		1.7					
DRILL RIG/HAMMER EFF./DATE												SUM3123 CME-550X 92% 11/14/2023												DRILL METHOD				NW Casing W/SPT & Core				HAMMER TYPE				Automatic			
DRILLER				M. G. Moseley				START DATE				10/08/25				COMP. DATE				10/08/25				SURFACE WATER DEPTH								N/A							
CORE SIZE				NQ2				TOTAL RUN				15.5 ft																											
ELEV (ft)	RUN ELEV (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %		ROD (ft) %		SAMP. NO.	STRATA REC. (ft) %		ROD (ft) %		L O G	DESCRIPTION AND REMARKS														DEPTH (ft)										
2962.1	2,962.1	10.0	0.5	1:06/0.5	(0.3)	(0.0)				(14.9)		(12.4)			Begin Coring @ 10.0 ft														10.0										
2960	2,961.6	10.5	5.0	4:12 6:06 6:30 11:44 16:05	(5.0)	(3.2)				96%		80%			CRYSTALLINE ROCK Gray-Green-Pink, Moderately Severely Weathered to Fresh, Very Closely to Moderately Closely Fractured, Hard, GNEISS with pegmatitic zones, Epidote throughout (GSI=75-80)																								
2955	2,956.6	15.5	5.0	10:52 12:29 9:08 18:42 3:28	(4.9)	(4.9)																																	
2950	2,951.6	20.5	5.0	3:31 2:59 3:41 4:02 4:31	(4.7)	(4.3)																																	
	2,946.6	25.5													Boring Terminated at Elevation 2,946.6 ft in CRYSTALLINE ROCK: GNEISS														25.5										

CORE PHOTOGRAPHS

B1-A

BOXES 1 & 2: 10.0 - 25.5 FEET



NCDOT BORE SINGLE DF18311.2005335.PR GEO BRDG GINT.GPJ NC DOT.GDT 5/7/26

NCDOT BORE SINGLE DF18311.2005335.PR GEO BRDG GINT.GPJ NC DOT.GDT 5/7/26

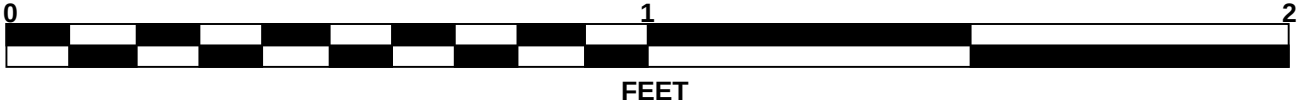
NCDOT CORE SINGLE DF18311.2005335.PR GEO BRDG GINT.GPJ NC DOT.GDT 5/7/26

NCDOT CORE SINGLE DF18311.2005335.PR GEO BRDG GINT.GPJ NC DOT.GDT 5/7/26

CORE PHOTOGRAPHS

B1-B

BOXES 1 & 2: 5.0 - 15.4 FEET



NCDOT BORE SINGLE DF18311.2005335.PR_GEO_BRDG_GINT.GPJ NC_DOT.GDT 10/31/25

GEOTECHNICAL BORING REPORT
BORE LOG

WBS DF18311.2005335.PR			TIP N/A		COUNTY ASHE		GEOLOGIST K. Haven								
SITE DESCRIPTION Replace Bridge No. 040439 on SR 1120 (Ballou Road) over North Fork New River										GROUND WTR (ft)					
BORING NO. EB2-A			STATION 15+67			OFFSET 21 ft LT			ALIGNMENT -L-		0 HR. N/A				
COLLAR ELEV. 2,971.9 ft			TOTAL DEPTH 16.0 ft			NORTHING 979,779			EASTING 1,215,121		24 HR. 1.0				
DRILL RIG/HAMMER EFF./DATE SUM3123 CME-550X 92% 11/14/2023						DRILL METHOD H.S. Augers				HAMMER TYPE Automatic					
DRILLER M. G. Moseley			START DATE 10/07/25			COMP. DATE 10/07/25			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)
2975															
	2,971.9	0.0												2,971.9	GROUND SURFACE 0.0
2970			WOH	9	7									2,969.4	ALLUVIAL Dark Brown, Wet, Medium Dense, Clayey SAND (A-2-6), with Organics (wood ., roots) 2.5
	2,968.1	3.8												2,967.6	Brown, Saturated, Very Dense, Silty Sandy GRAVEL (A-1-b) 4.3
2965			40	31	69/0.1									2,966.9	WEATHERED ROCK GNEISS 5.0
2960															
														2,955.9	CRYSTALLINE ROCK Gray-Green, Moderately Severely to Very Slightly Weathered, Very Closely to Closely Fractured, Medium Hard to Hard, GNEISS with pegmatitic zones, Epidote throughout (SREC=88% / SRQD=45% / GSI=40-50) 16.0
														Boring Terminated at Elevation 2,955.9 ft in CRYSTALLINE ROCK: GNEISS	
														Multiple attempts to set up on hole with refusal between 2.0-5.0 feet in boulders	

GEOTECHNICAL BORING REPORT
CORE LOG

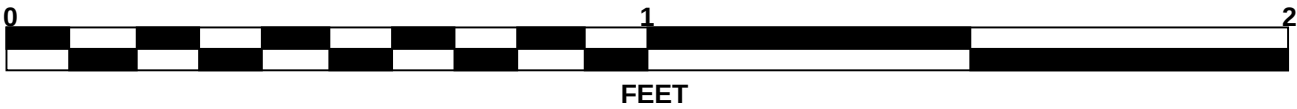
WBS				DF18311.2005335.PR				TIP				N/A				COUNTY				ASHE				GEOLOGIST				K. Haven																																											
SITE DESCRIPTION																				Replace Bridge No. 040439 on SR 1120 (Ballou Road) over North Fork New River																				GROUND WTR (ft)																															
BORING NO.								EB2-A								STATION								15+67								OFFSET								21 ft LT								ALIGNMENT								-L-								0 HR.				N/A			
COLLAR ELEV.								2,971.9 ft								TOTAL DEPTH								16.0 ft								NORTHING								979,779								EASTING								1,215,121								24 HR.				1.0			
DRILL RIG/HAMMER EFF./DATE																SUM3123 CME-550X 92% 11/14/2023																DRILL METHOD								H.S. Augers								HAMMER TYPE								Automatic															
DRILLER								M. G. Moseley								START DATE								10/07/25								COMP. DATE								10/07/25								SURFACE WATER DEPTH																N/A							
CORE SIZE								NQ2								TOTAL RUN								11.0 ft																																															
ELEV (ft)		RUN ELEV (ft)		DEPTH (ft)		RUN (ft)		DRILL RATE (Min/ft)		RUN REC. (ft) %		ROD (ft) %		SAMP. NO.		STRATA REC. (ft) %		ROD (ft) %		LOG		DESCRIPTION AND REMARKS																																																	
																						ELEV. (ft) DEPTH (ft)																																																	
2966.9		2,966.9		5.0		1.0		3:21		(1.0)		(0.0)				(9.7)		(5.0)				Begin Coring @ 5.0 ft																																																	
2965		2,965.9		6.0		5.0		1:32		100%		0%				88%		45%				CRYSTALLINE ROCK																																																	
								8:01		(4.0)		(1.7)										Gray-Green, Moderately Severely to Very Slightly Weathered, Very Closely to Closely Fractured, Medium Hard to Hard, GNEISS with pegmatitic zones, Epidote throughout (GSI=40-50)																																																	
								6:06		80%		34%																																																											
								3:55																																																															
2960		2,960.9		11.0		5.0		7:19		(4.7)		(3.3)																																																											
								6:08		94%		66%																																																											
								4:24																																																															
								5:12																																																															
								2:54																																																															
		2,955.9		16.0				4:47														2,955.9																																																	
																						Boring Terminated at Elevation 2,955.9 ft in CRYSTALLINE ROCK: GNEISS																																																	
																						Multiple attempts to set up on hole with refusal between 2.0-5.0 feet in boulders																																																	

NCDOT CORE SINGLE DF18311.2005335.PR_GEO_BRDG_GINT.GPJ NC_DOT.GDT 10/31/25

CORE PHOTOGRAPHS

EB2-A

BOXES 1 & 2: 5.0 - 16.0 FEET



BORE LOG

BORE LOG

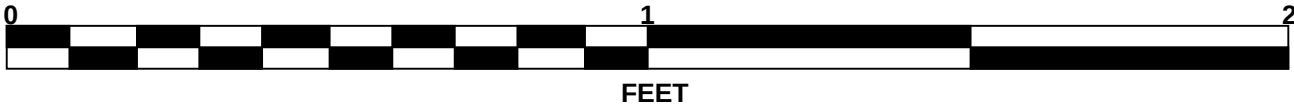
CORE LOG

CORE LOG

CORE PHOTOGRAPHS

EB2-B

BOX 1: 5.0 - 16.0 FEET





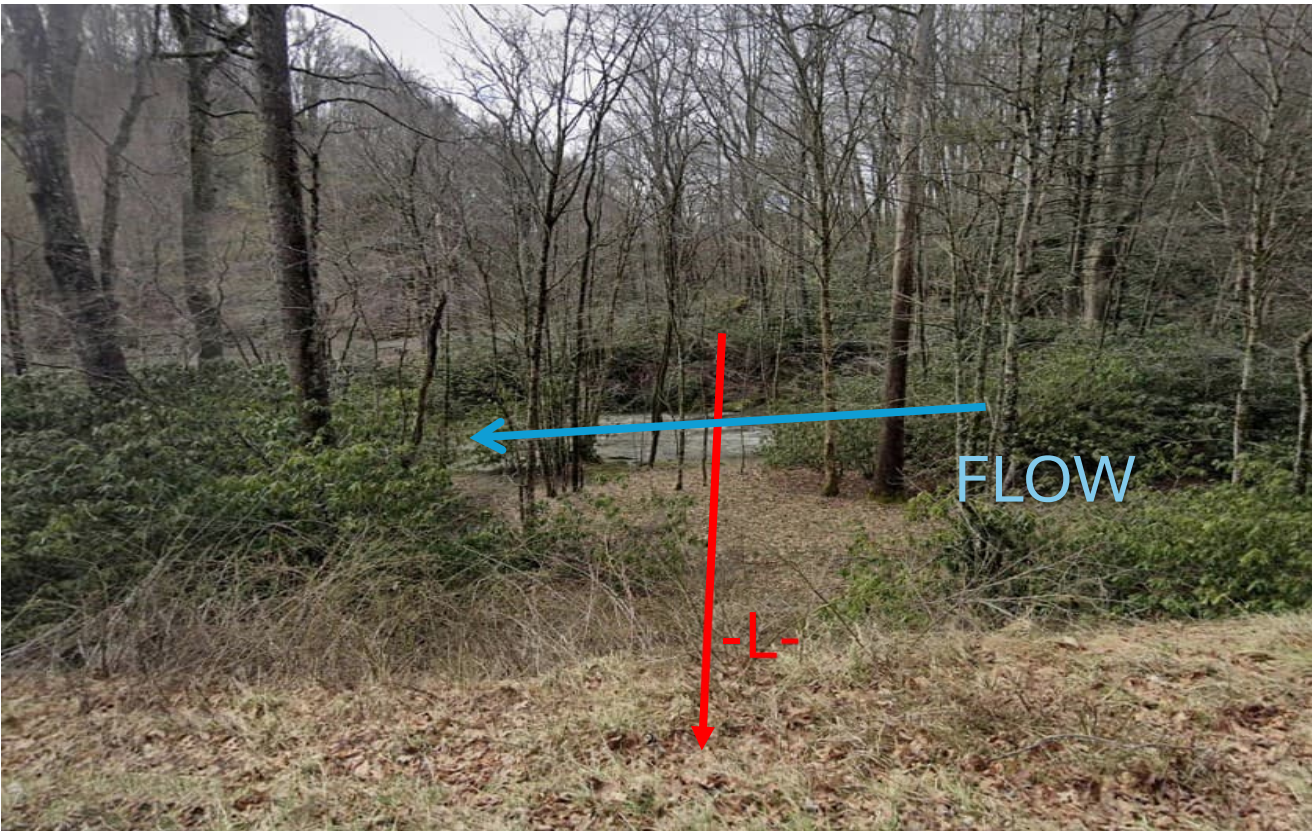
View to north towards proposed End Bent 1



View to south from Bent 1 towards End Bent 1 showing boulders, rock outcrop in river and bank



View to west towards proposed alignment (-L-), boulders, rock outcrop in river and bank



View to south towards proposed End Bent 2 from shoulder of NC 88