

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG Page 1 of 2
Date 4/9/04

ROUTE IL 13 over Stream DESCRIPTION IL 13 over Stream LOGGED BY Bryan Keller

SECTION 1X-1 LOCATION 0.8 miles W of Marion, SEC. 15, TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD HAMMER TYPE

STRUCT. NO. 100-2007
Station 770+52.47

BORING NO. 1-S
Station 770+33
Offset 62 ft. 11.149 CL
Ground Surface Elev. 434.3 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DETERMINED	UNDETERMINED	MOISTURE (%)	SHRINKAGE (%)	WATER ELEV. (ft)	STREAM BED ELEV. (ft)	GROUNDWATER ELEV. (ft)	QUICKSAND	TESTS
0	Surface Water Elev. _____ ft									
0	Stream Bed Elev. _____ ft									
0	Groundwater Elev.: _____ ft									
0	First Encounter _____ ft									
0	Upon Completion _____ ft									
0	After 75 Hrs. _____ ft									
0	Ground Surface Elev. _____ ft									
0	Very stiff, moist, grey, Clay to Silty Clay A7-6 (continued)	2	0.9	17						
0	412.3									
1	Stiff, very moist, grey, Clay to Silty Clay A7-6 with Pea Gravel	1								
2		2	1.1	17						
3		1								
429.8										
429.8	Medium, moist, brown, Silty Clay A-6	4	0.9	20						
4		3								
4		4								
427.3										
427.3	Stiff, moist to very moist, brown mottled grey, Clay to Silty Clay A7-6	1								
2		2	1.2	21						
3		3								
424.8										
424.8	Medium, very moist, brown, Silty Clay Loam A-6 with a Sand Layer	4	0.7	19						
3		3								
422.3										
422.3	Soft, very moist, brown, Silty Clay Loam A-6	2	0.4	23						
2		1								
419.8										
419.8	Stiff, very moist, brown, Silty Clay A7-6 with Gravel	4	1.1	17						
4		5								
417.3										
417.3	Medium, very moist, grey, Clay to Silty Clay A7-6	3	0.9	16						
3		4								
40		3								

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)

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG Page 2 of 2
Date 4/9/04

ROUTE IL 13 over Stream DESCRIPTION IL 13 over Stream LOGGED BY Bryan Keller

SECTION 1X-1 LOCATION 0.8 miles W of Marion, SEC. 15, TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD HAMMER TYPE

STRUCT. NO. 100-2007
Station 770+52.47

BORING NO. 1-S
Station 770+33
Offset 62 ft. 11.149 CL
Ground Surface Elev. 434.3 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DETERMINED	UNDETERMINED	MOISTURE (%)	SHRINKAGE (%)	WATER ELEV. (ft)	STREAM BED ELEV. (ft)	GROUNDWATER ELEV. (ft)	QUICKSAND	TESTS
0	Surface Water Elev. _____ ft									
0	Stream Bed Elev. _____ ft									
0	Groundwater Elev.: _____ ft									
0	First Encounter _____ ft									
0	Upon Completion _____ ft									
0	After 75 Hrs. _____ ft									
0	Ground Surface Elev. _____ ft									
0	Very stiff, moist, grey, Clay loam A-6 (continued)	8	3.0	12						
15		15								
371.8										
371.8	Hard, dry, grey, Clay Shale (continued)									
371.8	1002"									
Bottom of hole = 371.8										
Free water observed at 429.8										
389.8										
389.8	Stiff, moist, grey, Clay Loam A-6	2								
4		8	1.3	14						
7		7								
8										
384.8										
384.8	Medium, wet, brown, medium, Sand, with Clay Loam Layers 89% Sand 7% Silt 4% Clay	1								
4		4								
8		8								
381.8										
381.8	Hard, dry, grey, Clay Shale	1003"								
1004"										
80										

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)

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG Page 1 of 2
Date 4/9/04

ROUTE IL 13 over Stream DESCRIPTION IL 13 over Stream LOGGED BY Bryan Keller

SECTION 1X-1 LOCATION 0.8 miles W of Marion, SEC. 15, TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD HAMMER TYPE

STRUCT. NO. 100-2007
Station 770+52.47

BORING NO. 2-S
Station 770+26
Offset 63 ft. 11.149 CL
Ground Surface Elev. 434.19 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DETERMINED	UNDETERMINED	MOISTURE (%)	SHRINKAGE (%)	WATER ELEV. (ft)	STREAM BED ELEV. (ft)	GROUNDWATER ELEV. (ft)	QUICKSAND	TESTS
0	Surface Water Elev. _____ ft									
0	Stream Bed Elev. _____ ft									
0	Groundwater Elev.: _____ ft									
0	First Encounter _____ ft									
0	Upon Completion _____ ft									
0	After _____ Hrs. _____ ft									
0	Ground Surface Elev. _____ ft									
0	Very stiff, moist, grey, Silty Clay A7-6 (continued)	2	2.1	16						
4		4								
412.2										
412.2	Very stiff, moist, grey, Silty Clay A-6	1								
3		3	2.3	17						
4		4								
429.7										
429.7	Stiff, moist, brown mottled grey, Silty Clay Loam A-6	1								
1		1	1.2	21						
3		3								
409.7										
409.7	Very stiff, moist, grey, Clay Loam A-6	2								
2		2	1.5	22						
4		4								
424.7										
424.7	Medium, very moist, brown mottled grey, Silty Clay Loam A-6	2	0.7	22						
2		2								
422.2										
422.2	Soft, very moist, brown, Silty Clay Loam A-6	1								
3		3	0.3	19						
2		2								
419.7										
419.7	Stiff, very moist, grey, Clay A7-6	1								
2		2	1.1	29						
2		2								
399.7										
399.7	Stiff, very moist, grey, Silty Clay A-6 with Pea Gravel	2	1.2	17						
3		3								
397.2										
397.2	Stiff, very moist, grey, Silty Clay A-6 with Coal Chips	1								
3		3	1.8	22						
4		4								
416.7										
416.7	Hard, dry, grey, Clay Shale	1								
20		20								

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)

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG Page 2 of 2
Date 4/9/04

ROUTE IL 13 over Stream DESCRIPTION IL 13 over Stream LOGGED BY Bryan Keller

SECTION 1X-1 LOCATION 0.8 miles W of Marion, SEC. 15, TWP. 9S, RNG. 2E, 3 PM

COUNTY Williamson DRILLING METHOD HAMMER TYPE

STRUCT. NO. 100-2007
Station 770+52.47

BORING NO. 2-S
Station 770+26
Offset 63 ft. 11.149 CL
Ground Surface Elev. 434.19 ft (ft) (6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DETERMINED	UNDETERMINED	MOISTURE (%)	SHRINKAGE (%)	WATER ELEV. (ft)	STREAM BED ELEV. (ft)	GROUNDWATER ELEV. (ft)	QUICKSAND	TESTS
0	Surface Water Elev. _____ ft									
0	Stream Bed Elev. _____ ft									
0	Groundwater Elev.: _____ ft									
0	First Encounter _____ ft									
0	Upon Completion _____ ft									
0	After _____ Hrs. _____ ft									
0	Ground Surface Elev. _____ ft									
0	Very stiff, moist, grey, Clay A7-6 with Coal Chips (continued)	7	2.1	28						
8		8								
389.7										
389.7	Stiff, very moist, grey, Silty Clay A7-6	4								
5		5	1.4	21						
5		5								
384.7										
384.7	Hard, dry, grey, Clay Shale	1006"								
1006"										
Bottom of hole = 384.2										
Free water observed at 424.7										
To convert "N" values to "N60" values, multiply by 1.25										

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)

SOIL BORING LOGS
STRUCTURE NO. 100-2007

SHEET NO. 7 7 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	331	1X-1	WILLIAMSON	190	100
	CONTRACT NO. 78053				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

Rev.