



**NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)**

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				Depth to WATER	N/A
BORING NUMBER B-60	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION -31.8 FT	TOTAL DEPTH 169.1 FT	NORTH 753302	EAST 3027465	DATE	
DRILL MACHINE CME-550Y	DRILL EQMT NUMBER	DRILL METHOD H casing / 3 7/8" Tricone	HAMMER TYPE Auto	DRILLER M. K. M. Jason W	
START DATE 6/2/11	COMP DATE 6/15/11	SURFACE WTR DEPTH 31.3 / 33.2 (B) FT	DEPTH TO ROCK N/A		

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				
7.7	14	17	16	133					SS-202/7.7-9.2	SAT	undiff Coarsta plain Deposit	Gray silty fine T. coarse SAND (A-2.4)
17.7	5	6	7	13					SS-203/17.7-19.2	SAT		Gray silty fine T. coarse SAND (A-2.4)
27.7	Wth	3	1	4					SS-204/27.7-29.2	W		Gray fine sandy silty clay (A-7.5)
37.1	16	13	13	26					SS-205/37.1-38.6	SAT		Gray silty fine T. coarse SAND (A-2.4)

NOTES
 1) Advanced H casing T.
 2) Advanced 3 7/8" Tricone T. feet
 3) Ocean water used as drilling fluid
 4) Approx drilling fluid density
 5) Some loss of drilling fluid observed

DECK TO DATUM DISTANCE FT

DRILLING FLUID PROPERTIES

FINAL CASING DEPTH FT

SIGNATURE _____ DATE _____

NOTES
 1) B-60B was daylighted T. 46.2 feet
 SPT was then resumed

RED LINE



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115.7 34.0 42.2
354 6.2
e.8
SHEET 2 OF 5

PROJECT NUMBER 32635.1.3	ID B-2500	CO 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				HAMMER TYPE Auto		
BORING NUMBER B.60	STA	OFFSET FT	ALIGNMENT EAST	DRILLER M.K.M. Jason L		
ELEVATION -31.8 FT	TOTAL DEPTH 169.1 FT	NORTH 753302	EAST 3027465	DRILL MACHINE CMC 550X		
DRILL START DATE 6/2/11	DRILL EQMT NUMBER 61751	DRILL METHOD H casing / 37/8" TISON	SURFACE WTR DEPTH 31.3 / 33.2 (B) FT	DEPTH TO ROCK N/A FT		

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	0	25	50	75	100				
5 46.2												
6	14	30							55.232/46.2-47.7	SAT		Grey silty coarse to fine SAND (A.2.4)
10												
15	18	19	47						55.233/54.0-55.5	SAT		Grey silty coarse to fine SAND (A.2.4)
20												
25												
30	9	13	20						55.234/65.7-66.7	SAT		Gray silty coarse to fine SAND w/ TRACE SMALL FLECKMENTS (A.2.4)
35												
40												
45	4	11	24						55.235/74.7-76.2	SAT		Gray silty coarse to fine SAND (A.2.4)
50												

NOTES

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

SIGNATURE _____

DATE _____

NOTES _____

RED LINE



**NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)**

125.1

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				Depth to WATER
BORING NUMBER B-60	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM DATE
ELEVATION -31.8 FT	TOTAL DEPTH 169.1 FT	NORTH 753302	EAST 3027465	DRILL MACHINE M2-550X
DRILL MACHINE M2-550X	DRILL EQMT NUMBER	DRILL METHOD "H" CASING / 3/8" TRICONE BIT	HAMMER TYPE Auto	DRILLER M. MOSELEY / J. WHEAT
START DATE 6/2/11	COMP DATE 6/15/2011	SURFACE WTR DEPTH 31.3 / 33.2 FT	DEPTH TO ROCK FT	

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				
83.7											
5	6	11	13					SS 236/83.7-86.2	SAT		GRAY SILTY COARSE TO FINE SANDY TRACE SMALL FRAGMENTS (A-2.4)
10											
35 92.2	9	24	32					SS 237/92.2-93.7	SAT		GRAY SILTY COARSE T. FINE SAND (A-2.4)
15											
20											
25 103.0	19	33	50					SS 238/103.0-104.5	SAT		GRAY SILTY COARSE T. FINE SAND (A-2.4)
30											
35 114.0	27	40	49					SS 239/114.0-115.5	SAT		GRAY FINE T. COARSE SAND W/ TRAIL OF SILT (A-3) 112.0 116.0

NOTES

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

SIGNATURE _____ DATE _____

NOTES _____

RED LINE



**NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)**

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				Depth to WATER	
BORING NUMBER 13-80	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION -31.8 FT	TOTAL DEPTH 169.1 FT	NORTH 753302	EAST 3027465	DATE	
DRILL MACHINE CME-550x	DRILL EQMT NUMBER	DRILL METHOD H Casings / 3 7/8" Tricone	SURFACE	HAMMER TYPE Auto	
START DATE 6/2/11	COMP DATE 6/15/2011	WTR DEPTH 31.3 / 33.2 (B) FT	DEPTH TO ROCK N/A FT	DRILLER M.K. M. J. White	

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT				SAMPLE NO. & INTERVAL	MQI	ORIGIN	SOIL & ROCK DESCRIPTION (w/ color, density/consistency, texture, plasticity, organics, other)
	0.5 R	0.5 R	0.5 R	0	25	50	75				
123.8											
5	3	4	5	9				SS. 240 / 123.8 - 125.3	W		Grey silty clay (A-7-6)
132.4											
15	5	6		11				SS. 241 / 132.4 - 133.9			
20											
142.8											
25	1	4	4	8				SS. 212 / 142.8 - 144.3	M		GRAY SILTY CLAY (A-7-6)
30											
153.6											152.0
35	20	40	69.4	79.4				SS. 23 / 153.6 - 155.1	SM		GRAY SILTY SAND w/ TRACE SMALL FRAGMENTS (A-2-8)

NOTES

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

SIGNATURE _____ DATE _____

NOTES 152.3

RED LINE

B-55



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

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				Depth to WATER	
BORING NUMBER B-60	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTTM	
ELEVATION -31.8	TOTAL DEPTH 169.1	NORTH 753302	EAST 3027465	DATE	
DRILL MACHINE CME-550X	DRILL EQMT NUMBER	DRILL METHOD K.H. CASING 3" TRicone BIT	HAMMER TYPE Auto	DRILLER J. W. DE... / M. MOSELY	
START DATE 6/2/04	COMP DATE 6/15/04	SURFACE WTR DEPTH 31.3 / 32.8	DEPTH TO ROCK N/A		

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				
169.0	23	41	45						S-2A/169.0-169.5	547		GRAY SATY FINE TO COARSE SAND (A-2.5)
10												BORING TERMINATED @ ELEVATION -200.7 FEET IN UNDER COASTAL PLAIN DEPOSIT.

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