Illinois Department of Transportation
Division of Highways
Illinois Dept of Transportation

SOIL BORING LOG

Date 5/30/01

ROUTE IL Route 176 DESCRIPTION Structure Soil Boring for Box Culvert Over Benga Lake Drain LOGGED BY Adam Glinski

SECTION _____ LOCATION SW 1/4, SEC. 27, TWP. 44 N, RNG. 9 E. 3rd PM

COUNTY Lake DRILLING METHOD CME-750 HAMMER TYPE CME Automatic

STRUCT. NO. 049 2002
Station _____

BORING NO. SL-2
Station 45+70
Offset 15.00ft LT of CL
Ground Surface Elev. 748.85 ft

Surface Water Elev. ___ ft
Stream Bed Elev. ___ ft

Groundwater Elev.:
First Encounter 743.9 ft
Upon Completion 735.9 ft
After ___ Hrs. ___ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
0			
SAND and GRAVEL, Shoulder			
748.85			
Stiff Mottled Black and Gray SILTY CLAY	1		
	2	1.7	24
	3	B	
744.35			
Soft Mottled Gray, Green and Black CLAY	0		
	0	0.4	31
	0	B	
741.35			
Very Stiff Mottled Brown and Gray SILTY CLAY	1		
740.35	3	2.3	25
Sand Seam (1/2")	4	B	
	10		
	2		
	4	2.5	23
	5	B	
736.85			
Stiff Brown CLAY	2		
	2	1.2	20
	4	B	
733.85			
Grades to Gray	2		
	2	1.4	20
	4	B	
	2		
	2	1.2	19
	4	B	
729.35	20		
Medium Stiff to Stiff Gray SILTY CLAY (continued)	2		
	2	1.0	18
	4	B	
726.85			
Medium Stiff Mottled Gray and Black SILTY CLAY	2		
	2	0.8	18
Gray Silt Seam (1/2")	4	B	
726.35	-20		
Trace Clay Silt	3		
720.85			
Second Water Encounter	5		16
722.85	6		
Gray Fine to Medium SAND			
721.35			
Grades to Medium Dense\Begin Weathering	5		NR
	5		
	6		
718.35	-30		
Stiff Gray CLAY	5		
	5	1.5	19
	8	B	
713.85			
Discontinue Weathering	6		
713.35			
Medium Dense Gray SILT	3		
	5		
	6		
711.35	-40		
	11		15
	11		
	-49		

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)

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DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine Gray SAND 736.35	6		
Medium Dense Gray SILT	12		25
	8		
	-45		
	4		
	8		18
702.35	9		
End of Boring			
	-53		
	-60		
	-65		
	-70		
	-75		
	-80		
	-85		

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)

Primera 100 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P.312-606-0910 F.312-606-0915	USER NAME =	DESIGNED - JSG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS STRUCTURE No. 049-0197 STA. 45+00.00	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - LRG	REVISED -			335	145 X-T	LAKE	80	44
	PLOT SCALE =	DRAWN - MPS	REVISED -						CONTRACT NO. 62187	
	PLOT DATE =	CHECKED - JXH	REVISED -		SHEET NO. SB10 OF SB10 SHEETS	DATE: 09-14-2011	ILLINOIS	FED. AID PROJECT		