



GEOTECHNICAL DATA PACKAGE

LASHLEY ROAD SLIP

Belmont County, Ohio

JULY 22, 2026

Prepared For:

Verdantas, LLC

156 Woodrow Ave., Suite 3

St. Clairsville, OH 43773

Attn: AJ Smith

Prepared By:

Geo-Technology Associates, Inc.

Geotechnical and Environmental Consultants

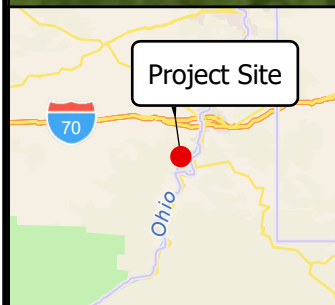
206 Bursca Dr

Bridgeville, PA 15017

(412) 914-8081

www.gtaeng.com

GTA Job No: 31252928



EXP. LOCATION PLAN

Lashley Rd. Slip
Verdantas
Belmont County, OH

Legend

Approximate Test Pit Location
 Approximate Boring Location

Date: 7/22/2026	Drawn By: A. Null	Review By: T. Furr	Project Number: 31261653	Figure. No. 1
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GEO-TECHNOLOGY ASSOCIATES, INC.
206 Bursca Drive, Bridgeville, PA
(412) 914-8081

NOTES FOR EXPLORATION LOGS

KEY TO USCS TERMINOLOGY AND GRAPHIC SYMBOLS

MAJOR DIVISIONS (BASED UPON ASTM D 2488)			SYMBOLS	
			GRAPHIC	LETTER
COARSE - GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LESS THAN 5% PASSING THE NO. 200 SIEVE)		GW
				GP
		GRAVELS WITH FINES (MORE THAN 15% PASSING THE NO. 200 SIEVE)		GM
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LESS THAN 5% PASSING THE NO. 200 SIEVE)		SW
				SP
		SANDS WITH FINES (MORE THAN 15% PASSING THE NO. 200 SIEVE)		SM
			SC	
FINE - GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50	SILT OR CLAY ($<15\%$ RETAINED THE NO. 200 SIEVE)		ML
		SILT OR CLAY WITH SAND OR GRAVEL (15% TO 30% RETAINED THE NO. 200 SIEVE)		CL
		SANDY OR GRAVELLY SILT OR CLAY ($>30\%$ RETAINED THE NO. 200 SIEVE)		OL
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50	SILT OR CLAY ($<15\%$ RETAINED THE NO. 200 SIEVE)		MH
		SILT OR CLAY WITH SAND OR GRAVEL (15% TO 30% RETAINED THE NO. 200 SIEVE)		CH
		SANDY OR GRAVELLY SILT OR CLAY ($>30\%$ RETAINED THE NO. 200 SIEVE)		OH
HIGHLY ORGANIC SOILS				PT

NOTE: DUAL SYMBOLS ARE USED TO INDICATE COARSE-GRAINED SOILS CONTAINING AN ESTIMATED 10% FINES BY VISUAL CLASSIFICATION OR WHEN THE SOIL HAS BETWEEN 5 AND 12 PERCENT FINES FROM LABORATORY TESTS; AND FOR FINE-GRAINED SOILS WHEN THE PLOT OF LIQUID LIMIT & PLASTICITY INDEX VALUES FALLS IN THE PLASTICITY CHART'S CROSSHATCHED AREA. FINE-GRAINED SOILS ARE CLASSIFIED AS ORGANIC-OL OR OH, WHEN ENOUGH ORGANIC PARTICLES ARE PRESENT TO INFLUENCE ITS PROPERTIES. LABORATORY TEST RESULTS ARE USED TO SUPPLEMENT SOIL CLASSIFICATION BY THE VISUAL-MANUAL PROCEDURES OF ASTM D2488.

ADDITIONAL TERMINOLOGY AND GRAPHIC SYMBOLS

ADDITIONAL DESIGNATION	DESCRIPTION		GRAPHIC SYMBOLS
	TOPSOIL		
	MAN-MADE FILL		
	GLACIAL TILL		
	COBBLES AND BOULDERS		
RESIDUAL SOIL DESIGNATION	DESCRIPTION	"N" VALUE	
	HIGHLY WEATHERED ROCK	50 TO 50/1"	
	PARTIALLY WEATHERED ROCK	MORE THAN 50 BLOWS FOR 1" PENETRATION, AUGER PENETRABLE	

COARSE-GRAINED SOILS (GRAVEL AND SAND)

DESIGNATION	BLOWS PER FOOT (BPF) "N"
VERY LOOSE	0 - 4
LOOSE	5 - 10
MEDIUM DENSE	11 - 30
DENSE	31 - 50
VERY DENSE	>50

NOTE: "N" VALUE DETERMINED AS PER ASTM D1586

FINE-GRAINED SOILS (SILT AND CLAY)

CONSISTENCY	BPF "N"
VERY SOFT	<2
SOFT	2 - 4
MEDIUM STIFF	5 - 8
STIFF	9 - 15
VERY STIFF	16 - 30
HARD	>30

NOTE: ADDITIONAL DESIGNATIONS TO ADVANCE SAMPLER INDICATED IN BLOW COUNT COLUMN:
WOH = WEIGHT OF HAMMER
WOR = WEIGHT OF ROD(S)

SAMPLE TYPE

DESIGNATION	SYMBOL
SPLIT-SPOON	S-
SHELBY TUBE	U-
ROCK CORE	R-

WATER DESIGNATION

DESCRIPTION	SYMBOL
ENCOUNTERED DURING DRILLING	
UPON COMPLETION OF DRILLING	
24 HOURS AFTER COMPLETION	

NOTE: WATER OBSERVATIONS WERE MADE AT THE TIME INDICATED. POROSITY OF SOIL STRATA, WEATHER CONDITIONS, SITE TOPOGRAPHY, ETC. MAY CAUSE WATER LEVEL CHANGES.

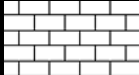
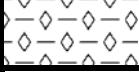
NOTES FOR ROCK DESCRIPTION

WEATHERING TERM	DESCRIPTION
FRESH	ROCK CRYSTALS BRIGHT. COLOR OF CORE IS CONSISTENT. JOINTS SHOW LITTLE STAINING.
SLIGHTLY WEATHERED	ROCK GENERALLY FRESH. JOINTS STAINED AND DISCOLORATION AROUND JOINTS MAY EXTEND UP TO 0.5 INCHES INTO ROCK. SOME CRYSTALS MAY APPEAR DULL OR DISCOLORED.
MODERATELY WEATHERED	SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION. MANY VISIBLE MINERALS ARE DULL AND DISCOLORED. ROCK HAS DULL SOUND WHEN HIT BY HAMMER AND HAS SIGNIFICANT STRENGTH LOSS.
HIGHLY WEATHERED	ALL ROCK IS DISCOLORED AND STAINED. ROCK FABRIC IS EVIDENT BUT ZONES OF ROCK HAVE BEEN REDUCED TO SOFT STRENGTH. SOME HARD PIECES OF ROCK ARE USUALLY PRESENT BETWEEN SOFT ZONES.

HARDNESS DESCRIPTION	STRENGTH RANGE (PSI)	FIELD HARDNESS TEST
VERY HARD	>10,000	CANNOT BE SCRATCHED WITH KNIFE. CORE RINGS UNDER HARD BLOWS OF A HAMMER.
HARD	3,500 to 10,000	DIFFICULT TO SCRATCH WITH KNIFE. HARD BLOW OF HAMMER REQUIRED TO BREAK.
MODERATELY HARD	1,500 to 3,500	CAN BE SCRATCHED WITH KNIFE. MODERATE BLOW OF HAMMER BREAKS CORE.
SOFT	500 to 1,500	CAN BE GOUGED OR GROOVED WITH KNIFE. SMALL PIECES CAN BE BROKEN BY HAND.

FRACTURING CLASSIFICATION	DESCRIPTION
HIGHLY FRACTURED	LESS THAN 2 INCHES
MODERATELY FRACTURED	2 INCHES TO 12 INCHES
SLIGHTLY FRACTURED	12 INCHES TO 36 INCHES
MASSIVE	GREATER THAN 36 INCHES

BEDDING DESCRIPTION	SEPARATION
VERY THIN	LESS THAN 2 INCHES
THIN	2 INCHES TO 1 FOOT
MEDIUM	1 FOOT TO 3 FEET
THICK	3 FEET TO 10 FEET
VERY THICK	MORE THAN 10 FEET

GRAPHIC SYMBOL	ROCK DESCRIPTION
	LIMESTONE/DOLOMITE/MARBLE (CARBONATE ROCK)
	SHALE/MUDSTONE/SILTSTONE (FINE-GRAINED SEDIMENTARY ROCKS)
	SANDSTONE
	SLATE/PHYLLITE (FINE-GRAINED METAMORPHIC ROCKS)
	GNEISS/SCHIST (COARSE-GRAINED METAMORPHIC ROCKS)
	BASALT/DIABASE/GABBRO (IGNEOUS ROCKS)
	CONGLOMERATE
	GYPSUM

DESCRIPTION SYNTAX: COLOR, WEATHERING, HARDNESS, FRACTURING, ROCK TYPE, "WITH" BEDDING (IF SEDIMENTARY).

$$\text{ROCK QUALITY DESIGNATION (RQD)} = \left[\frac{\text{TOTAL LENGTH OF CORE PIECES THAT ARE 4-INCHES OR LONGER (IN.)}}{\text{TOTAL LENGTH OF CORE RUN (IN.)}} \right] \times 100\%$$

LOG OF TEST PIT NO. TP-1

Sheet 1 of 1

PROJECT: **Lashley Hill Rd. Landslide**
 PROJECT NO.: **31261653**
 PROJECT LOCATION: **Mead Township, Ohio**

GROUNDWATER ENCOUNTERED (ft): **N/A**
 GROUND SURFACE ELEVATION: **1026**
 DATUM: **Google Earth**

DATE STARTED: **06/15/26**
 DATE COMPLETED: **06/15/26**
 EXCAVATION CONTRACTOR: **Ascent**
 EQUIPMENT: **Liu Gong 9035E**

BUCKET WIDTH (in.): **18"**
 BUCKET TYPE: **Toothed**
 LOGGED BY: **S. Meredith**
 CHECKED BY: **A. Null, P.G.**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
	0	GC		Brown, Moist to Wet, Clayey GRAVEL with Cobbles.	
1021.0		HW		Black to Brown, Dry, HIGHLY WEATHERED SHALE.	
1020.0	6				Test Pit Terminated at 6.0' (Top of Rock)
	8				
	10				
	12				

NOTES: **Unstable Sidewalls.**



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LOG OF TEST PIT NO. TP-1

Sheet 1 of 1

LOG OF TEST PIT NO. TP-2

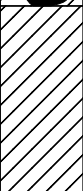
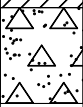
Sheet 1 of 1

PROJECT: **Lashley Hill Rd. Landslide**
 PROJECT NO.: **31261653**
 PROJECT LOCATION: **Mead Township, Ohio**

GROUNDWATER ENCOUNTERED (ft): **N/A**
 GROUND SURFACE ELEVATION: **1035**
 DATUM: **Google Earth**

DATE STARTED: **06/15/26**
 DATE COMPLETED: **06/15/26**
 EXCAVATION CONTRACTOR: **Ascent**
 EQUIPMENT: **Liu Gong 9035E**

BUCKET WIDTH (in.): **18"**
 BUCKET TYPE: **Toothed**
 LOGGED BY: **S. Meredith**
 CHECKED BY: **A. Null, P.G.**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
	0	GC		Brown, Moist to Wet, Clayey GRAVEL with Boulders and Cobbles	(Boulders >2')
1031.0	4	CL		Gray, Dry, CLAY with Gravel.	
1029.0	6	HW		Light Brown, HIGHLY WEATHERED CLAYEY SANDSTONE.	
1028.0					Test Pit Terminated at 7.0' (Top of Rock)
	8				
	10				
	12				

NOTES: **Bulk Sample From 1'-5'.**
Somewhat Stable Sidewalls.



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LOG OF TEST PIT NO. TP-2

Sheet 1 of 1

LOG OF TEST PIT NO. TP-3

Sheet 1 of 1

PROJECT: **Lashley Hill Rd. Landslide**
 PROJECT NO.: **31261653**
 PROJECT LOCATION: **Mead Township, Ohio**

GROUNDWATER ENCOUNTERED (ft): **N/A**
 GROUND SURFACE ELEVATION: **1033**
 DATUM: **Google Earth**

DATE STARTED: **06/15/26**
 DATE COMPLETED: **06/15/26**
 EXCAVATION CONTRACTOR: **Ascent**
 EQUIPMENT: **Liu Gong 9035E**

BUCKET WIDTH (in.): **18"**
 BUCKET TYPE: **Toothed**
 LOGGED BY: **S. Meredith**
 CHECKED BY: **A. Null, P.G.**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
	0	GC		Brown, Moist, Clayey GRAVEL with Cobbles.	
	2				
	4				
	6				
1026.5		HW		Gray to Black and Brown, Dry, HIGHLY WEATHERED SHALE.	
1026.0					
	8				
	10				
	12				

Test Pit
Terminated at 7.
0' (Approximate
Top of Rock)

NOTES: **Moderately Stable Sidewalls.**



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LOG OF TEST PIT NO. TP-3

Sheet 1 of 1

LOG OF TEST PIT NO. TP-4

Sheet 1 of 1

PROJECT: **Lashley Hill Rd. Landslide**
 PROJECT NO.: **31261653**
 PROJECT LOCATION: **Mead Township, Ohio**

GROUNDWATER ENCOUNTERED (ft): **N/A**
 GROUND SURFACE ELEVATION: **1039**
 DATUM: **Google Earth**

DATE STARTED: **06/15/26**
 DATE COMPLETED: **06/15/26**
 EXCAVATION CONTRACTOR: **Ascent**
 EQUIPMENT: **Liu Gong 9035E**

BUCKET WIDTH (in.): **18"**
 BUCKET TYPE: **Toothed**
 LOGGED BY: **S. Meredith**
 CHECKED BY: **A. Null, P.G.**

ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
				DESCRIPTION	REMARKS
1036.0	0	GC		Brown, Moist, Clayey GRAVEL.	
	2				
1032.0	4	CL		Gray to Brown, Dry, LEAN CLAY with Cobbles.	Test Pit Terminated at 7. 0' (Excavator Limit)
	6				
	8				
	10				
	12				

NOTES: **Stable Sidewalls.**



**GEO-TECHNOLOGY
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 Bridgville, PA 15017

LOG OF TEST PIT NO. TP-4

Sheet 1 of 1

LOG OF BORING NO. B-1

Sheet 1 of 1

PROJECT: **Lashley Hill Rd. Landslide**
PROJECT NO.: **31261653**
PROJECT LOCATION: **Mead Township, Ohio**

WATER LEVEL (ft): **4'** **7'** **N/A**
DATE: **06/12/26** **06/12/26** **06/12/26**
CAVED (ft): **N/A** **N/A** **N/A**

DATE STARTED: **06/12/26**
DATE COMPLETED: **06/12/26**
DRILLING CONTRACTOR: **Penn Drill**
DRILLER: **Alex K.**
DRILLING METHOD: **3.25" Hollow Stem Auger**
SOIL SAMPLING METHOD: **18" Split Spoon Sampler**
ROCK SAMPLING METHOD: **NQ2 Wireline Double Tube**

WATER ENCOUNTERED DURING DRILLING (ft.): **Dry**
GROUND SURFACE ELEVATION: **1020**
DATUM: **Google Earth**
DRILL MODEL: **DSA Turbo**
DRILL CARRIER: **Track**
LOGGED BY: **S. Meredith**
CHECKED BY: **A. Null, P.G.**

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOWS/6 inches	N (blows/ft.)	ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
									DESCRIPTION	REMARKS
					1019.0	0				
					1018.5		GP		AGG BASE: 6" Brown and Gray, GRAVEL with Sand.	1' Asphalt
S-1	1.5	15	3-2-3	5			CL		FILL: Brown to Gray, Dry to Moist, Medium Stiff, LEAN CLAY with Gravel.	
S-2	3.0	18	5-12-19	31	1017.0		CL		NATIVE: Brown, Dry, very Stiff to Hard, Sandy LEAN CLAY with Gravel.	
S-3	4.5	18	13-16-24	40		5				
S-4	6.0	7	14-11-17	28						
S-5	7.5	10	18-50/4	50/4	1012.5		HW		Brown, Dry, HIGHLY WEATHERED SHALEY CLAYSTONE.	
					1011.0		ROCK		Interbedded SANDSTONE with Shale, Gray to Dark Gray, Moderately Weathered, Moderately Hard, Highly Jointed, Laminated, Very Fine to Fine Grain Size Unit RQD 20"/84"= 23% Rec 83"/84"= 98%	(Augered to 9' to Accomodate Tooling)
R-1	9.0	23				10			Run-1 RQD 4"/24" 16% Rec 23"/24"= 96%	(Loss of Water from 11'-12')
R-2	11.0	60				15			Run-2 RQD 16"/60" 26% Rec 60"/60"= 100%	
					1004.0				Boring Terminated at 16'	
						20				
						25				

NOTES:



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206 Bursca Dr,
Bridgville, PA 15017

LOG OF BORING NO. B-1

Sheet 1 of 1

LOG OF BORING NO. B-2

Sheet 1 of 2

PROJECT: **Lashley Hill Rd. Landslide**
PROJECT NO.: **31261653**
PROJECT LOCATION: **Mead Township, Ohio**

WATER LEVEL (ft.): **3.5'** **4'** **N/A**
DATE: **06/12/26** **06/12/26** **06/12/26**
CAVED (ft.): **N/A** **N/A** **N/A**

DATE STARTED: **06/12/26**
DATE COMPLETED: **06/12/26**
DRILLING CONTRACTOR: **Penn Drill**
DRILLER: **Alex K.**
DRILLING METHOD: **3.25" Hollow Stem Auger**
SOIL SAMPLING METHOD: **18" Split Spoon Sampler**
ROCK SAMPLING METHOD: **NQ2 Wireline Double Tube**

WATER ENCOUNTERED DURING DRILLING (ft.): **Dry**
GROUND SURFACE ELEVATION: **1009**
DATUM: **Google Earth**
DRILL MODEL: **DSA Turbo**
DRILL CARRIER: **Track**
LOGGED BY: **S. Meredith**
CHECKED BY: **A. Null, P.G.**

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOWS/6 inches	N (blows/ft.)	ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
					1008.7	0				
							GP		AGG BASE: Brown Sandy GRAVEL.	3" Asphalt
S-1	1.5	18	2-3-5	8	1007.5		CL		FILL: Brown to Black, Dry to Moist, Medium Stiff, LEAN CLAY with Gravel.	
S-2	3.0	18	3-9-13	22	1006.0		ML		NATIVE: Brown to Black and Gray, Dry, SILT with Sand	
S-3	4.5	18	14-12-14	26	1004.5	5	GC		Brown to Black and Gray, Dry, Medium Dense to Dense, CLAYEY ROCK FRAGMENTS.	
S-4	6.0	7	7-9-13	22						
S-5	7.5	18	11-11-12	23						
S-6	9.0	18	14-13-25	38	1000.0	10	SC		Light Brown to Gray, Dry to Moist, Dense, Clayey SAND with Rock Fragments	
S-7	10.5	7	14-50/3	50/3	998.5		HW		Gray, Dry to Moist, HIGHLY WEATHERED SHALEY CLAYSTONE.	(Moist From 10.5 - 11, with Highly Weathered Material Appearing After 11)
R-1	11.3	60			997.7	15	ROCK		Interbedded SANDSTONE with Shale, Light Gray, Moderately Weathered, Moderately Hard, Highly Jointed, Laminated, Thin, Very Fine to Fine Grain Size. Unit RQD 60"/145"= 41% Rec 145"/145"= 100% Run-1 RQD 26"/60"= 43% Rec 60"/60"= 100%	
R-2	16.3	60				20			Run-2 RQD 16"/60"= 26% Rec 60"/60"= 100%	
									Run-3 RQD 31"/60"= 51% Rec 60"/60"= 100%	
R-3	21.3	60			985.6	25	ROCK		Interbedded SHALE with Limestone, Gray to Black, Slightly Weathered to Fresh, Hard, Slightly Jointed, Very Fine Grain Size. Unit RQD 13"/38"= 34% Rec 38"/38"= 100%	
					982.7		ROCK		SANDSTONE, Light Gray to Gray, Fresh to Slightly Weathered, Hard, Moderately Fractured, Laminated, Very Fine to Fine Grain size. Unit RQD 41"/60"= 68% Rec 60"/60"= 100%	Shale lenses
R-4	26.3	60								

NOTES:



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206 Bursca Dr,
Bridgville, PA 15017

LOG OF BORING NO. B-2

Sheet 1 of 2

LOG OF BORING NO. B-2

Sheet 2 of 2

PROJECT: **Lashley Hill Rd. Landslide**
 PROJECT NO.: **31261653**
 PROJECT LOCATION: **Mead Township, Ohio**

WATER LEVEL (ft): ∇ **3.5'** ∇ **4'** ∇ **N/A**
 DATE: **06/12/26** **06/12/26** **06/12/26**
 CAVED (ft): **N/A** **N/A** **N/A**

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOWS/6 inches	N (blows/ft.)	ELEVATION (ft.)	DEPTH (ft.)	USCS	GRAPHIC SYMBOL		
									DESCRIPTION	REMARKS
					977.7	30			Run-4 RQD 41"/60"= 68% Rec 60"/60"= 100%	
									Boring Terminated at 31.3'	
						35				
						40				
						45				
						50				
						55				
						60				
						65				



**GEO-TECHNOLOGY
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 Bridgville, PA 15017

LOG OF BORING NO. B-2

Sheet 2 of 2



Photo 1 - Boring B-1, Box 1 of 1



Photo 2 - Boring B-2, Box 1 of 2



CORE BOX PHOTOGRAPHS
LASHLEY ROAD SLIP
BELMONT COUNTY, OHIO



Photo 2 - Boring B-2, Box 2 of 2



CORE BOX PHOTOGRAPHS
LASHLEY ROAD SLIP
BELMONT COUNTY, OHIO

GEOTECHNICAL EXPLORATION

NATURAL MOISTURE CONTENT

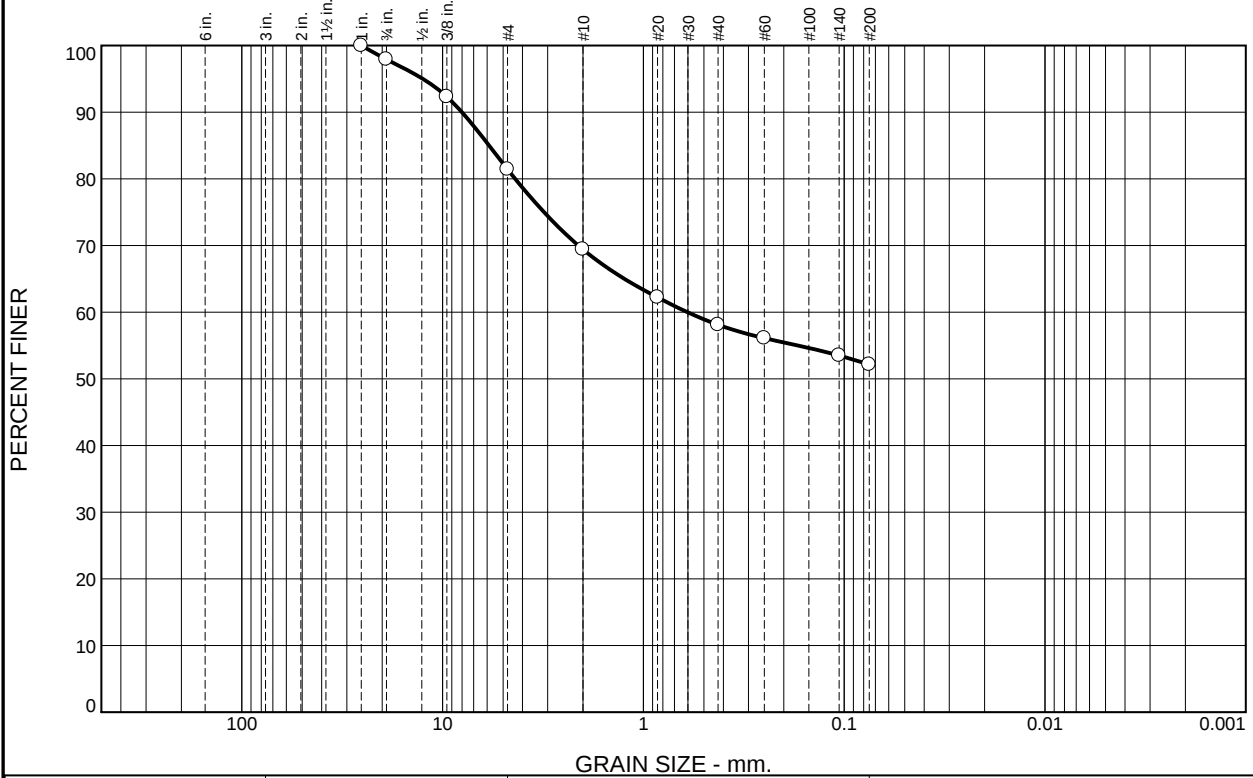
Lashley Road Slip

31261653

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ASTM Specifications performed may include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.1	16.5	12.0	11.3	6.0	52.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1	100.0		
.75	97.9		
.375	92.3		
#4	81.4		
#10	69.4		
#20	62.2		
#40	58.1		
#60	56.1		
#140	53.5		
#200	52.1		

* (no specification provided)

Soil Description
Sandy Lean Clay With Gravel

Atterberg Limits
PL= 27 LL= 46 PI= 19 NM= 8.8

Coefficients
D₉₀= 8.0117 D₈₅= 5.8672 D₆₀= 0.6031
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= CL AASHTO= A-7-6(7)

Remarks

Source of Sample: B-1 Depth: 4.5-7
Sample Number: S3/4

Date: 6/25/2026



GEO-TECHNOLOGY ASSOCIATES, INC.
1803 Mt. Rose Avenue
York, PA 17403

Client: Verdantas
Project: Lashley Rd. Slip

Project No: 31261653

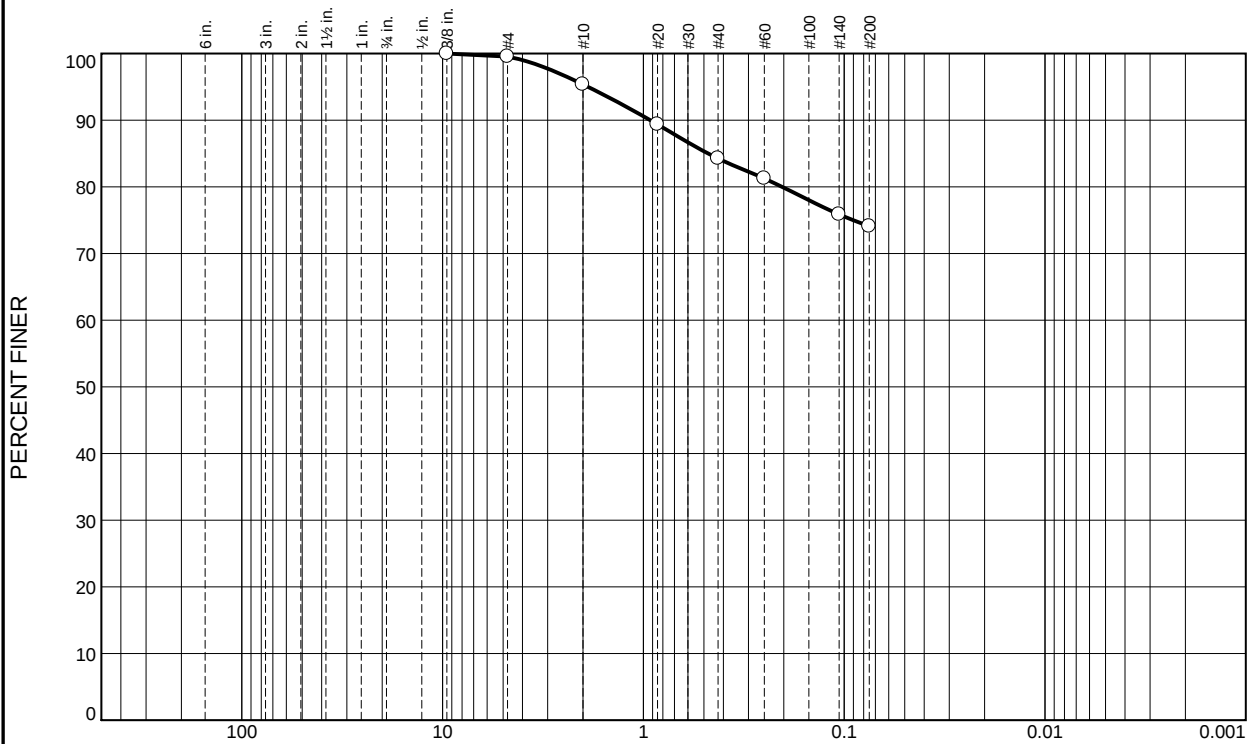
Figure

Tested By: LRT

Checked By: ALN

ASTM Specifications performed may include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.5	4.1	11.1	10.2	74.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.375	100.0		
#4	99.5		
#10	95.4		
#20	89.4		
#40	84.3		
#60	81.3		
#140	75.9		
#200	74.1		

* (no specification provided)

Soil Description

Silt With Sand

Atterberg Limits

PL= NP LL= NP PI= NP NM= 22.2

Coefficients

D₉₀= 0.9247 D₈₅= 0.4760 D₆₀=
D₅₀= D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= ML AASHTO= A-4(0)

Remarks

Source of Sample: B-2 Depth: 3-4.5
Sample Number: S-2

Date: 6/25/2026



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ASSOCIATES, INC.
1803 Mt. Rose Avenue
York, PA 17403

Client: Verdantas
Project: Lashley Rd. Slip

Project No: 31261653

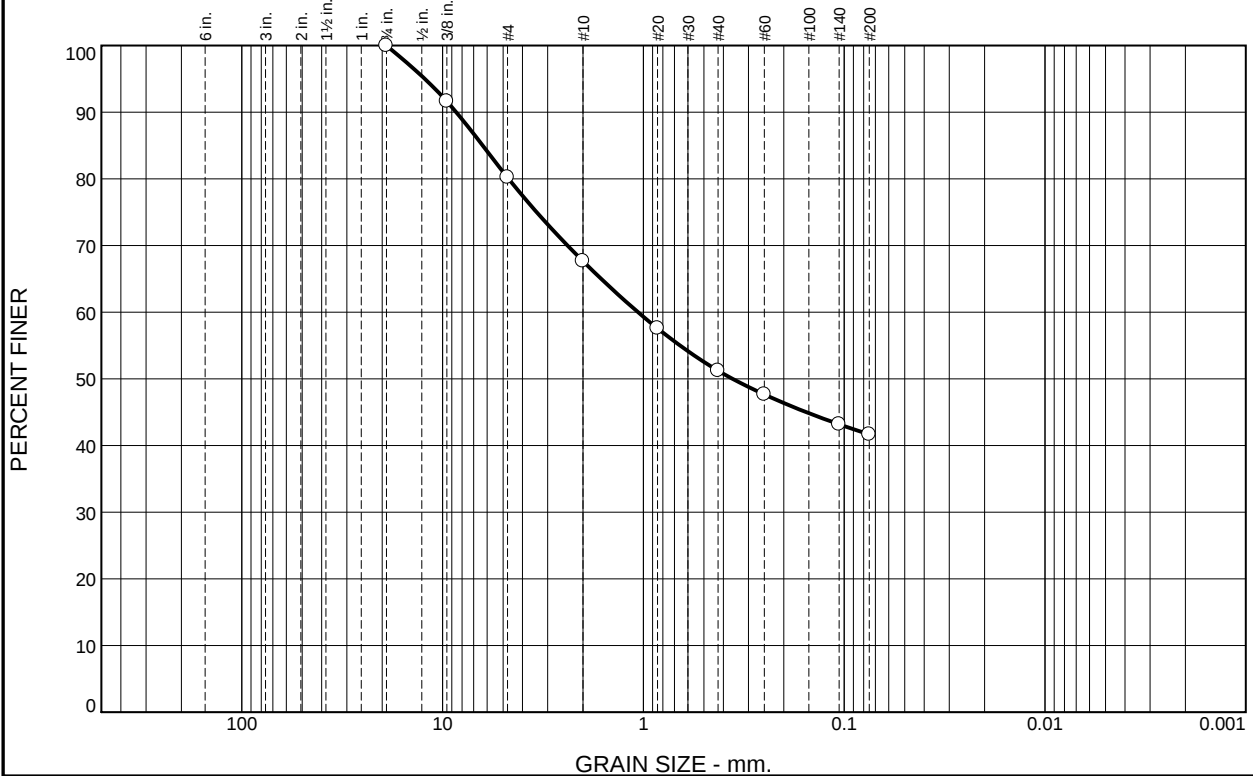
Figure

Tested By: LRT

Checked By: ALN

ASTM Specifications performed may include: D421, D422, D2216, D2217, and D4318.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	19.8	12.5	16.5	9.5	41.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.75	100.0		
.375	91.6		
#4	80.2		
#10	67.7		
#20	57.6		
#40	51.2		
#60	47.7		
#140	43.2		
#200	41.7		

* (no specification provided)

Soil Description

Clayey Sand With Gravel

Atterberg Limits

PL= 26 LL= 45 PI= 19 NM= 12.4

Coefficients

D₉₀= 8.5535 D₈₅= 6.3122 D₆₀= 1.0634
D₅₀= 0.3593 D₃₀= C_u= C_c=

Classification

USCS= SC AASHTO= A-7-6(4)

Remarks

Source of Sample: B-2 Depth: 9-10
Sample Number: S-6

Date: 6/25/2026



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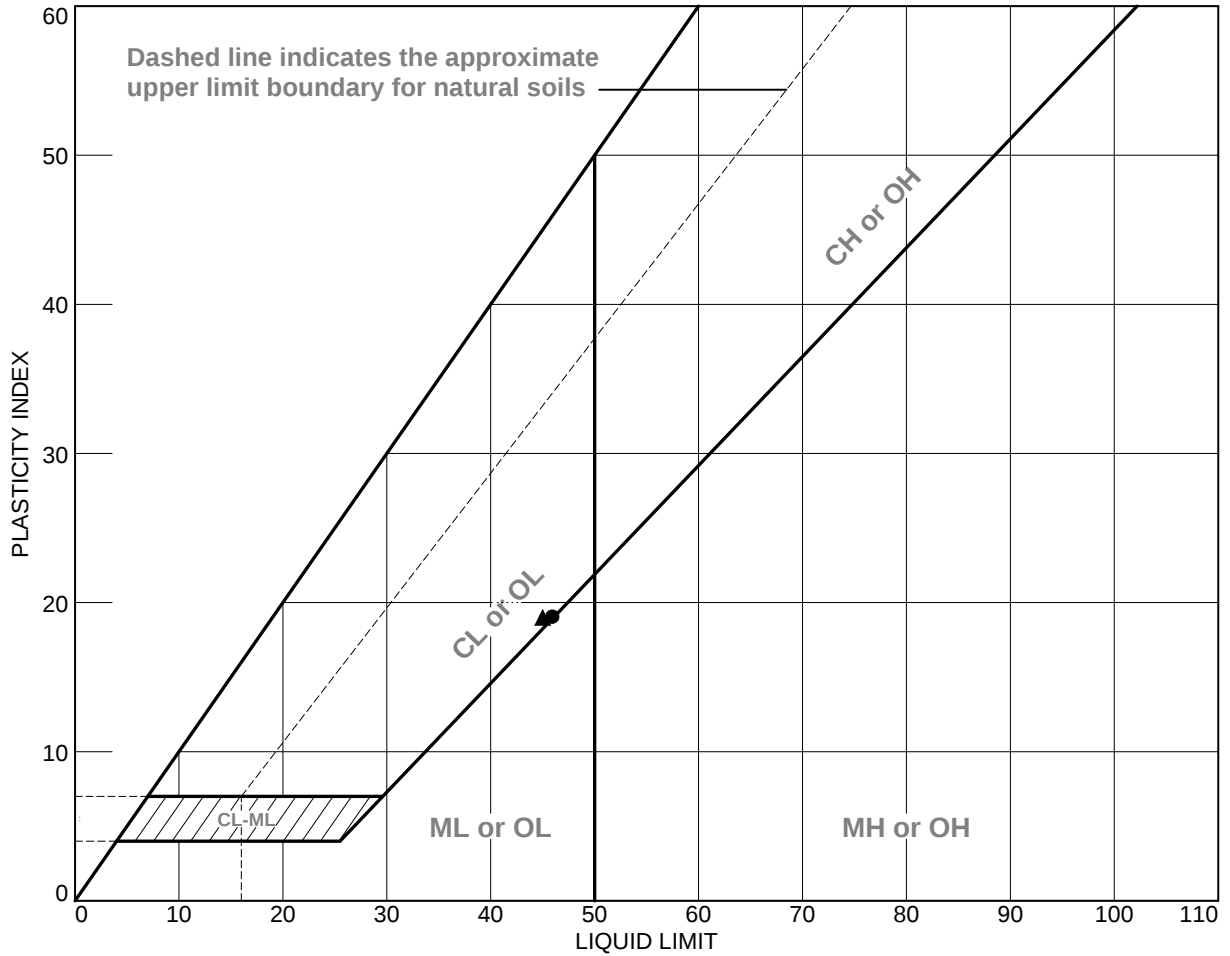
Project No: 31261653

Figure

Tested By: LRT

Checked By: ALN

LIQUID AND PLASTIC LIMITS TEST REPORT - ASTM D4318



SOIL DATA								
SYMBOL	SOURCE	SAMPLE NO.	DEPTH	NATURAL WATER CONTENT (%)	PLASTIC LIMIT (%)	LIQUID LIMIT (%)	PLASTICITY INDEX (%)	USCS
●	B-1	S3/4	4.5-7	8.8	27	46	19	CL
■	B-2	S-2	3-4.5	22.2	NP	NP	NP	ML
▲	B-2	S-6	9-10	12.4	26	45	19	SC



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Figure

Tested By: LRT

Checked By: ALN

ASTM Specifications performed may include: D421, D422, D2216, D2217, and D4318.

Lashley Road Slip

DATE: 7/222/2026

CORE ID	B-1 R2
	11'-11.5'
Diameter	2.0"
Length	4.012
	4.016
	4.015
Average	4.014
Pounds	11290
PSI	3596

CORE ID	B-2 R1
	14'-14.5'
Diameter	2.0"
Length	4.020
	4.016
	4.021
Average	4.019
Pounds	17110
PSI	5449

[illegible]

