

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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Illinois Department of Transportation
Division of Highways
District 7 Materials

SOIL BORING LOG

ROUTE Old US 50 DESCRIPTION Elm River LOGGED BY E. Sandschafer
 SECTION 10B-1 LOCATION Sec 22 - NE 14, Sec 23 - NW 14, SEC., TWP. 3 N, RNG. 8 E, 3 PM
 COUNTY Clay DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 013-0026 D E L C O M Surface Water Elev. 432.22 ft D B U M
 Station 1037+48 P O S I Stream Bed Elev. 430.98 ft E L C O
 BORING NO. 2 T W S Qu T H S Qu T H S Qu T
 Station 1036+89 Groundwater Elev.: 421.5 ft H S Qu T
 Offset 5.00 ft Upon Completion Washed ft
 Ground Surface Elev. 443.46 ft After 24 Hrs. 433.0 ft

Depth (ft)	(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(%)
0	1	0.3	19	1	0.3	19	
0	2	B		2	B		
0	3	0.3	24	3	0.3	24	
0	3	B		3	B		
0	1	0.1	22	1	0.1	22	
0	1	B		1	B		
0	0			0			
0	5	0.1	18	5	0.1	18	
0	11	B		11	B		
0	0			0			
0	0	0.4	34	0	0.4	34	
0	0	B		0	B		
0	4			4			
0	6	4.5	13	6	4.5	13	
0	11	B		11	B		
0	4			4			
0	6	3.0	15	6	3.0	15	
0	11	B		11	B		
0	1			1			
0	2	0.8	26	2	0.8	26	
0	3	B		3	B		
0	1			1			
0	2	0.6	25	2	0.6	25	
0	3	B		3	B		
0	1			1			
0	2	0.7	22	2	0.7	22	
0	3	B		3	B		
0	0			0			
0	4			4			

4" asphalt over 10 1/2" concrete pavement. 442.3
 Soft, damp, brown, SILTY CLAY. 442.3
 Soft, damp, gray, SILTY LOAM. 438.6
 Very stiff, damp, gray, CLAY TILL. 416.0
 Stiff, damp, gray, SILTY CLAY. 434.0
 Medium, damp, gray, SILTY LOAM. 431.5
 Medium, damp, gray mottled red, CLAY LOAM. 426.4
 424.0

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)

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Depth (ft)	(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(%)
6	1.9	16		6	1.9	16	
9	B			9	B		
0	2			2			
0	3	1.1	25	3	1.1	25	
0	5	B		5	B		
0	2			2			
0	3	1.1	22	3	1.1	22	
0	4	B		4	B		
0	2			2			
0	3	1.1	22	3	1.1	22	
0	4	B		4	B		
0	0			0			

Very stiff, damp, gray, CLAY TILL. (continued)
 Medium, damp, gray, CLAY w/ trace silt. (continued)
 Medium, wet, gray, SAND w/ many wood fragments. 15% passing #200 sieve. 374.0
 384.0

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Depth (ft)	(ft)	(ft)	(%)	(ft)	(ft)	(ft)	(%)
6	0.7	23		6	0.7	23	
7	B			7	B		
0	2			2			
0	3	0.7	23	3	0.7	23	
0	3	B		3	B		
0	0			0			
0	2			2			
0	3	0.7	23	3	0.7	23	
0	3	B		3	B		
0	0			0			
0	12			12			
0	15			15			
0	12			12			
0	6			6			
0	10	3.5	15	10	3.5	15	
0	14	B		14	B		
0	6			6			
0	10	3.5	15	10	3.5	15	
0	14	B		14	B		
0	0			0			
0	3			3			

Medium, wet, gray, SAND w/ Gravel. (continued)
 Very dense, damp, gray, SANDSTONE. 359.0
 Extent of exploration. 356.8
 502"
 507"
 500"
 Benchmark: BM 200, RR spike in PP #6, SE of existing structure = 441.04', provided by Program Development.

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SOIL BORING LOGS
STRUCTURE NO. 013-0040

SHEET NO. 22	S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22 SHEETS	12	10B-1	CLAY	39	33A.
			CONTRACT NO. 74004		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					