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 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. SIGN-01
Station 14076+27.7
Offset 19.6' Right
Ground Surface Elev. 728.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 717.5
Upon Completion Dry
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT	727.6				
SAND & GRAVEL-brown-loose (Fill)	726.5		5 5 4	NP	10
CLAY LOAM-brown & gray-very stiff (A-6) Fill		-5	4 4 5	2.25P	20
	720.5		6 7 8	3.5P	15
CLAY-brown & gray-very stiff (A-6)		-10	3 4 4	3.5B	*99* 23
	717.5		3 4 5	-	11
SANDY CLAY LOAM-gray-loose (A-2)	715.5				
CLAY-gray-stiff to very stiff (A-6)		-15	3 3 6	3.1B	*116* 17
			3 4 5	3.2B	*122* 13
		-20	3 5 5	1.9B	*118* 16
CLAY-gray-stiff to very stiff (A-6)		-25	4 6 9 10	2.0P	17
			5 8 10	3.9B	*119* 15
	698.5	-30	7 7 10	3.6S● 14.1%	*100* 24
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 (%)
NR-No Recovery

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 1/16-17/2012
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. SIGN-02
Station 4080+77.4
Offset 6.7' Left
Ground Surface Elev. 731.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 715.7
Upon Completion 718.7
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT	730.9				
SAND & GRAVEL-brown-loose (Fill)	728.7		4 4 5	NP	7
CLAY LOAM-dark brown & gray-stiff to very stiff (A-6) Fill		-5	3 3 4	1.6B	*109* 19
			3 5 7	2.5S● 12.7%	*119* 14
		-10	3 4 6	2.5B	*108* 18
			11 7 7	3.4B	*115* 15
		-15	3 4 4	3.25P	14
	715.7				
SILTY CLAY LOAM-brown & gray-loose (A-4) Possible Fill	713.7		2 3 4	1.0P	18
CLAY-gray-very stiff (A-6)		-20	4 4 6	2.9B	*97* 22
CLAY-gray-very stiff (A-6)	711.2				
SAND & GRAVEL-gray-loose to medium dense (A-1)		-25	3 4 5 8	NP	14
	703.7		4 5 6	NP	11
CLAY-gray-stiff (A-6) Wet	701.7	-30	3 4 6	1.75P	29
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 (%)
NR-No Recovery

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 1/9/2012
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 HAMMER TYPE CME Automatic

STRUCT. NO. --
Station --
BORING NO. SIGN-03
Station 14084+79.1
Offset 43.4' Right
Ground Surface Elev. 729.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 718.7
Upon Completion Dry
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
10.0" ASPHALT	728.9				
SAND & GRAVEL-brown-medium dense (Fill)	726.7		6 6 4	NP	8
CLAY LOAM-dark brown & gray-very stiff to hard (A-6) Fill		-5	13 8 9	5.7S● 12.7%	*116* 13
			4 5 6	3.0P	*X* 18
	721.7				
CLAY LOAM-brown & gray-very stiff to hard (A-6)		-10	3 3 8	4.8S● 12.7%	*107* 19
			3 5 6	3.5S● 12.7%	*119* 15
		-15	3 3 6	5.2B	*104* 22
	714.2				
Silt seams from -16.0' to -17.5'. CLAY-gray-very stiff (A-6)			3 4 7	3.7B	*113* 18
		-20	4 6 7	3.1B	*119* 15
CLAY-gray-very stiff (A-6)		-25	3 6 8	3.2B	*114* 15
			3 7 8	3.2B	*111* 15
			3 6 8	2.5B	*111* 16
			4 5 6	3.7B	*122* 14
	699.7	-30	5 6 8	3.9B	*108* 20
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 (%)
NR-No Recovery

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

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	304

CONTRACT NO. 60L77
ILLINOIS FED. AID PROJECT

S:\11811085_CADD\60L77 IL 173\60L77 Sheets\D160L77-sht-signstructures_borings.dgn