BORING NO. PB-200A (1 OF 3)

Illinois Department of Transportation
Division of Highways
geotechnology

SOIL BORING LOG

Page 1 of 3

Date 3/27/02

ROUTE FAI 64 DESCRIPTION Trilevel Interchange LOGGED BY KMP

SECTION 81-2, 82R LOCATION East St. Louis, IL, SEC. 18, TWP. 2N, RNG. 9W

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger and Mud Rotary HAMMER TYPE Automatic Hammer

STRUCT. NO. 082-0394
Station NA

BORING NO. PB-200A
Station 13+14
Offset 23.00ft left
Ground Surface Elev. 413.12 ft

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

Groundwater Elev.:
First Encounter 383.1 ft ▼
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown and black, SILTY LOAM, trace cinders, organics, and brick fragments (FILL)			
	2		
	2		37
	3		
409.12			
Very stiff, brown and gray, CLAY	1		
	3	2.3	43
-5	4	S	
407.62			
Stiff, brown, SILTY CLAY	1		
	3	1.7	38
	3	S	
405.12			
Medium stiff, brown, SILT	1		
	2		33
-10	3		
402.62			
Loose, brown, SANDY LOAM	3		
	3		
See Gradation Test Results	2		
400.12			
Very soft, brown, SILT	1		
	1		37
-15	1		
397.62			
Soft, bluish-gray, SILTY CLAY	1		
396.12			
Loose, brown, FINE GRAINED SAND	2	*	44
	7		
	5		
	6		
-20	4		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Loose, brown, FINE GRAINED SAND (continued)			
	2		
391.12			
Stiff, gray, SILT	6		28
	10		
	5		
See Gradation Test Results	5		
-25	5		
387.62			
Medium dense, gray, SANDY LOAM with silt seams from 26 to 27.5 feet	4		
	8		
	9		
	3		
	6		
▼-30	9		
	5		
See Gradation Test Results	6		
-35	6		
376.12			
Medium dense to dense, gray, FINE GRAINED SAND	8		
	11		
-40	14		

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 NO. PB-200A (2 OF 3)

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Page 2 of 3

Date 3/27/02

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Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter 383.1 ft ▼
Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND (continued)			
	4		
	6		
-45	11		
	5		
	25		
-50	26		
	9		
	11		
-55	14		
	14		
	18		
-60	31		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND (continued)			
	12		
	15		
-65	21		
	3		
with silty clay seams from 68.5 to 70 feet	5		32
-70	7		
with organic seams from 73.5 to 75 feet	15		
	15		
-75	24		
333.12 -80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Upon Completion ** ft
After ** Hrs. ** ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Medium dense, gray, MEDIUM GRAINED SAND, with silty clay seams			
	8		
	11		
-85	13		
326.12			
Dense, gray, FINE GRAINED SAND	4		
	20		
323.12 -90	12		
End of Boring			
-95			
-100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

Sheet No. WA-12 of 12

FILE NAME = 082-W228_76C47_S12_BOR-03.dgn	USER NAME = bhatta	DESIGNED -	REVISED -
		DRAWN - MK	REVISED -
	PLOT SCALE = 01 '/ / IN.	CHECKED - ATB	REVISED -
	PLOT DATE = 5/1/2009	DATE - 05/01/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(3 OF 3)
STRUCTURE NO. 082-W228

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-1HBR	ST. CLAIR	93	78
		CONTRACT NO. 76C47		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		