



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 N/A
BORING NUMBER B-55	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTTM DATE
ELEVATION -17.1 FT	TOTAL DEPTH 146.3 FT	NORTH 755266	EAST 3025516	mm/dd
DRILL MACHINE CML-550x	DRILL EQMT NUMBER	DRILL METHOD H casing / 3 7/8" Tricone	HAMMER TYPE Auto	
START DATE 5/24/11	COMP DATE 5/25/11	SURFACE WTR DEPTH 16.7 FT	DEPTH TO ROCK N/A	DRILLER J. White / M. K. M

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				
2.1											UNDEVELOPED COASTAL PLAIN GRAVELLY SAND WITH SOME SHELL FRAGMENTS (A-2-9)
5	3	5	8								GRAY SELTY FINE SAND (A-2-9)
7.1											GRAY SELTY CLAY (A-7-5)
10											GRAY SELTY FINE SAND (A-2-9)
15											GRAY SELTY FINE SAND (A-2-9)
17.1											GRAY SELTY CLAY (A-7-5)
20											GRAY SELTY FINE SAND (A-2-9)
25											GRAY SELTY FINE SAND (A-2-9)
27.4	4	6	8								GRAY SELTY FINE SAND (A-2-9)
30											GRAY SELTY FINE SAND (A-2-9)
33	9	11	11								GRAY SELTY FINE SAND (A-2-9)
36.6											GRAY SELTY FINE SAND (A-2-9)

NOTES  
 1) Advanced H casing to 200 feet (509 feet)  
 2) Advanced 3 7/8" Tricone to 146.3 feet  
 3) 0.5 gal H<sub>2</sub>O used - 0.5 gal drilling fluid  
 4) Approx drilling fluid density

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

DRILLING FLUID PROPERTIES  
 5) loss of drilling fluid observed

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 B-55	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION -17.1 FT	TOTAL DEPTH 186.3 FT	NORTH 755266	EAST 3025516	DATE	
DRILL MACHINE CME-SS0X	DRILL EQMT NUMBER	DRILL METHOD M CASING / 3" TRIPLORE BIT	HAMMER TYPE Auto	DATE	
START DATE 5/24/2011	COMP DATE 5/26/2011	SURFACE WTR DEPTH 16.7 FT	DEPTH TO ROCK FT	DRILLER 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	0	25	50	75				
41.6	9	17	23								GRAY FINE SANDY SILT (A-4)
56.6	5	4	5								GRAY FINE SANDY SILT (A-4)
56.6	9	9	10								GRAY SILTY FINE SAND w/ some SHAL FRAGMENTS (A-2-4)
56.6	5	6	6								GRAY SILTY FINE SAND w/ some SHAL FRAGMENTS (A-2-4)
61.6	7	7	20								GRAY SILTY FINE SAND (A-2-4)
66.3	12	17	14								REF SS 167 SAT GRAY SILTY FINE SAND (A-2-4)
71.3	6	8	6								SS 168/71.3-72.8 SAT GRAY SILTY FINE SAND (A-2-4)
76.0	1	2	1								SS 169/76.0-77.5 W GRAY SILTY CLAY (A-7-5)

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 82635.1.3	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-55	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION -17.1 FT	TOTAL DEPTH 186.3 FT	NORTH 755266	EAST 3025516	DATE	
DRILL MACHINE CMR-550X	DRILL EQMT NUMBER	DRILL METHOD H CASING 3 7/8" TELECON BIT	HAMMER TYPE Auto		
START DATE 8/29/2011	COMP DATE 5/26/2011	SURFACE WTR DEPTH 16.7 FT	DEPTH TO ROCK N/A FT	DRILLER M. MOSELY	

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				
81.0	WH	2	2						SS.170/81.0 82.5	W		GRAY SILTY FINE SAND (A-2-4) 44.0
88.2	6	2	7						SS.171/85.2 86.8	SAT		GRAY SILTY FINE SAND (A-2-4)
99.2	11	15	22						SS.171	SAT		GRAY SILTY FINE SAND (A-2-4)
95.2	20	25	30						SS.172/85.2 96.8	SAT		GRAY SILTY FINE SAND (A-2-4)
20									Ref SS.172	SAT		Gray silty fine SAND (A-2-4)
101.7	16	24	27						SS.173/106.7	SAT		Gray silty fine SAND (A-2-4)
25									Ref SS.173	SAT		Gray silty fine SAND (A-2-4)
106.7	25	35	46						SS.174/116.7 118.2	SAT		Gray silty fine T. coarse SAND (A-2-4)
30												
111.7	6	16	24									
35												
116.7	13	17	23									

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 B-55	STA	OFFSET FT	ALIGNMENT EAST	DEPTH TO BTM	DATE
ELEVATION -17.1 FT	TOTAL DEPTH 186.3 FT	NORTH 755266	EAST 3025516	HAMMER TYPE Auto	
DRILL MACHINE CME-550x	DRILL EQMT NUMBER	DRILL METHOD H casing 1 3/8" TISCANE	SURFACE WTR DEPTH 16.7 FT	DEPTH TO ROCK N/A FT	DRILLER J. White, M. Insley
START DATE 5/24/11	COMP DATE 5/25/11				

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				
121.8	8	8	9	17				Ref SS-174	SAT		Gray silty fine to coarse SAND (A2.4)
126.7	13	27	17	44				SS-175/126.7-128.2	SAT		Gray silty fine to coarse SAND (A2.4)
131.7	1	2	4	6				SS-176/131.7-132.2	M		Gray silty clay (A7.5) 130°
135.7	1	2	4	6				Ref SS-176	M		Gray silty clay (A7.5)
140.7	2	3	4	7				SS-177/140.7-142.2	M		Gray silty clay (A7.5)
145.5	1	3	4	7				Ref SS-177	M		Gray silty clay (A7.5)
150.5	1	3	4	7				SS-178/150.5-152.0	W		Gray silty clay (A7.5)
155.5	1	2	4	6				Ref SS-178	W		Gray silty clay (A7.5)

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

170.5  
169.7



**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-55	STA 186.3	OFFSET FT 7552.66	ALIGNMENT EAST 3025516	Depth to BTM	
ELEVATION -17.1 FT	TOTAL DEPTH FT 186.3	NORTH		DATE	
DRILL MACHINE CME-530x	DRILL EQMT NUMBER	DRILL METHOD H casing / 3 7/8" TICON	HAMMER TYPE Auto	DRILLER S. White, Mike M	
START DATE 5/24/11	COMP DATE 5/26/11	SURFACE WTR DEPTH FT	DEPTH TO ROCK FT N/A		

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				
160.5	1	1	4	5							SS-179/160.5-162.0	W Gray silty clay (A-7.5)
163.5	1	2	3	5							REF SS-179	W Gray silty clay (A-7.5)
169.7	15	23	23								SS-180/169.7-171.2	SAT GRAY SILTY FINE SAND (A-2-9)
174.7	20	19	20								REF SS-180	SAT GRAY SILTY FINE SAND (A-2-9)
177.7	25	27	22								SS-181/177.7-181.2	SAT GRAY SILTY FINE SAND w/ TRACE SHELL FRAGMENTS (A-2-9)
181.8	36	52	46/0.3								REF SS-181	SAT BORING TERMINATED @ ELEVATION FEET IN UNDER COASTAL PLAIN DEPOSIT. GRAY SILTY FINE TO COARSE SAND w/ TRACE SHELL FRAGMENTS (A-2-9)

NOTES

---

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

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

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

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

NOTES

RED LINE