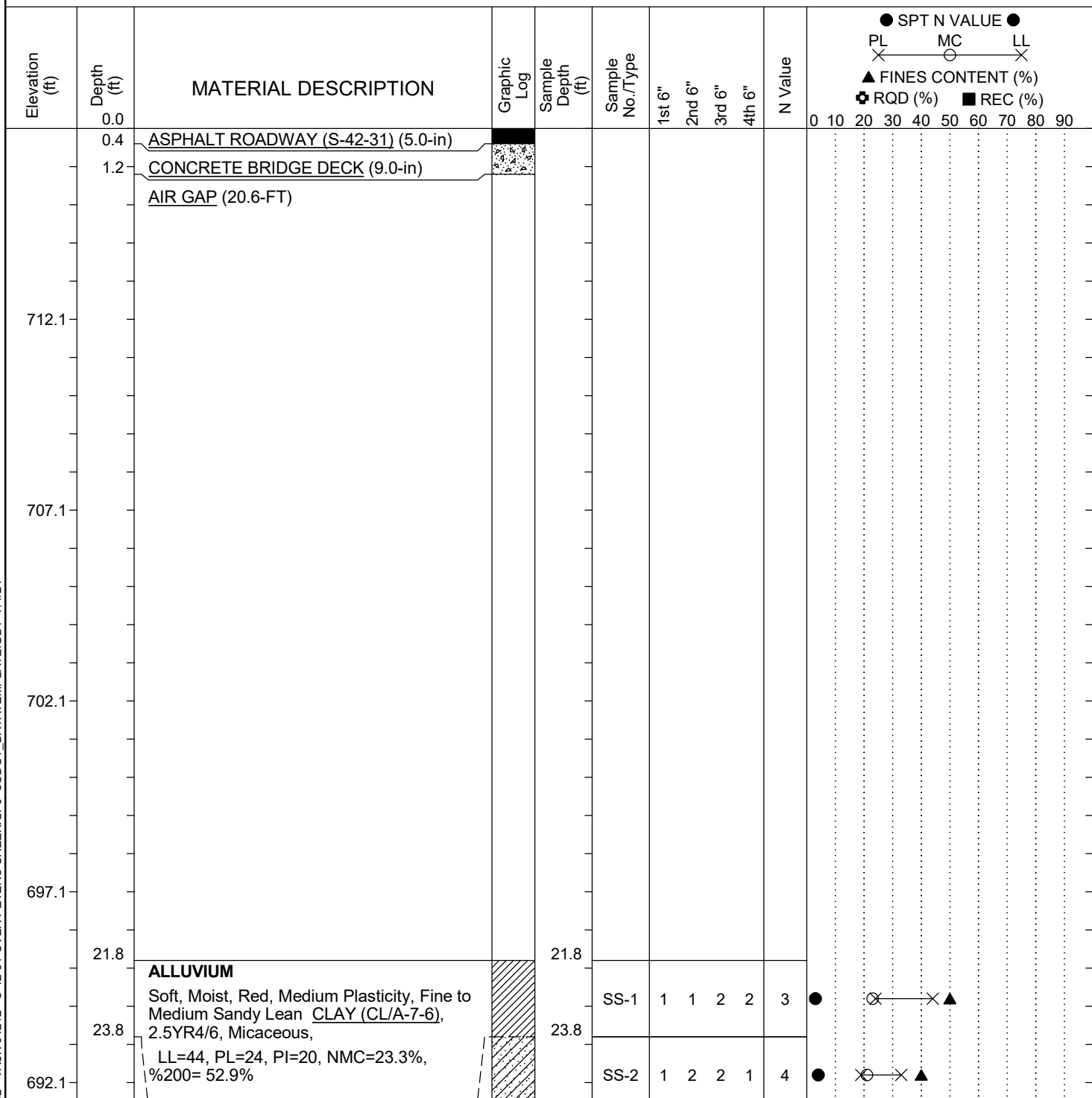


# SCDOT Soil Test Log

<b>Project ID:</b> E6950.002 - Task 04212				<b>County:</b> Spartanburg		<b>Boring No.:</b> B-1	
<b>Site Description:</b> S-42-31 over Peters Creek				<b>Route:</b> S-42-31			
<b>Eng./Geo.:</b> T. Peterson		<b>Boring Location:</b>		<b>Offset:</b>		<b>Alignment:</b>	
<b>Elev.:</b> 717.1 ft	<b>Latitude:</b> 34.99827268	<b>Longitude:</b> -81.87666846	<b>Date Started:</b> 6/5/2024				
<b>Total Depth:</b> 58.5 ft	<b>Soil Depth:</b> 6.7 ft	<b>Core Depth:</b> 25 ft	<b>Date Completed:</b> 6/5/2024				
<b>Bore Hole Diameter (in):</b> 3.0		<b>Sampler Configuration</b>		<b>Liner Required:</b> Y (N)	<b>Liner Used:</b> Y (N)		
<b>Drill Machine:</b> CME 45B		<b>Drill Method:</b> RW		<b>Hammer Type:</b> Automatic		<b>Energy Ratio:</b> 86.4%	
<b>Core Size:</b> NQ		<b>Driller:</b> D. Harris		<b>Groundwater:</b> TOB		Not Measured	<b>24HR</b> 33.3 (Cave at 59.2)



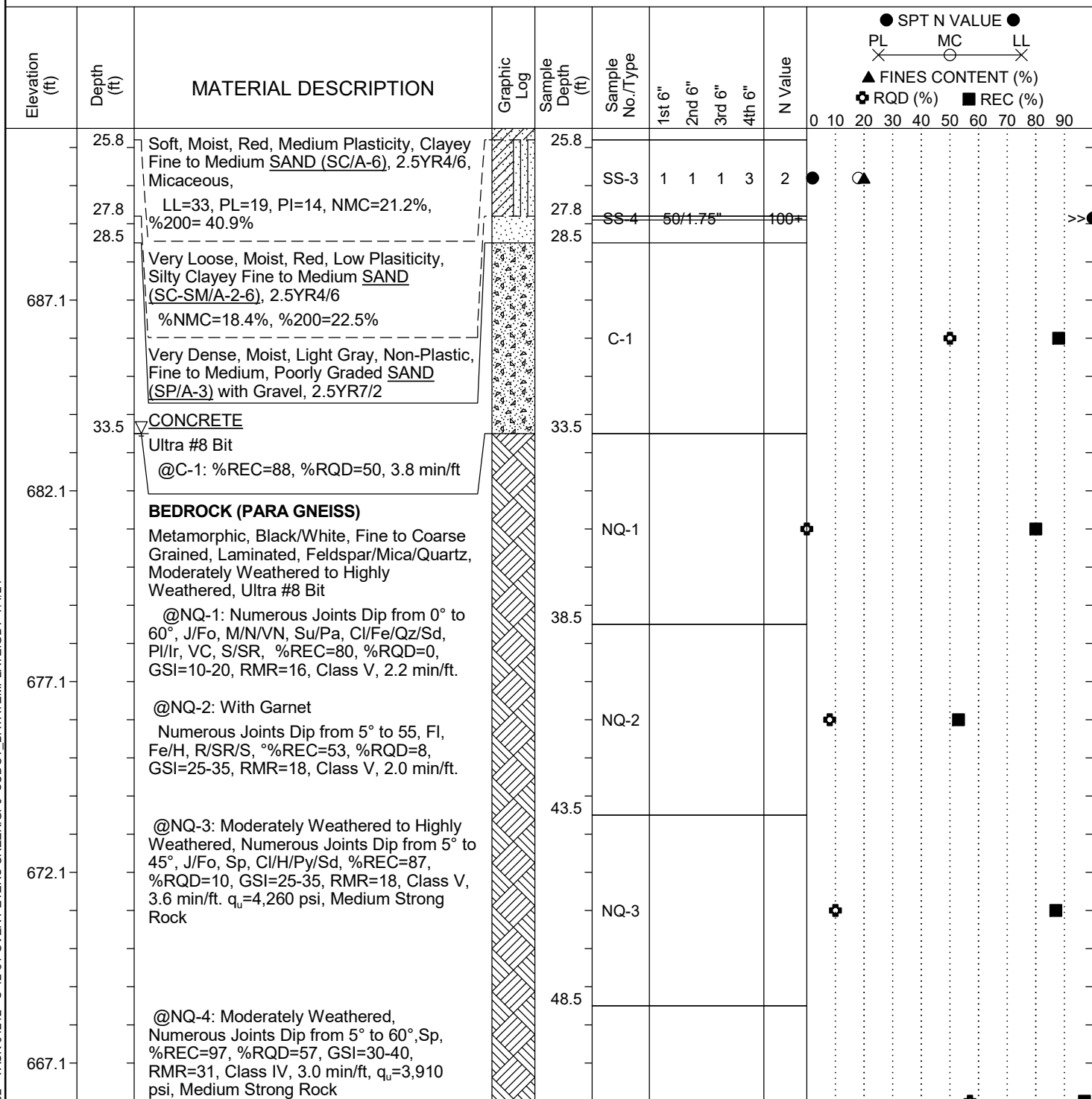
## LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

# SCDOT Soil Test Log

Project ID:	E6950.002 - Task 04212				County:	Spartanburg		Boring No.:	B-1					
Site Description:		S-42-31 over Peters Creek						Route:	S-42-31					
Eng./Geo.:		T. Peterson		Boring Location:				Offset:						
Elev.:	717.1 ft		Latitude:	34.99827268		Longitude:	-81.87666846		Date Started:	6/5/2024				
Total Depth:		58.5 ft		Soil Depth:	6.7 ft		Core Depth:	25 ft		Date Completed:	6/5/2024			
Bore Hole Diameter (in):			3.0		Sampler Configuration			Liner Required:	Y (N)		Liner Used:	Y (N)		
Drill Machine:		CME 45B		Drill Method:		RW		Hammer Type:	Automatic		Energy Ratio:	86.4%		
Core Size:		NQ		Driller:		D. Harris		Groundwater:	TOB	Not Measured		24HR	33.3 (Cave at 59.2)	



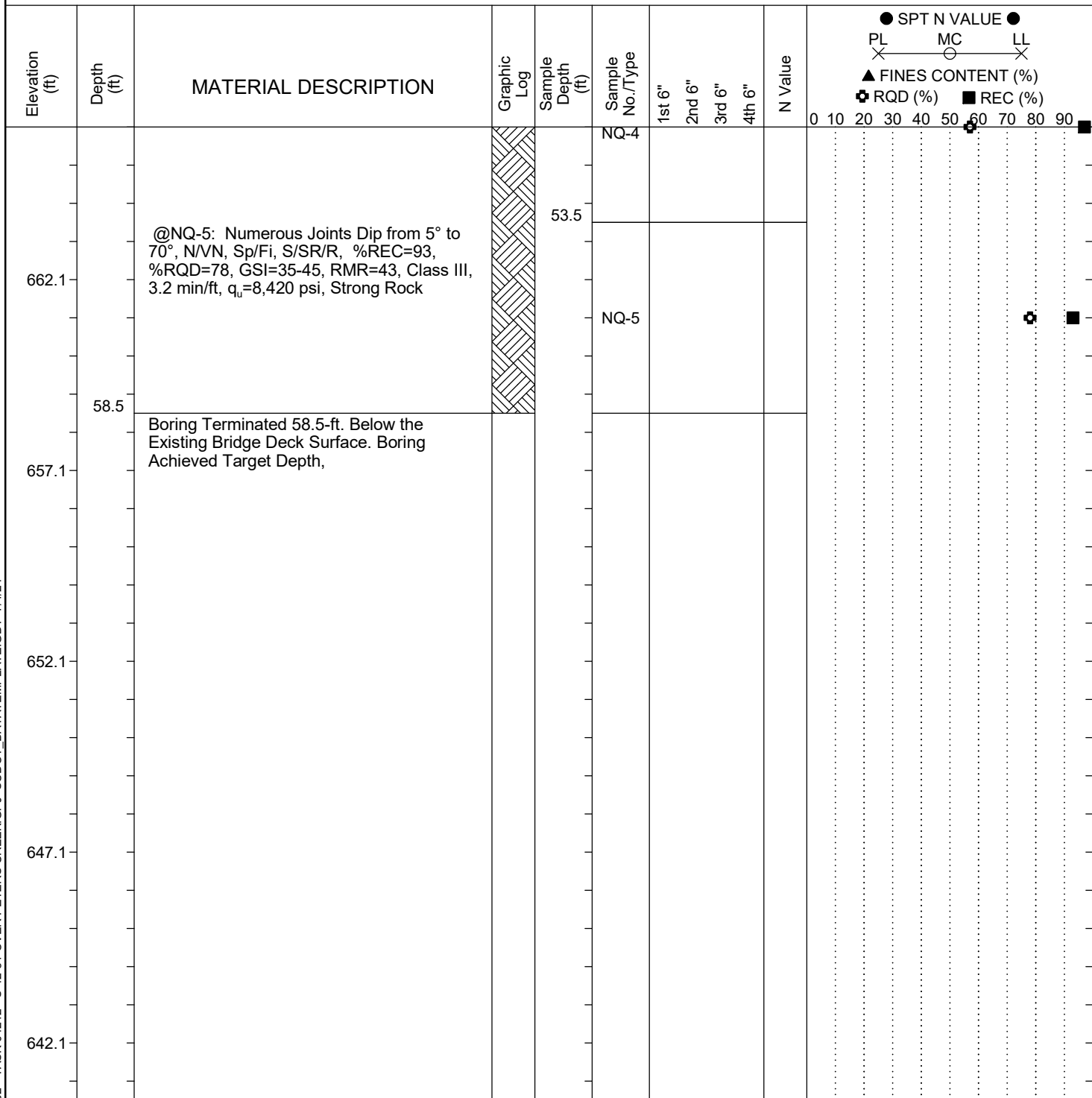
## LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

# SCDOT Soil Test Log

Project ID:	E6950.002 - Task 04212					County:	Spartanburg			Boring No.:	B-1				
Site Description:		S-42-31 over Peters Creek								Route:	S-42-31				
Eng./Geo.:	T. Peterson			Boring Location:					Offset:			Alignment:			
Elev.:	717.1 ft		Latitude:		34.99827268		Longitude:		-81.87666846		Date Started:		6/5/2024		
Total Depth:		58.5 ft		Soil Depth:		6.7 ft		Core Depth:		25 ft		Date Completed:		6/5/2024	
Bore Hole Diameter (in):			3.0		Sampler Configuration			Liner Required:		Y (N)		Liner Used:		Y (N)	
Drill Machine:		CME 45B		Drill Method:		RW		Hammer Type:		Automatic		Energy Ratio:		86.4%	
Core Size:		NQ		Driller:		D. Harris		Groundwater:		TOB		Not Measured		24HR 33.3 (Cave at 59.2)	



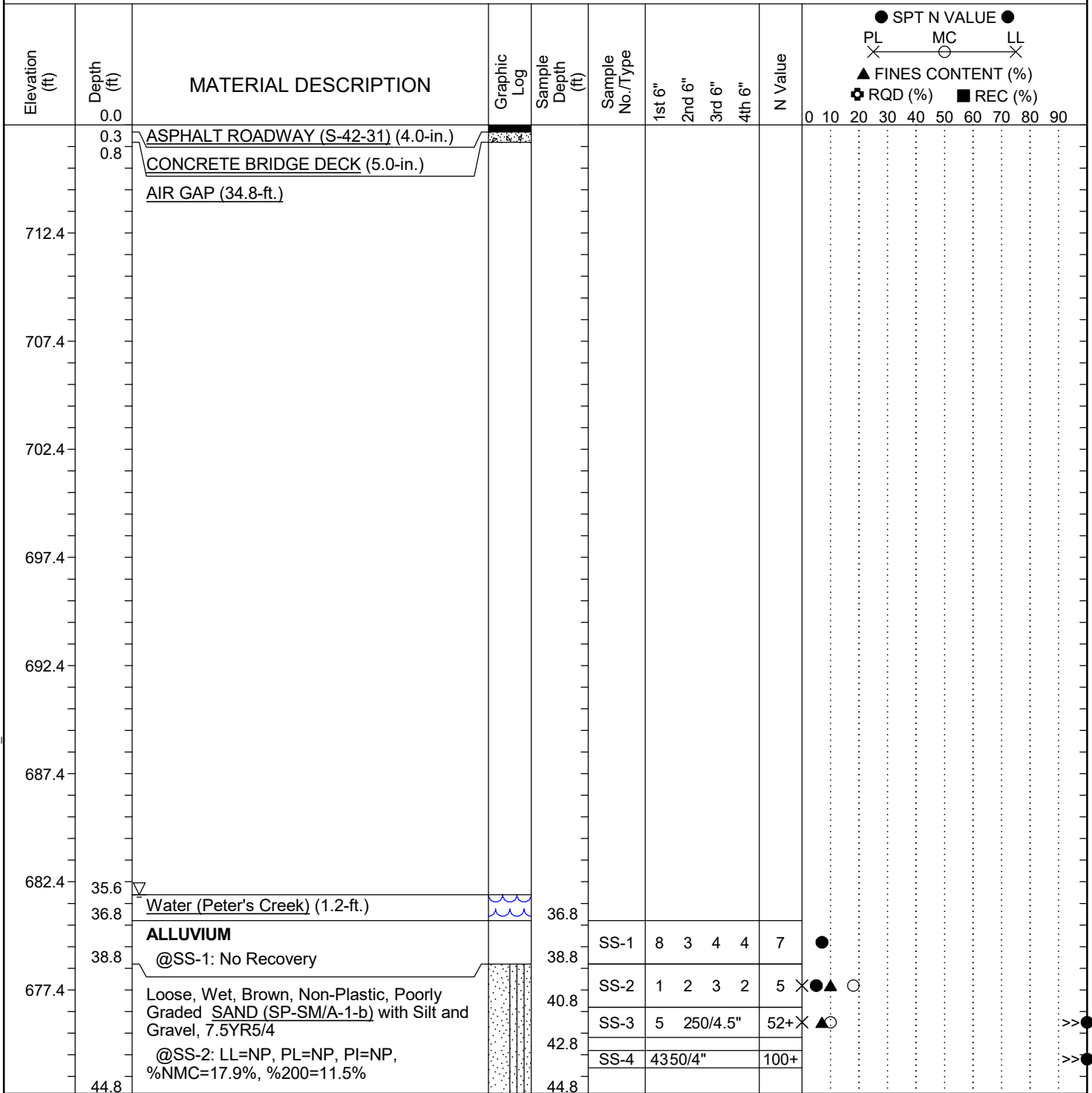
## LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SC.DOT E6950.002 - TASK 04212 - S-42-31 OVER PETERS CREEK.GPJ SCDOT DATATEMPLATE.GDT 7/1/24

# SCDOT Soil Test Log

Project ID: E6950.002 - Task 04212				County: Spartanburg		Boring No.: B-2		
Site Description:		S-42-31 over Peters Creek					Route: S-42-31	
Eng./Geo.: T. Peterson		Boring Location:		Offset:		Alignment:		
Elev.:	717.4 ft	Latitude:	34.99820842	Longitude:	-81.87669914	Date Started:	6/6/2024	
Total Depth:	66.4 ft	Soil Depth:	10.1 ft	Core Depth:	20 ft	Date Completed:	6/6/2024	
Bore Hole Diameter (in):		3.0	Sampler Configuration		Liner Required:	Y (N)	Liner Used:	Y (N)
Drill Machine:	CME 45B	Drill Method:	RW	Hammer Type:	Automatic	Energy Ratio:	86.4%	
Core Size:	NQ	Driller:	D. Harris	Groundwater:	TOB	35.6 ft	24HR	35.6 ft



## LEGEND

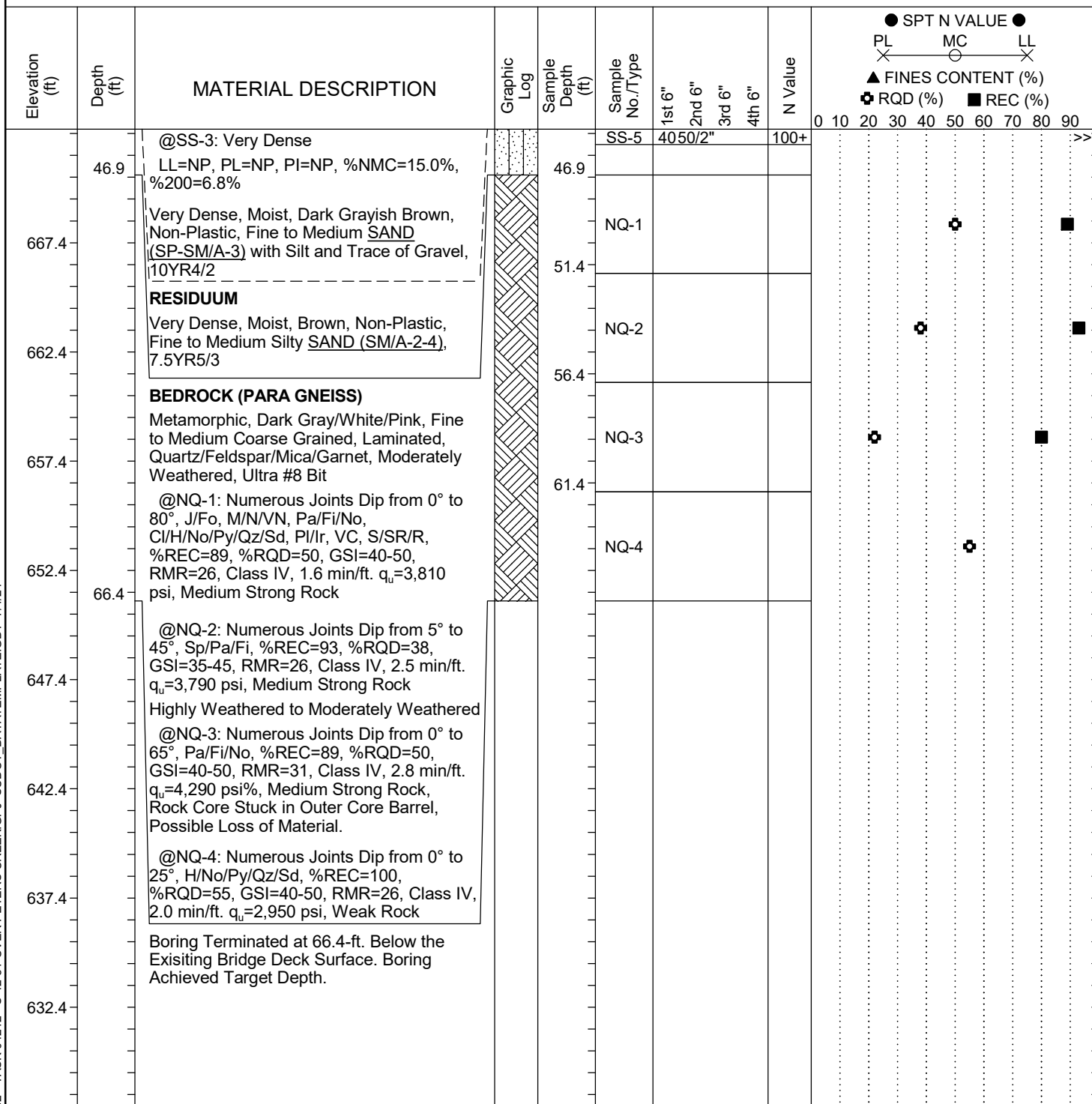
Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SC.DOT E6950.002 - TASK 04212 - S-42-31 OVER PETERS CREEK.GPJ SCDOT DATATEMPLATE.GDT 7/1/24

# SCDOT Soil Test Log

Project ID:	E6950.002 - Task 04212				County:	Spartanburg		Boring No.:	B-2				
Site Description:		S-42-31 over Peters Creek						Route:	S-42-31				
Eng./Geo.:		T. Peterson		Boring Location:				Offset:					
Alignment:													
Elev.:	717.4 ft		Latitude:	34.99820842		Longitude:	-81.87669914		Date Started:	6/6/2024			
Total Depth:	66.4 ft		Soil Depth:	10.1 ft		Core Depth:	20 ft		Date Completed:	6/6/2024			
Bore Hole Diameter (in):			3.0		Sampler Configuration		Liner Required:	Y (N)		Liner Used:	Y (N)		
Drill Machine:		CME 45B		Drill Method:		RW		Hammer Type:	Automatic		Energy Ratio:	86.4%	
Core Size:		NQ		Driller:		D. Harris		Groundwater:	TOB	35.6 ft		24HR	35.6 ft



## LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SC.DOT E6950.002 - TASK 04212 - S-42-31 OVER PETERS CREEK.GPJ SCDOT\_DATATEMPLATE.GDT 7/1/24

# SCDOT Soil Test Log

Project ID: E6950.002 - Task 04212				County: Spartanburg		Boring No.: B-3				
Site Description:		S-42-31 over Peters Creek					Route:	S-42-31		
Eng./Geo.: Trey Peterson		Boring Location:		Offset:		Alignment:				
Elev.:	717.9 ft	Latitude:	34.99815213	Longitude:	-81.87672185	Date Started:		6/6/2024		
Total Depth:		62.8 ft	Soil Depth:	8.2 ft	Core Depth:	31.9 ft	Date Completed:		6/7/2024	
Bore Hole Diameter (in):		3.0	Sampler Configuration		Liner Required:		Y (N)	Liner Used:	Y (N)	
Drill Machine:		CME 45B	Drill Method:		RW	Hammer Type:		Automatic	Energy Ratio:	86.4%
Core Size:		NQ	Driller:	Don Harris		Groundwater:	TOB	36.7 (Cave at 52)	24HR	Not Measured

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	● SPT N VALUE ● PL X MC LL X ▲ FINES CONTENT (%) + RQD (%) ■ REC (%)
	0.0										0 10 20 30 40 50 60 70 80 90
	0.6	ASPHALT ROADWAY (S-42-31) (4.0-in.)									
	1.3	CONCRETE BRIDGE DECK (5.0-in.)									
		AIRGAP (21.4-ft.)									
712.9											
707.9											
702.9											
697.9											
	22.7	ALLUVIUM		22.7							
		Very Loose, Moist, Reddish Brown, Low Plasticity, Silty Fine to Medium SAND (SM/A-2-4), 5YR5/3			SS-1	1	1	2	2	3	● ○ X X ▲
692.9		LL=33, PL=27, PI=6, %NMC=16.0%, %200=35%		24.7	SS-2	2	1	2	2	3	● ○ ▲

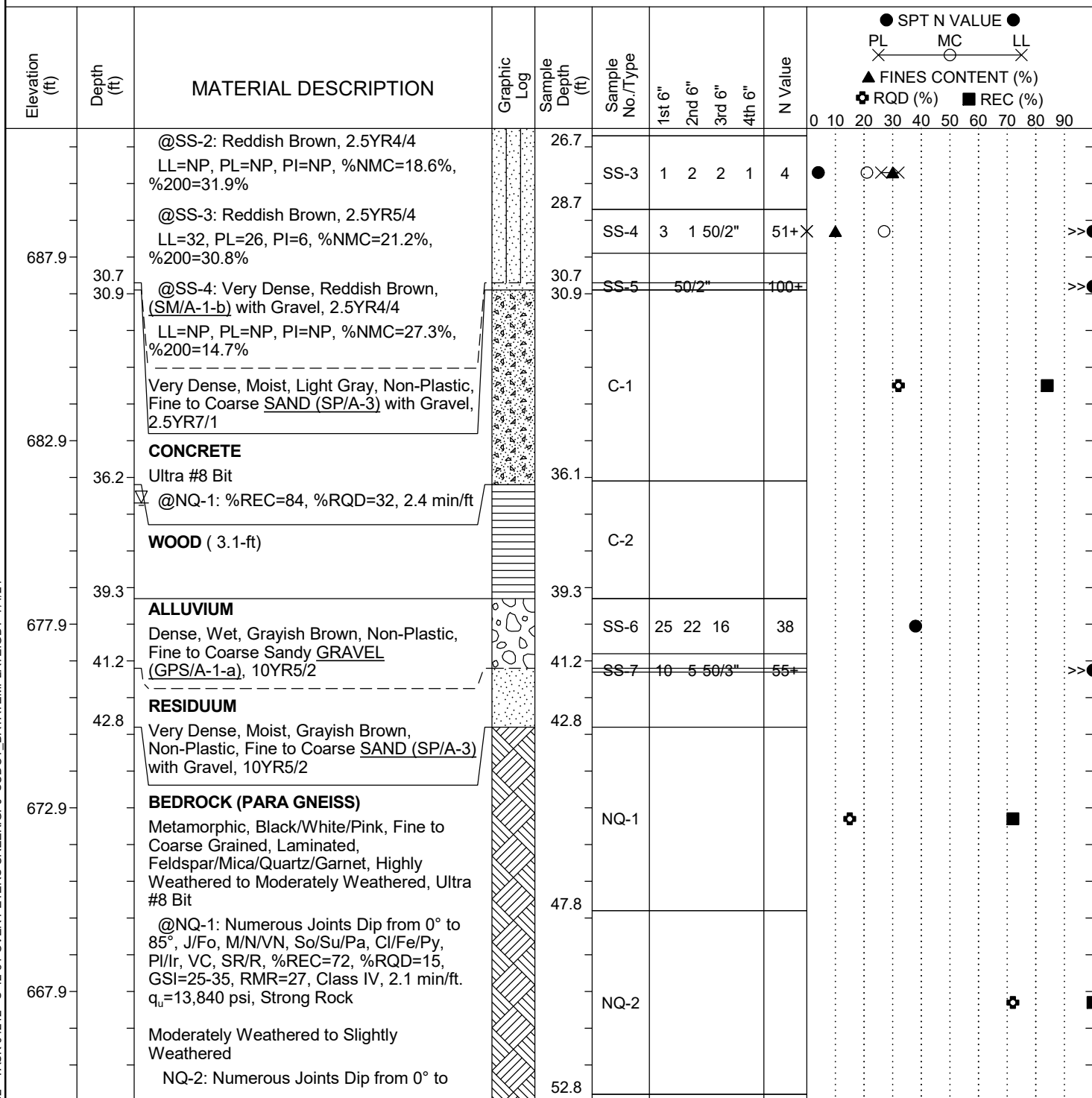
## LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

# SCDOT Soil Test Log

<b>Project ID:</b>	E6950.002 - Task 04212			<b>County:</b>	Spartanburg	<b>Boring No.:</b>	B-3
<b>Site Description:</b>	S-42-31 over Peters Creek					<b>Route:</b>	S-42-31
<b>Eng./Geo.:</b>	Trey Peterson		<b>Boring Location:</b>			<b>Alignment:</b>	
<b>Elev.:</b>	717.9 ft	<b>Latitude:</b>	34.99815213	<b>Longitude:</b>	-81.87672185	<b>Date Started:</b>	6/6/2024
<b>Total Depth:</b>	62.8 ft	<b>Soil Depth:</b>	8.2 ft	<b>Core Depth:</b>	31.9 ft	<b>Date Completed:</b>	6/7/2024
<b>Bore Hole Diameter (in):</b>	3.0	<b>Sampler Configuration</b>			<b>Liner Required:</b>	Y (N)	<b>Liner Used:</b> Y (N)
<b>Drill Machine:</b>	CME 45B	<b>Drill Method:</b>	RW	<b>Hammer Type:</b>	Automatic	<b>Energy Ratio:</b>	86.4%
<b>Core Size:</b>	NQ	<b>Driller:</b>	Don Harris	<b>Groundwater:</b>	TOB	36.7 (Cave at 52)	<b>24HR</b> Not Measured



## LEGEND

Continued Next Page

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
UD - Undisturbed Sample	CU - Cuttings	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	DC - Driving Casing	

SC.DOT E6950.002 - TASK 04212 - S-42-31 OVER PETERS CREEK.GPJ SCDOT DATATEMPLATE.GDT 7/1/24

# SCDOT Soil Test Log

Project ID:	E6950.002 - Task 04212				County:	Spartanburg		Boring No.:	B-3		
Site Description:		S-42-31 over Peters Creek						Route:	S-42-31		
Eng./Geo.:		Trey Peterson		Boring Location:		Offset:		Alignment:			
Elev.:	717.9 ft		Latitude:		34.99815213		Longitude:		-81.87672185		
Date Started:		6/6/2024									
Total Depth:		62.8 ft		Soil Depth:		8.2 ft		Core Depth:		31.9 ft	
Date Completed:		6/7/2024									
Bore Hole Diameter (in):			3.0		Sampler Configuration			Liner Required:		Y (N)	
Liner Used:			Y (N)								
Drill Machine:		CME 45B		Drill Method:		RW		Hammer Type:		Automatic	
Energy Ratio:		86.4%									
Core Size:		NQ		Driller:		Don Harris		Groundwater:		TOB 36.7 (Cave at 52)	
24HR		Not Measured									

Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	4th 6"	N Value	<div> <div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div> <div> ⊕ RQD (%) ■ REC (%) </div> </div>
662.9		75°, Su/Sp/Fi/No, Fe/H/No/Py/Qz, R/SR/S, %REC=100, %RQD=72, GSI=40-50, RMR=39, Class IV, 2.6 min/ft. $q_u=4,540$ psi, Medium Strong Rock Moderately Weathered NQ-3: Numerous Joints Dip from 0° to 70°, Sp, No/Py/Qz/Sd, %REC=95, %RQD=62, GSI=30-40, RMR=39, Class IV, 2.4 min/ft. $q_u=6,940$ psi, Medium Strong Rock		57.8	NQ-3						<div> <div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div> <div> ⊕ RQD (%) ■ REC (%) </div> </div>
657.9		NQ-4: Numerous Joints Dip from 0° to 25°, %REC=100, %RQD=80, GSI=30-40, RMR=43, Class III, 2.8 min/ft. $q_u=4,980$ , Medium Strong Rock			NQ-4						<div> <div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div> <div> ⊕ RQD (%) ■ REC (%) </div> </div>
62.8		Boring Terminated at 62.8-ft. Below the Existing Bridge Deck Surface. Boring Achieved Target Depth.									<div> <div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div> <div> ⊕ RQD (%) ■ REC (%) </div> </div>
652.9											<div> <div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div> <div> ⊕ RQD (%) ■ REC (%) </div> </div>
647.9											<div> <div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div> <div> ⊕ RQD (%) ■ REC (%) </div> </div>
642.9											<div> <div> ● SPT N VALUE ● </div> <div> PL X MC O LL X </div> <div> ▲ FINES CONTENT (%) </div> <div> ⊕ RQD (%) ■ REC (%) </div> </div>

## LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS	- Split Spoon	HSA	- Hollow Stem Auger
UD	- Undisturbed Sample	CFA	- Continuous Flight Augers
AWG	- Rock Core, 1-1/8"	DC	- Driving Casing
NQ	- Rock Core, 1-7/8"	RW	- Rotary Wash
CU	- Cuttings	RC	- Rock Core
CT	- Continuous Tube		

SC.DOT E6950.002 - TASK 04212 - S-42-31 OVER PETERS CREEK.GPJ SCDOT\_DATATEMPLATE.GDT 7/1/24