STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 7/07

ROUTE FAP 322 (IL 1) DESCRIPTION Norfolk & Southern Railroad LOGGED BY E. Sandschafer

SECTION 103B-1 LOCATION SW 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM

COUNTY Wabash DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 093-0007
Station 757+96.93

BORING NO. 1
Station 756+07
Offset 10.00ft Rt
Ground Surface Elev. 453.91 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 72 Hrs. 432.9 ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
8" asphalt on 6" concrete pavement.	452.71				
Medium, damp, brown, SILTY CLAY.			1		
			2	0.8	21
			2	B	
	449.41	-5			
Soft, very damp, gray, SILTY LOAM.			1		
			1	0.3	30
			2	B	
	446.91				
Stiff, damp, gray, SILTY CLAY.			2		
			3	1.7	21
			4	B	
		-10	2		
			2	0.7	22
			3	B	
			0		
			2	1.8	23
			3	B	
		-15	3		
			3	1.5	23
			4	B	
			1		
			3	1.2	25
			5	B	
		-20	3		
Stiff, damp, gray, SILTY CLAY. (continued)			4	2.5	23
			3	B	
			2		
			3	1.2	25
	430.41		4	B	
Medium, damp, tan, SILTY LOAM.			1		
		-25			
			3	0.6	25
			3	B	
	426.91				
Stiff, damp, tan, SILTY CLAY.			1		
			3	1.3	19
			3	B	
	424.41				
Medium to stiff, damp, tan, SILTY LOAM.		-30	1		
			2	1.0	19
			3	B	
		-35	2		
Stiff, damp, red marbled gray, SILTY CLAY TILL.	419.41		6	1.9	22
			50/5"	B	
Red, SANDY CLAY SHALE.	418.21				
Borehole continued with rock coring.	418.01				

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)

Latitude W 87 deg 17.460 min, Longitude N 38 deg 34.649 min, Map Datum WGS 84

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
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ROCK CORE LOG

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Date 7/07

ROUTE FAP 322 (IL 1) DESCRIPTION Norfolk & Southern Railroad LOGGED BY E. Sandschafer

SECTION 103B-1 LOCATION SW 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM

COUNTY Wabash CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 093-0007
Station 757+96.93

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner

Core Diameter 2.06 in
Top of Rock Elev. 418.21 ft
Begin Core Elev. 418.01 ft

BORING NO. 1
Station 756+07
Offset 10.00ft Rt
Ground Surface Elev. 453.91 ft

Description	Elev.	DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Brown, severly weathered, SANDSTONE.	418.01		B1-1	80	32	0.4	
Brown w/black layering, SANDY CLAY SHALE.	415.81						
Brown, SANDSTONE.	415.01						
Brown, SANDY CLAY SHALE w/one 1" Sandstone layer.	414.71						
Brown, SANDSTONE.	413.91	-40	B1-2	100	33	0.6	
Brown, moderately weathered, SANDY CLAY SHALE w/one 1" Sandstone layer.	413.71						
Gray w/red layers, moderately weathered, SANDSTONE.	411.41						
Thin Sandy Clay Shale layering at 43.8' to 44.3'.							
Extent of exploration.	408.91	-45					
Benchmark: BM 541 chiseled "X" on SE corner on top of hubguard on structure 093-0007, Sta 759+30, 17' Rt = 454.48' elevation. Provided by Program Development.		-50					
		-55					

Color pictures of the cores Available on request
Cores will be stored for examination until 07/08/08
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

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SOIL BORING LOG

Page 1 of 1

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ROUTE FAP 322 (IL 1) DESCRIPTION Norfolk & Southern Railroad LOGGED BY E. Sandschafer

SECTION 103B-1 LOCATION SW 1/4, SEC. 30, TWP. 1 S, RNG. 12 W, 3 PM

COUNTY Wabash DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 093-0007
Station 757+96.93

BORING NO. 2
Station 757+38
Offset 28.00ft Lt
Ground Surface Elev. 428.82 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter Dry ft
Upon Completion Dry ft
After 72 Hrs. 426.0 ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Black, oily, SILTY CLAY w/ cinders.	427.82				
Very soft to medium, damp, brown, SILTY LOAM.			1		
			1	0.1	28
			2	B	
		-5	1		
			2	0.5	2
			2	B	
	421.52		2		
Stiff, damp, brown, SILTY CLAY.			3	2.0	26
			5	B	
	419.12	-10	3		
Very stiff, red marbled gray, CLAY LOAM TILL.			6	2.1	21
			8	B	
			2		
	415.82		3	0.7	24
Medium, damp, brown, SILTY LOAM TILL.			5	B	
	414.32		8		
Stiff, damp, brown, CLAY LOAM TILL.	413.82	-15	50/4"	2.0	14
Brown, SANDY CLAY SHALE.			50/1"	S	
	411.82		50/4"		7
Very dense, moist, brown, SANDSTONE.	411.49		50/1"		
Extent of exploration.			50/0"		
		-20			
Benchmark: BM 541 chiseled "X" on SE corner on top of hubguard on structure 093-0007, Sta 759+30, 17' Rt = 454.48' elevation. Provided by Program Development.		-30			
		-35			
		-40			

Latitude W 87 deg 17.433 min, Longitude N 38 deg 34.309 min, Map Datum WGS 84

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, from 137 (Rev. 8-99)

SOIL BORINGS-1
ILLINOIS ROUTE 1
OVER NORFOLK SOUTHERN RR
STA. 757+97.66

DESIGNED	
CHECKED	
DRAWN	J.G.
CHECKED	C.J.F. & B.B.

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62062-5635
Local-(618) 288-4665
Fax 618-288-4666

SHEET NO. 25	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
27 SHEETS	332	103B-1	WABASH	90	59
	SN 093-0023		CONTRACT NO. 94754		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT 332		

12:20:48 PM 1/11/2010 \Bridges\09300023 94754.dgn