BORING NO. RW-79 (1 OF 3)

Illinois Department of Transportation
Division of Highways
geotechnology

SOIL BORING LOG

Date 10/22/02

ROUTE FAI 64 DESCRIPTION Trilevel Interchange LOGGED BY VZ

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. RW-W229
Station NA

BORING NO. RW-79
Station 21+26
Offset 25.00ft right
Ground Surface Elev. 415.12 ft

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

Groundwater Elev.:
First Encounter 396.6 ft ▼
Upon Completion ** ft
After Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
414.62 Topsoil - 6 inches			
Medium stiff, brown, SILTY CLAY LOAM	2		
	3	2.0	28
	2	P	
412.12 Soft, brown, SILT			
	2		
	2	1.8	36
-5	1	P	
409.62 Soft, brownish-gray, CLAY, blocky texture with slickensides			
	1		
	1	1.5	42
	2	P	
407.12 Soft, brownish-gray, SILTY CLAY LOAM			
	1		
	2	1.5	32
-10	2	P	
404.62 Stiff, grayish-brown, SILTY LOAM			
	2		
	4		25
	6		
402.12 Medium dense to loose, grayish-brown, FINE GRAINED SAND, with silt seams	3		
	8		
-15	9		
	2		
	4		
	5		
397.12 Very soft, brown, SILTY LOAM ▼			
	1		
	1		33
-20	1		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
394.62 Very soft, brown, SILTY LOAM (continued)			
Medium dense to loose, gray, SANDY LOAM	4		
	7		
	4		
	3		
	6		
See Gradation Test Results	9		
-25			
	4		
	6		
	7		
	2		
	1		
with silty clay seams	4		
-30			
378.12 Medium dense to dense, gray, FINE GRAINED SAND			
	3		
	6		
-35	8		
	11		
	11		
See Gradation Test Results	9		
-40			

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. RW-79 (2 OF 3)

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First Encounter 396.6 ft ▼
Upon Completion ** ft
After Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND (continued)			
	8		
	9		
-45	12		
	6		
	11		
-50	25		
	23		
	23		
-55	13		
	19		
	17		
-60	12		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND (continued)			
	10		
See Gradation Test Results	12		
-65	14		
	7		
	11		
-70	13		
	8		
	10		
-75	13		
	8		
	10		
-80	11		

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)

BORING NO. RW-79 (3 OF 3)

Illinois Department of Transportation
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geotechnology

SOIL BORING LOG

Date 10/22/02

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

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Ground Surface Elev. 415.12 ft

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Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter 396.6 ft ▼
Upon Completion ** ft
After Hrs. ** ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense to dense, gray, FINE GRAINED SAND (continued)			
-85			
	11		
	16		
325.12 -90	20		
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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* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used

BBS, from 137 (Rev. 8-99)

FILE NAME = 082-W229_76C47_S14_BOR-02.dgn	USER NAME = bhatta	DESIGNED -	REVISED -
		DRAWN - MK	REVISED -
	PLOT SCALE = 2:1 '/' IN.	CHECKED - ATB	REVISED -
	PLOT DATE = 5/5/2009	DATE - 05/01/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
(2 OF 3)
STRUCTURE NO. 082-W229

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
64	82-1-1HBR	ST. CLAIR	93	92
		CONTRACT NO. 76C47		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		