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Illinois Department of Transportation
Division of Highways
TSI Engineering

SHELBY TUBE TEST RESULTS

Date 6/16/10

ROUTE FAP 788 DESCRIPTION Relocated Illinois Route 3 DRILLED BY Geotechnology Inc.

SECTION 520-1-2HVB LOCATION SE 1/4, NW 1/4, SW 1/4, SEC. 12, TWP. 2N, RNG. 10W, 3rd PM

COUNTY St. Clair STRUCT. NO. 082-0334 & -0335 Station 649+08

BORING NO. ST-4
Station 1654+82.93 Ground Surface Elev. 416.67 ft Tube Length 30 in
Offset 57.50ft LT Begin Sampling Depth 2 ft Tube Diameter 2.87 in

DEPTH (ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	TRIAxIAL DATA	
								S	T
1-1	92								
1-2									
1-3									
1-4									
2-1	96								
2-2									
2-3									
2-4									
3-1	100								
3-2									
3-3									
3-4									
4-1	83								
4-2									
4-3									
4-4									
5-1	83								
5-2									
5-3									
5-4									
6-1	50								
6-2									
6-3									
6-4									
7-1	83								
7-2									

SOIL TYPE, DESCRIPTION AND OBSERVATIONS

Black, silty LOAM, trace gravel and cinders (FILL)
-trace silt between 2.5 and 4.0 ft.

Brownish-gray, CLAY

-trace silt between 7.0 and 8.0 ft.
Brownish-gray, clay LOAM (Percent passing No. 200 sieve = 59.4%)

Brownish-gray, CLAY (Alluvium)

-gray to dark gray below 12.5 ft.

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
The "Test Type" indicates if Unconsolidated Undrained (UU) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

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BORING ST-4
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								S	T
7-3									
7-4									
8-1	90								
8-2									
8-3									
8-4									
9-1	92								
9-2									
9-3									
9-4									
10-1	100								
10-2									
10-3									
10-4									
11-1	50								
11-2									
11-3									
11-4									
12-1	92								
12-2									
12-3									
12-4									
13-1	100								
13-2									
13-3									
13-4									

SOIL TYPE, DESCRIPTION AND OBSERVATIONS

Gray to dark gray, CLAY

-grayish-brown below 16.0 ft.

-trace fine sand and silt lenses between 19.5 and 20.0 ft.
-trace silt lenses between 20.5 and 21.0 ft.

-dark gray below 25.5 ft.

Gray, sandy LOAM

Gray, CLAY

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
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DEPTH (ft)	(no)	(%)	(pcf)	(tsf)	(%)	(tsf)	(deg)	TRIAxIAL DATA	
								S	T
14-1	96								
14-2									
14-3									
14-4									

SOIL TYPE, DESCRIPTION AND OBSERVATIONS

Gray CLAY

-trace sand lenses from 25.0 to 30.0 ft.

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
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