

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
G&G CONSULTANTS INC.

SOIL BORING LOG

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Date 8/25/09

ROUTE FAP 317 (US24/IL 9) DESCRIPTION US 24/ IL9 Over LaMarsh Creek (Hollis Road District) LOGGED BY RJC
SECTION 45BR-2 LOCATION 40° 34' 52.2" N 89° 41' 41.6" W, SEC. 22, TWP. 7N, RNG. 7E, 4th PM
COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H	B L O W S	U C S	M O I S T
BORING NO. Station Offset Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
072-0228 337+89.89									
B-3 West Pier 338+64 49.00ft RT 447.50									
Brown SAND (fill), trace gravel, organics, concrete debris	5				426.00	100/5			
	16		26						17
	26								
	13								
	15		18						
	28								
Obstruction (Fill, concrete debris)									
439.50									
Brown, Medium, SAND									
439.00									
Very Loose Gray, Wet SANDY LOAM, trace gravel	2								
	1		<0.25	16					
	2		B						
	10								
436.50									
Medium Dense Gray, Fine to Medium SAND, trace gravel	2								
	5			18					
	6								
435.00									
Gray CLAY				14					
434.00									
Gray, Coarse, SAND	16			17					
433.50									
Hard Gray SHALEY CLAY	47		5.9	14					
	51		B						
	18								
	10								
	20		5.9	19					
	19		B						
	14								
	50		6.6	14					
	18		B						
	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)
BBS, form 137 (Rev. 8-99)



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ROCK CORE LOG

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Date 8/25/09

ROUTE FAP 317 (US24/IL 9) DESCRIPTION US 24/ IL9 Over LaMarsh Creek (Hollis Road District) LOGGED BY RJC
SECTION 45BR-2 LOCATION 40° 34' 52.2" N 89° 41' 41.6" W, SEC. 22, TWP. 7N, RNG. 7E, 4th PM
COUNTY Peoria CORING METHOD Rotary, Diamond Bit Core Barrel

STRUCT. NO. Station	CORING BARREL TYPE & SIZE	D E P T H	C O R E	R E C O V E R Y	R Q D	C O R E T I M E	S T R E N G T H
BORING NO. Station Offset Ground Surface Elev.		(ft)	(#)	(%)	(%)	(min/ft)	(tsf)
072-0228 337+89.89	NX 5' split barrel						
B-3 West Pier 338+64 49.00ft RT 447.50	Core Diameter 2 in Top of Rock Elev. 426.00 ft Begin Core Elev. 424.50 ft						
SHALE, Dark Gray, Damp, Thin Horizontal Lamination, Aphanitic, Slightly Weathered, Soft Field Hardness, Occasional Limestone Lenses <2" in thickness (Core Run 1, RMR: 49, Rock Class III: Fair Rock)		1	100	78	6		142.6
Depth 23' 8", Moisture Content: 5.7%, Dry Density: 153.1 pcf		-25					
3" Lens LIMESTONE, Gray, Dry, Aphanitic, Slightly Weathered, Medium Field Hardness							
Depth 27' 6", Moisture Content: 6.4%, Dry Density: 151.2 pcf (Core Run 2, RMR: 47, Rock Class III: Fair Rock)		2	100	77	6		74.9
Depth 29' 3", Moisture Content: 6.0%, Dry Density: 150.8 pcf		-30					128.5
Depth 31' 1", Moisture Content: 6.6%, Dry Density: 150.6 pcf							83.3
(Core Run 3, RMR: 43, Rock Class III: Fair Rock)							
		3	82	63	6		
Depth 35' 2", Moisture Content: 7.3%, Dry Density: 149.2 pcf		-35					113.8
411.00							
LIMESTONE, Gray, Dry, Aphanitic, Slightly Weathered, Medium Field Hardness							
Depth 37' 7", Moisture Content: 4.7%, Dry Density: 155.1 pcf		409.50					362.2
End of Boring							
		-40					

Color pictures of the cores Yes
Cores will be stored for examination until 2/25/10
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

BORING LOGS III & ROCK CORE LOG				
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK				
STATION 337+89.89		STRUCTURE NO. 072-0228		
SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
S34 OF 39 SHEETS	317	45BR-2	PEORIA	122
				82
CONTRACT NO. 68719				
10-15-10		ILLINOIS FED. AID PROJECT		

GRAEF 8501 W. Higgins Road, Suite 280
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DESIGNED J.A.Z.
CHECKED E.E.J.
DRAWN S.R.K.
CHECKED J.A.Z.