



**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

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Date 10/17/08

ROUTE FAP 332 (IL 1) DESCRIPTION Greathouse Creek at SW edge of Mt. Carmel LOGGED BY E. Sandschafer

SECTION (103B)B-1 LOCATION NE 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. 093-0008  
Station 850+32

BORING NO. 1 S Abut  
Station 850+52  
Offset 15.50ft Lt  
Ground Surface Elev. 403.94 ft

Surface Water Elev. 388.20 ft  
Stream Bed Elev. 385.46 ft

Groundwater Elev.:  
First Encounter 369.4 ft  
Upon Completion 387.4 ft  
After 72 Hrs. 391.9 ft

DEPTH (ft)	DIAMETER (in)	SOIL TYPE	MOISTURE (%)	UNIFORMITY (%)	QU (tsf)
14	3.1	S	16		
13		S			
318.94	50/4"			7	
	50/2"				
	50/1"				
-90					
-95					
-100					

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)

Latitude N 87 deg 46' 759" min, Longitude N 38 deg 24' 100" min, Mgr Datum WGS 84



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### ROCK CORE LOG

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Date 10/17/08

ROUTE FAP 332 (IL 1) DESCRIPTION Greathouse Creek at SW edge of Mt. Carmel LOGGED BY E. Sandschafer

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

COUNTY Wabash CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 093-0008  
Station 850+32

BORING NO. 1 S Abut  
Station 850+52  
Offset 15.50ft Lt  
Ground Surface Elev. 403.94 ft

CORING BARREL TYPE & SIZE: NVW, conv dbl bbl, split inner  
Core Diameter 2.06 in  
Top of Rock Elev. 324.44 ft  
Begin Core Elev. 318.94 ft

DEPTH (ft)	CORE NO.	COVER (%)	RECOVERY (%)	QU (min/ft)	STRENGTH (tsf)
318.94	B1C1	83	49	1.5	
313.94	B1C2	94	67	1.6	
308.94					
-100					
-105					

Gray, slightly to moderately weathered, SILTY CLAY SHALE w/ several layers severely weathered.  
Rock core B1C1 from 86.8' to 87.2' depth Qu = 30.6 tsf.  
Thin, black, Coal layer at 88.1' depth.

Gray, moderately weathered, SILTY CLAY SHALE.  
Rock core B1C2 from 92.3' to 92.9' depth Qu = 54.2 tsf.  
Thin, Limestone layer at 93.9' depth.

Extent of exploration.

Benchmark: BM 539 Chiseled square on NE corner of SE wingwall of existing structure, Sta 851+06, 22' Rt = 405.51' elevation. Provided by Program Development.

Color pictures of the cores Available on request  
Cores will be stored for examination until 10/17/09  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

FILE NAME = 0930026-74220-19-Soil.dgn	USER NAME = RJT	DESIGNED - ELH 01/11	REVISED -
	ESCA JOB NO. 933.12	CHECKED - MJW/RDP 01/11	REVISED -
	PLOT SCALE = 0:1' / IN.	DRAWN - HAS 08/11	REVISED -
	PLOT DATE = 12/15/2011 1:40:49 PM	CHECKED - ELH 08/11	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BORING LOGS**  
**STRUCTURE NO. 093-0026**

SHEET NO. 19 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(103B)B-1	WABASH	53	34
CONTRACT NO. 74220			ILLINOIS FED. AID PROJECT	