BORING LOG: B-3 (Page 1 of 4)

Illinois Department of Transportation — Division of Highways, Geotechnology, Inc

SOIL BORING LOG

Page 1 of 4

Date 10/17/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W

COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/ HAMMER EFFICIENCY Automatic Hammer

STRUCT. NO. 082-0322 / 082-0324
Station NA

BORING NO. B- 3
Station 52+98.8
Offset 17ft Left
Ground Surface Elev. 417.6 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter ** ft
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				gravel/crushed limestone (FILL)
416.1	14			
	8	*	21	Stiff to medium stiff, brown, CLAY with cinders, brick/concrete fragments and asphalt (FILL)
	5			
	2			
	2	*	33	
-5	3			
411.8				
	2			Medium stiff, brown, CLAY
411.1				
	2	1.9	29	Medium stiff, Gray-brown, SILTY
	3	S		LOAM
410.1				
				Loose, brown, SANDY LOAM
				Start mud rotary drilling @ 10'
	1			
	4	*	26	
-10	4			
	3			
	3	*	28	
	4			
404.6				
	3			Stiff, brown, SILTY LOAM with laminations of brown, FINE GRAINED SAND
	4	0.4	34	
402.6	5	B		
-15				
				Medium dense, brown, FINE GRAINED SAND with laminations of black organic material @ 16'-17.5'
	4			
	6			
	7			
-20	9			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium dense, brown, FINE GRAINED SAND with laminations of black organic material @ 16'-17.5' *(continued)*
	7			
	11			
	16			
				See Attached Gradation Test Results 393.6 – 393.1
	4			Stiff, brown, SANDY LOAM with Fe staining
	5			Loose to dense, brown, FINE GRAINED SAND medium grained in places with layers of black organic material @ 34'-34.25'
-25	10			
	7			
	10			
	13			
	8			
	12			
-30	16			
	3			
	3			
	4			
	7			
-35	7			
				See Attached Gradation Test Results
	7			
-40	7			

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
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

BORING LOG: B-3 (Page 2 of 4)

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Page 2 of 4

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Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter ** ft
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Loose to dense, brown, FINE GRAINED SAND medium grained in places with layers of black organic material @ 34'-34.25' *(continued)*
	11			
-45	16			
	16			
	11			
	14			
-50	18			
	9			
-55	15			
360.6				
				Medium dense to dense, gray, FINE to MEDIUM GRAINED SAND @ 58'-60'
-60	11			
	13			
	15			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium dense to dense, gray, FINE to MEDIUM GRAINED SAND @ 58'-60' *(continued)*
	8			
	18			
-65	26			
	14			
	20			
-70	22			
	16			
	21			
-75	23			
337.6				
-80				

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BORING LOG: B-3 (Page 3 of 4)

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First Encounter ** ft
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium dense, brown, FINE GRAINED SAND
				See Attached Gradation Test Results
	10			
	11		23	
-85	14			
328.6				
				Lenses of light gray, weathered limestone
324.6				
				Medium dense to dense, brown, MEDIUM GRAINED SAND to COARSE GRAINED SAND
	12			
	12			
-95	13			
302.6				
				GRAVEL, BOULDERS (glacial outwash)
-100				
297.6				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Medium dense to dense, brown, MEDIUM GRAINED SAND to COARSE GRAINED SAND *(continued)*
	9			
	13			
-105	14			
-110				
-115				
	21			
	22			
-120	14			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

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AECOM	USER NAME =	DESIGNED - PJL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS I I-70E OVER I-55, CSX & KCS RAILROADS
		DRAWN - BRD	REVISED -		
	PLOT SCALE = 0i2 '1' / IN.	CHECKED - DDB	REVISED -		SCALE: SHEET S-190 OF S-234 SHEETS STA. TO STA.
	PLOT DATE = 6/27/2011	DATE - 07-01-11	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	82-1-B-2	ST. CLAIR	399	317
	S.N. 082-0322 & S.N. 082-0324	CONTRACT NO. 76C76		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			