



STATE OF NEW YORK  
OFFICE OF GENERAL SERVICES  
DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242



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**ADDENDUM NO. 1 TO PROJECT NO. Q1632**

**CONSTRUCTION WORK  
REPAIR FIRING RANGE  
CAMP SMITH TRAINING SITE  
11 BEAR MOUNTAIN BRIDGE ROAD  
CORTLANDT MANOR, NY**

January 23, 2015

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**SPECIFICATIONS**

1. Section 003132 – Geotechnical Data

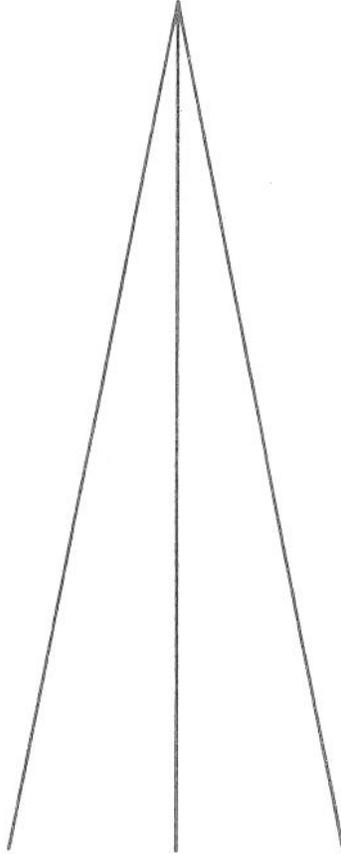
Replace all attached geotechnical data included after page 003132-1 in the Project Manual with the boring logs (FR-B1 through FR-B4) and test pit logs (TP-1 through TP-8) attached to this addendum. The boring and test pit locations are included on the Drawings.

**END OF ADDENDUM**

Margaret F. Larkin  
Executive Director  
Design and Construction

# SOILTESTING, INC.

TO ..... Woodard & Curran, Inc. .... DATE ..... July 24, 2014 .....  
ADDRESS ..... 709 Westchester Ave, Suite L2, White Plains, NY 10604 .....  
SITE LOCATION ..... Camp Smith, 100 Bear Mountain Road, Cortlandt, New York .....  
REPORT SENT TO ..... Steve Robbins .....  
SAMPLES SENT TO ..... Storage (Max. 60 days) .....



90 Donovan Road  
Oxford, Connecticut 06478-1028  
203-262-9328

Branch Office:  
White Plains, New York 10607  
914-946-4850

JOB NO.  
**G132-9766-14**

Phone  
(203) 262-9328

Telefax  
(203) 264-3414

WHITE PLAINS, N.Y.  
(914) 946-4850

# SOILTESTING, INC.

90 DONOVAN ROAD - OXFORD, CONN. 06478-1028

GEOTECHNICAL / ENVIRONMENTAL SUBSURFACE INVESTIGATIONS - Test Borings - Core Drilling  
Monitoring Wells - Recovery Wells - Direct Push/Probe Sampling  
UNDERPINNING - HELICAL PILES - SOIL NAILS

July 24, 2014

Woodard & Curran, Inc.  
709 Westchester Ave, Suite L2  
White Plains, NY 10604  
914-448-2266

Attn: Steve Robbins

Re: Camp Smith  
100 Bear Mountain Road  
Cortlandt, New York

G132-9766-14

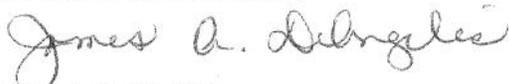
Dear Mr. Robbins,

Enclosed are boring logs and location plan for the above referenced project site.

If you have any questions, please do not hesitate to contact us.

Very truly yours,

**SOILTESTING, INC.**



James A. DeAngelis  
President

JAD:lg



<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>FR-B1</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS as directed
FOREMAN - DRILLER <b>BD/pd</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	CASING TYPE <b>HSA</b> SAMPLER <b>SS</b> CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>10</u> FT AFTER <u>0</u> HOURS	SIZE I.D. <b>3 3/4"</b> <b>1 3/8"</b>	DATE START <b>7/7/14</b>
AT <u>  </u> FT AFTER <u>  </u> HOURS	HAMMER WT. <b>140#</b> BIT	DATE FINISH <b>7/7/14</b>
	HAMMER FALL <b>30"</b>	SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)		CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT	0 - 6	6 - 12				
5	1	ss	24"	10"	2'0"	3	4		moist		6" TOPSOIL brn SILT	
						4	4		loose			
	2	ss	24"	20"	4'0"	3	4		moist		brn SILTY SAND	
						4	2		stiff			
	3	ss	24"	20"	6'0"	3	2		moist		brn SILTY CLAY & F SAND	
10						4	4		stiff			
	4	ss	24"	20"	8'0"	3	4		moist		brn SILTY SAND & gry CLAY	
						4	5		stiff			
	5	ss	24"	20"	10'0"	3	4		wet		gry SILTY CLAY	
						4	5		stiff			
15	6	ss	24"	18"	12'0"	2	4		wet			
						4	4		stiff			
	7	ss	24"	20"	14'0"	3	4		wet			
						4	4		stiff			
	8	ss	24"	20"	16'0"	3	3		wet			
20						3	4		stiff		SAME	
	9	ss	24"	24"	18'0"	3	4		wet			
						4	4		stiff			
	10	ss	24"	18"	20'0"	3	4		wet			
						4	5		stiff			
25	11	ss	24"	17"	22'0"	3	5		wet			
						5	4		stiff			
	12	ss	24"	20"	24'0"	3	3		wet			
						3	4		stiff			
	13	ss	24"	24"	26'0"	3	3		wet			
30						5	7		loose	26'0"	gry SILTY CLAY & brn SILT, F sand	
	14	ss	24"	12"	28'0"	7	8		wet		brn F SAND, sm silt	
						9	17		compact			
	15	ss	24"	20"	30'0"	12	14		wet			
						17	14		dense	30'0"		
35											E.O.B. 30'0"	
40												

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. HOLE NO. **FR-B1**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE



<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>FR-B3</b>
FOREMAN - DRILLER <b>BD/ad</b>	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS as directed
INSPECTOR	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>none</u> FT AFTER <u>0</u> HOURS AT <u>   </u> FT AFTER <u>   </u> HOURS	CASING    SAMPLER    CORE BAR TYPE        HSA        SS SIZE I.D. <u>3 3/4"</u> <u>1 3/8"</u> HAMMER WT. <u>140#</u> <u>BIT</u> HAMMER FALL <u>30"</u>	DATE START <u>7/3/14</u> DATE FINISH <u>7/3/14</u> SURFACE ELEV. GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE				BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)		CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.	DEPTH @ BOT	0 - 6				
5	1	ss	24"	15"	2'0"	5	10		moist		brn SILT & C GRAVEL
						15	19		v stiff		brn SILT
10	2	ss	8"	4"	4'0"	20	50/2"		hard		brn SILT & C GRAVEL
	3	ss	24"	18"	6'0"	10	19		moist		SAME
15	4	ss	4"	3"	8'0"	50/4"			hard		brn SILT & MC GRAVEL
	5	ss	10"	7"	10'0"	48	50/4"		moist		brn SILT & C GRAVEL
20	6	ss	24"	10"	12'0"	10	30		hard	18'0"	brn SILT
	7	ss	8"	3"	14'0"	45	50/2"		hard		brn SILT & C GRAVEL
25	8	ss	24"	10"	16'0"	40	30		moist	20'6"	brn SILT
	9	ss	22"	10"	18'0"	25	30		hard		poss BEDROCK or BOULDERS
30	10	ss	2"	0"	20'0"	100/2"			v dense		
	11	ss	2"	0"	20'4"	100/2"			moist		
35									v dense		
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. FR-B3**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>FR-B3A</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS as directed
FOREMAN - DRILLER <b>BD/ad</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	CASING SAMPLER CORE BAR	OFFSET
GROUND WATER OBSERVATIONS AT <u>none</u> FT AFTER <u>0</u> HOURS AT <u>   </u> FT AFTER <u>   </u> HOURS	TYPE <b>HSA SS</b>	DATE START <b>7/3/14</b>
	SIZE I.D. <b>3 3/4" 1 3/8"</b>	DATE FINISH <b>7/3/14</b>
	HAMMER WT. <b>140# BIT</b>	SURFACE ELEV.
	HAMMER FALL <b>30"</b>	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE				DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE)		CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC		0 - 6	6 - 12				
5												
10												
15												
20										18'6"		
21										21'0"	poss BEDROCK or BOULDER AUGER REFUSAL	
25												E.O.B. 21'0"
30												
35												
40												

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. FR-B3A**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>FR-B4</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS as directed
FOREMAN - DRILLER <b>BD/pd</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	CASING SAMPLER CORE BAR TYPE <b>HSA SS</b>	OFFSET DATE START <b>7/7/14</b>
GROUND WATER OBSERVATIONS AT <u>17</u> FT AFTER <u>0</u> HOURS	SIZE I.D. <b>3 3/4" 1 3/8"</b>	DATE FINISH <b>7/7/14</b>
AT <u>   </u> FT AFTER <u>   </u> HOURS	HAMMER WT. <b>140# BIT</b>	SURFACE ELEV.
	HAMMER FALL <b>30"</b>	GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE				DEPTH @ BOT	BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18			CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC.		0 - 6	6 - 12	12 - 18				
5	1	ss	24"	10"	2'0"	3	3			moist	4'0"	1'6" TOPSOIL brn SILT, sm F sand	
						4	5			stiff		brn SILT & F SAND, sm gravel	
	2	ss	24"	15"	4'0"	10	24			moist	brn F SAND, sm silt, C gravel, lit boulders	brn F SAND, lit silt, FMC gravel	
						25	26			hard			
	3	ss	24"	15"	6'0"	18	20			moist			
					21	26			dense				
4	ss	24"	10"	8'0"	54	20			moist				
10					12	14			dense	brn F-C SAND & F-C GRAVEL	brn F-C SAND, lit silt, boulder		
	5	ss	24"	15"	10'0"	18	20		moist				
						20	18		dense				
	6	ss	24"	15"	12'0"	11	9		moist				
15					18	30			compact	brn F-C SAND, lit silt, gravel, tr decomposed bedrock			
	7	ss	24"	12"	14'0"	61	34		moist				
						36	25		v dense				
	8	ss	24"	14"	16'0"	37	50		moist				
						31	15		v dense				
20	9	ss	24"	10"	18'0"	12	8		moist	18'6"	highly decomposed BEDROCK		
						6	6		compact	19'6"	AUGER REFUSAL		
	10	ss	16"	10"	19'4"	4	4		moist				
					100'4"				v dense				
												<b>E.O.B. 19'6"</b>	
25													
30													
35													
40													

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. FR-B4**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-1</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>none</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS		DATE START <b>7/3/14</b>
		DATE FINISH <b>7/3/14</b>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST  MOIST	STRATA CHANGE DEPTH  ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5								v mst-wet moist	8'0"	drk brn SILT & PROCESS BRICK, CONCRETE FRAGS lt brn lt gry brn SILT & CLAY, lit F sand	
10										EOP 8'0"	
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. TP-1**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-2</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>none</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS		DATE START <b>7/3/14</b>
		DATE FINISH <b>7/3/14</b>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST  MOIST	STRATA CHANGE DEPTH  ELEV	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5								dry-moist		TOPSOIL drk brn SILT, sm F sand drk brn brn SILT, sm FM sand, lit F gravel	
								moist			
								moist	4'6"	brn SILT, sm FM sand, it V-C gravel lt gry brn SILT, sm FM sand, clay	
10									10'0"		
15										EOP 10'0"	
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. TP-2</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-3</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>none</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS		DATE START <span style="float: right;">7/3/14</span>
		DATE FINISH <span style="float: right;">7/3/14</span>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5								dry	2'0"	6" TOPSOIL brn SILT & FM SAND, sm F-C gravel, cobbles	
								dry		lt gry gry brn VF FMC SAND & SILT, F gravel, cobbles, boulder	
								dry-moist	8'0"		
10										EOP 8'0"	
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. TP-3</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-4</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>none</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS		DATE START <b>7/3/14</b>
		DATE FINISH <b>7/3/14</b>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5								dry-moist	2'0"	6" TOPSOIL brn lt brn SILT, sm F SAND, tr C gravel	
								moist		brn SILT & VF FM SAND, sm F-C gravel	
								moist		brn SILT & FMC SAND, sm F-C gravel, lit cobbles	
10									8'0"	EOP 8'0"	
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO _____ FT. USED _____ CASING THEN _____ CASING TO _____ FT.	<b>HOLE NO. TP-4</b>
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST	
WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS	C = COARSE
SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER	M = MEDIUM
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%	F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-5</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>7</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS		DATE START <b>7/3/14</b>
		DATE FINISH <b>7/3/14</b>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5								dry-moist	1'0"	drk gry blk SILT, sm process brick cement lt gry lt brn brn SILT, sm FMC sand, lit F-C gravel	
10								wet	8'0"	EOP 8'0"	
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. TP-5**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-6</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>7</u> '6" FT AFTER <u>0</u> HOURS AT <u>  </u> ' FT AFTER <u>  </u> HOURS		DATE START <b>7/3/14</b>
		DATE FINISH <b>7/3/14</b>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5								I moist	1'0"	blk drk gry SILT, sm process brick cement lt brn lt gry SILT & CLAY, lit VF F sand	
								wet		lt brn SILT, sm VF F sand	
10								wet	8'0"	brn drk bry brn VF F SAND	
										EOP 8'0"	
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. TP-6**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-7</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>5</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS		DATE START <b>7/3/14</b>
		DATE FINISH <b>7/3/14</b>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
5								dry-moist	2'0"	1'0" TOPSOIL brn SILT, lit F gravel, FM sand	
								moist		brn SILT, sm F-M sand (conduit and wires at 2'6")	
								wet	5'6"	brn SILT, sm FM sand	
									6'0"	brn FMC SAND, lit silt	
									8'0"	gry brn VF F SAND, sm silt	
10										EOP 8'0"	
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO _____ FT.	USED _____ CASING	THEN _____ CASING TO _____ FT.	<b>HOLE NO. TP-7</b>
A = AUGER	UP = UNDISTURBED PISTON	T = THINWALL	V = VANE TEST
WOR = WEIGHT OF RODS	WOH = WEIGHT OF HAMMER & RODS		
SS = SPLIT TUBE SAMPLER	H.S.A. = HOLLOW STEM AUGER		
PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50%			C = COARSE M = MEDIUM F = FINE

<b>SOILTESTING, INC.</b> 90 DONOVAN RD. OXFORD, CT 06478 CT (203) 262-9328 NY (914) 946-4850	CLIENT: <b>Woodard &amp; Curran Inc.</b>	SHEET <u>1</u> OF <u>1</u>
	PROJECT NO. <b>G132-9766-14</b>	HOLE NO. <b>TP-8</b>
	PROJECT NAME <b>Camp Smith</b>	BORING LOCATIONS per Plan
FOREMAN <b>PD</b>	LOCATION <b>100 Bear Mountain Road Cortlandt Manor, New York</b>	
INSPECTOR	<b>TEST PIT</b>  <b>BY: Backhoe</b>	OFFSET
GROUND WATER OBSERVATIONS AT <u>none</u> FT AFTER <u>0</u> HOURS AT <u>  </u> FT AFTER <u>  </u> HOURS		DATE START <b>7/3/14</b>
		DATE FINISH <b>7/3/14</b>
		SURFACE ELEV.
		GROUND WATER ELEV.

DEPTH	CASING BLOWS PER FOOT	SAMPLE					BLOWS PER 6 IN ON SAMPLER (FORCE ON TUBE) 0 - 6 6 - 12 12 - 18	CORE TIME PER FT (MIN)	DENSITY OR CONSIST	STRATA CHANGE DEPTH	FIELD IDENTIFICATION OF SOIL REMARKS INCL. COLOR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
		NO	Type	PEN	REC	DEPTH @ BOT					
								moist	0'6"	TOPSOIL, PROCESS BRICK CEMENT brn SILT, sm VF SAND	
5								moist		lt brn lt gry SILT, sm VF F sand	
								moist	8'6"	lt brn SILT, sm VF F sand	
10										EOP 8'6"	
15											
20											
25											
30											
35											
40											

**NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent conditions at other locations or times.**

GROUND SURFACE TO \_\_\_\_\_ FT. USED \_\_\_\_\_ CASING THEN \_\_\_\_\_ CASING TO \_\_\_\_\_ FT. **HOLE NO. TP-8**

A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST  
 WOR = WEIGHT OF RODS WOH = WEIGHT OF HAMMER & RODS C = COARSE  
 SS = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM  
 PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE