Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60563
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 3
DATE 4/19-21/2010
LOGGED BY DR
GSI JOB No. 09165

ROUTE Il. RTE 19
DESCRIPTION Irving Park Rd., York Rd., CPR Grade Separation Prj. D-91-332-06
SECTION 32 WRS-5
LOCATION Addison Township T 40 N, R 11 E, NW 1/4 Section 13 , 3rd P.M.
COUNTY DuPage
DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. SB-02
Station: 20300+06
Offset: 32.0' Right
Ground Surface Elev. 663.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
3.0" ASPHALT, 9.0" CRUSHED STONE	662.6				
TOPSOIL & CINDERS–black–loose (Fill)	660.6		4, 5, 4	NP	29
CLAY–brown & gray–stiff to hard (A–6)		–5	3, 4, 4	1.7B	26
			2, 3, 4	2.75B	21
		–10	4, 8, 9	5.1B	19
CLAY–gray–stiff to hard (A–6)	553.1		3, 6, 9	2.9B	20
		–15	2, 4, 6	1.9B	19
			2, 3, 5	1.0P	22
		–20	2, 3, 4	1.7B	18
CLAY–gray–stiff to hard (A–5)		–25	3, 6, 7	2.4B	18
		–30	4, 5, 8	2.6B	16
		–35	2, 4, 7	1.6B	18
		–40	4, 5, 16	1.5P	23
SILTY CLAY–stiff (A–4/A–6)	626.6				

95 *106* *108* *108* *109* *111* *111* *110* *117* *113* *103*

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-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

SOIL BORING LOG

PAGE 2 of 3
DATE 4/19-21/2010
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ROUTE Il. RTE 19
DESCRIPTION Irving Park Rd., York Rd., CPR Grade Separation Prj. D-91-332-06
SECTION 32 WRS-5
LOCATION Addison Township T 40 N, R 11 E, NW 1/4 Section 13 , 3rd P.M.
COUNTY DuPage
DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. SB-02
Station: 20300+06
Offset: 32.0' Right
Ground Surface Elev. 663.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SILTY CLAY–stiff (A–4/A–6)	616.6		2, 3, 7	1.25B	28
CLAY LOAM–gray–hard (A–6)	606.6	–50	6, 6, 11	4.5+P	10
		–55	6, 10, 14	4.5P	14
SAND–gray–medium dense (A–3)		–60	9, 8, 9	NP	18
SAND–gray–medium dense (A–3)	601.6				
SAND & GRAVEL–gray–very dense (A–1)	596.6	–65	15, 25, 36	NP	9
SILTY CLAY LOAM–gray–very dense (A–4)	591.6	–70	25, 33, 39	NP	14
SANDY LOAM with Fractured Rock–gray–very dense (A–2)		–75	50/4"	NP	11
		–80	50/5"	4.5+P	11

96

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NR-No Recovery

SOIL BORING LOG

PAGE 3 of 3
DATE 4/19-21/2010
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ROUTE Il. RTE 19
DESCRIPTION Irving Park Rd., York Rd., CPR Grade Separation Prj. D-91-332-06
SECTION 32 WRS-5
LOCATION Addison Township T 40 N, R 11 E, NW 1/4 Section 13 , 3rd P.M.
COUNTY DuPage
DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. SB-02
Station: 20300+06
Offset: 32.0' Right
Ground Surface Elev. 663.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SANDY LOAM with Fractured Rock–gray–very dense (A–2)	581.6				
CLAY LOAM–gray–hard (A–6)	576.6	–85	33, 38, 37	4.5+P	9
SILT–gray–very dense (A–4)	571.6	–90	46, 50/5"	NP	12
SILTY LOAM with Fractured Rock–gray–very dense (A–2)	568.6	–95	50/4"	NP	10
Drillers Observation: Cobbles & Boulders.	565.6				
Silurian System Niagaran Series Dolomite RUN 1 (–98.0' to –108.0')		–100	RUN 1		

Light gray to gray with horizontal bedding. Fine grained with some light weathering in fractures, some vugs. Horizontal fractures @ –98.5', –98.7', –99.3', –99.5', –100.1', –100.9', –101.1', 101.3', –102.6', –103.3', –103.7', –105.0', –105.1', –106.0' & –106.8'.

Recovery=98.0%
R.Q.D.=87.0%

RUN 1

End Of Boring @ –108.0'
Hollow Stem Augers To –10.0'
Rotary Drilling To Completion
CME Automatic Hammer
10.0' Of 4.0"ø Casing Used
108.0' Of 3.0"ø Casing Used

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-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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jmigus

11/2/2012
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HDR ENGINEERING, INC.	USER NAME = jmigus	DESIGNED -	REVISED -
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	PLOT SCALE = NONE	DRAWN - RMA	REVISED -
	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 022-0226
SHEET NO. 41 OF 43 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	32VB	DU PAGE	388	182

CONTRACT NO. 60W01
ILLINOIS FED. AID PROJECT