Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60563
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 2
DATE 9/13/2011
LOGGED BY RJ
GSI JOB No. 10193

ROUTE FAI 94 DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 4-1-B-1 LOCATION Newport Township, Sections 17, T 46 N, R 11 E, 3rd PM
COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0535
Station n/a
BORING NO. SB-08
Station 2030+23 ll Route 173
Offset 26.4' Left
Ground Surface Elev. 760.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to -5.0'
Upon Completion n/a
After ___ Hrs.

Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
759.4 10.0" ASPHALT, 2.0" CLAYEY SAND & STONE				
CLAY-brown & gray- very stiff (A-6)		5 5 5	3.25P	15
Bott. W. Abut. Elev. 754.60		3 4 2	2.25P	15
754.9 CLAY-brown & gray- medium stiff to stiff (A-6)		2 2 2	0.6B	97 23
	-10	1 2 3	1.5S@ 12.7%	105 22
749.9 CLAY-brown & gray- stiff to hard (A-6)		5 6 11	5.3B	114 16
		4 7 10	2.3B	108 18
	-15	3 2 2	1.25B	109 18
		3 5	4.0B	112 17
	-20			
CLAY-brown & gray- stiff to hard (A-6)		2 3 4	2.0B	111 18
		7 13 19	3.75B	112 17
	-25			
732.4 CLAY-gray-stiff to hard (A-6)		6 11 13	3.5P	17
		6 10 13	3.9B	108 20
	-30			
		7 6 5	1.0B	117 16
	-35			
		3 4	1.6B	115 17
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0535
Station n/a
BORING NO. SB-09
Station 2033+42 ll Route 173
Offset 28.7' Right
Ground Surface Elev. 759.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry To -10.0'
Upon Completion n/a
After ___ Hrs.

Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
758.5 8.0" ASPHALT, 4.0" CLAYEY SAND & STONE				
Bott. E. Abut. Elev. 752.67		6 7 5	2.5P	15
CLAY LOAM-brown & gray- stiff to very stiff (A-6)		4 5 3	2.2B	112 16
		2 3 4	2.75B	105 22
	-10	3 3 3	1.5B	97 22
		5 8 9	8.2B	120 14
	-15	3 5	2.5P	18
741.5 CLAY LOAM-brown & gray- medium stiff (A-6)		2 1 2	0.75P	19
	-20			
CLAY-brown & gray- medium stiff (A-6)		2 3 4	0.75P	24
736.5 CLAY LOAM-brown & gray- stiff to very stiff (A-6)		4 6 9	2.9B	112 17
	-25			
		6 7 9	2.5P	14
731.5 CLAY-gray-very stiff to hard (A-6)		6 12 18	6.3B	115 17
	-30			
		5 6 11	3.0B	106 22
	-35			
		7 8	2.7B	121 15
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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SOIL BORING LOG

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DATE 10/25/2011
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GSI JOB No. 10193

ROUTE FAI 94 DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 4-1-B-1 LOCATION Newport Township, Sections 17, T 46 N, R 11 E, 3rd PM
COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0535
Station n/a
BORING NO. SB-10
Station 2031+56 ll Route 173
Offset 61.4' Left
Ground Surface Elev. 739.1

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 10'
Upon Completion n/a
After ___ Hrs.

Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
738.3 8.0" ASPHALT				
CRUSHED ASPHALT-medium dense		20 10 6	NP	6
736.1		6		117
Bott. Pier Ftg. Elev. 735.35		8 11	8.0B	14
CLAY to CLAY LOAM-brown & gray- hard (A-6)		6 9 11	6.0B	111 18
		6 7 10	5.15S@ 14.1%	107 21
728.1 CLAY-gray-stiff to very stiff (A-6)		5 5 6	1.8B	119 15
		4 6 7	2.2B	118 16
	-15	3 6 8	1.4B	104 23
		3 5 7	1.9B	116 17
	-20			
CLAY-gray-stiff to very stiff (A-6)		4 5 6	1.5B	119 15
	-25			
		3 5 7	1.9B	116 17
	-30			
		4 7 8	1.2B	118 17
	-35			
		3 6 9	2.1B	16+ 17
	-40			
		4 6 8	1.3B	100 23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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STRUCT. NO. 049-0535
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BORING NO. SB-08
Station 2030+23 ll Route 173
Offset 26.4' Left
Ground Surface Elev. 760.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to -5.0'
Upon Completion n/a
After ___ Hrs.

Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
CLAY-gray-stiff to hard (A-6)		3 4 6	1.3B	111 18
	-45			
		3 4 7	1.4B	114 16
	-50			
		3 5 8	1.9B	116 17
	-55			
		7 10 14	2.4B	109 20
	-60			
CLAY-gray-stiff to hard (A-6)		5 9 12	2.9B	105 21
	-65			
		7 12 21	4.5B	115 16
	-70			
		7 10 13	1.3B	115 17
	-80			
680.4 End Of Boring @ -80.0 Hollow Stem Augers To -5.0' Rotary Drilling To Completion 5.0' Of 4.0"ø Casing Used CME Automatic Hammer				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 049-0535
Station n/a
BORING NO. SB-09
Station 2033+42 ll Route 173
Offset 28.7' Right
Ground Surface Elev. 759.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry To -10.0'
Upon Completion n/a
After ___ Hrs.

Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
CLAY-gray-very stiff to hard (A-6)		6 12 18	7.8B	121 12
	-45			
		3 6 9	2.25B	118 16
	-50			
		10 13 14	2.5B	116 15
	-55			
		4 8 12	2.9B	112 19
	-60			
CLAY-gray-very stiff to hard (A-6)		6 10 12	2.5B	111 19
	-65			
		7 9 15	3.0B	111 18
	-70			
		7 9 12	3.9B	111 18
	-75			
681.5 CLAY-gray-stiff (A-6) Wet End Of Boring @ -80.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer				
		4 6 8	1.6B	95 29
	-80			
679.5				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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STRUCT. NO. 049-0535
Station n/a
BORING NO. SB-10
Station 2031+56 ll Route 173
Offset 61.4' Left
Ground Surface Elev. 739.1

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 10'
Upon Completion n/a
After ___ Hrs.

Elev.	Depth (ft)	Blows /6"	UCS Qu (tsf)	Moist (%)
CLAY-gray-stiff to very stiff (A-6)		4 8 13	2.8B	110 19
	-45			
		5 7 10	1.5B	104 19
	-50			
		3 6 9	1.25P	20
	-55			
		4 6 8	1.4B	111 19
	-60			
CLAY-gray-stiff to very stiff (A-6)		7 10 14	1.9B	104 22
	-65			
		8 10 14	1.9B	106 22
	-70			
		3 6 8	1.7B	108 21
	-75			
		6 8 10	1.7B	105 23
	-80			
659.1 End Of Boring @ -80.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10.0' Of 4.0"ø Casing Used CME Automatic Hammer				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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6/19/2012 11:02:02 AM

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BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED - MRM	DATE - 6/19/2012	
	CHECKED - TL	REVISED -	
PLOT SCALE =	DRAWN - LAM	REVISED -	
PLOT DATE =	CHECKED - MRM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS I
STRUCTURE NO. 049-0535 (BRIDGE NO. 441)
SHEET NO. S-35 OF S-36 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1-R-1	LAKE	677	473
		CONTRACT NO. 60L77		
		ILLINOIS FED. AID PROJECT		