STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
GSG CONSULTANTS INC.

SOIL BORING LOG

Page 1 of 2

Date 3/24/10

ROUTE FAU 2917 DESCRIPTION Cottage Grove Over I-94 (Bishop Ford Freeway) LOGGED BY RJC

SECTION 066-1314-CF LOCATION South Pier (West Side), SEC. 10, TWP. 37N, RNG. 14E, 3rd PM, Latitude N41° 42' 48.38", Longitude W87° 36' 19.3"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 016-2119 (Existing)
Station 505+00.00

BORING NO. B-7
Station 504+53.0 (I-94)
Offset 10.10ft RT
Ground Surface Elev. 572.10 ft

Surface Water Elev. None ft
Stream Bed Elev. None ft

Groundwater Elev.:
First Encounter None ft
Upon Completion None ft
After ___ Hrs. None ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Brown, Dry
				SILTY CLAY LOAM (fill), trace gravel
	4			
570.10				
	5		15	
	6			
				Gray, Dry
				SILTY CLAY LOAM (fill), trace gravel
	5			
				6" Layer of Brown, Dry, SILTY
	6		13	CLAY LOAM (fill), trace gravel at 4'
567.60				
-5	6			Very Stiff to Hard
	5			Gray, Dry
				SILTY CLAY LOAM, trace gravel
	3			
	5	2.1	13	
	6	S		
	4			
	5	3.9	15	
-10	7	B		
	4			
	7	5.4	13	
	8	B		
	4			
	7	4.9	12	
-15	8	S		
	8			
	12	4.3	12	
	13	S		
553.60				
	7			Hard
	15	5.0	15	Gray, Dry to Moist
-20	17	P		SILT

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Hard
				Gray, Dry to Moist
				SILT *(continued)*
	10			
550.10				
	12	7.0	20	
	13	S		
				Hard to Very Hard
				Gray, Dry
				SILTY CLAY LOAM, trace gravel
	6			
	11	13.0	11	
	15	P		
-25				0.5" Lens of SAND at 24.5'
	10			2" Lens of SILT at 26'
	13	7.3	12	
	15	S		
	5			
	9	6.6	13	
-30	11	S		
	7			
538.60				
	15	5.0	15	Hard
	19	P		Gray, Dry
-35				SILT
	10			
533.60				
	17	6.4	11	Hard to Very Hard
	22	S		Gray, Dry
-40				SILTY CLAY LOAM, trace gravel

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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SOIL BORING LOG

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Date 3/24/10

ROUTE FAU 2917 DESCRIPTION Cottage Grove Over I-94 (Bishop Ford Freeway) LOGGED BY RJC

SECTION 066-1314-CF LOCATION South Pier (West Side), SEC. 10, TWP. 37N, RNG. 14E, 3rd PM, Latitude N41° 42' 48.38", Longitude W87° 36' 19.3"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 016-2119 (Existing)
Station 505+00.00

BORING NO. B-7
Station 504+53.0 (I-94)
Offset 10.10ft RT
Ground Surface Elev. 572.10 ft

Surface Water Elev. None ft
Stream Bed Elev. None ft

Groundwater Elev.:
First Encounter None ft
Upon Completion None ft
After ___ Hrs. None ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Hard to Very Hard
				Gray, Dry
				SILTY CLAY LOAM, trace gravel
				(continued)
	23			
				Cobble encountered at 44'
-45	48	10.0	8	
	53	P		
				Refusal at 46', Limestone Chips,
526.10				possible bedrock
	100/1"			End of Boring
			10	
-50				
-55				
-60				

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SOIL BORING LOG

Page 1 of 2

Date 4/8/10

ROUTE FAU 2917 DESCRIPTION Cottage Grove Over I-94 (Bishop Ford Freeway) LOGGED BY RJC

SECTION 066-1314-CF LOCATION North Abutment (West Side), SEC. 10, TWP. 37N, RNG. 14E, 3rd PM, Latitude N41° 42' 49.72", Longitude W87° 36' 18.58"

COUNTY Cook DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 016-2119 (Existing)
Station 505+00.00

BORING NO. B-8
Station 103+14.40 (Cottage Grove)
Offset 25.50ft LT
Ground Surface Elev. 594.10 ft

Surface Water Elev. None ft
Stream Bed Elev. None ft

Groundwater Elev.:
First Encounter None ft
Upon Completion None ft
After ___ Hrs. None ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				5" Asphalt Pavement, 9" Concrete
				Pavement, 6" Aggregate Base
	9			
592.43				
	9		4	Brown and Gray, Dry
	8			SAND, trace gravel, brick
				fragments
	3			
				Encountered cobble at 4.0'
589.40	6		8	
-5	5			Very Stiff
				Brown and Gray, Dry
				SILTY CLAY LOAM, trace gravel
	2			
	2	2.9	20	
	2	B		
585.60				
	1			Very Stiff to Very Hard
	2	3.0	18	Gray, Dry
-10	3	P		SILTY CLAY LOAM, trace gravel
				Dry Unit Weight=113.8 pcf
	2			
	3	3.8	18	
	6	B		
	3			Dry Unit Weight=112.5 pcf
	4	3.0	18	
-15	7	B		
	5			
	7	3.9	20	
	11	B		
	3			Dry Unit Weight=109.2 pcf
555.10				
-20	5	4.2	20	
	6	B		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Very Stiff to Very Hard
				Gray, Dry
				SILTY CLAY LOAM, trace gravel
				(continued)
	3			
	6	4.8	17	
	8	B		
	5			
	5	5.9	13	
-25	7	S		
	3			LL=23, PL=16, PI=7
	4	3.0	14	
	5	B		
	3			LL=23, PL=16, PI=7
	4	3.5	14	
-30	5	P		
	4			
	6	9.4	14	
	9	S		
	3			
	13			
	18	5.0	19	
-40	22	P		

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BBS, form 137 (Rev. 8-99)

DESIGNED	EV
CHECKED	PC
DRAWN	JCP
CHECKED	JPO

SOIL BORING LOG 5
STRUCTURE NO. 016-2119

EPSTEIN
600 WEST FULTON STREET
CHICAGO, ILLINOIS
60661-1259
TEL 312 454 9100
FAX 312 559 1217
WEB www.epsteinglobal.com

SHEET NO. S51
S52 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1314B-1	COOK	110	87
		CONTRACT NO. 60F65		
	ILLINOIS FED. AID PROJECT			