



Illinois Department of Transportation
State of Illinois
DOT Logo

SOIL BORING LOG

Page 2 of 3

ROUTE FAP 42 (L 127) DESCRIPTION IL 127 over Bearcat Creek LOGGED BY M. Tamm Date 12/09

SECTION 106 (B-1) LOCATION SW 14 SEC 23 T2P 7N R10E 4W S 2M

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140# Auto

STUDY NO.	068-0058 In.	D	B	U	M	Surface Water Elev.	548.9 ft
Station	126+85	N	L	O	S	Stream Bed Elev. <td>548.9 ft</td>	548.9 ft
BORING NO.	3 N ARJY	T	W	S	Q _u	Groundwater Elev. <td></td>	
Station	126+85	H	S	Q _u	T	Final Recorder <td>547.5 ft</td>	547.5 ft
Offset	38.08 1/2'					Upon Completion <td>Washed ft</td>	Washed ft
Ground Surface Elev. <td>559.5 ft</td> <td>(3)</td> <td>4"</td> <td>(2d)</td> <td>(5)</td> <td>After</td> <td>547.5 ft</td>	559.5 ft	(3)	4"	(2d)	(5)	After	547.5 ft

Soil Description	Depth (ft)	Moisture (%)	Specific Gravity	Classification
Gray Dry Plastic Clayey SHALE (continued)	0 - 47	100	+10	SH
Boring Completed	47.00			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Delta, S-Shear, P-Plasticity, S-Settlement)
Abbreviations W.O.B. - Sampler Advanced By Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D 1586, from 127 (Rev. 5-98))



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BORING NO.	3 N ARJY	T	W	S	Q _u	Groundwater Elev. <td></td>	
Station	127+78	H	S	Q _u	T	Final Recorder <td>547.5 ft</td>	547.5 ft
Offset	38.08 1/2'					Upon Completion <td>Washed ft</td>	Washed ft
Ground Surface Elev. <td>559.7 ft</td> <td>(3)</td> <td>4"</td> <td>(2d)</td> <td>(5)</td> <td>After</td> <td>547.5 ft</td>	559.7 ft	(3)	4"	(2d)	(5)	After	547.5 ft

Soil Description	Depth (ft)	Moisture (%)	Specific Gravity	Classification
Dr. Gray Med. Silty CLAY LOAM (F10)	0 - 1	11	20	
Gray Med. Sandy GRAVEL Washed	1 - 1			
Gray V. Med. Silty CLAY Washed	1 - 0	6.3	24	
Gray Dirty Fine SAND Washed	1 - 1			
Gray Coarse SAND w/ coarse gravel and sand loam lenses	1 - 2			
Dr. Gray V. Med. Silty CLAY LOAM (F10)	1 - 1	6.8	20	
Gray and Olive Brown Med. CLAY LOAM (F10)	1 - 0	6.5	20	
Gray Dirty Coarse SAND Fine Water Wood in Sampler	1 - 4			
Gray Med. SAND	1 - 1			

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Station	126+85	N	L	O	S	Stream Bed Elev. <td>548.9 ft</td>	548.9 ft
BORING NO.	3 N ARJY	T	W	S	Q _u	Groundwater Elev. <td></td>	
Station	127+78	H	S	Q _u	T	Final Recorder <td>547.5 ft</td>	547.5 ft
Offset	38.08 1/2'					Upon Completion <td>Washed ft</td>	Washed ft
Ground Surface Elev. <td>559.7 ft</td> <td>(3)</td> <td>4"</td> <td>(2d)</td> <td>(5)</td> <td>After <td>547.5 ft</td> </td>	559.7 ft	(3)	4"	(2d)	(5)	After <td>547.5 ft</td>	547.5 ft

Soil Description	Depth (ft)	Moisture (%)	Specific Gravity	Classification
Gray and Olive Brown Med. CLAY LOAM (F10) (continued)	0 - 2			
Gray Med. CLAY LOAM (F10)	2 - 7	6.3	18	
	7 - 10			
	10 - 8	6.8	18	
	8 - 9			
w/ Gray Coarse Sand Lenses	9 - 10	4.8	18	
Gray Med. CLAY LOAM (F10)	10 - 1	4.0	14	

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COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140# Auto

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Station	126+85	N	L	O	S	Stream Bed Elev. <td>548.9 ft</td>	548.9 ft
BORING NO.	3 N ARJY	T	W	S	Q _u	Groundwater Elev. <td></td>	
Station	127+78	H	S	Q _u	T	Final Recorder <td>547.5 ft</td>	547.5 ft
Offset	38.08 1/2'					Upon Completion <td>Washed ft</td>	Washed ft
Ground Surface Elev. <td>559.7 ft</td> <td>(3)</td> <td>4"</td> <td>(2d)</td> <td>(5)</td> <td>After <td>547.5 ft</td> </td>	559.7 ft	(3)	4"	(2d)	(5)	After <td>547.5 ft</td>	547.5 ft

Soil Description	Depth (ft)	Moisture (%)	Specific Gravity	Classification
Blue Gray and Olive Brown Med. Silty CLAY Medium (continued)	0 - 15			
Gray Med. Clayey SHALE	15 - 100	+10	11	
	100 - 47			
Gray Dry Plastic Clayey SHALE	47 - 100	+10	10	
Boring Completed	100.00			
Blue Gray and Olive Brown Med. Silty CLAY Medium	100 - 1	4.7	11	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Delta, S-Shear, P-Plasticity, S-Settlement)
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 42 (L 127)	106 (B-1)	Montgomery	61	53
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT -	

SHEET NO. 20
20 SHEETS

Contract #72150

Aug-16-2007 11:24:09AM:1:24:09 AM \$FILEABBREV\$

Lin Engineering, Ltd.
Consulting Engineers
Chatham, Illinois

Designed By: RKM
Checked By: MTH
Date: 04/2007

Drawn By: AUF
File: 068-0506.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORINGS - 2
ILLINOIS ROUTE 127 OVER
BEARCAT CREEK
F.A.P. ROUTE 42 - SECTION 106 (B-1)
MONTGOMERY COUNTY
STA. 126+58.45
STRUCTURE NO. 068-0506