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**SOIL BORING LOG**

Geo Services, Inc.  
Geotechnical, Environmental & Civil Engineering  
805 Amherst Court, Suite 204  
Naperville, Illinois 60565  
(630) 355-2838

DATE 2/8-9/2012  
LOGGED BY DR  
GSI JOB No. 09174

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12  
SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM  
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. ---  
Station ---  
BORING NO. **BS-02**  
Station 276+82  
Offset 25.4' Right  
Ground Surface Elev. 632.4

DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)	DEPTH (ft)	BLOW COUNT (blows/ft)	UCS (tsf)	MOISTURE (%)
Surface Water Elev. n/a							
Stream Bed Elev. n/a							
Groundwater Elevation:							
First Encounter 624.4							
Upon Completion n/a							
After Hrs. ---							
RUN 1 (-117.0' to -127.0')							
Horizontal fractures @ -118.3', -119.1', -119.5', -119.6', -120.0', -120.5', -121.8', -122.5', -122.6', -122.7', -123.2', -123.6', -124.2' & -125.0'.							
Recovery=93.5% RQD=82.5%							
505.4							
Silurian System, Niagaran Series Dolomite RUN 1 (-127.0' to -133.0')							
Light gray to gray & fine grained with horizontal bedding becoming mottled gray & slightly porous with horizontal to wavy bedding @ -130.1'. Horizontal fractures @ -129.5', -130.7', -131.1', -131.7' & -132.2'.							
Recovery=100.0% RQD=100.0%							
130							
End Of Boring @ -133.0							
Hollow Stem Augers To -10.0'							
Rotary Drilling To Completion 10.0' Of 4.0" Casing Used							
CME Automatic Hammer							
135							
140							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)  
NR-No Recovery

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**ROCK CORE LOG**

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ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12  
SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM  
COUNTY Cook CORING METHOD Rotary Wash


STRUCT. NO. ---  
Station ---  
BORING NO. **BS-02**  
Station 276+82  
Offset 25.4' Right  
Ground Surface Elev. 632.4

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft  
Core Diameter 2.0 in  
Top of Rock Elev. 515.4  
Begin Core Elev. 515.4

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
1	93.5	82.5	n/a	851	117.0
-132					
-137					

Silurian System, Niagaran Series Dolomite  
RUN 1 (-117.0' to -127.0')

Gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -120.3'. Horizontal fractures @ -118.3', -119.1', -119.5', -119.6', -120.0', -120.5', -121.8', -122.5', -122.6', -122.7', -123.2', -123.6', -124.2' & -125.0'.



Color pictures of the cores Yes Cores will be stored for examination for -  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM  
COUNTY Cook CORING METHOD Rotary Wash


STRUCT. NO. ---  
Station ---  
BORING NO. **BS-02**  
Station 276+82  
Offset 25.4' Right  
Ground Surface Elev. 632.4

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft  
Core Diameter 2.0 in  
Top of Rock Elev. 505.4  
Begin Core Elev. 505.4

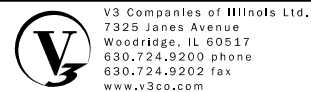
DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	RQD (%)	CORRECTION (min/ft)	STRENGTH (tsf)
2	100.0	100.0	n/a	824	127.0
-132					
-137					

Silurian System, Niagaran Series Dolomite  
RUN 2 (-127.0' to -133.0')

Light gray to gray & fine grained with horizontal bedding becoming mottled gray & slightly porous with horizontal to wavy bedding @ -130.1'. Horizontal fractures @ -129.5', -130.7', -131.1', -131.7' & -132.2'.



Color pictures of the cores Yes Cores will be stored for examination for -  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)



USER NAME =  
DESIGNED - WJV  
CHECKED - CJB  
DRAWN - WJV  
CHECKED - CJB

PLOT SCALE =  
PLOT DATE =

DESIGNED - WJV  
CHECKED - CJB  
DRAWN - WJV  
CHECKED - CJB

REVISED  
REVISED  
REVISED  
REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS  
STRUCTURE NO. 016-1415  
SHEET NO. 7 OF 7 SHEETS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-Y-A	COOK	354	287
CONTRACT NO. 60R19				
ILLINOIS FED. AID PROJECT				