Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Arbor Ct, Court, Suite 204
Naperville, Illinois 60565
(630) 305-2668

SOIL BORING LOG

DATE 4/29/2011
LOGGED BY MD
GSI JOB No. 09173

ROUTE Il. Route 59 (FAP 338) DESCRIPTION Illinois Route 59–Aurora Avenue/New York Street To Ferry Road
SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9–10, 15–16, 21–22 TWP. 38N, RNG. 9E, Naperville Township
COUNTY DuPage DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XX
Station: XX
BORING NO. PS-01
Station: 3963+47 IL RTE-59
Offset: 74.0' Left
Ground Surface Elev. 697.9

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 690.9
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				4.0" ASPHALT, 26.0" CRUSHED STONE–medium dense
695.4	3 5 6	NP	5	
				SAND, GRAVEL & STONE–loose (Fill)
	2 2 2	NP	7	
692.4				
	1 1 1	NP	15	Silty SAND & GRAVEL–dark brown–very loose (Fill)
688.9				
	1 1 1	0.25P	35	TOPSOIL–black
687.4				
	2 3 4	1.3B	20	CLAY to CLAY LOAM–gray–stiff to very stiff (A–6)
	4 8 12	2.2B	15	
682.4				
	9 50/4"	4.0P	14	SILTY CLAY LOAM–gray–hard (A–4/A–6)
679.9				
	4 8	2.75P	15	CLAY LOAM–gray–very stiff (A–6)
	15			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
677.4				CLAY LOAM–gray–very stiff (A–6)
	7 10 11	4.0B	117 14	
				SILTY CLAY LOAM–gray–stiff to very stiff (A–4/A–6)
	7 7 7	2.5P	14	
672.4				
	3 6 9	2.5B	110 20	
	3 4 6	1.7B	107 22	CLAY–gray–stiff to very stiff (A–6)
665.9				
	5 6 6	NP	19	SANDY LOAM–gray–medium dense (A–2)
660.9				
	9 11 13	NP	22	SAND–gray–medium dense (A–3)

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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SOIL BORING LOG

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ROUTE Il. Route 59 (FAP 338) DESCRIPTION Illinois Route 59–Aurora Avenue/New York Street To Ferry Road
SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9–10, 15–16, 21–22 TWP. 38N, RNG. 9E, Naperville Township
COUNTY DuPage DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XX
Station: XX
BORING NO. PS-01
Station: 3963+47 IL RTE-59
Offset: 74.0' Left
Ground Surface Elev. 697.9

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 690.9
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SAND–gray–medium dense (A–3)
655.9				
	50/6"			SANDY LOAM with Fractured Rock–gray–very dense (A–2)
–45		NP	8	
651.9				
650.9				Drillers Observation: Apparent Bedrock
–50				Silurian System, Niagaran Series Dolomite RUN 1 (–47.0' to –54.0') Light gray to gray with horizontal to wavy bedding. Porous & weathered with numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=13.1% RUN 1
643.9				
				Silurian System, Niagaran Series Dolomite RUN 2 (–54.0' to –57.0') Light gray to gray with horizontal to wavy bedding. Porous & weathered with numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=50.0% RUN 2
–55				
640.9				
–60				End Of Boring @ –57.0' Hollow Stem Augers to –15.0' Rotary Drilling To Completion CME Automatic Hammer

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
–65			
–70			
–75			
–80			

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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ROCK CORE LOG

DATE 4/29/2011
LOGGED BY MD
GSI JOB No. 09173

ROUTE Il. Route 59 (FAP 338) DESCRIPTION Illinois Route 59–Aurora Avenue/New York Street To Ferry Road
SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9–10, 15–16, 21–22 TWP. 38N, RNG. 9E, Naperville Township
COUNTY DuPage CORING METHOD Rotary Wash

STRUCT. NO. XX
Station XX
BORING NO. PS-01
Station: 3963+47 IL RTE-59
Offset: 74.0' Left
Ground Surface Elev. 697.9

CORING BARREL TYPE & SIZE NX Double Swivel–10 ft
Core Diameter 2.0 in
Top of Rock Elev. 651.9
Begin Core Elev. 650.9

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	
	1	100.0	13.1	n/a	840 ● –48.3'	Silurian System, Niagaran Series Dolomite RUN 1 (–47.0' to –54.0') Light gray to gray with horizontal to wavy bedding. Porous & weathered with numerous horizontal fractures throughout.
–52						
	2	100.0	50.0	n/a	418 ● –55.9'	Silurian System, Niagaran Series Dolomite RUN 2 (–54.0' to –57.0') Light gray to gray with horizontal to wavy bedding. Porous & weathered with numerous horizontal fractures throughout.
–57						

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

KNIGHT
Engineers & Architects

	DESIGNED - GSI	REVISED -	
	CHECKED - GSI	REVISED -	
SCALE - NONE	DRAWN - GSI	REVISED -	
DATE - 3/22/2012	CHECKED - GSI	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
PUMP STATION 47
SHEET NO. SA-34 OF 34 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338/IL 59	2011-035-I	DUPAGE	181	109
		CONTRACT NO. 60P41		
	ILLINOIS	FED. AID PROJECT		