



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

PROJECT NUMBER 32635.1.3	ID B-2500	CD 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 N/A
BORING NUMBER B-58	STA	OFFSET FT	ALIGNMENT EAST 3026983	Depth to BTM DATE
ELEVATION -19.1 FT	TOTAL DEPTH 184.5 FT	NORTH 753800	SURFACE H-Casing 1 3/8 Tricone	HAMMER TYPE Auto
DRILL MACHINE CME-550X	DRILL EQMT NUMBER	DRILL METHOD H-Casing 1 3/8 Tricone	DEPTH TO ROCK N/A FT	DRILLER Mike M. Jovan W
START DATE 6/6/11	COMP DATE 6/8/11	SURFACE WTR DEPTH 17.2 FT	DEPTH TO ROCK N/A 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				
2.0	2	2	3								Undist
5											Coar-TA Gray fine T. coarse SAND plain w/ Trace shell fragments + Dep Trace of silt (A3)
7.0	5	8	10								Ref ss. 224 SAT Gray fine T. coarse SAND w/ Trace shell fragments + Trace of silt (A3)
10											
15											
17.5											
20	12	9	8								ss. 225/17.5-19.0 SAT Gray fine T. coarse SAND w/ Trace shell fragments + Trace of silt (A3)
25											
26.9											
30	7	12	8								ss. 226/26.9-28.4 SAT Gray silty coarse T. f SAND (A-2.4)
35											
36.9											
	6	8	12								ss. 227/36.9-38.4 SAT Gray silty coarse T. f SAND (A-2.4)

NOTES  
 1) Advanced H-casing T...  
 2) Advanced 3/8" Tricone T... 184.5 feet  
 3) Open H<sub>2</sub>O used as drilling fluid  
 4) Approx drilling fluid density

DECK TO DATUM DISTANCE  
 DRILLING FLUID PROPERTIES  
 NAL 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 B-58	STA	OFFSET FT	ALIGNMENT EAST	DEPTH TO BTM	
ELEVATION -19.1 FT	TOTAL DEPTH 184.5 FT	NORTH 753800	EAST 3026983	DATE	
DRILL MACHINE CMC-550X	DRILL EQMT NUMBER	DRILL METHOD H Cores / 3 7/8" T.C.M.	HAMMER TYPE Auto		
START DATE 6/6/11	COMP DATE 6/8/11	SURFACE WTR DEPTH 17.2 FT	DEPTH TO ROCK NA FT	DRILLER J. White / m. m. siley	

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION <small>(w/ color, density/consistency, texture, plasticity, organics, other)</small>
	0.5 ft	0.5 ft	0.5 ft	0	25	50	75	100				
47.1	5	9	6		15				SS. 228/47.1-48.6	SAT		Grey silty fine T. coarse SAND (A-2.4)
55.7	10	12	20		32				SS. 229/55.7-57.2	SAT		GRAY FINE SANDY SILT w/ TRACED SAND FRAGMENTS (A-4)
65.3	20	25	20		55				SS. 230/65.3-66.8	SAT		GRAY SILTY FINE SAND (A-2.5)
75.9	25	31	31		61				SS. 231/75.9-77.4	SAT		Grey silty coarse T. fine SAND (A-2.4)

NOTES

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DECK TO DATUM DISTANCE \_\_\_\_\_ FT

DRILLING FLUID PROPERTIES \_\_\_\_\_

FINAL CASING DEPTH \_\_\_\_\_ FT

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

NOTES

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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					
BORING NUMBER B-58	STA	OFFSET FT	ALIGNMENT EAST		
ELEVATION -19.1 FT	TOTAL DEPTH 1845 FT	NORTH 753800	EAST 3026983		
DRILL MACHINE CME 550X	DRILL EQMT NUMBER	DRILL METHOD H casing / 3 1/8" T. case	HAMMER TYPE Auto		
START DATE 6/8/11	COMP DATE 6/8/11	SURFACE WTR DEPTH 17.2 FT	DEPTH TO ROCK N/A FT	DRILLER J. White / M. Mosley	

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				
8.54												
10	33	45	34						55-232/85.4-86.9	SAT		Gray silty fine to coarse SAND (A-2.4)
15												
20	20	19	24						55-233/95.4-96.9	SAT		Gray silty fine to coarse SAND (A-2.4)
25												
25.8	16	27	40						55-224/105.8-107.3	SAT		Gray silty fine to coarse SAND (A-2.4)
30												
35												
35.4	22	40	60/0.4						55-225/114.8-116.3	SAT		Gray FINE SAND (A-3)
110.0												

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



NCDOT GEOTECHNICAL ENGINEERING UNIT  
FIELD BORELOG (ENGLISH)

137.6

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-58	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION -19.1	TOTAL DEPTH FT	NORTH 753800	EAST 3926983	DATE	
DRILL MACHINE CMT-5504	DRILL EQMT NUMBER 184.5	DRILL METHOD H Co. 3 1 3/8" Tr. Co.	SURFACE WTR DEPTH 17.2	HAMMER TYPE Auto	
START DATE 6/16/2011	COMP DATE 6/8/11	DEPTH TO ROCK N/A	DRILLER J. WAZTE / M. MORALES		

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				
5 126.3												
11	20	40	54/6.5						SS. 226/126.3 127.8	SAT		GRAY FINE SANDW/ TRACER SMALL FRAGMENTS (A-3)
15												
17.6	2	3	10						SS 227/137.6 139.1	M		GRAY SILTY CLAY w/ TRACER SMALL FRAGMENTS (A-7-5)
20												
25												
147.0	4	4	6						SS. 228/147.0 148.5	W		Grey silty clay (A-7.5)
30												
154.7	3	3	6						SS. 229/154.7 156.2	M		Grey silty clay (A-7.5)
35												

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

154.7



**NCDOT GEOTECHNICAL ENGINEERING UNIT  
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PROJECT NUMBER 32635.1.3	ID B-2500	CD 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 BTM DATE		
BORING NUMBER B.58	STA	OFFSET FT	ALIGNMENT EAST	HAMMER TYPE Auto		
ELEVATION -19.1 FT	TOTAL DEPTH 184.5 FT	NORTH 753800	EAST 3026983	DRILLER J. White M. Mosley		
DRILL MACHINE CME-550x	DRILL EQMT NUMBER	DRILL METHOD 1/4 casing / 3 7/8" T. cone	SURFACE WTR DEPTH 17.2 FT	DEPTH TO ROCK N/A	FT	
START DATE 6/16/11	COMP DATE 6/18/11					

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				
164.7	2	4	8						SS-230/164.7-166.2	M		Gray silty clay (A-7.5)
176.8	46	54	104						SS-231/176.8-177.7	SAT		Gray silty coarse T. FINE SAND (A-2.4)
												175.0
												184.5
												Boring Terminated at Elevation -203.6' w/ Pressuremeter Testing

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