

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation  
Division of Highways  
District Nine Materials

### SOIL BORING LOG

Page 1 of 4 Date 3900

SECTION (12-1)B-1 LOCATION Near WCL Carbondale, SEC., TWP. 9S, RNG. 1W, 3 PM

COUNTY Jackson DRILLING METHOD HAMMER TYPE

STRUCT. NO. 039-0016 (WB), 039-0017 (EB)  
Station 57+95.26

BORING NO. 1-S  
Station 57+48  
Offset 4.00ft S. CL median  
Ground Surface Elev. 404.9 ft

DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	TEST	VALUE
1	Very stiff, moist, brown, Silty Clay A-6				1	B
3					3	2.1 27
5					5	4 S
5						
400.90						
4	Stiff, moist, brown, Silty Clay A-6				2	
5					3	1.9 46
6					3	S
398.40						
3	Very stiff, moist, grey to brown, Silty Clay A-6				2	1.9 44
3					3	S
395.90						
3	Medium, moist, grey to brown, Silty Clay A-6				1	
3					2	1.4 45
3					3	S
393.40						
1	Soft, very moist, grey, Silty Clay A-6				WH	
1					1	1.1 58
2					1	B
370.90						
1	Stiff, very moist, grey, Silty Clay A-6				1	
2					2	1.4 31
1					2	B
368.40						
WH					WH	
1	Medium, very moist, grey, Silty Clay A-6				1	0.7 36
2					2	B
385.90						
WH					WH	
1	Medium, moist, brown mottled grey, Clay A7-6				1	0.6 38
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)  
BBS, form 137 (Rev. 8-99)

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DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	TEST	VALUE
1	Medium, very moist, grey, Silty Clay A-6 (continued)				1	17
1					1	
360.40						
1	Stiff, very moist, grey, Clay A7-6				2	1.1 40
2					3	0.7 19
3					9	B
359.90						
1	Medium, moist, grey, Clay A7-6 with Sand layers				6	
1					8	0.7 19
3					9	B
355.40						
1	Soft to medium, very moist, grey, Silty Clay Loam A-6				4	
1					5	1.1 26
2					6	B
350.40						
WH					WH	
1	Medium to stiff, very moist, grey, Clay to Silty Clay A7-6				2	
1					3	1.2 23
2					4	S
346.40						
WH					WH	
1	Washed 5' blow in very loose, very moist, grey, coarse Sand				5	
325.40						

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DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	TEST	VALUE
8	Medium, moist, grey, Silty Clay A7-6 with Sand layers (continued)				11	1.2 19
10					10	B
316.40						
9	Stiff, moist, grey, Silty Clay to Silty Clay Loam A-6 (continued)				3	
11					6	1.7 24
14					8	B
295.40						
9	Stiff, moist, grey, Clay to Silty Clay A7-6				3	
11					6	1.7 24
14					8	B
275.40						
10	Dense, moist, grey, Fine Silty Sand				10	
27					27	
28					28	
265.40						
9					9	

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DEPTH (ft)	SOIL DESCRIPTION	WATER	TEMPERATURE (°F)	PERCENTAGE (%)	TEST	VALUE
1	Very moist, Fine Silty Sand with Clay layers				1	24
1					1	24
263.90						
3%	Gravel					
70%	Sand					
17%	Silt					
10%	Clay					
Bottom of hole = 141.0 feet						
Free water observed at 60.0 feet						
Elevation referenced to USGS B 291, 1981 Elevation = 406.45'						
Washout Procedures used from 66.0 to 69.5 and 111.0 to 119.5 feet						
Note: To convert "N" values to "M00", multiply by 1.25						
275.40						
10					10	
150					150	
180					180	

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SOIL BORING LOGS  
F.A.P. ROUTE 331 - SEC. (12-1)B-1  
JACKSON COUNTY  
STATION 57+91.70  
STRUCTURE NO. 039-0071