NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #1: BRIDGE NO. 27 ON -Y1- (NC 39) OVER -NBL-&-SBL- (I-85)			**GROUND WTR (ft)**
BORING NO. B1-AA	**STATION** 21+48	**OFFSET** 43 ft LT	**ALIGNMENT** -Y1- / **0 HR.** N/A
COLLAR ELEV. 428.5 ft	**TOTAL DEPTH** 53.2 ft	**NORTHING** 943,301	**EASTING** 2,173,632 / **24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** NW Casing W/SPT & Core	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/05/13	**COMP. DATE** 11/05/13	**SURFACE WATER DEPTH** N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION ELEV. (ft)	DEPTH (ft)
430											
										428.5 GROUND SURFACE	0.0
										ROADWAY EMBANKMENT BROWN, SANDY CLAY	
425										425.5	3.0
										RESIDUAL BROWN AND GRAY, SANDY SILT	
420											
415											
410	410.0	18.5	33	50	50/0.5	100/1.0				410.0	18.5
										BROWN, ORANGE, AND GRAY, SILTY SAND WITH MICA	
405	405.0	23.5	30	40	38	78		M		401.5	27.0
										WEATHERED ROCK (MICA-GNEISS)	
400	400.0	28.5	100/0.3			100/0.3					
395	395.0	33.5	40	60/0.3		100/0.8					
390	390.0	38.5	100/0.2			100/0.2					
385	385.4	43.1	60/0.1			60/0.1				385.3	43.2
										CRYSTALLINE ROCK BLUE-GRAY AND PINK, FRESH TO VERY SLIGHTLY WEATHERED, HARD TO VERY HARD, CLOSE TO VERY CLOSE FRACTURE SPACING, 9 JOINTS @ 45°-60°, 7 JOINTS @ 30°-45°, MICA GNEISS REC=96% RQD=45% RMR=57	
380	380.3	48.2	60/0.0			60/0.0	RS-1				
	375.3	53.2	60/0.0			60/0.0				375.3	53.2
										Boring Terminated at Elevation 375.3 ft IN CRYSTALLINE ROCK (MICA-GNEISS)	

NCDOT GEOTECHNICAL ENGINEERING UNIT
CORE BORING REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #1: BRIDGE NO. 27 ON -Y1- (NC 39) OVER -NBL-&-SBL- (I-85)			**GROUND WTR (ft)**
BORING NO. B1-AA	**STATION** 21+48	**OFFSET** 43 ft LT	**ALIGNMENT** -Y1- / **0 HR.** N/A
COLLAR ELEV. 428.5 ft	**TOTAL DEPTH** 53.2 ft	**NORTHING** 943,301	**EASTING** 2,173,632 / **24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** NW Casing W/SPT & Core	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/05/13	**COMP. DATE** 11/05/13	**SURFACE WATER DEPTH** N/A
CORE SIZE NWD4	**TOTAL RUN** 10.0 ft		

ELEV (ft)	RUN ELEV (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS ELEV. (ft)	DEPTH (ft)
385.3											Begin Coring @ 43.2 ft	
	385.3	43.2	5.0	7:27/1.0 4:21/1.0 5:12/1.0 4:58/1.0 5:25/1.0	(4.6) 92%	(1.5) 30%		(9.6) 96%	(4.5) 45%		385.3 **CRYSTALLINE ROCK** BLUE-GRAY AND PINK, FRESH TO VERY SLIGHTLY WEATHERED, HARD TO VERY HARD, CLOSE TO VERY CLOSE FRACTURE SPACING, 9 JOINTS @ 45°-60°, 7 JOINTS @ 30°-45°, MICA GNEISS REC=96% RQD=45% RMR=57	43.2
380	380.3	48.2	5.0	*N=60/0.0* 4:00/1.0 3:45/1.0 4:56/1.0 4:09/1.0 5:35/1.0	(5.0) 100%	(3.0) 60%	RS-1					
	375.3	53.2		*N=60/0.0*							375.3	53.2
											Boring Terminated at Elevation 375.3 ft IN CRYSTALLINE ROCK (MICA-GNEISS)	