Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 1
DATE 12/29/2011-1/4/2012
LOGGED BY RT
GSI JOB No. 10193

ROUTE FAI 94 DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 4-1-R-1 LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM
COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. --
Station --
BORING NO. **N94-20**
Station 4081+06.5
Offset 57.5' Right
Ground Surface Elev. 732.1

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 716.1
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				8.0" ASPHALT, 6.0" Clayey SAND, GRAVEL & STONE
	5			
	7			SAND & GRAVEL–brown–very loose (A–1)
	7	NP	8	
	4			GRAVEL–brown & gray–very loose (A–1–a)
	6			
–5	7	4.5+P	15	
	4		*112*	CLAY LOAM–brown & gray–very stiff to hard (A–6) Fill
	5			SAND & GRAVEL–brown & gray–very loose (A–1)
	7	2.9B	15	
	3			CLAY–gray–stiff (A–6)
	4			
–10	6	3.0P	16	
	3		*108*	End Of Boring @ –30.0' Hollow Stem Augers to –20.0' Rotary Drilling To Completion 20.0' Of 4.0"ø Casing Used CME Automatic Hammer
	4			
	4	2.3B	18	
	2		*107*	
	4			
–15	5	2.4B	18	
	3		*114*	
	3			
	4	2.4B	17	
	3			SAND & GRAVEL–brown–very loose (A–1)
	3			
–20	3	NP	15	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	1			SAND & GRAVEL–brown–very loose (A–1)
	2			
	1	NP	3	
	2			
	1			
–25	1		NR	
	2			
	2			
	2	NP	14	
	4			
	6			
–30	8	1.0P	14	
	6		*120*	
	7			
	10			
–35				
–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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PAGE 1 of 1
DATE 1/18/2012
LOGGED BY RT
GSI JOB No. 10193

ROUTE FAI 94 DESCRIPTION I-94 Interchange & Bridge Reconstruction, IDOT Job# D-91-019-11
SECTION 4-1-R-1 LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM
COUNTY Lake DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. --
Station --
BORING NO. **S94-06**
Station 14084+79.4
Offset 8.7' Right
Ground Surface Elev. 730.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry
Upon Completion Dry
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				10.0" ASPHALT
	6			
	7			SAND & GRAVEL–brown–medium dense (Fill)
	7	NP	7	
	5		*116*	
	6			CLAY LOAM–dark brown & gray–stiff to very stiff (A–6) Fill
–5	8	3.1B	16	
	3		*101*	
	3	1.0S@		
	5	11.3%	22	
	4		*100*	
	5			
–10	6	3.6B	22	
	6		*121*	
	6			
	7	3.25B	14	
	4		*108*	CLAY–brown & gray–stiff to hard (A–6)
	6			
–15	12	5.2B	19	
	3		*122*	
	3			
	6	1.9B	14	
	14			SILTY CLAY LOAM–gray–medium dense (A–4)
	6			
–20	7	–	12	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SILTY CLAY LOAM–medium dense (A–4)
	12			
	9			CLAYEY GRAVEL–brown & gray–medium dense (A–2)
	10	–	7	
	10			
	9			SILTY CLAY LOAM–gray–medium dense (A–4)
–25	8	–	16	
	4		*117*	
	6			CLAY–gray–very stiff (A–6)
	7	2.1B	15	
	4		*113*	
	4			
–30	12	2.6B	17	
				End Of Boring @ –30.0' Hollow Stem Augers CME Automatic Hammer
–35				
–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 (%)
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SOIL BORING LOG

PAGE 1 of 1
DATE 1/9/2012
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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-R-1 LOCATION Newport Township, Sections 4 & 9, T 46 N, R 11 E, 3rd PM
COUNTY Lake DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. --
Station --
BORING NO. **S94-09**
Station 14076+26.2
Offset 45.5' Left
Ground Surface Elev. 728.3

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry
Upon Completion Dry
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				10.0" ASPHALT
	4			
	10			SAND & GRAVEL–brown–medium dense (Fill)
	6	NP	6	
	4		*108*	
	4			CLAY LOAM–brown & gray–very stiff (A–6) Fill
–5	6	2.1B	20	
	4		*103*	
	6			CLAY–brown–very stiff (A–6)
	8	3.9B	24	
	9			SILTY CLAY LOAM–brown & gray–medium dense (A–4)
	9			
–10	10	NP	11	
	3		*121*	
	5			
	6	3.6B	13	
	4		*113*	
	5			CLAY–gray–very stiff to hard (A–6)
–15	7	4.75B	17	
	3		*115*	
	4			
	6	2.3B	16	
	3		*116*	
	3			
–20	4	2.0B	16	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	3		*116*	CLAY–gray–very stiff to hard (A–6)
	4			
	5	2.0B	16	
	4		*117*	
	6			
–25	6	2.2B	16	
	10			
	12			
	7	4.25P	19	
	6		*120*	
	7			
	10			
–30	10	3.4B	14	
				End Of Boring @ –30.0' Hollow Stem Augers CME Automatic Hammer
–35				
–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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NR–No Recovery

BOWMAN, BARRETT & ASSOCIATES INC.
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Chicago, Illinois
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FILE NAME = $FILES$	USER NAME = default	DESIGNED - TF	REVISED -
		DRAWN - TF	REVISED -
	PLOT SCALE = H:1"=10' V:1"=5'	CHECKED - RGR	REVISED -
	PLOT DATE = 6/20/2012	DATE - 6/19/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
SIGN STRUCTURES

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. N/A | TO STA. N/A

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	49-1-R-1	LAKE	677	303
		CONTRACT NO. 60L77		
		ILLINOIS FED. AID PROJECT		

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