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. B5-B	**STATION** 45+50	**OFFSET** 18 ft RT	**ALIGNMENT** -L- — **0 HR.** N/A
COLLAR ELEV. -6.8 ft	**TOTAL DEPTH** 65.9 ft	**NORTHING** 386,787	**EASTING** 2,717,151 — **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** 08/24/12	**SURFACE WATER DEPTH** 7.0ft

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))
	-6.8	0.0	WOR	WOR	WOR	0				-6.8 / 0.0 GROUND SURFACE
										ALLUVIAL BROWN CLAY WITH LITTLE TO MODERATE ORGANIC MATERIAL AND SHELL FRAGMENTS, WET
	-11.8	5.0	WOR	WOR	WOR	0				
	-16.8	10.0	WOR	WOR	1	1				-17.8 / 11.0 **UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED
	-21.8	15.0	WOH	WOH	2	2				
	-26.8	20.0	4	8	5	13				
	-31.8	25.0	4	2	3	5				
	-36.8	30.0	14	17	19	36				
	-41.8	35.0	7	11	14	25				
	-46.8	40.0	4	3	3	6				-47.8 / 41.0 **UNDIVIDED COASTAL PLAIN** GRAY CLAY WITH SHELL FRAGMENTS, WET (-49.8 / 43.0) **UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED
	-51.8	45.0	3	60	100/0.5	100/0.5				
	-56.8	50.0	30	75	25/0.4	100/0.9				
	-61.8	55.0	63	100/0.5		100/0.5				
	-66.8	60.0	75	25/0.2		100/0.7				
	-71.8	65.0	25	75/0.4		100/0.9				-72.7 / 65.9 Boring Terminated at Elevation -72.7 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. B6-A	**STATION** 46+40	**OFFSET** 18 ft LT	**ALIGNMENT** -L- — **0 HR.** N/A
COLLAR ELEV. -6.3 ft	**TOTAL DEPTH** 69.8 ft	**NORTHING** 386,840	**EASTING** 2,717,232 — **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** 08/29/12	**SURFACE WATER DEPTH** 7.4ft

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))
	-6.3	0.0	WOH	WOH	WOH	0				-6.3 / 0.0 GROUND SURFACE
										ALLUVIAL BROWN CLAY WITH LITTLE TO MODERATE ORGANIC MATERIAL AND SHELL FRAGMENTS, WET
	-10.4	4.1	WOR	WOR	WOR	0				
	-15.4	9.1	WOH	WOH	WOH	0				-18.3 / 12.0 **UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED
	-20.4	14.1	4	6	8	14				
	-25.4	19.1	2	0	1	1				
	-30.4	24.1	2	1	2	3				-31.4 / 25.1 **UNDIVIDED COASTAL PLAIN** GRAY CLAY WITH SHELL FRAGMENTS, WET (-33.3 / 27.0) **UNDIVIDED COASTAL PLAIN** GRAY SAND WITH SHELL FRAGMENTS, SATURATED
	-35.4	29.1	6	7	12	19				
	-40.4	34.1	7	12	20	32				
	-45.4	39.1	7	7	6	13				
	-50.4	44.1	4	7	11	18				
	-55.4	49.1	75	25/0.1		100/0.6				
	-60.4	54.1	75	25/0.2		100/0.7				
	-65.4	59.1	75	25/0.2		100/0.7				
	-70.4	64.1	75	25/0.2		100/0.7				
	-75.4	69.1	75	25/0.2		100/0.7				-76.1 / 69.8 Boring Terminated at Elevation -76.1 ft in Very Dense Sand