WB-02

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Deerfield Court, Suite 204
Naperville, Illinois 60565
630/355-1626

SOIL BORING LOG

PAGE 2 of 2
DATE 7/20-21/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structure-Retaining Wall
COUNTY St. Clair
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE Diedrich Automatic

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-02
Station: 140+72
Offset: 34.5' Left
Ground Surface Elev. 406.0

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 397.5 ▼
Upon Completion n/a ▽
After 24 Hrs. n/a ▽

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-gray- medium dense to dense (A-3)		8		
		10		
		12	NP	15
		14		
		18		
	-45	18	NP	16
		11		
		16		
		15	NP	17
		8		
		10		
	-50	17	NP	23
		14		
		14		
		13	NP	16
XX				
SAND with Gravel-gray- loose (A-1-b)		3		
		5		
	-55	7	NP	14
XX				
SAND-gray- loose to dense (A-3)		13		
		14		
		16	NP	21
		13		
		14		
	-60	15	NP	20
SAND-gray- loose to dense (A-3)	-65	15		
		16		
		13	NP	19
		16		
		19		
	-65	20	NP	20
		11		
		9		
		7	NP	25
		6		
		8		
	-70	18	NP	22
		13		
		14		
		16	NP	21
		19		
		22		
	-75	26	NP	19
XX				
		16		
		26		
		36	NP	18
XX				
SAND with Gravel-loose (A-1-b)		12		
End Of Boring @ -80.0'				
Straight Flight Augers To -10.0'		13		
Rotary Drilling To Completion XX -80		19	NP	11

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

WB-03

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Deerfield Court, Suite 204
Naperville, Illinois 60565
630/355-1626

SOIL BORING LOG

PAGE 1 of 2
DATE 7/21/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structure-Retaining Wall
COUNTY St. Clair
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE Diedrich Automatic

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-03
Station: 142+23
Offset: 38.5' Left
Ground Surface Elev. 405.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 397.2 ▼
Upon Completion n/a ▽
After 24 Hrs. n/a ▽

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-black		AS	-	24
XX				
		1		88
		2		
		3	1.7B	33
		1		
		2		
SILTY CLAY-brown- soft to stiff (A-6) Wet	-5	2	1.5P	28
		0		86
		1		
		1	0.25B	34
▼		0		87
		1		
	-10	1	0.5B	35
		1		
		1		
		2	0.25P	36
XX				
SAND-brown- medium dense (A-3)		3		
		5		
	-15	6	NP	22
		5		
		7		
		10	NP	21
		8		
	-20	8	NP	22
SAND-brown- medium dense (A-3)		9		
		9		
		8	NP	20
		4		
		7		
	-25	12	NP	21
		8		
		8		
		9	NP	25
		6		
		13		
	-30	11	NP	18
		9		
		5		
		8	NP	19
		6		
		8		
	-35	9	NP	25
		6		
		9		
		10	NP	20
		7		
		9		
	-40	13	NP	18

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

WB-03

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Deerfield Court, Suite 204
Naperville, Illinois 60565
630/355-1626

SOIL BORING LOG

PAGE 2 of 2
DATE 7/21/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structure-Retaining Wall
COUNTY St. Clair
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE Diedrich Automatic

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-03
Station: 142+23
Offset: 38.5' Left
Ground Surface Elev. 405.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 397.2 ▼
Upon Completion n/a ▽
After 24 Hrs. n/a ▽

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-brown-medium dense (A-3)	XX			
		12		
		17		
		16	NP	15
		7		
		9		
SAND-gray- medium dense to dense (A-3)	-45	11	NP	18
		10		
		11		
		12	NP	24
		9		
		12		
	-50	13	NP	21
		12		
		16		
		19	NP	19
		10		
		12		
	-55	19	NP	18
		15		
		15		
		14	NP	17
		14		
		10		
	-60	7	NP	21
SAND-gray- medium dense to dense (A-3)	-65	10		
		12		
		16	NP	20
		15		
		16		
	-70	16	NP	20
		12		
		15		
	-70	17	NP	24
		11		
		15		
		23	NP	10
		14		
		15		
	-75	17	NP	20
		17		
		22		
		19	NP	17
XX				
SAND & Gravel-medium dense (A-1-b)		21		
End Of Boring @ -80.0'				
Straight Flight Augers To -10.0'		6		
Rotary Drilling To Completion XX -80		5	NP	13

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

\082C0318-CONN-05-011-HS.DGN \\82C0318-CONN-05-011-HS.DGN \\82C0318-CONN-05-011-HS.DGN \\82C0318-CONN-93-001-BG.DGN
6-23-2010, 10:56:07 BONDHJO \\FS-DB14\CAMNYVAULT\PROJ_07\22C229\B9-001\STRUCT\CAD\01_DESIGN\082x234\SHEET\082x234-CONN-05-024-SHT-MS.DGN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TCG	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
	PLOT DATE = $DATE$	DATE - 06/04/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION
RETAINING WALL

SOIL BORING LOGS
2 OF 11

SCALE: NTS | SHEET NO. W-5 OF W-14 | STA. 140+57.64 TO STA. 147+35.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB	ST. CLAIR	285	226
	SN 082-W234	CONTRACT NO. 76C44		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		