NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #4: DUALS ON -NBL & -SBL- (I-85) OVER -Y7- (FLEMINGTOWN RD.)			**GROUND WTR (ft)**
BORING NO. EB2-A_RL	**STATION** 422+19	**OFFSET** 9 ft LT	**ALIGNMENT** -NBL- — **0 HR.** N/A
COLLAR ELEV. 496.4 ft	**TOTAL DEPTH** 44.2 ft	**NORTHING** 962,742	**EASTING** 2,194,819 — **24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/06/13	**COMP. DATE** 11/06/13	**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)
500											
										496.4 GROUND SURFACE	0.0
										495.3 **ROADWAY EMBANKMENT** ASPHALT AND CONCRETE	1.1
										RED-BROWN AND ORANGE, SILTY CLAY	
495	495.4	1.0	2	1	2	3		M			
	492.9	3.5	2	2	3	5		M			
490	490.4	6.0	3	3	3	6		M			
	487.9	8.5	1	1	1	2		M			
485											
	482.9	13.5	2	1	1	2		M			
480											
	477.9	18.5	2	3	5	8		M			
475											
	472.9	23.5	1	WOH	1	1		M		473.9 **ALLUVIAL** GRAY, SANDY SILT WITH WOOD FRAGMENTS	22.5
470											
	467.9	28.5	3	3	3	6		M		468.9 **RESIDUAL** GRAY AND WHITE, SILTY SAND	27.5
465											
	462.9	33.5	13	12	8	20		M			
460											
	457.9	38.5	8	6	6	12		M			
455											
	452.9	43.5	19	60/0.1		60/0.1				452.4 **CRYSTALLINE ROCK** (GRANITE)	44.0
	452.2	44.2	60/0.0			60/0.0				452.2 Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 452.2 ft IN CRYSTALLINE ROCK (GRANITE)	44.2

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #4: DUALS ON -NBL & -SBL- (I-85) OVER -Y7- (FLEMINGTOWN RD.)			**GROUND WTR (ft)**
BORING NO. EB2-B_RL	**STATION** 422+23	**OFFSET** 20 ft RT	**ALIGNMENT** -NBL- — **0 HR.** 28.7
COLLAR ELEV. 496.0 ft	**TOTAL DEPTH** 50.7 ft	**NORTHING** 962,728	**EASTING** 2,194,845 — **24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME3193 CME-550X 80% 06/07/2011		**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/06/13	**COMP. DATE** 11/06/13	**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	
500											
										496.0 GROUND SURFACE	0.0
										ROADWAY EMBANKMENT ORANGE AND BROWN, SANDY CLAY	
495	495.0	1.0	4	2	1	3		M			
	492.5	3.5	2	3	3	6		M		490.5 ORANGE AND BROWN, SILTY CLAY	5.5
490	490.0	6.0	2	2	4	6		M			
	487.5	8.5	2	2	3	5		M		484.0 GRAY, BROWN, AND ORANGE, SANDY CLAY	12.0
485											
	482.5	13.5	3	2	3	5		M			
480											
	477.5	18.5	2	2	4	6		M		474.0 **ALLUVIAL** GRAY AND BROWN, CLAYEY SAND WITH TRACE MICA	22.0
475											
	472.5	23.5	2	2	3	5		M		469.0 **RESIDUAL** GRAY, WHITE, AND TAN, CLAYEY SAND WITH TRACE MICA	27.0
470											
	467.5	28.5	2	3	3	6		M			
465											
	462.5	33.5	6	6	7	13		M		459.0 WHITE AND TAN, SILTY SAND WITH TRACE MICA AND ROCK FRAGMENTS	37.0
460											
	457.5	38.5	6	8	7	15		W			
455											
	452.5	43.5	21	15	29	44		M		449.0 **WEATHERED ROCK** (GRANITE)	47.0
450											
	447.5	48.5	44	54/0.2		100/0.7				445.3 Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 445.3 ft ON CRYSTALLINE ROCK (GRANITE)	50.7
	445.3	50.7	60/0.0			60/0.0					

NCDOT BORE DOUBLE I0914BA_GEO_BH_DUALS.GPJ NC_DOT.GDT 12/9/13