



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 1 OF 5

PROJECT NUMBER 32635.1.3		ID B-2500	CO Date		GEO Bradley/Plummer		GROUND WATER		0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet		STA		OFFSET	FT	ALIGNMENT	EAST		N/A	N/A
BORING NUMBER B-54B		TOTAL DEPTH 183.3		NORTH				DEPTH TO WATER		
ELEVATION		FT		NORTH				DEPTH TO BTM		
DRILL MACHINE CME 550x		DRILL EQMT NUMBER		DRILL METHOD H casing / 3 1/8" T. cone				HAMMER TYPE		Auto
START DATE 6/4/11		COMP DATE 6/6/11		SURFACE WTR DEPTH 19.6		FT		DEPTH TO ROCK		N/A
								DRILLER		J. White / M. Moseley

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION
	0.5 ft	0.5 ft	0.5 ft					
4.8								
5	4	4	7	15	SS-206/4.8-6.3	SAT	und. ft (Coastal) plain Deposit	Gray fine T. Coarse SAND w/ trace of silt (A-3)
10								
15								
20.2	12	13	16	29	SS-207/20.2-25.7	SAT		19.0 Gray silty fine SAND (A-2.4)
25								
30.4	5	6	7	13	SS-208/30.4-31.9	W		29.0 Brown fine sandy silt (A-4)
35								
								38.5

NOTES		SIGNATURE		DATE	
1) Advanced H casing T. 29.2 feet (50.4 Total) 2) Advanced 3 1/8" T. cone T. 181.8 feet 3) Ocean H ₂ O used as drilling fluid 4) Approx drilling fluid density 5) Some loss of drilling fluid observer		RED LINE NOTES			
DECK TO DATUM DISTANCE		FT			
DRILLING FLUID PROPERTIES		FT			
FINAL CASING DEPTH		FT			



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SHEET 2 OF 5

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER Depth to WATER	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet			ALIGNMENT EAST	Depth to BTM DATE		
BORING NUMBER B-54B	STA 1583.3	OFFSET FT	DRILL METHOD H casing 1 3/8" Tri-cone	HAMMER TYPE Auto		
ELEVATION	FT	TOTAL DEPTH 196.3	DRILL SURFACE 19.6	DEPTH TO ROCK N/A		
DRILL MACHINE Cmc - 550x	DRILL EGMT NUMBER	DATE 6/4/11	DATE 6/4/11	DRILLER MM + JW		
DEPTH (ft)	BLOW COUNT			SOIL & ROCK DESCRIPTION		
	0.5 ft	0.5 ft	0.5 ft	SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)		
40.8	4	4	4	55.209/40.8-42.3 SAT Gray clayey fine SAND w/ Trace of shell fragments (A-2.7)		
51.3	7	11	14	55.210/51.3-52.8 SAT Gray silty coarse T. fine SAND w/ Trace shell fragments (A-2.4)		
61.4	14	17	23	55.211/61.4-62.9 SAT Gray silty fine to coarse SAND w/ Trace shell fragments (A-2.4)		
71.7	4	4	2	55.212/71.7-71.7 SAT Gray silty FINE SAND w/ some CLAY ROCKS (A-2.9)		
NOTES				SIGNATURE		
DECK TO DATUM DISTANCE				DATE		
DRILLING FLUID PROPERTIES				NOTES		
FINAL CASING DEPTH				RED LINE		



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SHEET 3 OF 5

PROJECT NUMBER 32635.1.3	STA B-2500	DATE Dare	GEO Bradley/Plummer	GROUND WATER Depth to WATER Depth to BTM DATE	0 HOUR	24 HOUR					
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet	BOREING NUMBER B-54B	OFFSET FT	ALIGNMENT EAST								
ELEVATION FT	TOTAL DEPTH 183.3	FT	NORTH								
DRILL MACHINE CME-550X	DRILL EQMT NUMBER C/6/2011	DRILL METHOD "H" CASING / 3" TRIZONE BIT	DRILL SURFACE WTR DEPTH 19.6	DEPTH TO ROCK N/A	HAMMER TYPE Auto						
START DATE 6/4/2011	COMP DATE 6/6/2011	DRILLER J. WHITE / M. WILSON									
DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT				SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION
	0.5 ft	0.5 ft	0.5 ft	0	25	50	75	100			SOIL or ROCK NAME (w/ color, density, consistency, texture, plasticity, organics, other)
2	2	2	4					SS. 213/79.2 SAT 81.3			GRAY FINE SAND SILT (A-4)
5											
89.4	8	12	15					SS. 214/81.4 SAT 90.9			GRAY SILTY FINE SAND (A-2-3)
10											
15											
89.9	23	34	31					SS. 215/99.9 SAT 101.9			GRAY SILTY FINE SAND (A-2-4)
20											
25											
139.7	11	13	17					SS. 216/100.7 SAT 112.2			(GRAY) SILTY FINE SAND (A-2-4)
30											
35											
NOTES											
SIGNATURE _____ DATE _____											
NOTES											
DECK TO DATUM DISTANCE _____ FT											
DRILLING FLUID PROPERTIES											
FINAL CASING DEPTH _____ FT											



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SHEET 4 OF 5

PROJECT NUMBER 32835.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER Depth to WATER Depth to BTM DATE moiled	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet						
BORING NUMBER 13-54B	STA 183.3	OFFSET FT NORTH	ALIGN- MENT EAST			
ELEVATION FT	TOTAL DEPTH FT					
DRILL MACHINE Cmc 550x	DRILL EQMT NUMBER	DRILL METHOD H C 550s / 37/8" T.CONE	HAMMER TYPE Auto			
START DATE 6/4/11	COMP DATE 6/10/2011	SURFACE WTR DEPTH 196	FT	DEPTH TO ROCK N/A	FT	DRILLER J. Wh. K. M. M. Kelly

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)
	0.5 ft	0.5 ft	0.5 ft					
13	13	17	25	4/2	SS-217/120.4 121.9	SAT		Gray silty fine T. coarse SAND (A-2.4)
129.7	3	4	6	10	SS-219/129.7- 131.2	W		Gray silty clay (A-7.5)
140.0	5	6	9	15	SS-219/140.0- 141.5	W		Gray silty clay (A-7.5)
150.8	4	5	7	12	SS-220/150.8- 152.3	W		Gray silty clay (A-7.5)
159.4					SS-221/159.4- 160.9			Gray silty clay (A-7.5)

NOTES	SIGNATURE	DATE
DECK TO DATUM DISTANCE FT	NOTES	
DRILLING FLUID PROPERTIES		
FINAL CASING DEPTH FT		



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SHE 5 OF 5

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER 0 HOUR 24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				
BORING NUMBER B-54B	STA 183.3	OFFSET FT	ALIGNMENT EAST	
ELEVATION FT	TOTAL DEPTH 183.3	FT	NORTH	
DRILL MACHINE CMR-550X	DRILL EQMT NUMBER	DRILL METHOD CASING / 3" TRIPLINE	HAMMER TYPE Auto	
START DATE 6/9/11	COMP DATE 6/9/11	SURFACE WTR DEPTH 19.6	DEPTH TO ROCK N/A	DRILLER J. WHITE/M. GIBSON
DEPTH (ft)	BLOW COUNT 0.5 ft 0.5 ft 0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL MOI	SOIL & ROCK DESCRIPTION SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)
5				
10	WH 5 8		SS 222/162.4 170.6	CLAY FINE SANDY SILTY/SOME CLAY POCKETS (A-4)
15				
20				
25	6 3 4		SS 223/118 183.3	CLAY SILTY CLAY (A-7.5)
30				
35				
NOTES				SIGNATURE
DECK TO DATUM DISTANCE				DATE
DRILLING FLUID PROPERTIES				NOTES
FINAL CASING DEPTH				