

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 7507

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

SECTION 103B-1 LOCATION SW 14, 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. 3
Station 757+82
Offset 26.90ft Rt
Ground Surface Elev. 429.59 ft

DEPTH (ft)	DESCRIPTION	DRILLING METHOD	HAMMER TYPE	REMARKS
0	Surface Water Elev. NA ft			
0	Stream Bed Elev. NA ft			
0	Groundwater Elev.:			
0	First Encounter Dry ft			
0	Upon Completion Washed ft			
0	After 96 Hrs. 425.4 ft			
0	Dark brown, GRAVELY SILTY CLAY w/coal fragments.			
438.29	Stiff, damp, red marbled tan, SILTY LOAM.			
422.59	Medium to stiff, damp, tan, SILTY CLAY.			
419.69	Very stiff, damp, red, SILTY CLAY w/black veins.			
417.59	Medium to stiff, damp, tan, CLAY LOAM.			
414.89	Stiff to medium, damp, red/graytan, SILTY CLAY.			
410.09	* Very dense, moist, brown, SANDY LOAM SHALE.			
409.59	** 504", 501", 501"			
409.59	Borehole continued with rock coring.			

Borehole continued with rock coring.

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 Page 2 of 2
Date 7507

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

SECTION 103B-1 LOCATION SW 14, 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

BORING NO. 3
Station 757+82
Offset 26.90ft Rt
Ground Surface Elev. 429.59 ft

DEPTH (ft)	DESCRIPTION	CORING METHOD	REMARKS
409.59	Gray, SILTY CLAY SHALE.		
408.88	Rock Core B3A @ 20.0' to 20.5' depth Qu = 4.2 tsf.		
406.39	Brown w/red layers, moderately weathered, SANDSTONE.		
405.79	Gray, slightly weathered, CLAY SHALE.		
405.29	Brown, moderately weathered, SANDSTONE.		
404.79	Gray, CLAY SHALE.		
403.59	Gray, severely weathered, SANDSTONE.		
402.59	Gray, moderately weathered, CLAY SHALE.		
400.49	Brown, soft, SANDSTONE.		
399.99	Rock Core B3B @ 27.9' to 28.6' depth Qu = 135 tsf.		
399.99	Brown, soft, CLAY SHALE.		
399.99	Extent of exploration.		

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.

Color pictures of the cores Available on request
Cores will be stored for examination until 07/05/08
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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ROUTE FAP 322 (IL 1) DESCRIPTION Norfolk & Southern Railroad LOGGED BY E. Sandschafer

SECTION 103B-1 LOCATION SW 14, 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. 4
Station 758+92
Offset 30.80ft Lt
Ground Surface Elev. 431.12 ft

DEPTH (ft)	DESCRIPTION	DRILLING METHOD	HAMMER TYPE	REMARKS
506"	Surface Water Elev. NA ft			
506"	Stream Bed Elev. NA ft			
506"	Groundwater Elev.:			
506"	First Encounter Dry ft			
506"	Upon Completion Dry ft			
506"	After 96 Hrs. 425.1 ft			
506"	Dark gray, SILTY LOAM w/coal fragments.			
499.72	Soft to medium, very damp, brown, SILTY LOAM.			
498.62	Medium, damp, brown, SILTY CLAY.			
494.12	Very dense, moist, gray, SILTY CLAY SHALE.			
493.72	Very soft to medium, damp, brown, SILTY LOAM.			
491.12	Stiff, damp, tan, SILTY CLAY.			
416.62	Stiff, damp, red marbled tan, SILTY CLAY TILL.			
413.62	Soft, very damp, red marbled tan, SILTY LOAM TILL.			
411.42	506"			

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.

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)

SOIL BORINGS-2
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 62433-5635
Local (618) 288-4665
Fax 618-288-4666

SHEET NO. 26	F.A.P. RTE. 332	SECTION 103B-1	COUNTY WABASH	TOTAL SHEETS 90	SHEET NO. 60
27 SHEETS	SN 093-0023		CONTRACT NO. 94754		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT 332					