

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

Q# 63 off US 45 Over stream

Sheet 1 of 1

Route: US 45 Structure Number: 100-0058

Date: 8/15/2011

Section 34B-1

Bored By: R Moberly

County: Williamson

Location: 1 mile So of Stonefort

Checked By: Rob Graeff

Boring No	D	B	Qu	W%	Surf Wat Elev:	D	B	Qu	W%
Station	P	L	tsf		Ground Water Elevation	T	O	tsf	
Offset	T	W			when Drilling	H	S		
Ground Surface	H	S			At Completion				
1-5					413.8				
1+14					408.3				
CL driveway									
425.3 Ft									
Gravel					Clay A7-6 with Sandy layers			4	1.6B 22
								6	
Stiff, moist, brown and grey, Silty Clay Loam A-6					398.8				
					Cored 26.5 to 31.5 feet				
					100% Recovery; 80% RQD				
					Very dense, dry, grey, Sandstone				
					Test @ 5,870 psi				
420.8									
Medium, moist, brown mottled grey, Silty Clay Loam A-6					30.0				
					Test @ 4,517 psi				
					393.8				
Medium, very moist, grey, Silty Clay Loam to Silt Loam A-4					Cored 31.5 to 36.5 feet				
					100% Recovery; 100% RQD				
					Very dense, dry, grey, Sandstone				
					Test @ 5,236 psi				
415.8									
Soft, very moist, grey mottled brown, Silty Clay Loam A-6					35.0				
					Test @ 3,450 psi				
					388.8				
					Cored 36.5 to 41.5 feet				
					60% Recovery (bottom 2' lost through damaged keeper ring)				
					95% RQD				
					Very dense, dry, grey, Sandstone				
410.8					40.0				
Medium, very moist, brown and tan, Silty Clay Loam A-6					Test @ 3,818 psi				
					383.8				
Medium, very moist, grey and brown, Silty Clay A-6 with Sand seams					Bottom of hole = 41.5 feet				
					Free water observed at 17.0 feet				
405.8									
Very soft, very moist, olive brown, Sandy Clay Loam A-4					Elevation referenced to 1955 plans; center bridge= 426.2 feet				
					45.0				
					Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)				
403.3					To convert "N" values to "N60" multiply by 1.25				
Medium, moist to very moist, grey, Clay to Silty Clay A7-6									
400.8									
Stiff, moist, grey, Clay to Silty					50.0				

N-Std Penr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION  
District Nine Materials

Bridge Foundation  
Boring Log

Q# 63 off US 45 Over stream

Sheet 1 of 1

Route: US 45 Structure Number: 100-0058

Date: 8/16/2011

Section 34B-1

Bored By: R Moberly

County: Williamson

Location: 1 mile So of Stonefort

Checked By: R Graeff

Boring No	D	B	Qu	W%	Surf Wat Elev:	D	B	Qu	W%
Station	P	L	tsf		Ground Water Elevation	T	O	tsf	
Offset	T	W			when Drilling	H	S		
Ground Surface	H	S			At Completion				
2-8					413.8				
0+59					407.1				
CL driveway									
426.6 Ft									
Gravel					Silty Clay Loam A-6			2	1.2B 25
								3	
Medium, moist, brown and grey, Silty Clay Loam A-4					399.6				
					2				
					3	0.7S	19		
					2				
					397.6				
					422.1				
Medium, moist to very moist, brown mottled grey, Silty Clay Loam A-6					30.0				
					Test @ 5,738 psi				
					392.1				
Medium, very moist, grey, Silty Clay A-6 with Sandstone boulders					Cored 29.4 to 34.4 feet				
					97% Recovery; 85% RQD				
					Very dense, dry, grey, Sandstone				
					Test @ 5,086				
419.6									
Very soft, very moist, grey, Silty Clay A-6 with Sandstone boulders					35.0				
					Test @ 3,450 psi				
					388.8				
					Cored 34.4 to 39.4 feet				
					100% Recovery; 90% RQD				
					Very dense, dry, grey, Sandstone				
					Test @ 5,919 psi				
414.6									
Stiff, moist, brown mottled tan, Silty Clay Loam A-6					387.1				
					Test @ 4,992 psi				
					40.0				
					Cored 39.4 to 44.4 feet				
					100% Recovery; 87% RQD				
					Very dense, dry, grey, Sandstone with two Clay Shale layers				
					Test @ 5,779 psi				
					Bottom of hole = 44.4 feet				
409.6					382.1				
Medium, very moist, brown mottled grey, Silty Clay Loam A-6					45.0				
					Free water observed at 19.5 feet				
					Elevation referenced to 1955 plans; center bridge= 426.2 feet				
407.1									
Medium, very moist, grey mottled brown, Silty Clay A-6 with Sand layers					Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)				
					To convert "N" values to "N60" multiply by 1.25				
404.6									
Stiff, moist, grey mottled brown, Clay to Silty Clay A7-6									
402.1									
Stiff, moist, grey, Silty Clay to					50.0				

N-Std Penr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)



USER NAME =	DESIGNED - BPD	REVISED -
PLOT SCALE =	CHECKED - WLB	REVISED -
PLOT DATE	DRAWN - GLD	REVISED -
	CHECKED - DECEMBER 2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 044-0062

SHEET NO. 12 OF 12 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
163	34B-2	JOHNSON	37	24
CONTRACT NO. 78267			ILLINOIS FED. AID PROJECT	