

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303 IL 173	134(B&B-2)R-1	LAKE	137	183
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 23
23 SHEETS

GROUND ENGINEERING CONSULTANTS, INC.
STRUCTURE BORING LOG

DATE: 3-6-03

ROUTE: IL-173 DESCRIPTION: Bridge B Improvement, IL-173 over E. Boat Channel
SECTION: FAP 303 STRUCTURE NO.: 049-0056 DRILLED BY: Brett
COUNTY: LAKE LOCATION: IL-173 over E. Boat Channel S. 12 TWP. 46N RNG. 9E

Boring No.	D	B	Qu	W	Surface Water Elev.	D	B	Qu	W
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O			when drilling	P	O		
Surface Elev.	T	W			at completion	T	W		
(m)	H	S	kPa	%	after	H	S	kPa	%
					Hrs.				
Asphalt pavement & base course					Vane Shear Test SU=27 kPa				
FILL, silty sand, some gravel, brown, moist, dense		N=53	9						
		N=20	4			N=21	34		
	-1.5					2	B		
		N=3	5		Vane Shear Test SU=20 kPa				
		N=4	6			N=19			
	-3.0					6			
FINE TO MEDIUM SAND, wet, loose		N=4	17		SILTY CLAY & SAND some gravel, gray, soft				
		N=2	18						
	-4.5					N=11			
FINE TO COARSE SAND, tr. gravel & organic, dark-gray, loose		N=1	10						
SILTY CLAY, tr. gravel & organic, dark-gray, loose		N=1	71	38					
SILTY CLAY, tr. sand & gravel, gray, soft		1	B						
Vane Shear Test SU=31 kPa	-6.0								
		N=2	23	35					
		2	B						
Vane Shear Test SU=27 kPa									
		N=2	22	37					
	-7.5								
		2	B						

SPT. (N) = Sum of last two blow values in sample. (Qu) B = Bulge S = Shear P = Penetration Test Stations, Depths, Offset, and Elevation are in Meters

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Boring No.	D	B	Qu	W	Surface Water Elev.	D	B	Qu	W
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O			when drilling	P	O		
Surface Elev.	T	W			at completion	T	W		
(m)	H	S	kPa	%	after	H	S	kPa	%
					Hrs.				
Asphalt					Vane Shear Test SU=20 kPa				
Concrete									
SAND & GRAVEL, brown, moist		N=47	5						
		N=21	5			N=23	34		
	-1.5					2	B		
FINE TO COARSE SAND, tr. gravel, brown, moist, loose		N=5	5		Vane Shear Test SU=21 kPa				
		N=7				N=22	32		
	-3.0					2	B		
FINE TO COARSE SAND, gray, wet, loose		N=2	15		SAND, GRAVEL & SILT CLAY, wet, loose				
		N=3	131			N=11			
	-4.5					2			
PEAT, black		X							
		N=3	131						
Vane Shear Test SU=32 kPa									
		N=2	57	33					
	-6.0								
		2	B						
Vane Shear Test SU=22 kPa									
		N=2	29	30					
	-7.5								
		2	B						

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DESIGNED	JRF
CHECKED	RCJ
DRAWN	RDS
CHECKED	JRF



SOIL BORING LOGS B-4 & B-5
FAP 303 IL. ROUTE 173
OVER EAST BOAT CHANNEL
SECTION 134(B&B-2)R-1
LAKE COUNTY
STATION 26+271.906
STRUCTURE NO. 049-0198