Note: For location of boring see sheet 1 of 15.

PROJECT Proposed Bridge Replacement, Centerville Rd. over Beaver Creek, Boone Co., IL

CLIENT Boone County Highway Department, Belvidere, Illinois

BORING 1 DATE STARTED 12-17-12 DATE COMPLETED 12-18-12 JOB L-79,566

ELEVATIONS

GROUND SURFACE 869.0

END OF BORING 784.0

WATER LEVEL OBSERVATIONS

WHILE DRILLING Dry to 10'

AT END OF BORING N/A - wash boring

24 HOURS

SAMPLE NO.	TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	SS	4	7.4	0.25*	114			FILL - Brown and black sandy CLAY and clayey TOPSOIL, trace gravel, very moist (CL/OL)
						3.0	866.0	
2	SS	17	8.8					FILL - Brown silty SAND, trace gravel, moist (SM)
						5.5	863.5	
A 3 B	SS	9	7.3 27.7	1.75* 1.5*	125	6.5	862.5	FILL - Brown clayey SAND, little gravel, moist (SC)
						8.0	861.0	Black clayey TOPSOIL, moist (OL)
4	SS	3	31.0	0.5*				Soft gray silty CLAY, trace sand and organic, very moist (CL)
						10.5	858.5	
5	SS	2	57.0	<0.25*				Organic CLAY and silty SAND layers, trace peat, very moist to wet (OH/SM)
6	SS	5	54.8					Sample 6: with gravel and cobbles
						15.5	853.5	
7	SS	24						Firm gray silty SAND and GRAVEL, occasional Cobbles, wet (SM/GM)
A 8 B	SS	11	11.5	0.5*		19.5	849.5	
9	SS	10	10.2	0.91B				Soft to stiff gray sandy CLAY, little gravel, very moist (CL-ML)
						23.0	846.0	
10	SS	22	17.4	0.5*				Firm brownish-gray SILT, little fine sand, trace clay, very moist (ML)
						25.5	843.5	
11	SS	24						Firm brownish-gray silty fine SAND, wet (SM)
12	SS	25						
						33.0	836.0	
13	SS	13	14.5	2.15B				Very tough gray silty CLAY, little to some sand, trace gravel, numerous silt and sand seams, moist (CL)
						38.0	831.0	
14	SS	12	16.5	2.94B				Firm gray SILT and medium to fine SAND layers, wet (ML/SP)
						43.0	826.0	
15	SS	16						Firm gray SILT, little to some fine sand, trace clay, wet (ML)
16	SS	10						

End of Boring at 85.0'

DRILL RIG NO. 334

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC_EOB 79566.GPJ TSC_ALL.GDT 12/28/12

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PROJECT Proposed Bridge Replacement, Centerville Rd. over Beaver Creek, Boone Co., IL

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BORING 1 DATE STARTED 12-17-12 DATE COMPLETED 12-18-12 JOB L-79,566

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GROUND SURFACE 869.0

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WATER LEVEL OBSERVATIONS

WHILE DRILLING Dry to 10'

AT END OF BORING N/A - wash boring

24 HOURS

SAMPLE NO.	TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
17	SS	26						Firm gray SILT, little to some fine sand, trace clay, wet (ML)
						58.0	811.0	
18	SS	22	20.3					Firm gray SILT and clayey SILT layers, little fine sand, very moist to wet (ML)
19	SS	15	20.1					
20	SS	23	18.9					
						73.0	796.0	
21	SS	30	15.6	1.25*				Dense gray clayey SILT, little fine sand, moist (ML)
						78.0	791.0	
22	SS	16						Firm gray SILT, some fine sand, trace clay, wet (ML)
						83.0	786.0	
23	SS	24						Firm gray silty fine SAND, trace clay, wet (SM)

* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

CME-type Automatic Hammer used.

B = Bulge-type failure (Rimac test)

End of Boring at 85.0'

DRILL RIG NO. 334

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

TSC_EOB 79566.GPJ TSC_ALL.GDT 12/28/12

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FILE NAME = 12-540.BORING.dgn	USER NAME = rfitzenko	DESIGNED - J.A.M.	REVISED -
		CHECKED - A.R.K.	REVISED -
	PLOT SCALE = *SCALEL*	DRAWN - A.D.S.	REVISED -
	PLOT DATE = 3/23/2013	CHECKED -	REVISED -

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-002529

FREEPORT, IL ROCKFORD, IL ROCHELLE, IL SPRINGFIELD, IL MONROE, WI

SOIL BORING LOG #1

S.N. 004-3096

SHEET NO. 13 OF 15 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
33	12-08120-00-BR	BOONE	26	19

CONTRACT NO. 85589

ILLINOIS FED. AID PROJECT

*12-540