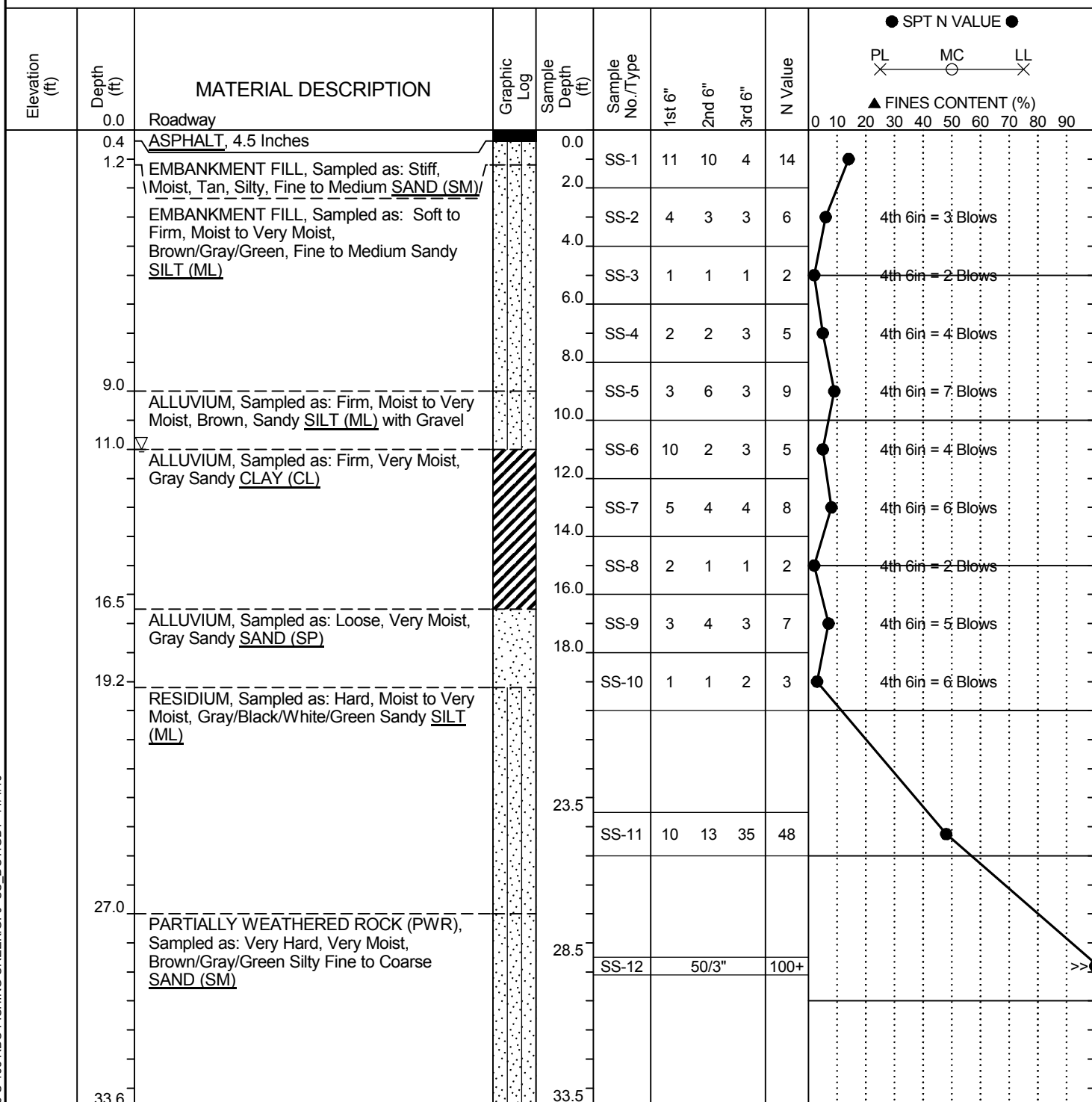


SCDOT Soil Test Boring Log

File No.:	46.169B.1	Project No. (PIN):	31919	County:	York	Eng./Geo.:	JR Wessinger
Site Description:	S-103 RBO Fishing Creek					Route:	
Boring No.:	B-1	Boring Location:	59+92	Offset:	7 Ft LCL	Alignment:	New
Elev.:	ft	Latitude:		Longitude:		Date Started:	10/12/2010
Total Depth:	54.6 ft	Soil Depth:	33.6 ft	Core Depth:	21.0 ft	Date Completed:	10/12/2010
Bore Hole Diameter (in):	4	Sampler Configuration		Liner Required:	Y (N)	Liner Used:	Y (N)
Drill Machine:	CME 55	Drill Method:	RW/RC	Hammer Type:	Automatic	Energy Ratio:	74%
Core Size:	NQ	Driller:	Don Harris	Groundwater:	TOB	11.0 ft	24HR



LEGEND

Continued Next Page

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

SCDOT Soil Test Boring Log

File No.:	46.169B.1	Project No. (PIN):	31919	County:	York	Eng./Geo.:	JR Wessinger
Site Description:	S-103 RBO Fishing Creek					Route:	
Boring No.:	B-1	Boring Location:	59+92	Offset:	7 Ft LCL	Alignment:	New
Elev.:	ft	Latitude:		Longitude:		Date Started:	10/12/2010
Total Depth:	54.6 ft	Soil Depth:	33.6 ft	Core Depth:	21.0 ft	Date Completed:	10/12/2010
Bore Hole Diameter (in):	4	Sampler Configuration		Liner Required:	Y (N)	Liner Used:	Y (N)
Drill Machine:	CME 55	Drill Method:	RW/RC	Hammer Type:	Automatic	Energy Ratio:	74%
Core Size:	NQ	Driller:	Don Harris	Groundwater:	TOB	11.0 ft	24HR

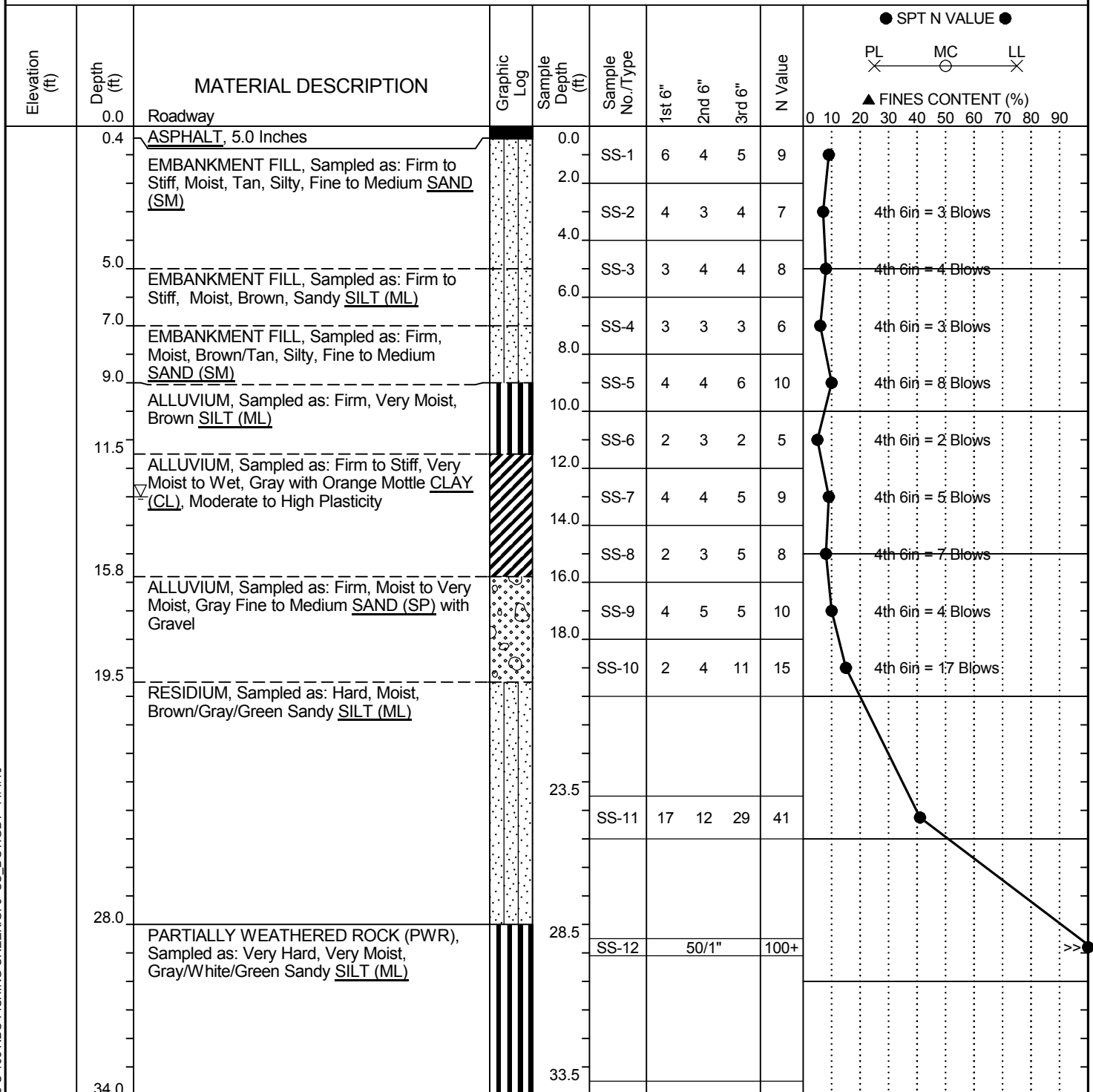
Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value	<div> ● SPT N VALUE ● </div> <div> PL MC LL </div> <div> ▲ FINES CONTENT (%) </div>
	34.6	GABBRO, Black and Green, Coarse Grained, Slightly to Highly Weathered, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=66.6, %RQD=0		33.6	SS-13	50/0.5"			100+	
	34.6			34.6	NQ-1					
	39.6	GABBRO, Black and Green, Coarse Grained, Slightly to Moderately Weathered, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=90.0, %RQD=51.7		39.6	NQ-2					
	44.6	GABBRO, Black and Green, Coarse Grained, Slightly Weathered to Fresh, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=90.0, %RQD=85.0		44.6	NQ-3					
	49.6	GABBRO, Black and Green, Coarse Grained, Fresh, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=98.3, %RQD=75.0		49.6	NQ-4					
	54.6	GABBRO, Black and Green, Coarse Grained, Fresh, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=99.2, %RQD=95.0			NQ-5					
	54.6	Boring Terminated at 54.6 feet								

LEGEND

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

SCDOT Soil Test Boring Log

File No.:	46.169B.1	Project No. (PIN):	31919	County:	York	Eng./Geo.:	JR Wessinger
Site Description:	S-103 RBO Fishing Creek					Route:	
Boring No.:	B-2	Boring Location:	59+92	Offset:	7 Ft RCL	Alignment:	New
Elev.:	ft	Latitude:		Longitude:		Date Started:	10/11/2010
Total Depth:	55.2 ft	Soil Depth:	34.0 ft	Core Depth:	21.2 ft	Date Completed:	10/11/2010
Bore Hole Diameter (in):	4	Sampler Configuration		Liner Required:	Y (N)	Liner Used:	Y (N)
Drill Machine:	CME 55	Drill Method:	RW/RC	Hammer Type:	Automatic	Energy Ratio:	74%
Core Size:	NQ	Driller:	Don Harris	Groundwater:	TOB	13.0 ft	24HR



LEGEND

Continued Next Page

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

SCDOT Soil Test Boring Log

File No.:	46.169B.1	Project No. (PIN):	31919	County:	York	Eng./Geo.:	JR Wessinger
Site Description:	S-103 RBO Fishing Creek					Route:	
Boring No.:	B-2	Boring Location:	59+92	Offset:	7 Ft RCL	Alignment:	New
Elev.:	ft	Latitude:		Longitude:		Date Started:	10/11/2010
Total Depth:	55.2 ft	Soil Depth:	34.0 ft	Core Depth:	21.2 ft	Date Completed:	10/11/2010
Bore Hole Diameter (in):	4	Sampler Configuration		Liner Required:	Y (N)	Liner Used:	Y (N)
Drill Machine:	CME 55	Drill Method:	RW/RC	Hammer Type:	Automatic	Energy Ratio:	74%
Core Size:	NQ	Driller:	Don Harris	Groundwater:	TOB	13.0 ft	24HR

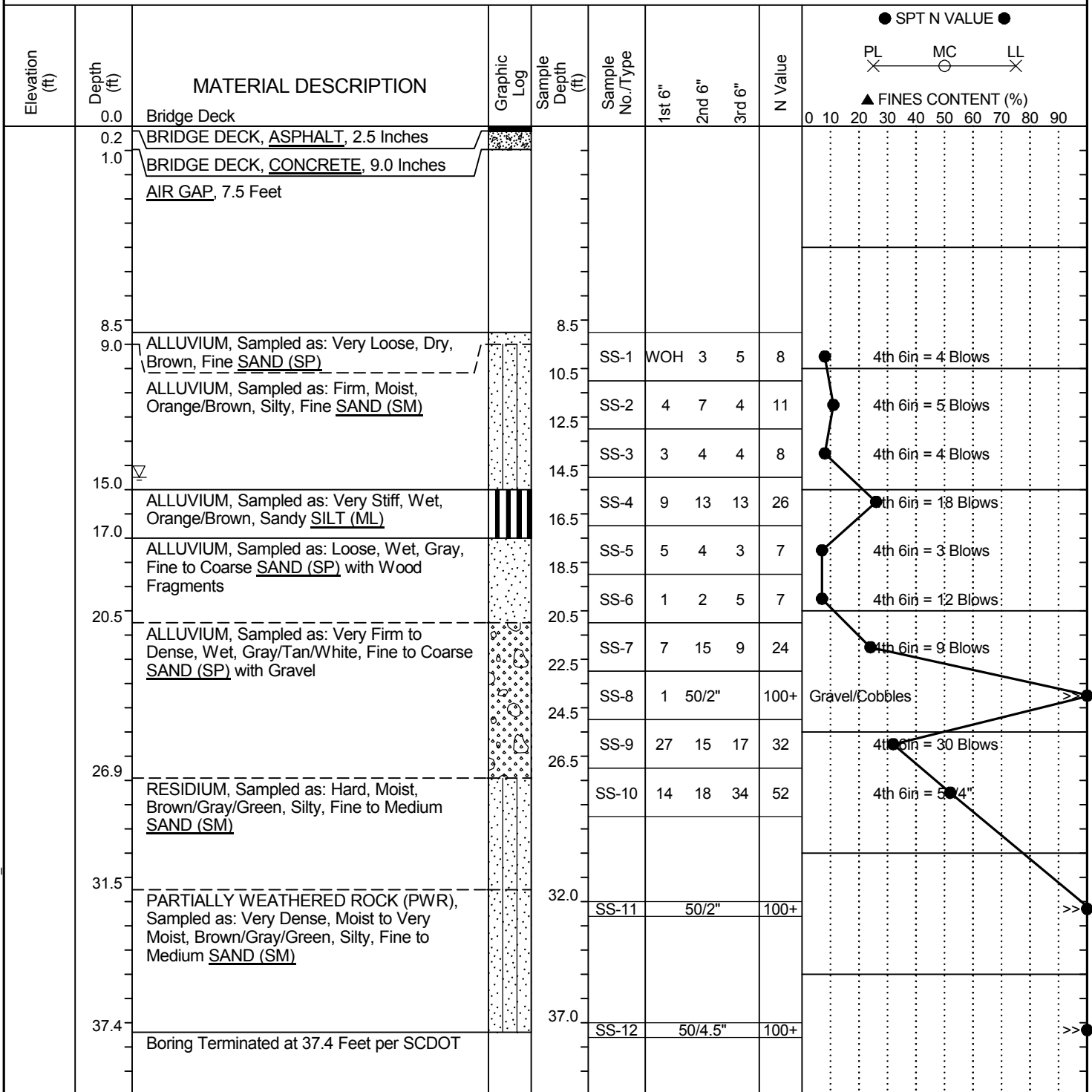
Elevation (ft)	Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value	<div> ● SPT N VALUE ● </div> <div> PL MC LL </div> <div> ▲ FINES CONTENT (%) </div>
	35.2	GABBRO, Black and Green, Coarse Grained, Moderately to Highly Weathered, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=89.3, %RQD=53.6		34.0	SS-13	50/4"				
	35.2			35.2	NQ-1					
	40.2	GABBRO, Black and Green, Coarse Grained, Moderately Weathered, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=93.3, %RQD=62.5		40.2	NQ-2					
	45.2	GABBRO, Black and Green, Coarse Grained, Slightly to Moderately Weathered, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=93.3, %RQD=83.3		45.2	NQ-3					
	45.2	Losing Water at 41.0 to 41.3 Feet		45.2						
	50.2	GABBRO, Black and Green, Coarse Grained, Slightly Weathered to Fresh, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=100, %RQD=100		50.2	NQ-4					
	50.2	GABBRO, Black and Green, Coarse Grained, Fresh, Strong to to Very Strong, with Few, Very Close, Tight Joints, %REC=90.8, %RQD=90.8		50.2	NQ-5					
	55.2	Boring Terminated at 55.2 feet								

LEGEND

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

SCDOT Soil Test Boring Log

File No.:	46.169B.1	Project No. (PIN):	31919	County:	York	Eng./Geo.:	JR Wessinger
Site Description:	S-103 RBO Fishing Creek					Route:	
Boring No.:	B-4	Boring Location:	60+82	Offset:	7 Ft RCL	Alignment:	New
Elev.:	ft	Latitude:		Longitude:		Date Started:	10/12/2010
Total Depth:	28.9 ft	Soil Depth:	28.9 ft	Core Depth:	0 ft	Date Completed:	
Bore Hole Diameter (in):	4	Sampler Configuration		Liner Required:	Y (N)	Liner Used:	Y (N)
Drill Machine:	CME 55	Drill Method:	RW/RC	Hammer Type:	Automatic	Energy Ratio:	74%
Core Size:		Driller:	Don Harris	Groundwater:	TOB	14.5 ft	24HR



LEGEND

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

SC.DOT G4800.29 S-103 RBO FISHING CREEK.GPJ SC_DOT.GDT 11/4/10