NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38496.1.1	**TIP** B-4722B	**COUNTY** CARTERET	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION BRIDGE NO. 33 ON -L- (US 70) OVER THE NORTH RIVER			**GROUND WTR (ft)**
BORING NO. B9-B	**STATION** 49+10	**OFFSET** 18 ft RT	**ALIGNMENT** -L- — **0 HR.** N/A
COLLAR ELEV. -11.4 ft	**TOTAL DEPTH** 66.9 ft	**NORTHING** 386,858	**EASTING** 2,717,504 — **24 HR.** N/A
DRILL RIG/HAMMER EFF./DATE MAD3964 CME-45C 83% 07/24/2012		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** N/A	**COMP. DATE** 08/30/12	**SURFACE WATER DEPTH** 11.3ft

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)
-11.4		0.0								GROUND SURFACE	0.0
			WOR	WOR	WOR	0				**ALLUVIAL** BROWN CLAY WITH LITTLE TO MODERATE ORGANIC MATERIAL AND SHELL FRAGMENTS, WET	
	-17.6	6.2	WOR	WOR	WOR	0					
	-22.6	11.2	3	4	4	8					
	-27.6	16.2	4	3	2	5					
	-32.6	21.2	6	4	4	8					
	-37.6	26.2	10	5	13	18					
	-42.6	31.2	11	11	5	16					
	-47.6	36.2	3	4	8	12					
	-52.6	41.2	6	7	10	17					
	-57.6	46.2	13	20	50	70					
	-62.6	51.2	51	100/0.4		100/0.4					
	-67.6	56.2	51	75	25/0.3	100/0.8					
	-72.6	61.2	75	25/0.2		100/0.7					
	-77.6	66.2	75	25/0.2		100/0.7					
-25.4		14.0								**UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED	
-45.4		34.0								**UNDIVIDED COASTAL PLAIN** GRAY CLAY WITH SHELL FRAGMENTS, WET	
-50.4		39.0								**UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED	
-78.3		66.9								Boring Terminated at Elevation -78.3 ft in Very Dense Sand	

WBS 38496.1.1	**TIP** B-4722B	**COUNTY** CARTERET	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION BRIDGE NO. 33 ON -L- (US 70) OVER THE NORTH RIVER			**GROUND WTR (ft)**
BORING NO. B10-A	**STATION** 50+00	**OFFSET** 18 ft LT	**ALIGNMENT** -L- — **0 HR.** N/A
COLLAR ELEV. -8.4 ft	**TOTAL DEPTH** 74.2 ft	**NORTHING** 386,911	**EASTING** 2,717,585 — **24 HR.** N/A
DRILL RIG/HAMMER EFF./DATE MAD3964 CME-45C 83% 07/24/2012		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** N/A	**COMP. DATE** 08/31/12	**SURFACE WATER DEPTH** 8.9ft

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
-8.4		0.0								GROUND SURFACE 0.0
			WOR	WOR	WOR	0				**ALLUVIAL** BROWN CLAY WITH LITTLE TO MODERATE ORGANIC MATERIAL, WET
	-11.9	3.5	WOR	WOR	WOR	0				
	-16.9	8.5	WOH	WOH	WOH	0				
	-21.9	13.5	1	2	4	6				
	-26.9	18.5	WOH	WOH	WOH	0				
	-31.9	23.5	2	2	4	6				
	-36.9	28.5	6	9	13	22				
	-41.9	33.5	12	14	31	45				
	-46.9	38.5	2	8	9	17				
	-51.9	43.5	2	2	3	5				
	-56.9	48.5	5	6	10	16				
	-61.9	53.5	35	44	56/0.2	100/0.7				
	-66.9	58.5	61	100/0.4		100/0.4				
	-71.9	63.5	75	25/0.1		100/0.6				
	-76.9	68.5	75	25/0.2		100/0.7				
	-81.9	73.5	75	25/0.2		100/0.7				
-19.9		11.5								**UNDIVIDED COASTAL PLAIN** GRAY SAND, SATURATED
-24.9		16.5								**UNDIVIDED COASTAL PLAIN** GRAY CLAY WITH SHELL FRAGMENTS, WET
-29.9		21.5								**UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED
-49.9		41.5								**UNDIVIDED COASTAL PLAIN** GRAY CLAY WITH SHELL FRAGMENTS, WET
-54.9		46.5								**UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED
-82.6		74.2								Boring Terminated at Elevation -82.6 ft in Very Dense Sand