



Illinois Department of Transportation  
Division of Highways

### SOIL BORING LOG

Date 11/10/09

ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG

SECTION LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson DRILLING METHOD CME 55LC w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SB-15  
Station 1750+70.20  
Offset 4.00ft Rt  
Ground Surface Elev. 446.0 ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
------------	-------------	-----------	-----------

Surface Water Elev. \_\_\_\_\_ ft  
Stream Bed Elev. \_\_\_\_\_ ft  
Groundwater Elev.:  
First Encounter 435.0 ft ▽  
Upon Completion 407.5 ft ▽  
After \_\_\_\_\_ Hrs. \_\_\_\_\_ ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION
444.97				GRASS, TOPSOIL, & CRUSHED ROCK - 12 inches
	3			FILL: Brown, clay, trace to some sand (A-7)
442.97				FILL: Grayish brown and dark brown, silty clay (A-6)
440.47				CLAY: Grayish brown and brown, trace to some sand (A-7)
437.97				SILTY CLAY: Brown (A-6)
435.47				SILTY CLAY: Brown, trace sand (A-7)
432.97				CLAY: Brown, trace to some sand (A-7)
				Trace sand
426.77				CLAYEY SHALE: Brown

CLAYEY SHALE: Brown (continued)

Becomes gray

Extremely hard drilling at 35.5 feet.

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)



Illinois Department of Transportation  
Division of Highways

### SOIL BORING LOG

Date 11/10/09

ROUTE 331 DESCRIPTION IL Route 13 over BNSF Railroad near Marathon Drive LOGGED BY KEG

SECTION LOCATION Marion, SECS. 10SW & 15NW, TWP. 9S, RNG. 2E

COUNTY Williamson DRILLING METHOD CME 55LC w/HSA HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SB-15  
Station 1750+70.20  
Offset 4.00ft Rt  
Ground Surface Elev. 446.0 ft

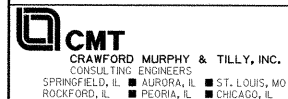
DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)
------------	-------------	-----------	-----------

Surface Water Elev. \_\_\_\_\_ ft  
Stream Bed Elev. \_\_\_\_\_ ft  
Groundwater Elev.:  
First Encounter 435.0 ft ▽  
Upon Completion 407.5 ft ▽  
After \_\_\_\_\_ Hrs. \_\_\_\_\_ ft

DEPTH (ft)	BLOWS (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION
401.97				CLAYEY SHALE: Brown (continued)

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)



CRAWFORD MURPHY & TILLY, INC.  
CONSULTING ENGINEERS  
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO  
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

USER NAME = Gary Davis	DESIGNED = JMW	REVISED =
PLOT SCALE = 1.0000' / IN.	CHECKED = REB	REVISED =
PLOT DATE = 12/7/2011	DRAWN = AJK	REVISED =
	CHECKED = REB	REVISED =

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 100-W002

SHEET NO. 20 OF 21 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
331	(1X-1) VB-1, B-1, N-4, R-3	WILLIAMSON	367	276
CONTRACT NO. 98859			ILLINOIS FED. AID PROJECT	