

ASTM D2216 WATER CONTENT OF SOIL AND ROCK

Report Number: HN251197.1005
Service Date: 09/22/25
Report Date: 09/23/25
Task: Asphalt Evaluation



514 Hillcrest Indust. Blvd
Macon, GA 31204-3472
478-757-1606

Client

Houston County School System
Attn: Chris Aeschlimann
1100 Main Street
Perry, GA 31069-3531

Project

Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project No. HN251197

Sample Location	C1 2'
Method Used	B
Water Content (%)	18.1
Visual Description	Orange Silty Clay
Date Tested	09/23/25
Sample Tested By	Smith, Heyward

Services:
Terracon Rep:
Reported To:
Contractor:

Report Distribution
(1) Houston County School System, Chris Aeschlimann

Tracy Barfield
Laboratory Manager

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ASTM D2216 WATER CONTENT OF SOIL AND ROCK

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Report Date: 09/24/25
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Houston County School System
Attn: Chris Aeschlimann
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Project

Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project No. HN251197

Sample Location	C2 2'
Method Used	B
Water Content (%)	20.7
Visual Description	Orange Silty Clay
Date Tested	09/23/25
Sample Tested By	Smith, Heyward

Services:
Terracon Rep:
Reported To:
Contractor:

Report Distribution
(1) Houston County School System, Chris Aeschlimann

Tracy Barfield
Laboratory Manager

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Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project No. HN251197

Sample Location	C3 2'
Method Used	B
Water Content (%)	16.2
Visual Description	Brown Clayey Silt
Date Tested	09/23/25
Sample Tested By	Smith, Heyward

Services:
Terracon Rep:
Reported To:
Contractor:

Report Distribution
(1) Houston County School System, Chris Aeschlimann

Tracy Barfield
Laboratory Manager

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Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project No. HN251197

Sample Location	C4 2'
Method Used	B
Water Content (%)	20.6
Visual Description	Brown Silty Clay
Date Tested	09/23/25
Sample Tested By	Smith, Heyward

Services:
Terracon Rep:
Reported To:
Contractor:

Report Distribution
(1) Houston County School System, Chris Aeschlimann

Tracy Barfield
Laboratory Manager

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL

Report Number: HN251197.1001
Service Date: 09/19/25
Report Date: 09/26/25
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Client

Houston County School System
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1100 Main Street
Perry, GA 31069-3531

Project

Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project Number: HN251197

Sample Information

Terracon was requested to perform a sample pickup of the following materials:

Material Type/ Description	Source	Sample Location	Sample Type	Sampling Procedure	Proposed Use
Soil: Red Orange Sandy	On site	Running Track (32.53679N, 83.69968W)	Bulk	In-Place Subgrade	General Fill

Sample Delivery

Samples were obtained and delivered to a Terracon laboratory on 9/19/2025 for testing as requested.

Requested Testing

Standard Proctor, PI, Sieve

Services:

Terracon Rep.: Zain Bilfaqui
Reported To:
Contractor:
Report Distribution:
(1) Houston County School System,
Chris Aeschlimann

Reviewed By:

Tracy Barfield
Laboratory Manager

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Photo Log

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514 Hillcrest Indust. Blvd
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(P1) Core 1

LABORATORY COMPACTION CHARACTERISTICS OF SOIL

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Client

Houston County School System
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1100 Main Street
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Project

Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

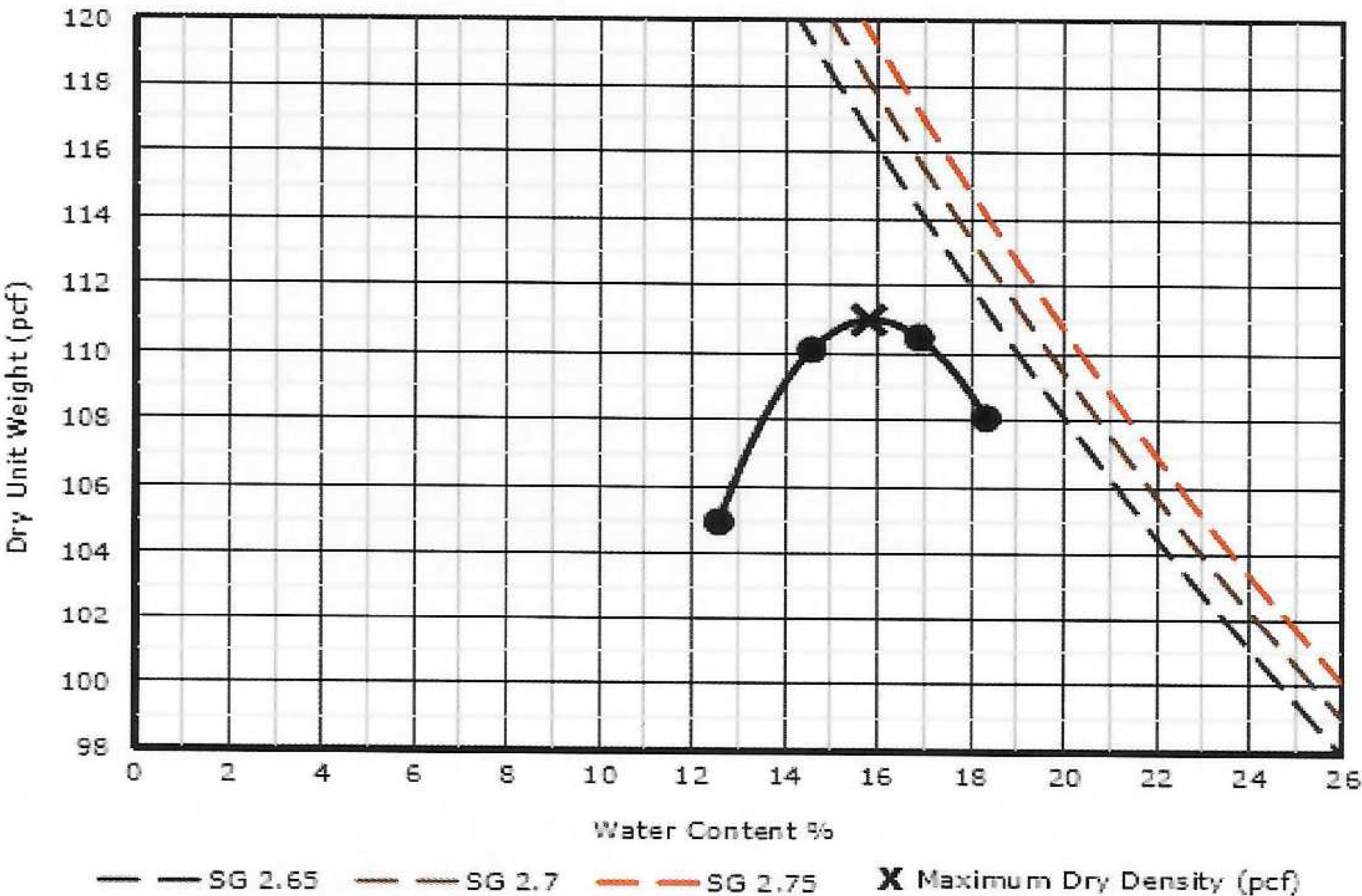
Project No. HN251197

Sample Information

Source of Material	On site	Test Designation / Method	D698 / Method A
Sample Date	09/19/25	Sample Preparation	Dry
Sampled By	Zain Bilfaqui	Rammer Type	Manual
As Received Water Content (%)	16.7	Assumed Specific Gravity	2.65
Sample Location	Running Track (32.53679N, 83.69968W)		
Sample Description	Light Brown Sandy Clay		

Laboratory Test Results

Maximum Dry Unit Weight (pcf)	111.0	Liquid Limit	
Optimum Water Content (%)	15.8	Plastic Limit	
Fines (%)	53.6	Plasticity Index	
USCS		Separating Sieve Size	#4



Services:
Terracon Rep: Zain Bilfaqui
Reported To:
Contractor:
Report Distribution

(1) Houston County School System, Chris Aeschlimann

Tracy Barfield
Laboratory Manager

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ASTM D6913, SINGLE SIEVE SET, METHOD B

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Task: Asphalt Evaluation



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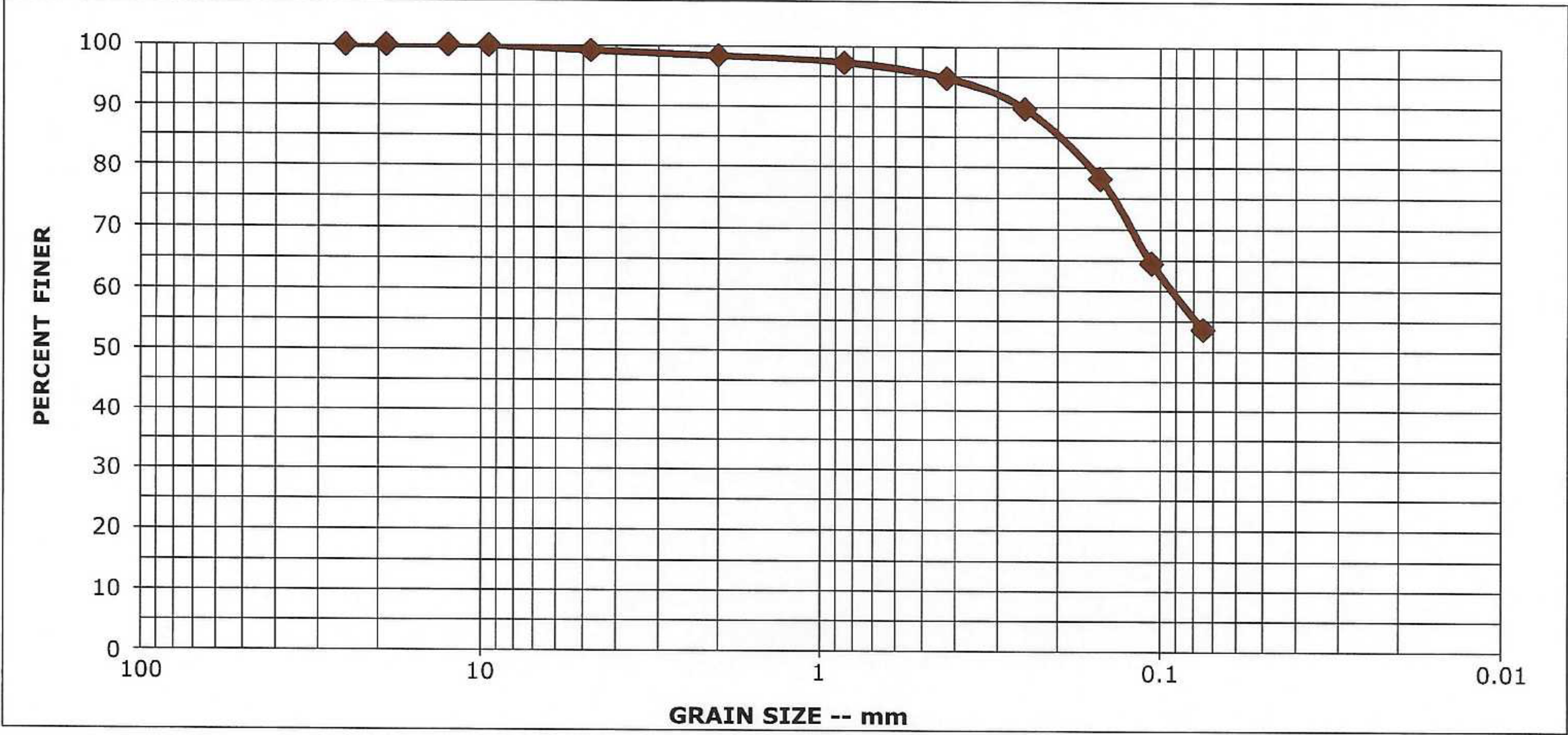
Client

Houston County School System
Attn: Chris Aeschlimann
1100 Main Street
Perry, GA 31069-3531

Project

Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project No. HN251197



Sample Location	Description	USCS	% Cobbles	% Gravel	% Sand	% Fines
Running Track	Light Brown Sandy Clay		0.0	0.8	45.5	53.6

Sieve	% Finer	Sieve	% Finer	Coefficients	
1"	100.0	#100	78.2	C _c	
3/4"	100.0	#140	64.5	C _u	
1/2"	100.0	#200	53.6		
3/8"	100.0	Grain Size		Remarks	
#4	99.2				
#10	98.4	D ₁₀₀	9.500		
#20	97.3	D ₆₀	0.093		
#40	94.7	D ₃₀			
#60	89.7	D ₁₀			

Services:
Terracon Rep: Zain Bilfaqui
Reported To:
Contractor:

Report Distribution
(1) Houston County School System, Chris Aeschlimann

Tracy Barfield
Laboratory Manager

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LABORATORY COMPACTION CHARACTERISTICS OF SOIL

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Client

Houston County School System
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1100 Main Street
Perry, GA 31069-3531

Project

Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project Number: HN251197

Sample Information

Terracon was requested to perform a sample pickup of the following materials:

Material Type/ Description	Source	Sample Location	Sample Type	Sampling Procedure	Proposed Use
Soil: Red Orange Sandy	On site Track	Running Track C3 (32.53742N, 83.69857W)	Bulk	In-Place Subgrade	General Fill

Sample Delivery

Samples were obtained and delivered to a Terracon laboratory on 9/19/2025 for testing as requested.

Requested Testing

Proctor, PI, Sieve

Services:

Terracon Rep.: Zain Bilfaqui
Reported To:
Contractor:
Report Distribution:
(1) Houston County School System,
Chris Aeschlimann

Reviewed By:

Tracy Barfield
Laboratory Manager

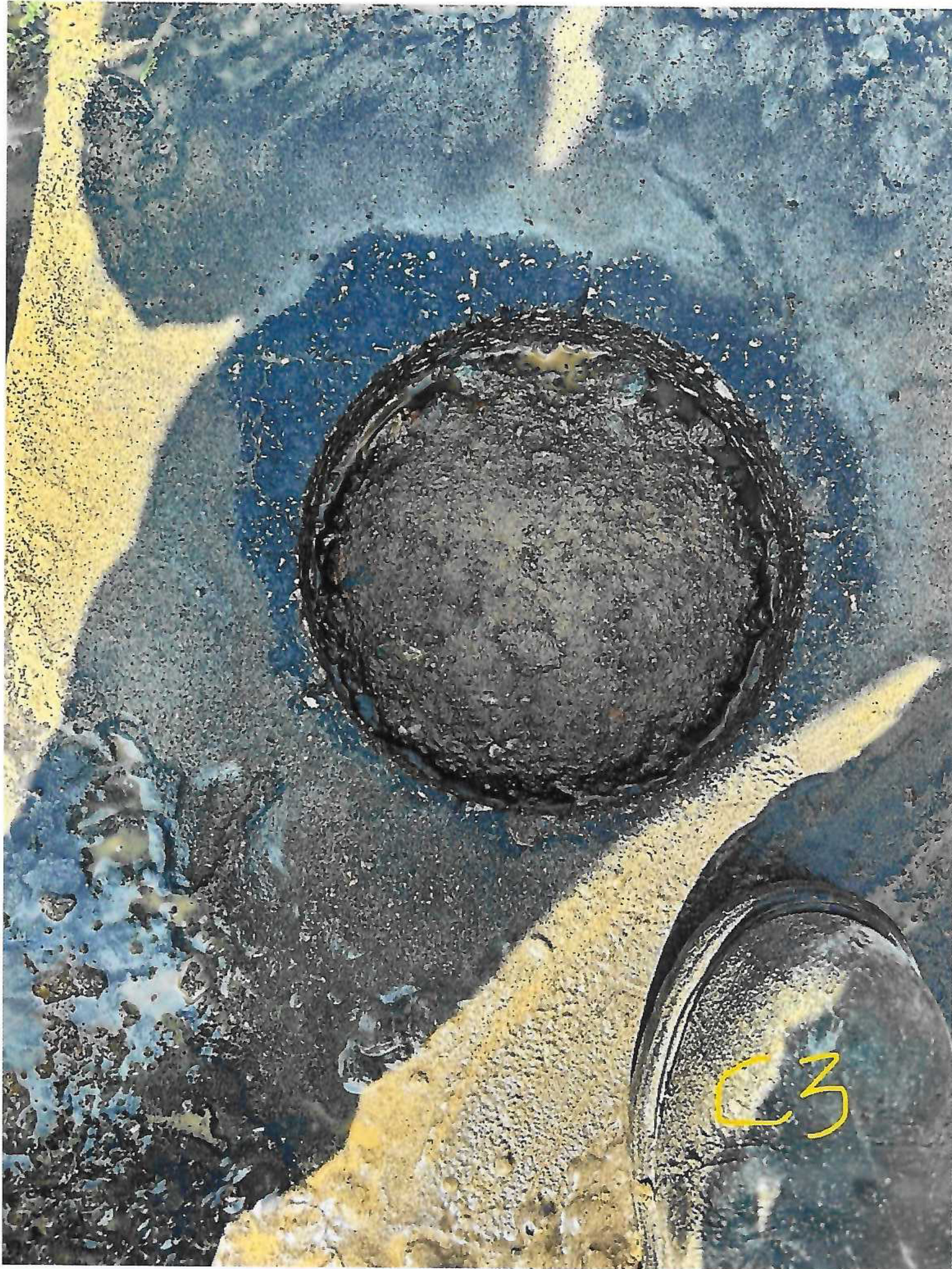
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Photo Log

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514 Hillcrest Indust. Blvd
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(P1) Core 3

LABORATORY COMPACTION CHARACTERISTICS OF SOIL

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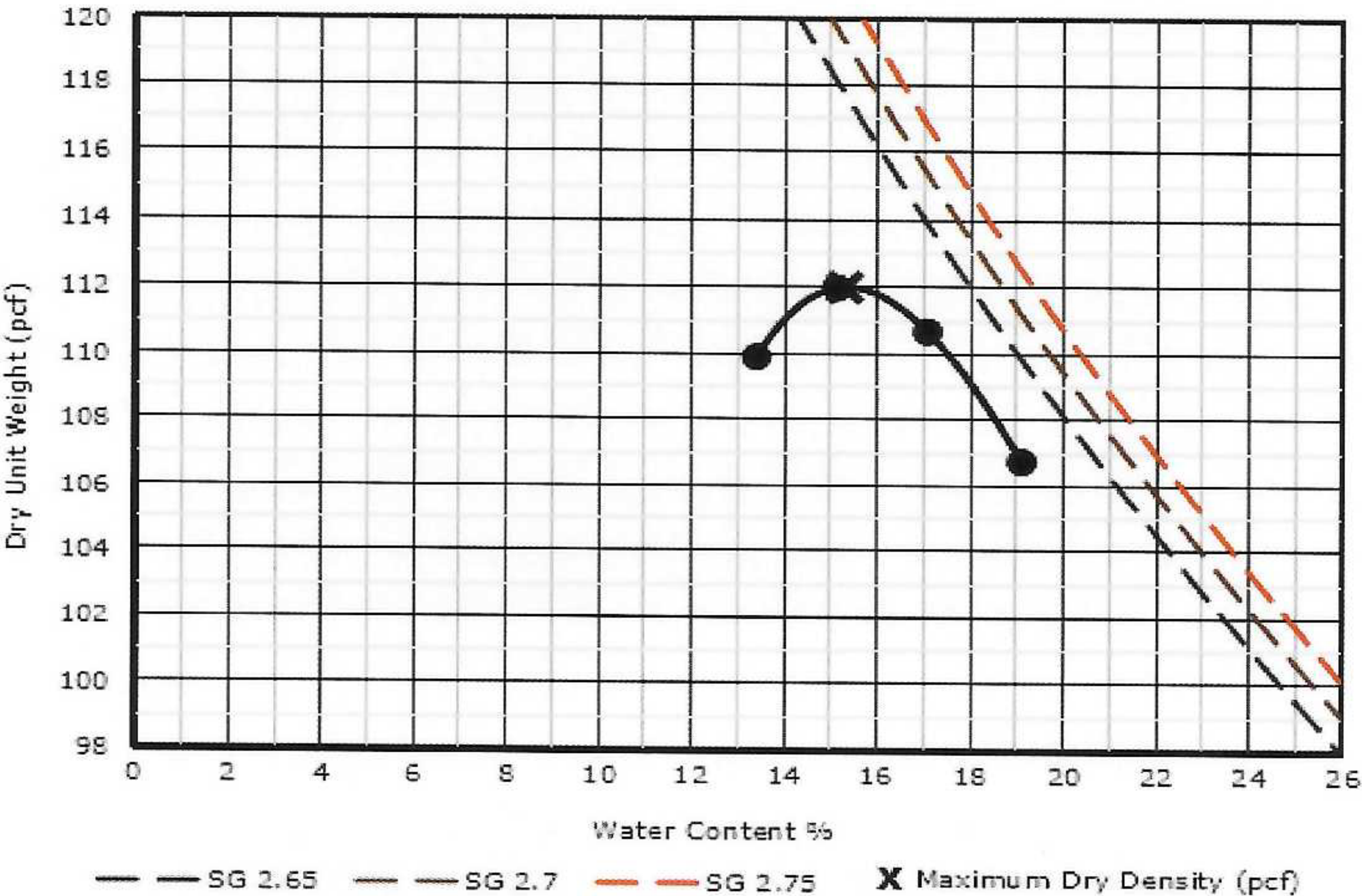
Project No. HN251197

Sample Information

Source of Material	On site Track	Test Designation / Method	D698 / Method C
Sample Date	09/19/25	Sample Preparation	Dry
Sampled By	Zain Bilfaqui	Rammer Type	Mechanical
As Received Water Content (%)		Assumed Specific Gravity	2.85
Sample Location	Running Track C3 (32.53742N, 83.69857W)		
Sample Description	Light Brown Silty Sand		

Laboratory Test Results

Maximum Dry Unit Weight (pcf)	112.0	Liquid Limit	
Optimum Water Content (%)	15.3	Plastic Limit	
Fines (%)	42.3	Plasticity Index	
USCS		Separating Sieve Size	3/4



Services:
Terracon Rep: Zain Bilfaqui
Reported To:
Contractor:

Report Distribution
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Laboratory Manager

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ASTM D6913, SINGLE SIEVE SET, METHOD B

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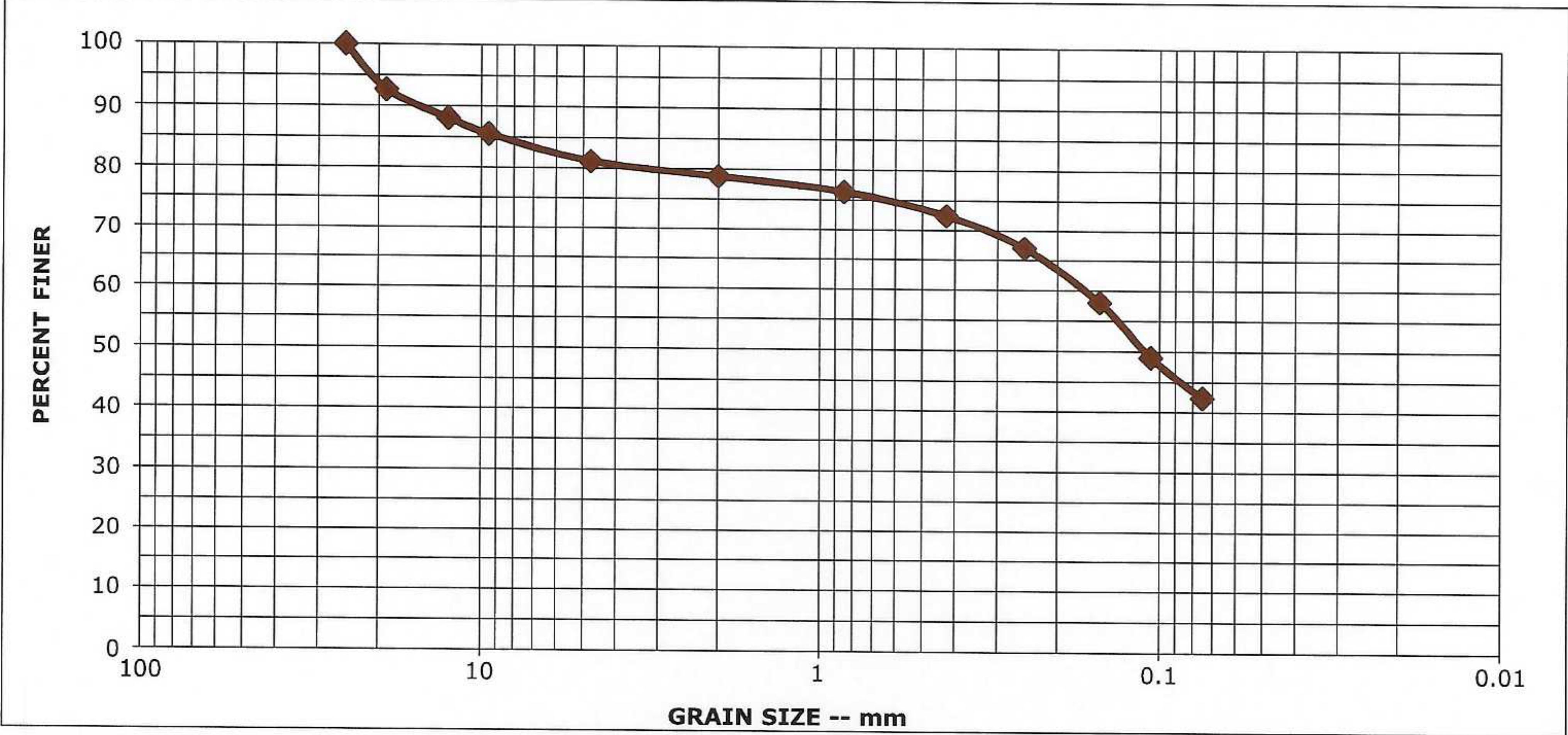
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1100 Main Street
Perry, GA 31069-3531

Project

Mossy Creek Middle School Core Sampling - Perry GA
200 Danny Carpenter Drive
Perry, GA 31047

Project No. HN251197



Sample Location	Description	USCS	% Cobbles	% Gravel	% Sand	% Fines
	Light Brown Silty Sand		0.0	18.9	38.8	42.3

Sieve	% Finer	Sieve	% Finer	Coefficients	
1"	100.0	#100	58.0	Cc	
3/4"	92.7	#140	49.0	Cu	
1/2"	88.1	#200	42.3		
3/8"	85.6	Grain Size		Remarks	
#4	81.1				
#10	78.8	D100	25.000		
#20	76.3	D60	0.173		
#40	72.4	D30			
#60	67.0	D10			

Services:
Terracon Rep: Zain Bilfaqui
Reported To:
Contractor:

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