



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 1 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	13.64	STA		OFFSET	FT	ALIGNMENT		Depth to WATER			
ELEVATION	-10.3	FT	TOTAL DEPTH	191.9	FT	NORTH	752509	Depth to BTM			
DRILL MACHINE	CME-550x	DRILL EQMT NUMBER		DRILL METHOD	1/4 casing / 3/8" T. case	EAST	3028395	DATE			
START DATE	5/31/11	COMP DATE	6/2/11	SURFACE WTR DEPTH	9.8	FT	DEPTH TO ROCK	N/A	FT	HAMMER TYPE	Auto
										DRILLER	mm + JW

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)
4.5			55.182/9.5-11.0	SAT	Under COASTAL plain Dep	Gray silty fine SAND (A-2.4)
10	5 6 9	15				13.0
15.0	WON WON WON	0	55.183/15.0-16.5	W		Green Gray fine SANDY clay (A-6)
20.0	4 4 9	13	55.184/20.0-21.5	SAT		Gray silty coarse to fine SAND (A-2.4)
25						
29.4			55.185/29.4-30.9	SAT		Gray silty fine SAND (A-2.4)
30	7 6 10	16				
35						
38.4	6 7 5	12	55.186/38.4-39.9	SAT		Gray silty fine SAND (A-2.4)

NOTES
1) Advanced H casing to 38.4 feet (55.4' Total)
2) Advanced 3/8" T. case to 190.4 feet
3) Press H₂O used as drilling fluid
4) Approx drilling fluid density
DECK TO DATUM DISTANCE _____ FT
DRILLING FLUID PROPERTIES
5) Some loss of drilling fluid
FINAL CASING DEPTH _____ FT

SIGNATURE _____ DATE _____
NOTES
RED LINE

9.3 9.9 10.9



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

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				Depth to BTTM						
BORING NUMBER B-64	STA -10.3	FT	OFFSET NORTH 752.509	ALIGNMENT EAST 302.8395						
ELEVATION	TOTAL DEPTH 191.9	FT	DRILL METHOD H casing / 3 1/8" T.I.CONE	HAMMER TYPE Auto						
DRILL MACHINE CMC-550x	DRILL EQMT NUMBER		SURFACE WTR DEPTH 9.8	DEPTH TO ROCK N/A						
START DATE 5/21/11	COMP DATE 6/2/11		FT	FT						
ORILLER m.k.m + J. SANCHEZ										
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	ORIGIN	SOIL & ROCK DESCRIPTION SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)
5										
10	1	8	8				SS. 167/165-50.3	SM		GRAY FINE SANDY SILT (A-4)
15										
20	20	20	30				SS. 188/59.6-60.1	SM		GRAY SILTY FINE SAND w/ SMALL FRAGMENTS (A-2-4)
25										
30	9	14	19				SS. 189/70.1-71.6	SM		GRAY SILTY FINE SAND w/ THINER SMALL FRAGMENTS (A-2-4)
35										
NOTES										
SIGNATURE										
DATE										
NOTES										
RED LINE										
DECK TO DATUM DISTANCE										
FT										
DRILLING FLUID PROPERTIES										
FINAL CASING DEPTH										
FT										



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 3 OF 5

PROJECT NUMBER 32635.1.3	ID B-2500	CO Date	GEO Bradley/Plummer	GROUND WATER 0 HOUR	24 HOUR
SITE Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet					
BORING NUMBER B-64	STA 10.3	FT	OFFSET NORTH 752509	ALIGNMENT EAST 3028395	
DRILL MACHINE CM-SSOX	DRILL EOMT NUMBER 6211	DATE 6/2/11	DRILL METHOD H casing / 3 1/2" T.C.M.	HAMMER TYPE Auto	
START DATE 5/31/11	WTR DEPTH 9.8	FT	DEPTH TO ROCK MIA	FT	DRILLER M. K. M. J. S. W.
DEPTH (ft)	BLOW COUNT 0.5 ft 0.5 ft 0.5 ft			SOIL & ROCK DESCRIPTION	
	BLOWS PER FOOT 0 25 50 75 100			SOIL or ROCK NAME (w/ color, density, consistency, texture, plasticity, organics, other)	
59.8	6	3	6	SS. 190/80.1 81.6	SAT Gray silty fine sand (A-2.4)
10.0	3	10	24	SS. 191/89.8 91.3	SAT Gray silty fine sand (A-2.4)
98.6	20	40	50	SS. 192/98.6 100.1	SAT Gray silty fine sand (A-2.4)
108.6	17	23	40	SS. 193/108.6 110.1	SAT Gray silty fine sand (A-2.4)
119.4	7	9	17	SS. 194/119.4 120.9	W Brown silty clay w. trace shell fragments (A-7.5)
NOTES - Last 1/2" of borehole taken @ 3 am (water 10.0' - 9.6') - Last 1/2" of borehole @ 4 am				SIGNATURE DATE	
DECK TO DATUM DISTANCE DRILLING FLUID PROPERTIES				RED LINE NOTES	
FINAL CASING DEPTH					



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 7 OF 5

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	CEO Bradley/Plummer	GROUND WATER Depth to WATER Depth to BTM DATE month	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet			ALIGNMENT EAST 3028395	HAMMER TYPE Auto		
BORING NUMBER B.64	STA TOTAL DEPTH 191.9 FT	OFFSET FT NORTH 752509	DEPTH TO ROCK N/A FT	DRILLER M.K. M + J. W. H. +		
ELEVATION -10.3	DRILL MACHINE CME-550x	DRILL METHOD H casing / 37/8" T/case	SURFACE WTR DEPTH 9.8 FT	DATE 5/31/11		
START DATE 5/31/11	COMP DATE 6/2/11			DATE 6/2/11		
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	ORIGIN	SOIL & ROCK DESCRIPTION SOIL or ROCK NAME (w/ color, density, consistency, texture, plasticity, organics, other)
129.9	36 28 54	82	SS-195/129.9	SAT		Gray silty coarse to fine SAND (A-2.4)
139.3	4 6 11	17	SS-196/139.3			Gray silty fine SAND w/ trace shell fragments (A-2.4)
147.7	WH 1 4	5	SS-197/147.7	50		GRAY SILTY CLAY (A-7.5)
156.7	WH 1 3		SS-198/156.7	81		GRAY SILTY CLAY (A-7.5)
NOTES			SIGNATURE			
DECK TO DATUM DISTANCE			NOTES			
DRILLING FLUID PROPERTIES			DATE			
FINAL CASING DEPTH			RED LINE			

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 BITM		
BORING NUMBER B-64	STA 191.9	OFFSET FT	3028395	DATE		
ELEVATION -10.3	FT			HAMMER TYPE Auto		
DRILL MACHINE C-218-SSOX	DRILL EQMT NUMBER	DRILL METHOD 3 7/8 T.P. DOWN BIT	DEPTH TO ROCK N/A	DRILLER L. WHITE / M. MASON		
START DATE 6/31/2011	COMP DATE 6/2/11	SURFACE WTR DEPTH 9.8	FT			

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (w/ color, density/consistency, texture, plasticity, organics, other)
	0.5 ft	0.5 ft	0.5 ft	0	25	50	75	100				
5												
10	WH	1	1						SS. 199/163 170.3			ORGY. SILTY CLAY (A-7-S)
15												
20	25	60	9%						SS. 200/183 180.4			ORGY. SILTY FINE SAND (A-2-S)
25												
30	25	39	39						SS. 201/190.4 191.9			Gray silty fine to coarse SAND (A-2-S)
35												Boring terminated at Elevation -202.2 in Gray silty fine to coarse SAND (A-2-S)

NOTES

SIGNATURE

DATE

NOTES

RED LINE

DECK TO DATUM DISTANCE

FT

DRILLING FLUID PROPERTIES

FINAL CASING DEPTH

FT