

PAGE 1 of 1  
DATE 3/12/2010  
LOGGED BY MD  
GSI JOB No. 09177

**SOIL BORING LOG**

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

ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10  
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township  
COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -  
Station -  
BORING NO. RW-24  
Station 524+50  
Offset 19.0' Left  
Ground Surface Elev. 870.5

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)	Surface Water Elev. <u>n/a</u>				Stream Bed Elev. <u>n/a</u>				Groundwater Elevation:								
				DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)	DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)	DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)					
10.0"																				
	3		113																	
	3																			
	6	2.6B	18																	
	2		103																	
	3																			
	5	1.9B	21																	
	2		83																	
	2																			
	5	1.0B	32																	
	1		88																	
	2																			
	4	0.6B	32																	
	3		107																	
	3																			
	6	2.9B	20																	
	2		106																	
	4																			
	6	2.1B	21																	
	3		112																	
	5																			
	8	2.3B	18																	
	4		110																	
	6																			
	8	3.5B	18																	

CLAY to CLAY LOAM—dark brown & gray spotted black—stiff to very stiff (A-6) Fill  
CLAY—gray—stiff to very stiff (A-6)  
TOPSOIL—black  
SILTY CLAY—dark brown & gray—medium stiff (A-6) Wet  
CLAY—brown & gray—very stiff (A-6)  
CLAY—gray—stiff to very stiff (A-6)

End Of Boring @ -40.0  
Hollow Stem Augers To -10.0'  
Rotary Drilling To Completion  
10' Of 4.0" 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  
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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SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township  
COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -  
Station -  
BORING NO. RW-25  
Station 525+25  
Offset 19.0' Left  
Ground Surface Elev. 872.0

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)	Surface Water Elev. <u>n/a</u>				Stream Bed Elev. <u>n/a</u>				Groundwater Elevation:								
				DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)	DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)									
9.0"																				
	3		107																	
	3																			
	5	3.6B	18																	
	5		104																	
	5																			
	5	3.0B	21																	
	3		95																	
	3																			
	5	1.5B	24																	
	2		84																	
	2																			
	4	1.7B	35																	
	2		107																	
	5																			
	7	2.5B	20																	
	4		107																	
	6																			
	8	1.9B	21																	
	4		112																	
	6																			
	8	3.5B	18																	
	3		108																	
	6																			
	9	3.0B	20																	

SILTY CLAY—dark brown, gray & black—stiff (A-6) Wet  
CLAY—brown & gray—very stiff (A-6)  
CLAY—gray—stiff to very stiff (A-6)

End Of Boring @ -40.0  
Hollow Stem Augers To -10.0'  
Rotary Drilling To Completion  
10' Of 4.0" 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  
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



USER NAME =	DESIGNED - ESH	REVISED -
PLOT SCALE =	CHECKED - ADB	REVISED -
PLOT DATE =	DRAWN - RH	REVISED -
	CHECKED - ADB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS-1  
STRUCTURE NO. 016-W999**

SHEET NO. 56 OF 59 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	94
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				