

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

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Date 3/26/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY DTC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD HSA, with MR DRILL RIG/HAMMER EFFICIENCY CME 75 / 80%

STRUCT. NO. 082-0326
Station NA
BORING NO. B-424
Station 13+37.77
Offset 5ft LT
Ground Surface Elev. 419.4 ft

DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	Failure Mode	DEPTH (ft)	SOIL DESCRIPTION	UCS (tsf)	Failure Mode
0	TOPSOIL - 6 inches			398.9	Soft, brown, SILTY LOAM (continued)		
3	Gray, SILTY CLAY (FILL), with gravel			396.4	Stiff, brown, SILT		
7		*	12	4			
5				5		*	23
416.4	Brown, SILTY SAND (FILL), with gravel			0	Medium stiff, gray, SILTY CLAY		
4				3		*	31
5		*	15	-25			
413.9	Medium stiff, brown, SILTY CLAY			393.9	Medium stiff, gray, SILT		
2				4			
2		*	26	3		*	24
3				3			
411.4	Stiff, brown, SILTY LOAM			4			
3				3		*	28
1		1.0	29	3			
1		B		-30			
408.9	Stiff, brown, CLAY			387.4	Medium dense, gray, SANDY LOAM		
0				6			
2		1.1	34	7		*	24
1		B		6			
1				382.4	Medium dense to dense, gray, FINE GRAINED SAND, trace silt		
2		1.4	36	8			
3		S		11		*	28
-15				12			
403.9	Loose, brown, SANDY LOAM			-40			
6							
6		*					
4							
401.4	Soft, brown, SILTY LOAM						
1							
2		*	28				
1							
-20							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
** Not measured due to drilling methods used

AECOM

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SOIL BORING: B-424
1 OF 4

DESIGNED - P.JL
CHECKED - DDB
DRAWN - BRD
CHECKED - DDB

03/31/2011



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	Medium dense to dense, gray, FINE GRAINED SAND, trace silt (continued)			374.4	Medium dense to dense, gray, FINE GRAINED SAND, trace silt (continued)		
8				19			
8				26			
8				354.4	Grain size distribution conducted		
-45				-65			
6				17			
7				15			
7				12			
-50				-70			
10							
14							
14				-75			
26							
21							
20							
-60							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
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** Not measured due to drilling methods used

SOIL BORING: B-424
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BORING LOGS - III
STRUCTURE NO. 082-0326

SHEET NO. S31	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-3HB, 82-2N, 82-1-12RS	ST. CLAIR	352	233	
S36 SHEETS	F.A.U. 9166 / F.A.U. 9180	CONTRACT NO. 76C51			
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		