

# **GEOTECHNICAL REPORT**

Gravel Investigation  
415 SH 174  
Blum, Texas  
FG Project No. 24604

Prepared for:

Ryon Fenn  
415 SH 174  
Blum, Texas 76627

Prepared by:

Franklin Geotechnical LLC  
8304 Cardiff Circle  
Plano, Texas 75025



January 17, 2026

Attention: Ryon Fenn  
415 SH 174  
Blum, Texas 76627

Reference: Geotechnical Investigation  
Gravel Study  
415 SH 174  
Blum, Texas  
FG Project No. 24604

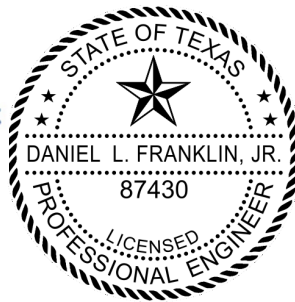
Franklin Geotechnical, LLC is pleased to submit the attached Geotechnical Report. This report estimates the material quantities on your property in Blum, Texas. This report was issued as a draft on August 26, 2024. It has since been updated to include corrected quantities and estimated values. Also included in the report are a vicinity map, boring plan, boring logs, and laboratory test results.

Franklin Geotechnical, LLC appreciates the opportunity to provide these geotechnical engineering services for you, and we look forward to working together in the future.

Sincerely,  
**Franklin Geotechnical, LLC**  
TBPE Registered Firm, No. F-26342

A handwritten signature in blue ink, appearing to read "D. L. Franklin, Jr.", is positioned to the left of the professional engineer seal.

Daniel L. Franklin, Jr., P.E.  
Professional Engineer



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## **1.0 INVESTIGATION OVERVIEW**

### **1.1 Introduction**

Franklin Geotechnical, LLC (FG) has prepared this report to present the results of our subsurface investigation program and our engineering estimate of materials for the Gravel Study Project in Blum, Texas. The site location is shown on the attached Vicinity Map, Figure 1. This report was originally issued as a draft on August 24, 2024. It has been updated to include corrected quantities and estimated values. The data includes borings, laboratory test results, and estimated material quantities. The report is subject to the limitations provided in Section 8.0.

### **1.2 Authorization**

Mr. Ryon Fenn authorized FG's proposal dated May 1, 2024, for a geotechnical site investigation consisting of soil borings, laboratory analysis of soil samples, and estimation of marketable qualities of earthen materials.

### **1.3 Purpose and Scope**

The purpose of this geotechnical investigation was to determine subsurface conditions at the site as a basis for providing suitable and cost-effective geotechnical engineering recommendations.

The scope of the investigation included:

- A subsurface investigation program with eight (8) soil boring; four (4) soil borings sampled to depths of 21 to 38 feet below the existing ground surface in August of 2022 and four (4) new borings sampled to depths of 35 to 42 below the existing ground surface for this updated study.
- A laboratory testing program for the determination of soil characteristics.
- A geotechnical report including investigation findings, and laboratory test results with engineering estimates of quantities.

Field sampling methods, laboratory testing procedures, soil classifications, and strata descriptions were in general accordance with methods, procedures, and practices set forth by the American Society for Testing and Materials, Annual Book of ASTM Standards, as applicable.

## **2.0 SITE DESCRIPTION**

### **2.1 Site Physiography**

The site is located on the north side of State Highway 174 in Blum, Hill County Texas. The site has an area of approximately 114 acres. Approximately 80 acres were considered for this study. Based on Google Earth imaging the surface elevations range from about 550 to 605 feet above mean sea level.

## **2.2 Geology**

According to the Bureau of Economic Geology at the University of Texas at Austin, Geologic Atlas of Texas, Waco Sheet, the site is underlain by Terrace Deposits (Qt). Terrace deposits consist of gravel, sand, and clay which outcrop adjacent to and outside of the immediate channels of the Brazos River and its tributaries. Their composition is that of alluvium. Terraces were formed when the river changed course, abandoning the previous floodplain, and the new channel cuts deeper into the earth.

## **3.0 PROJECT DESCRIPTION**

FG understands that the project consists of evaluating the presence and quantity of mineral resources (gravel, sand, and select clay soils) within an approximately 80-acre parcel adjacent to Lake Whitney near Kimble Bend in Hill County, Texas. Materials are currently being mined on portions of the property. Previous excavations within the area indicate there are approximately 15 feet of overburden soil over the gravel seam with shale bedrock at a depth of approximately 30 feet below the ground surface.

## **4.0 SUBSURFACE INVESTIGATION**

### **4.1 Boring Locations**

The field investigation consisted of drilling and sampling eight (8) borings to depths of 21 to 42 feet below the existing grade. The approximate boring locations are shown on the attached Boring Plan, Figure 2. Boring locations were established in the field by FG staff with the assistance of the owner.

### **4.2 Drilling and Sampling Recovery Methods**

The borings were drilled with a CME-55 truck-mounted drill rig, in general accordance with the following standards as deemed appropriate in the field:

- Standard Practice for Soil Exploration and Sampling by Auger Boring (ASTM D1452).
- Standard Practice for Thin-Walled Tube Sampling of Fine-Grained Soils for Geotechnical Purposes (ASTM D1587).
- Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils (ASTM D1586).
- Texas Cone Penetrometer (TCP) test [Texas Department of Transportation (TxDOT) Manual of Testing Procedures method Tex-132-E].

All boreholes were backfilled with soil after collecting groundwater readings. Samples will be retained by FG for thirty (30) days unless an alternate storage agreement is requested by the client.

## 5.0 LABORATORY TESTING

FG performed laboratory testing on representative soil samples recovered during drilling operations to determine engineering properties. The laboratory testing program included:

- Standard Practice for Description and Identification of Soils (Visual-Manual Procedures) (ASTM D2488).
- Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass (ASTM D2216).
- Standard Test Methods for Measurement of Liquid Limit, Plastic Limit, and Plasticity Index of Soils (ASTM D4318).
- Standard Test Methods for Particle-Size Distribution (Gradation) of Soils Using Sieve Analysis (ASTM D6913).

Laboratory test results are provided in Appendix B.

## 6.0 SUBSURFACE CONDITIONS

### 6.1 Site Stratigraphy and Engineering Properties

The subsurface samples were recovered with seamless push tube and SPT sampling methods. Once gravel was detected, we used a 3-inch diameter split spoon (versus the standard 1.5-inch diameter tool) to retain greater size materials. Descriptions of strata made in the field by the drilling team were modified by the Engineer based on laboratory test results and a visual examination of the soil samples. Recovered soil samples were examined, tested, and classified in general accordance with the Unified Soil Classification System (USCS) (ASTM D2487). Strata and subsurface conditions can best be understood by a thorough review of the boring logs provided in Appendix A. Transition depths should be considered approximate.

In general, the subsurface materials encountered consisted of lean clay (CL) to depths of 10.5 to 34 feet below the ground surface. Clayey sands (SC) were identified below the clays to depths of 17.5 to 23 feet. Silty sand with gravel (SM) and Silty gravel (GM) were found below the sands to the top of shale or limestone at 19 to 34 feet where present. Note that no gravel was identified in Borings GB-1, GB-2, and GB-3. The borings were completed in shale or limestone at depths of 21 to 42 feet below the existing ground surface.

Atterberg liquid limits of the clay soils ranged from 25 to 47 with corresponding plasticity indices of 7 to 33. Within the materials containing gravel, 4 to 83 percent was retained on the No. 4 (gravel size particle) sieve. Laboratory test data is presented in Appendix B.

### 6.2 Groundwater

During the subsurface exploration for the initial borings made in August of 2022, no groundwater was encountered while drilling to depths of 38 feet below the existing grade.

In the borings drilled in July of 2024, groundwater seepage was as provided in the following table.

Table 6.2 – Groundwater		
Boring Number	Depth Free Water First Encountered (feet)	Water Depth Upon Completion of Drilling (feet)
GB-1	18	15.5
GB-2	21	15
GB-3	Dry	None
GB-4	12.5	13

The water observations conducted for this investigation should be considered short-term and should not be interpreted as a “Groundwater Study.” The project contractor should be prepared to deal with potential groundwater issues should they arise during construction.

Surficial soil moisture contents and perched water tables are often strongly influenced by antecedent rainfall conditions and could be significant near creeks, drainage ways, and areas of standing water. Nearby irrigation can affect moisture levels within the depths that this investigation observed. Oftentimes, groundwater in the form of seepage occurs within sand seams and layers within the clay soil. The locations of specific seepage areas are impossible to predict, and seepage may not be evident until after rainfall events.

## 7.0 MATERIAL EVALUATION

The materials encountered have been broken down into three categories for this evaluation:

- Select Fill – Select fill materials used in the preparation of building pads for residential and commercial construction are typically low plasticity lean clays (CL) and clayey sands (SC) with a liquid limit of less than 40 and a plasticity index of 8 to 22. From the laboratory test results it appears that about 50 percent of the materials identified as lean clay meet this criterion. When mixed with the clayey sands below the lean clays, we expect all of these materials will meet this criterion.
- Clayey Sand – Clayey sands meet the criteria of select fill. Portions of this strata may be mixed with the higher plasticity lean clay such that they too will be acceptable for select fill soils.
- Sand – some sands at the site silty sands with gravel. They will be separated during the washing process to retrieve the gravel. Depending upon how they are processed, these sands may be used for Portland cement concrete production, construction cushion sand, or other sand backfill requirements.

- Gravel – Gravel materials were found in the silty sands and also in their unique strata of silty gravel. These will be separated during the washing process. The particle size of the gravel ranged from 3 inches to 3/16ths of an inch (No. 4 Sieve). Most of the gravel was about 1-¼ to ¼ inches. These materials are used in Portland cement concrete, asphaltic cement concrete, drainage media for walls and sumps, and other aggregate requirements.

## 7.1 Excavation Areas

The property was divided into eight areas representing borings B-1 through B-4, and GB-1 through GB-4 (Note that no gravel was identified in borings GB-1, GB-2, and GB-3) Area 1 is about 281,768 square feet and is represented by Boring B-1. Boring B-2 represents Area 2 with a footprint of approximately 329,462 square feet. Area 3 is about 737,524 square feet and is represented by Boring B-3. Boring B-4 represents Area 4 with a footprint of approximately 723,768 square feet. Boring GB-4 represents Area 5 with a footprint of approximately 239,051 square feet. Boring GB-3 represents Area 6 with a footprint of approximately 266,242 square feet. Boring GB-2 represents Area 7 with a footprint of approximately 160,188 square feet. Boring GB-1 represents Area 8 with a footprint of approximately 152,953 square feet. We realize some adjustments may be made in the designation for each boring; this was our estimate and others may wish to make changes that will affect the quantities stated below.

## 7.2 Material Quantities

Using the square footage of each area and the materials identified in the individual boring for each area we have calculated the following quantities of marketable materials on this parcel of land as presented in Table C-1 in Appendix C for each parcel. Provided below is a summary table of the material quantities:

Table 7.2– Material Quantities			
Lean Clay	Clayey Sand	Sand	Gravel
1,701,381 yd <sup>3</sup>	362,351 yd <sup>3</sup>	201,238 yd <sup>3</sup>	183,020 yd <sup>3</sup>
2,756,239 tons	587,006 tons	325,196 tons	296,492 tons

\*\*Note: Mass/weights calculated using a total unit weight of 120 pcf.



### 7.3 Material Values

Based on competitive prices for materials in north and central Texas, we have determined the following unit prices for these materials based on the estimated quantities based on typical geotechnical soil sampling. It is understood that other methods of sampling may yield different results. This is an engineering estimate and may be considered low/high by others.

<b>Table 7.2 – Material Values</b>					
<b>Material</b>	<b>Lean Clay</b>	<b>Clayey Sand</b>	<b>Sand</b>	<b>Gravel</b>	<b>Totals</b>
Estimated Worth – In Place	\$2,552,072	\$543,527	\$503,095	\$640,570	\$4,239,263
	\$1.50/yd <sup>3</sup>	\$1.50/yd <sup>3</sup>	\$2.50/yd <sup>3</sup>	\$3.50 yd <sup>3</sup>	
Estimated Worth – Load Ready	\$18,604,603	\$3,962,308	\$2,852,549	\$5,336,863	\$30,756,323
	\$6.75/ton	\$6.75/ton	\$8.75/ton	\$18/ton	

### 8.0 LIMITATIONS

Since some variation was found in subsurface conditions at boring locations, all parties involved should take notice that even more variation may be encountered between boring locations. Statements in the report as to subsurface variation over given areas are intended only as estimations from the data obtained at specific boring locations.

The professional services that form the basis for this report have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable geotechnical engineers practicing in the same locality. No warranty, express or implied, is made for the professional advices provided. Franklin Geotechnical LLC's scope of work does not include the investigation, detection, or design related to the presence of any biological pollutants. The term 'biological pollutants' includes, but is not limited to, mold, fungi, spores, bacteria, viruses, and the byproducts of any such biological organisms.

The results, conclusions, and recommendations contained in this report are directed at and intended to be utilized within the scope of work contained in the agreement executed by Franklin Geotechnical LLC, and the client. This report is not intended to be used for any other purposes. Franklin Geotechnical LLC makes no claim or representation concerning any activity or condition falling outside the specified purposes to which this report is directed and said purposes are specifically limited to the scope of work as defined in said agreement. Inquiries as to the said scope of work or concerning any activity or condition not specifically contained therein should be directed to Franklin Geotechnical LLC for a determination and, if necessary, further investigation.

# **FIGURES**

**Vicinity Map**

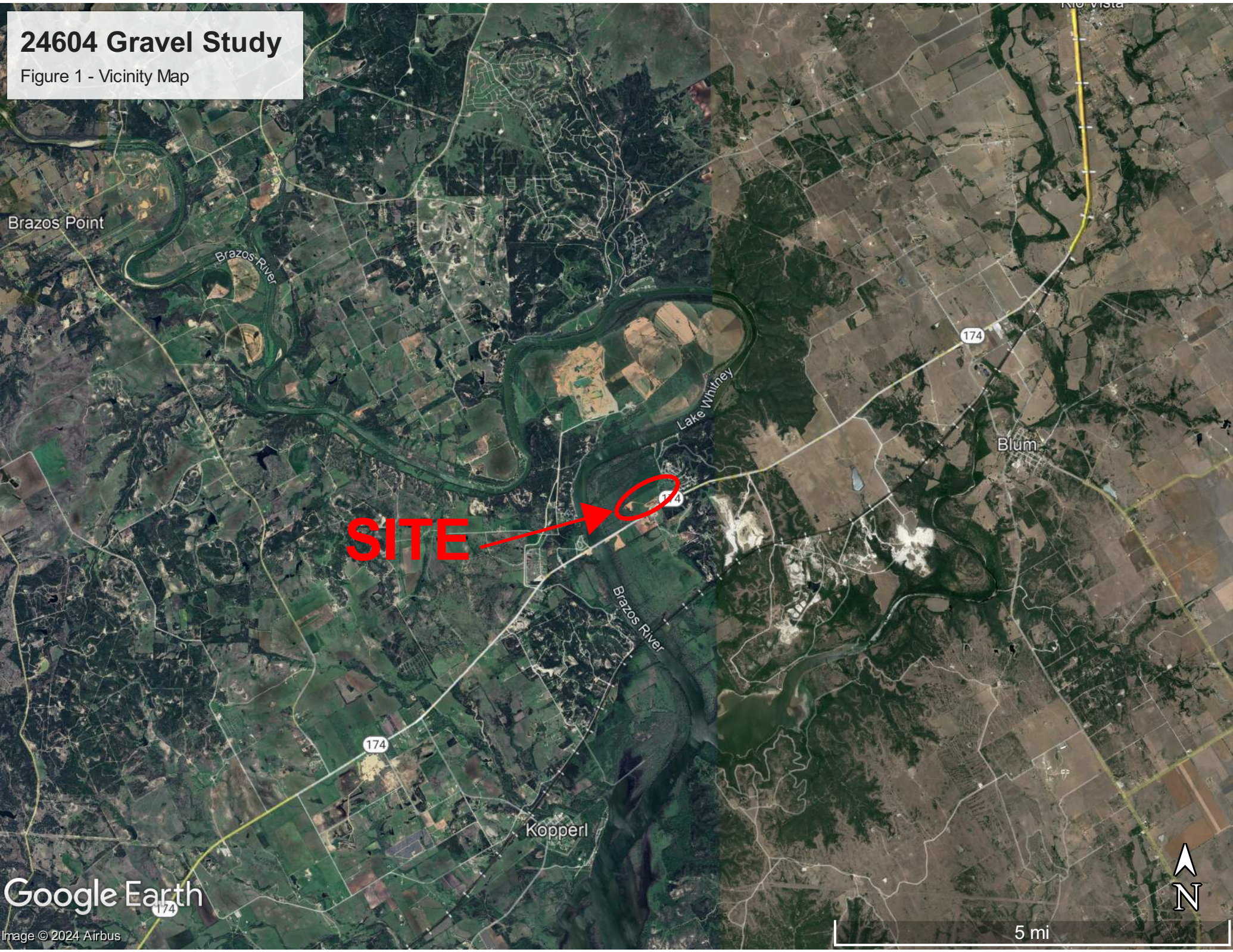
**Boring Plan**

**Definition of Areas**



# 24604 Gravel Study

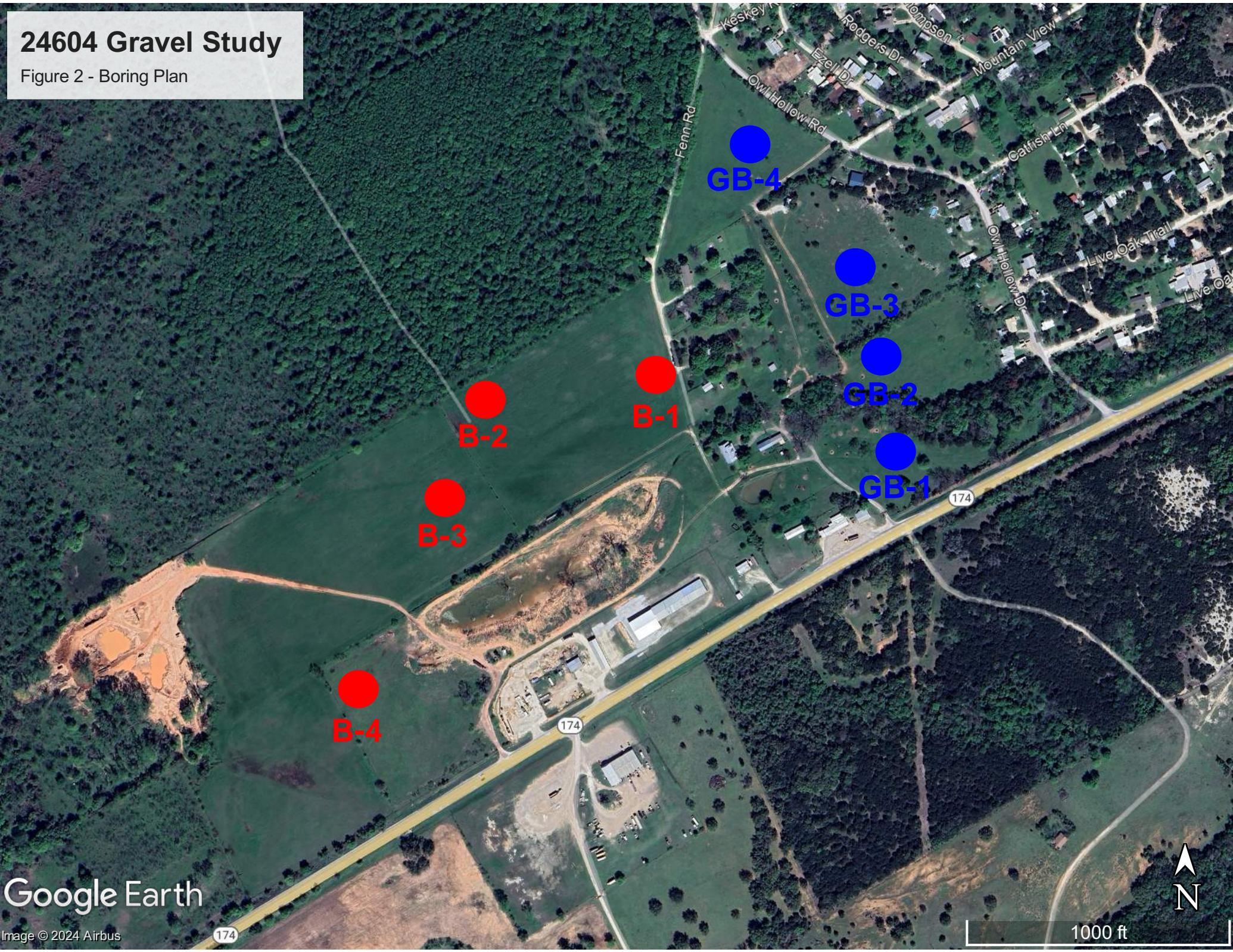
Figure 1 - Vicinity Map





# 24604 Gravel Study

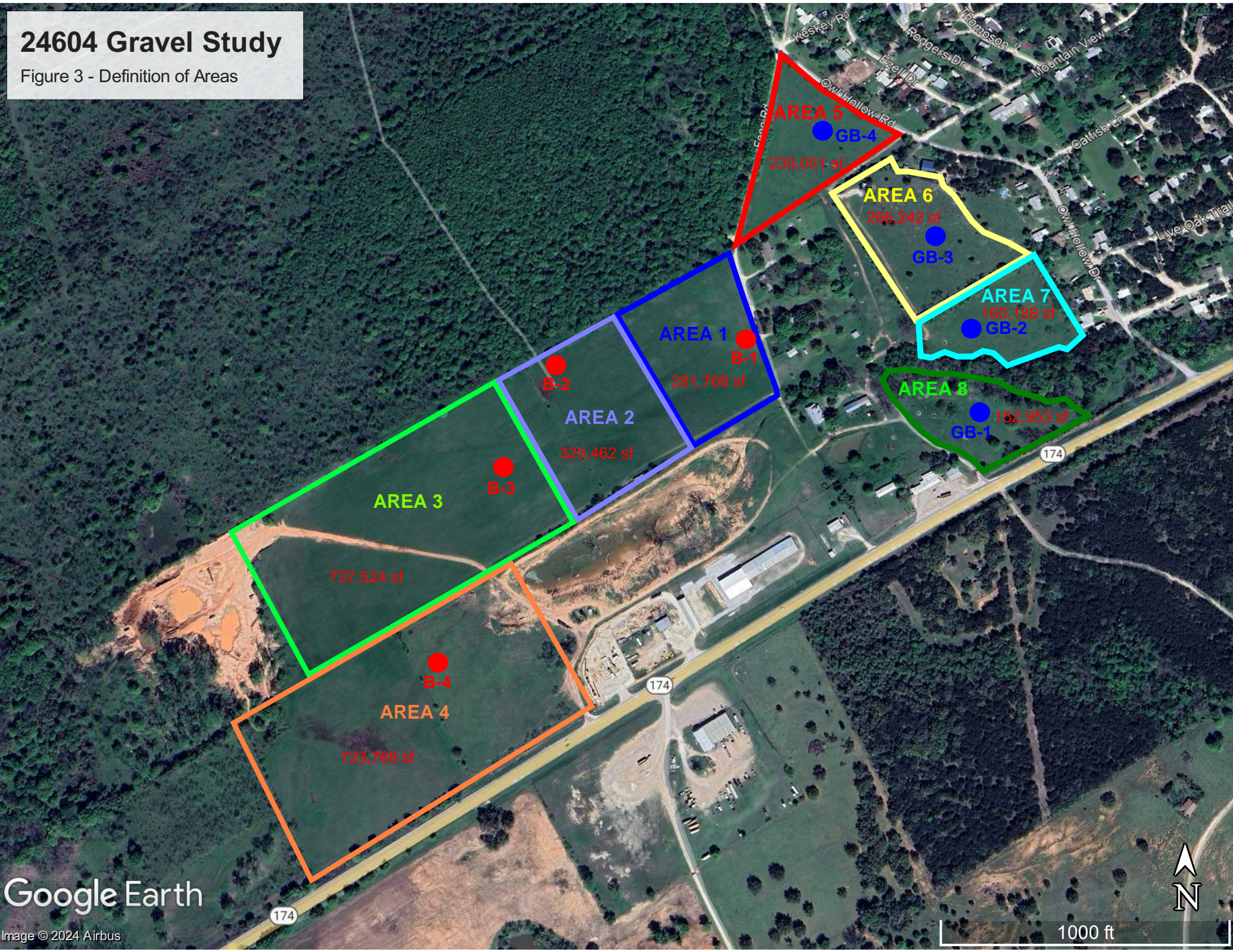
Figure 2 - Boring Plan





# 24604 Gravel Study

Figure 3 - Definition of Areas





# **APPENDIX A**

## **Boring Logs**

# LOG OF BORING No. B-1



**PROJECT:** Gravel Investigation **PROJECT NO.:** 220505  
**CLIENT:** Ryan Fenn  
**PROJECT LOCATION:** 415 TX 174, Blum, Texas  
**LOCATION:** Area 1 **ELEVATION:** Not Measured  
**DRILLER:** T. King **LOGGED BY:** D. Franklin  
**DRILLING METHOD:** Solid Stem Auger **DATE:** 8/17/22  
**DEPTH TO - WATER> INITIAL:** None **AFTER COMPLETION** None

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Depth (feet)	Sample Type	Description	Graphic	Pocket Penetrometer (tsf)	Blow Counts	% Swell	TEST RESULTS				
							Plastic Limit		Liquid Limit		
0							10	20	30	40	50
		Hard brown and dark brown LEAN CLAY with sand (CL)		4.5							
				4.5							
5				4.5							
				6							
		Hard brown LEAN CLAY with sand (CL)		4.5							
				4.5							
10				10							
		Hard reddish brown LEAN CLAY with sand (CL)									
				13							
15		Medium dense to dense red CLAYEY SAND (SC)		4.5							
	X				29/18"						
20	X				38/18"						
	X				37/18"						
				23							
	X	Dense to very dense tan SILTY GRAVEL with sand (GM)			48/18"						
25	X				66/18"						
	X				58/18"						
30	X				61/18"						
	X				69/18"						
	X				73/18"						
35											

CONSTRUCTION MATERIALS - ENGINEERING, TESTING & INSPECTION  
**MID-TEX**  
TESTING, INC.

**AFTER COMPLETION**  None

[illegible]

**This information pertains only to this boring and should not be interpreted as being indicative of the site.**



# LOG OF BORING No. B-2



PROJECT: Gravel Investigation PROJECT NO.: 220505  
 CLIENT: Ryan Fenn  
 PROJECT LOCATION: 415 TX 174, Blum, Texas  
 LOCATION: Area 2 ELEVATION: Not Measured  
 DRILLER: T. King LOGGED BY: D. Franklin  
 DRILLING METHOD: Solid Stem Auger DATE: 8/17/22  
 DEPTH TO - WATER> INITIAL: None DRY None AFTER COMPLETION None

This information pertains only to this boring and should not be interpreted as being indicative of the site.

Depth (feet)	Sample Type	Description	Graphic	Pocket Penetrometer (tsf)	Blow Counts	% Swell	TEST RESULTS				
							Plastic Limit		Liquid Limit		
0							10	20	30	40	50
		Hard brown and tan LEAN CLAY with sand (CL)	4.5								
			4.5								
5			4.5								
			4.5								
			4.5								
10			10								
		Very stiff red LEAN CLAY with sand (CL)									
			3.5								
15											
	X		18.5		38/18"						
20	X	Dense to very dense red CLAYEY SAND with gravel (SC)			46/18"						
			21								
	X	Very dense tan SILTY SAND with gravel (SM)			76/18"						
	X				81/18"						
25	X				77/18"						
			27								
	X	Very dense red SILTY GRAVEL with sand (GM)			89/18"						
			29								
30	T	Gray SHALE			50/0.75"						
		Boring Completed at 30 Feet			50/0.5"						
35											

CONSTRUCTION MATERIALS • ENGINEERING, TESTING & INSPECTION  
**MID-TEX**  
TESTING U.S.

PROJECT NO.: 220505

**PROJECT LOCATION:** 415 TX 174, Blum, Texas

**ELEVATION:** Not Measured

**LOGGED BY:** D. Franklin

**DATE:** 8/17/22

**AFTER COMPLETION**  None

Depth (feet)	Sample Type	Description	Graphic	Pocket Penetrometer (tsf)	Blow Counts	% Swell	TEST RESULTS	
							Plastic Limit	Liquid Limit
0							10	20 30 40 50
		Hard brown LEAN CLAY with sand (CL)		4.5				
		2						
		Hard dark brown LEAN CLAY with sand (CL)		4.5				
				4.5				
5				4.5				
				4.5				
		8						
		Very stiff to hard red LEAN CLAY with sand (CL)		4.5				
10								
				3.0				
15		15.5						
	X	Dense red SILTY SAND with gravel (SM)						
	X				47/18"			
20	X				61/18"			
	X				73/18"			
		24						
25	T	Gray SHALE			50/0.25"			
		Boring Completed at 25 Feet			50/0.5"			
30								
35								

**This information pertains only to this boring and should not be interpreted as being indicative of the site.**

CONSTRUCTION MATERIALS • ENGINEERING, TESTING & INSPECTION  
**MID-TEX**  
TESTING, INC.

**PROJECT NO.:** 220505

**PROJECT LOCATION:** 415 TX 174, Blum, Texas

**ELEVATION:** Not Measured

**LOGGED BY:** D. Franklin

**DATE:** 8/17/22

DEPTH TO - WATER> INITIAL:  Dry

**AFTER COMPLETION** ☒ None

Depth (feet)	Sample Type	Description	Graphic	Pocket Penetrometer (tsf)	Blow Counts	% Swell	TEST RESULTS					
							Plastic Limit			Liquid Limit		
0							10	20	30	40	50	
	C	Hard dark brown LEAN CLAY with sand (CL)		4.5								
				4.5								
				4.5								
5		Hard tan and red LEAN CLAY with sand (CL)	6		4.5							
				4.5								
			10.5									
	X	Medium dense red CLAYEY SAND (SC)										
15				35/18"								
	X	Very dense to dense red SILTY SAND with gravel (SM)										
			17.5		89/18"							
20	T	Gray SHALE										
				50/0.75"								
				50/1.5"								
		Boring Completed at 21 Feet										
25												
30												
35												

**This information pertains only to this boring and should not be interpreted as being indicative of the site.**

Page 1 of 2

**Boring**  
**Location:** 32.132866, 97.475743



Project: Gravel Study  
Client: Ryon Fenn  
Project Location: 415 SH 174, Blum, Texas 76627  
FG Project No.: 24604

**Date Drilled:** 7/18/2024  
**Logged By:** DLF  
**Drilled By:** MidTex  
**Drill Rig:** CME 55

FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA						Soil Type Graphic	Depth (feet)		
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits					Free Swell (%)	Fines Content ( % )
								Liquid Limit	Plastic Limit	Plasticity Index				
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## Page 2 of 2



**Boring**  
**Location:** 32.132866, 97.475743

Page 2 of 2



Project: Gravel Study  
Client: Ryon Fenn  
Project Location: 415 SH 174, Blum, Texas 76627  
FG Project No.: 24604

**Date Drilled:** 7/18/2024  
**Logged By:** DLF  
**Drilled By:** MidTex  
**Drill Rig:** CME 55

FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA						Soil Type Graphic	Depth (feet)		
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits					Free Swell (%)	Fines Content ( % )
								Liquid Limit	Plastic Limit	Plasticity Index				
	31		4.5	Hard, Tan and Light gray Fat Clay with limestone fragments (CH)		26							31	
	32												32	
	33												33	
	34												34	
	35												35	
	36												36	
	37												37	
	38												38	
	39												39	
	40												40	
	41												41	
	42	✕	NBC	Gray LIMESTONE									42	
	43			Boring completed at 42 feet									43	
	44												44	
	45												45	
	46												46	
	47												47	
	48												48	
	49												49	
	50												50	
	51												51	
	52												52	
	53												53	
	54												54	
	55												55	
	56												56	
	57												57	
	58												58	
	59												59	
	60		60											
GROUND WATER INFORMATION				BORING ADVANCEMENT METHOD		NOTES								
Depth Free Water First Encountered (feet):			18	Solid Stem Auger		Strata boudries may not be exact								
				BORING ABANDONMENT METHOD										
Water Level at Completion of Drilling (feet):			15.5	Soil cuttings										

Page 1 of 2

**Boring**  
**Location:** 32.133843, 97.476105



Project: Gravel Study  
Client: Ryon Fenn  
Project Location: 415 SH 174, Blum, Texas 76627  
FG Project No.: 24604

**Date Drilled:** 7/18/2024  
**Logged By:** DLF  
**Drilled By:** MidTex  
**Drill Rig:** CME 55

FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA						Soil Type Graphic	Depth (feet)		
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits					Free Swell (%)	Fines Content ( % )
								Liquid Limit	Plastic Limit	Plasticity Index				
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## Page 2 of 2

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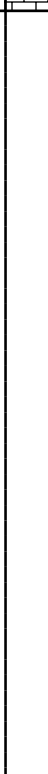


**Date Drilled:** 7/18/2024

Logged By: DLF

**Drilled By:** MidTex

Drill Rig: CME 55









FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA							Soil Type Graphic	Depth (feet)		
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits			Free Swell (%)			Fines Content ( % )	
								Liquid Limit	Plastic Limit	Plasticity Index					
	31			Very stiff to hard, Reddish brown and Light gray Lean Clay with Limestone fragments (CL)										31	
	32														32
	33														33
	34														34
	35	X	50/0.5"	Gray LIMESTONE										35	
	36			Boring completed at 35 feet										36	
	37														37
	38														38
	39														39
	40														40
	41														41
	42														42
	43														43
	44														44
	45														45
	46														46
	47														47
	48														48
	49														49
	50														50
	51														51
	52														52
	53														53
	54														54
	55														55
	56														56
	57												57		
	58												58		
	59												59		
	60												60		
GROUND WATER INFORMATION				BORING ADVANCEMENT METHOD		NOTES									
Depth Free Water First Encountered (feet):		21		Solid Stem Auger		Strata boudries may not be exact									
				BORING ABANDONMENT METHOD											
Water Level at Completion of Drilling (feet):		15		Soil cuttings											

## Page 1 of 2



**Franklin**  
**Geotechnical** LLC

**Date Drilled:** 7/18/2024  
**Logged By:** DLF  
**Drilled By:** MidTex  
**Drill Rig:** CME 55

FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA						Soil Type Graphic	Depth (feet)			
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits					Free Swell (%)	Fines Content ( % )	
								Liquid Limit	Plastic Limit	Plasticity Index					
	1			Very stiff to hard, Reddish brown Lean Clay (CL)										1	
	2														2
	3														3
	4														4
	5														5
	6														6
	7						11		31	17	14				7
	8														8
	9			Red Clayey Sand (SC)										9	
	10													10	
	11			Light brown Lean Clay (CL)										11	
	12													12	
	13													13	
	14			Very stiff, Reddish Brown Lean Clay with sand (CL)		15		29	22	7		66		14	
	15														15
	16														16
	17														17
	18			Tan LIMESTONE										18	
	19														19
	20														20
	21														21
	22														22
	23														23
	24														24
	25														25
	26														26
	27														27
	28														28
	29														29
	30														30
GROUND WATER INFORMATION				BORING ADVANCEMENT METHOD		NOTES									
Depth Free Water First Encountered (feet):		Dry	Solid Stem Auger			Strata boudries may not be exact									
			BORING ABANDONMENT METHOD												
Water Level at Completion of Drilling (feet):		Dry	Soil cuttings												



# Boring GB-3

Page 2 of 2

Boring  
Location: 32.134879, 97.476403

Page 2 of 2



Project: Gravel Study  
Client: Ryon Fenn  
Project Location: 415 SH 174, Blum, Texas 76627  
FG Project No.: 24604

Date Drilled: 7/18/2024  
Logged By: DLF  
Drilled By: MidTex  
Drill Rig: CME 55

FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA							Soil Type Graphic	Depth (feet)	
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits			Free Swell (%)			Fines Content ( % )
								Liquid Limit	Plastic Limit	Plasticity Index				
	31			Tan LIMESTONE										31
	32			Gray LIMESTONE										32
	33													33
	34													34
	35													35
	36			Boring completed at 35 feet										36
	37													37
	38													38
	39													39
	40													40
	41													41
	42													42
	43													43
	44													44
	45													45
	46													46
	47													47
	48													48
	49													49
	50													50
	51													51
	52													52
	53													53
	54													54
	55													55
	56													56
	57													57
	58													58
	59													59
	60													60
GROUND WATER INFORMATION				BORING ADVANCEMENT METHOD		NOTES								
Depth Free Water First Encountered (feet):		Dry		Solid Stem Auger		Strata boudries may not be exact								
				BORING ABANDONMENT METHOD										
Water Level at Completion of Drilling (feet):		Dry		Soil cuttings										

## Page 1 of 2



**Franklin**  
**Geotechnical** LLC

**Date Drilled:** 7/18/2024  
**Logged By:** DLF  
**Drilled By:** MidTex  
**Drill Rig:** CME 55

FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA							Soil Type Graphic	Depth (feet)																								
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits			Free Swell (%)			Fines Content ( % )																							
								Liquid Limit	Plastic Limit	Plasticity Index																											
<div>Water Level</div> <div>11</div>	1	Solid	4.5	Hard, Brown Lean Clay (CL)	10							<div>CL</div>	1																								
	2		2																																		
	3		3																																		
	4		4																																		
	5	4.5	5										6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
	6																																				
	7																																				
	8		Red Clayey Sand (SC)											8																							
	9	Solid	1.5	Stiff, Red Lean Clay with sand (CL)	21						78	<div>CL</div>	9																								
	10		10																																		
	11		11																																		
	12		12																																		
	13	X	12/12"										13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
	14																																				
	15																																				
	16																																				
	17			Medium dense, Red Clayey Sand (SC)	20						39	<div>SC</div>	17																								
	18												18																								
	19	X	18/12"										19	20	21	22	23	24	25	26	27	28	29	30													
	20																																				
	21																																				
	22																																				
	23			Medium dense, Red Silty Sand with gravel (SM)	23						43	<div>SM</div>	23																								
	24	X	24/12"										24	25	26	27	28	29	30																		
	25		13/12"																																		
	26		27/12"																																		
	27			- very loose to loose at 28' - possible cave in	22						36	<div>SM</div>	27																								
	28												28																								
	29	X	3/12"										29	30																							
	30		10/12"																																		
GROUND WATER INFORMATION				BORING ADVANCEMENT METHOD		NOTES																															
Depth Free Water First Encountered (feet):		12.5		Solid Stem Auger		Strata boudries may not be exact																															
				BORING ABANDONMENT METHOD																																	
Water Level at Completion of Drilling (feet):		13		Soil cuttings																																	

# Boring GB-4

Page 2 of 2

Boring  
Location: 32.136150, 97.477760

Page 2 of 2



Project: Gravel Study  
Client: Ryon Fenn  
Project Location: 415 SH 174, Blum, Texas 76627  
FG Project No.: 24604

Date Drilled: 7/18/2024  
Logged By: DLF  
Drilled By: MidTex  
Drill Rig: CME 55

FIELD DATA				SUBSURFACE MATERIAL DESCRIPTION	LABORATORY DATA							Soil Type Graphic	Depth (feet)	
Water Level	Depth (feet)	Sample Type	Penetrometer (tsf) SPT or TCP (bpf)		Compressive Strength (tsf)	Moisture Content (%)	Dry Unit Weight (pcf)	Atterberg Limits			Free Swell (%)			Fines Content ( % )
								Liquid Limit	Plastic Limit	Plasticity Index				
	31	✗	11/12"	Medium dense, Red Silty Sand with gravel (SM)		19						29		31
	32													32
	33													33
	34													34
	35	✗	NBC	Gray LIMESTONE										35
	36			Boring completed at 35 feet										36
	37													37
	38													38
	39													39
	40													40
	41													41
	42													42
	43													43
	44													44
	45													45
	46													46
	47													47
	48													48
	49													49
	50													50
	51													51
	52													52
	53													53
	54													54
	55													55
	56													56
	57													57
	58													58
	59													59
	60													60
GROUND WATER INFORMATION				BORING ADVANCEMENT METHOD		NOTES								
Depth Free Water First Encountered (feet):		12.5		Solid Stem Auger		Strata boudries may not be exact								
Water Level at Completion of Drilling (feet):		13		BORING ABANDONMENT METHOD										
				Soil cuttings										

# **APPENDIX B**

## **Laboratory Test Results**



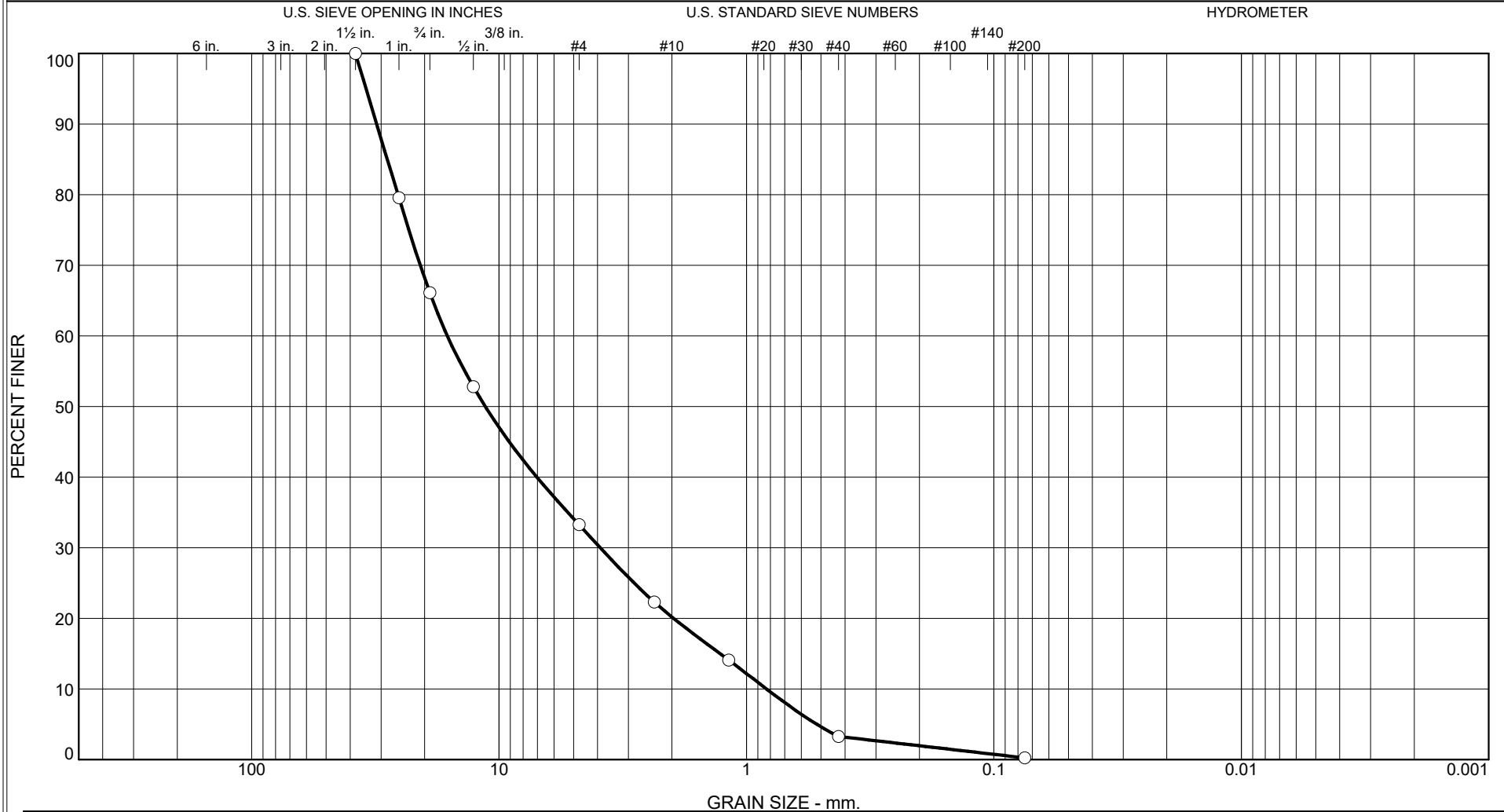
## LABORATORY TEST DATA SUMMARY SHEET

<b>PROJECT:</b> Gravel Investigation		<b>START DATE:</b> 9/18/2022
<b>PROJECT NUMBER:</b> 220505		<b>FINISH DATE:</b> 9/9/2022
<b>PROJECT LOCATION:</b> 415 TX 174, Blum, Texas		<b>TECHNICIAN(S):</b> LM
<b>CLIENT:</b> Ryan Fenn		<b>DATE SAMPLED:</b> 8/17/2022
<b>PROJECT MANAGER:</b> Dan Franklin		

Boring No.	Depth (ft.)		Sample No.	Description of Sample	USCS Classification	Atterberg Limits			Moisture Content (%)	(% Passing No. 200 Sieve)	(% Retained No. 40 Sieve)	(% Retained No. 4 Sieve)	Unit Weight / Compression Tests					Consol. / Swell Tests Results			
	Top	Bott				LL	PL	PI					Dry Unit Weight (pcf)	Moisture Content (%)	Compressive Strength (tsf)	Failure Strain (%)	Confining Pressure (psi)	Dry Unit Weight (pcf)	Final Swell Moisture Content (%)	Free Swell (%)	Overburden Pressure (psf)
B-1	2.0	4.0		Brown and dark brown	LEAN CLAY (CL)	36	14	22	10												
B-1	6.0	8.0		Brown	LEAN CLAY with sand (CL)	45	14	31	12	54	17	0									
B-1	13.0	15.0		Red	CLAYEY SAND (SC)				9	14	3	0									
B-1	19.0	21.5		Red	CLAYEY SAND (SC)				7	49	6	0									
B-1	25.0	26.5		Tan	SILTY GRAVEL with sand (GM)				4	7	81	47									
B-1	27.0	28.5		Tan	SILTY GRAVEL with sand (GM)				5	0	97	67									
B-1	29.0	30.5		Tan	SILTY GRAVEL with sand (GM)				6	15	81	51									
B-1	31.0	32.5		Tan	SILTY GRAVEL with sand (GM)				8	14	85	59									
B-1	33.0	34.5		Tan	SILTY GRAVEL with sand (GM)				5	14	85	63									
B-1	35.0	36.5		Tan	SILTY GRAVEL with sand (GM)				6	0	98	83									
B-2	4.0	6.0		Brown and tan	LEAN CLAY with sand (CL)	47	14	33	8	82	6	0									
B-2	8.0	10.0		Brown and tan	LEAN CLAY with sand (CL)	41	14	27	14												
B-2	13.0	15.0		Red	LEAN CLAY with sand (CL)				8	66	5	0									
B-2	17.0	18.5		Red	LEAN CLAY with sand (CL)				10	62	5	0									
B-2	19.0	20.5		Red	CLAYEY SAND with gravel (SC)				11	18	58	32									
B-2	21.0	22.5		Tan	SILTY SAND with gravel (SM)				6	76	18	4									
B-2	23.0	24.5		Tan	SILTY SAND with gravel (SM)				4	14	56	19									
B-2	25.0	26.5		Tan	SILTY SAND with gravel (SM)				8	75	21	7									
B-2	27.0	28.5		Red	SILTY GRAVEL with sand (GM)				7	8	83	51									
B-3	0.0	2.0		Brown	LEAN CLAY with sand (CL)	31	16	15	5												
B-3	8.0	10.0		Red	LEAN CLAY with sand (CL)	35	15	20	7	58	8	0									
B-3	13.0	15.0		Red	LEAN CLAY with sand (CL)				14	59	11	0									
B-3	16.0	17.5		Red	SILTY SAND with gravel (SM)				9	9	19	2									
B-3	18.0	19.5		Red	SILTY SAND with gravel (SM)				10	15	50	20									
B-3	20.0	21.5		Red	SILTY SAND with gravel (SM)				9	11	46	10									
B-3	22.0	23.5		Red	SILTY SAND with gravel (SM)				13	15	58	19									
B-4	2.0	4.0		Dark brown	LEAN CLAY with sand (CL)	28	14	14	27	71	5	0									
B-4	6.0	8.0		Tan and red	LEAN CLAY with sand (CL)	40	11	29	9												
B-4	13.5	15.0		Red	CLAYEY SAND (SC)				8	20	1										
B-4	17.5	19.0		Red	SILTY SAND with gravel (SM)				13	32	63	30									



# Particle Size Distribution Report

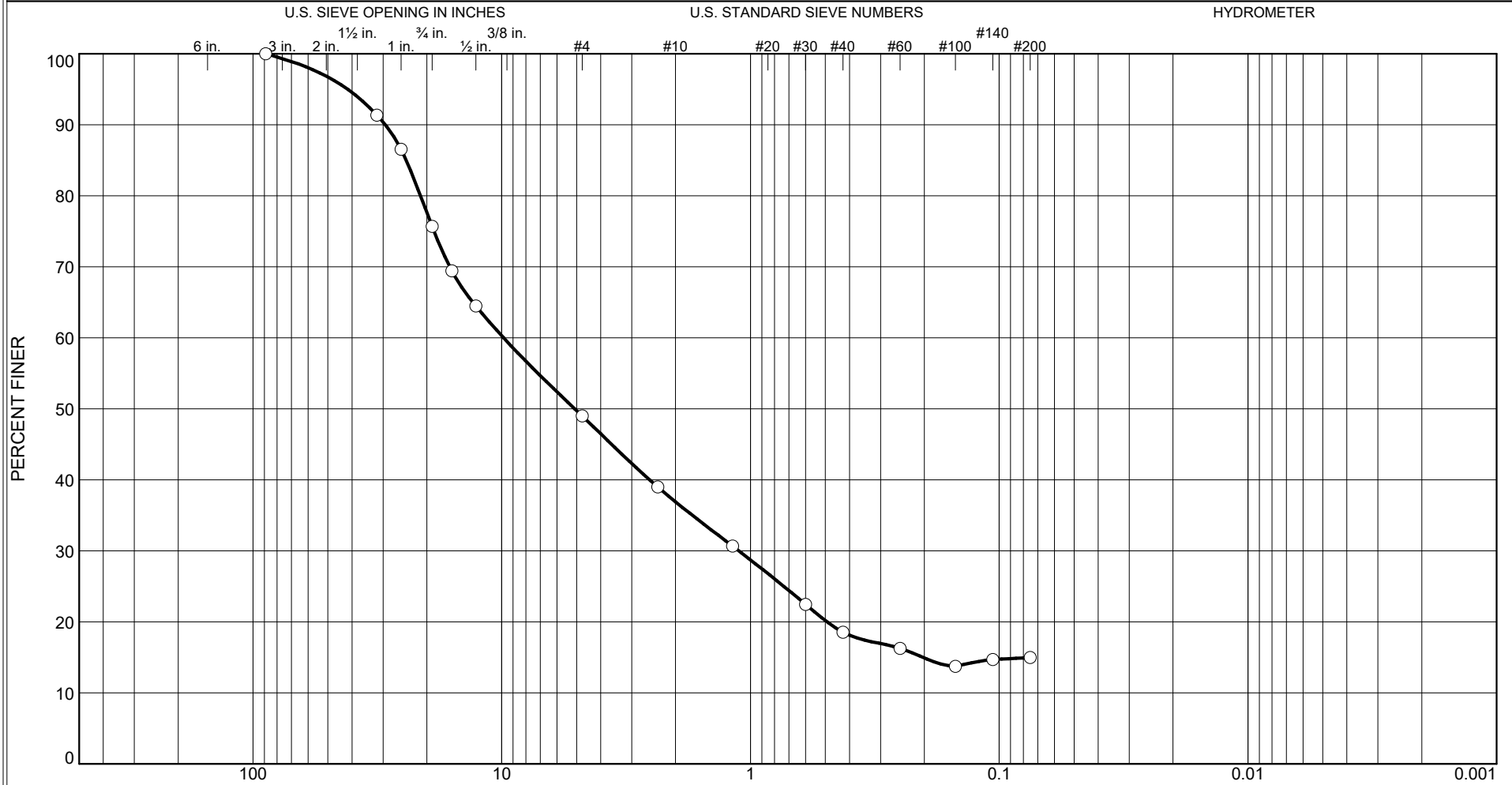


% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	33.9	32.8	13.1	16.9	3.0	0.3	

Identification		Date Sampled	Date Received	Date Tested
Location: B-1	Depth: 27-28.5'	8/17/22	8/17/22	9/8/22

Client Ryan Fenn		
Project Gravel Investigation		
Project No. 220505		
Figure B-2		

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.7	23.6	26.7	12.1	18.3	3.6	15.0	

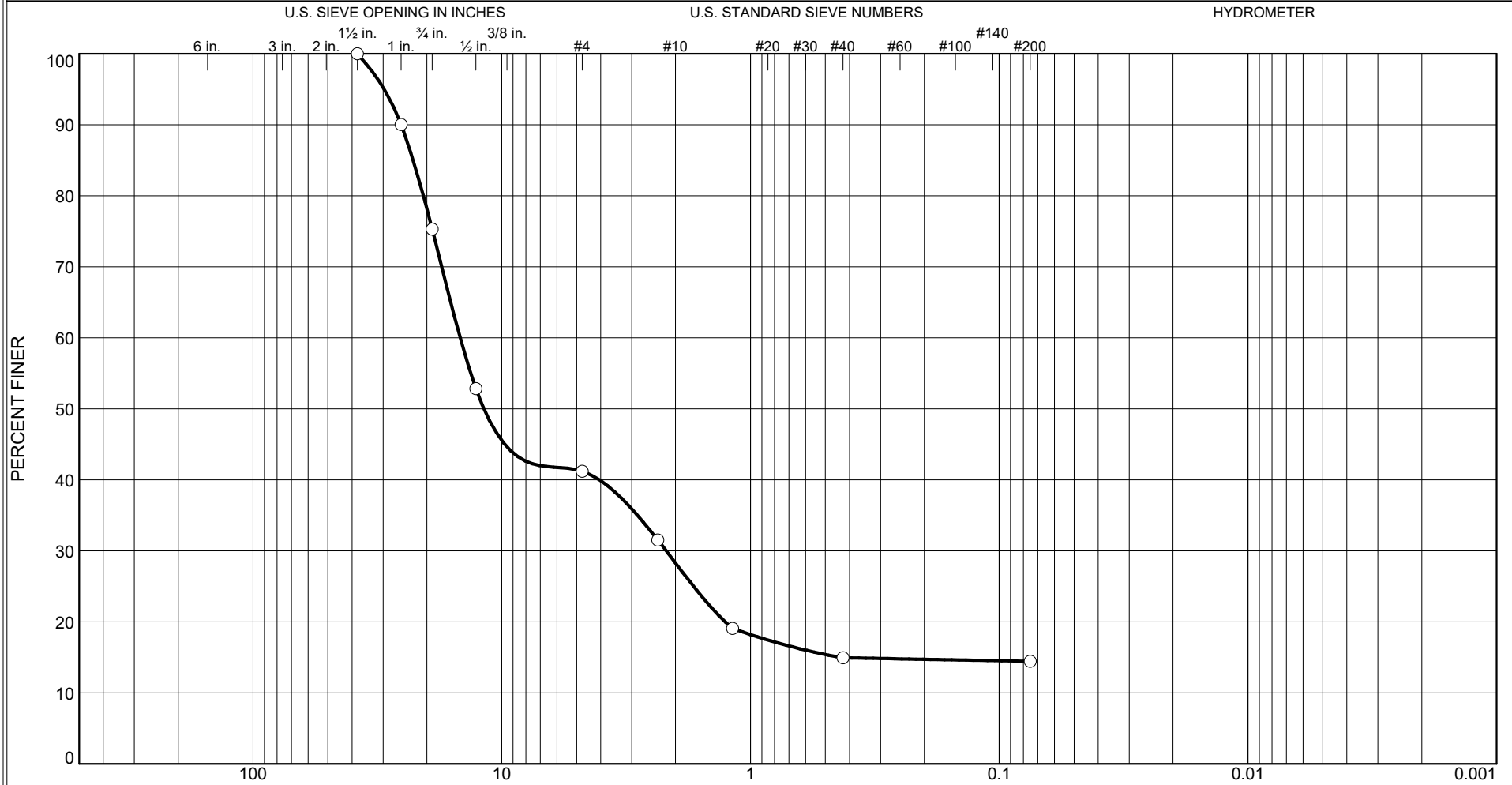
Identification		Date Sampled	Date Received	Date Tested
Location: B-1      Depth: 29-30.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-3





# Particle Size Distribution Report



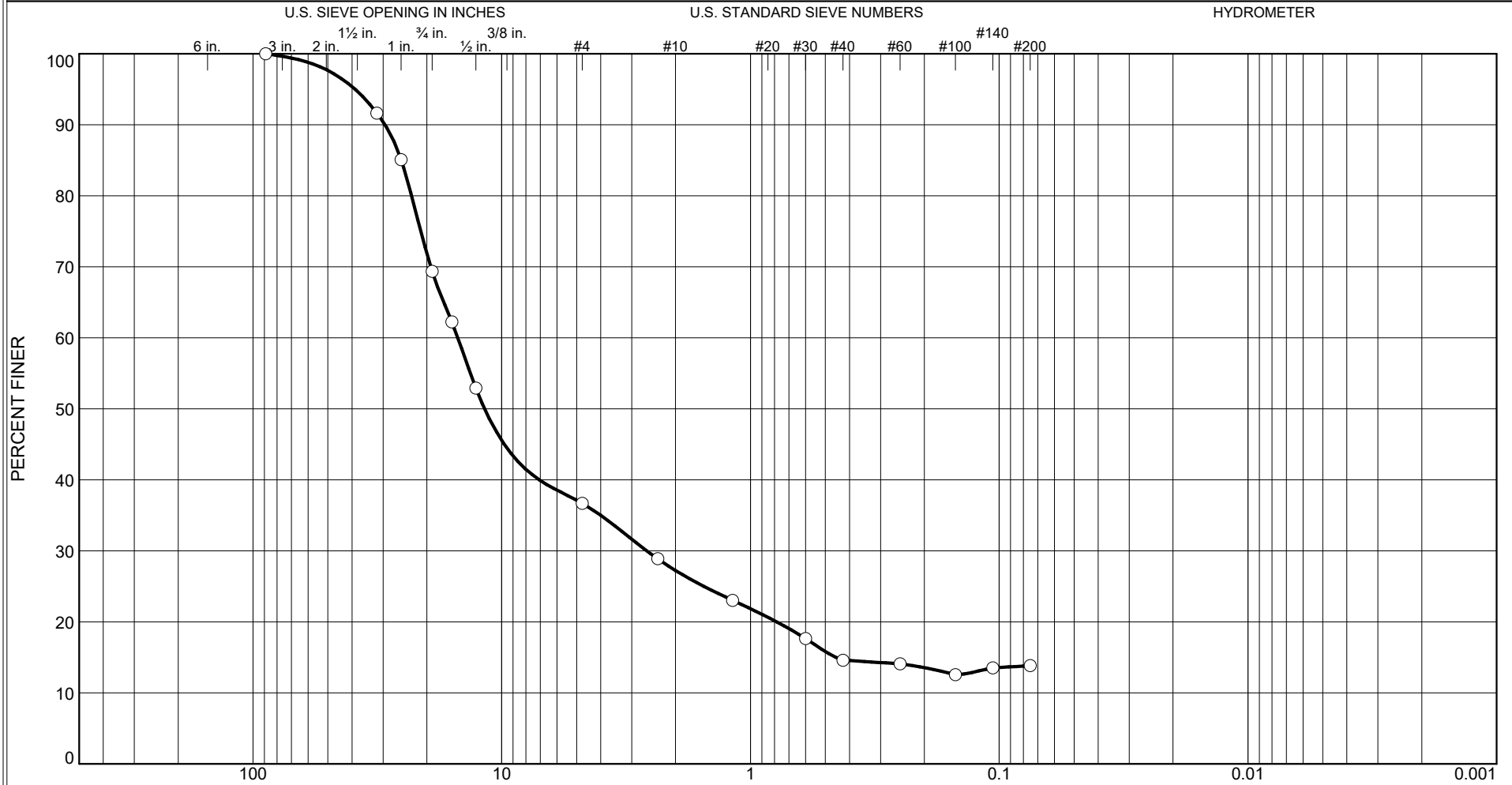
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	24.7	34.1	12.9	13.4	0.4	14.5	

Identification		Date Sampled	Date Received	Date Tested
Location: B-1	Depth: 31-32.5'	8/17/22	8/17/22	9/8/22

Client Ryan Fenn
Project Gravel Investigation
Project No. 220505
Figure B-4



# Particle Size Distribution Report



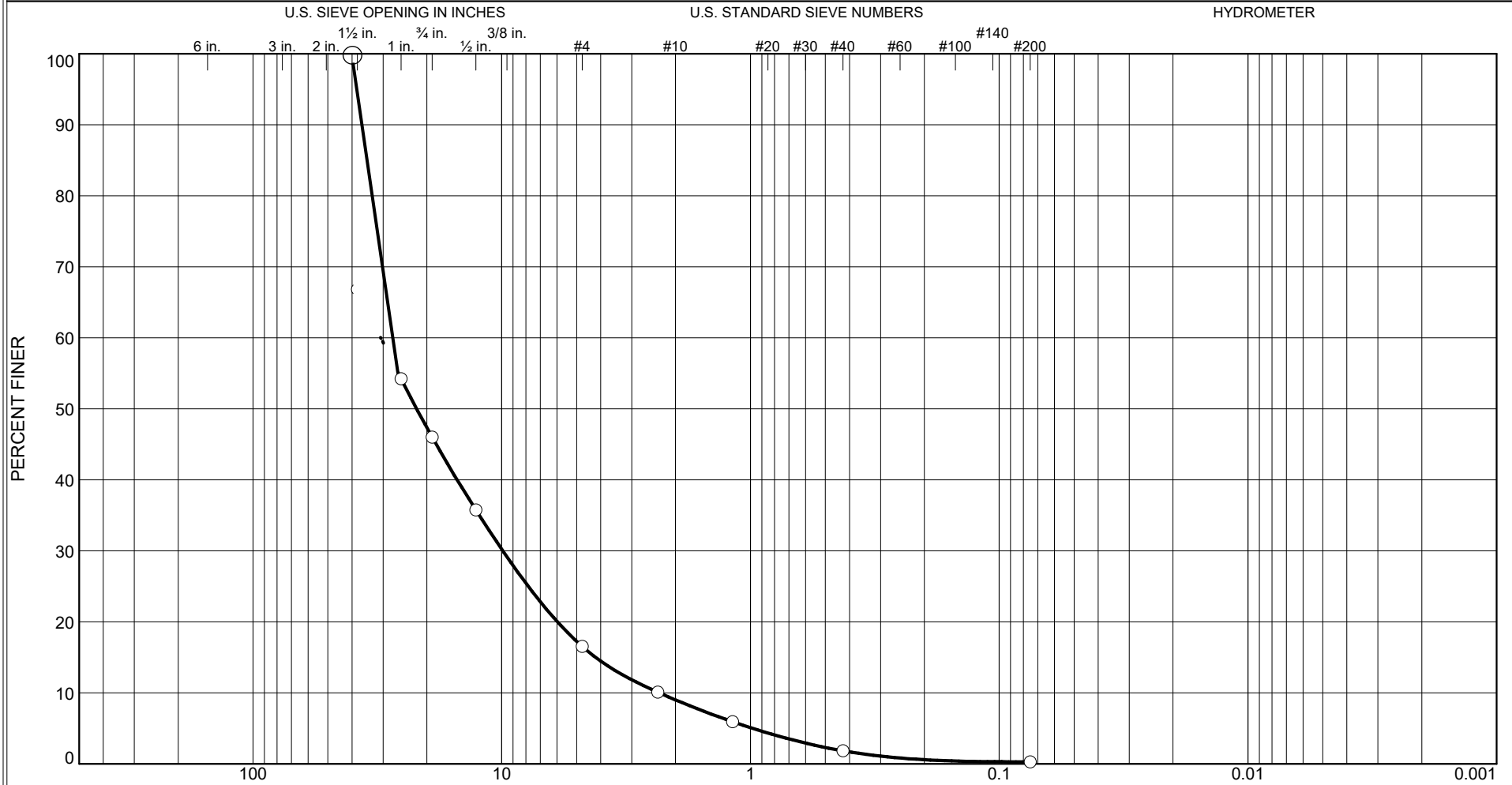
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.4	30.4	32.7	9.5	12.6	0.8	14.0	

Identification		Date Sampled	Date Received	Date Tested
Location: B-1      Depth: 33-34.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-5



# Particle Size Distribution Report



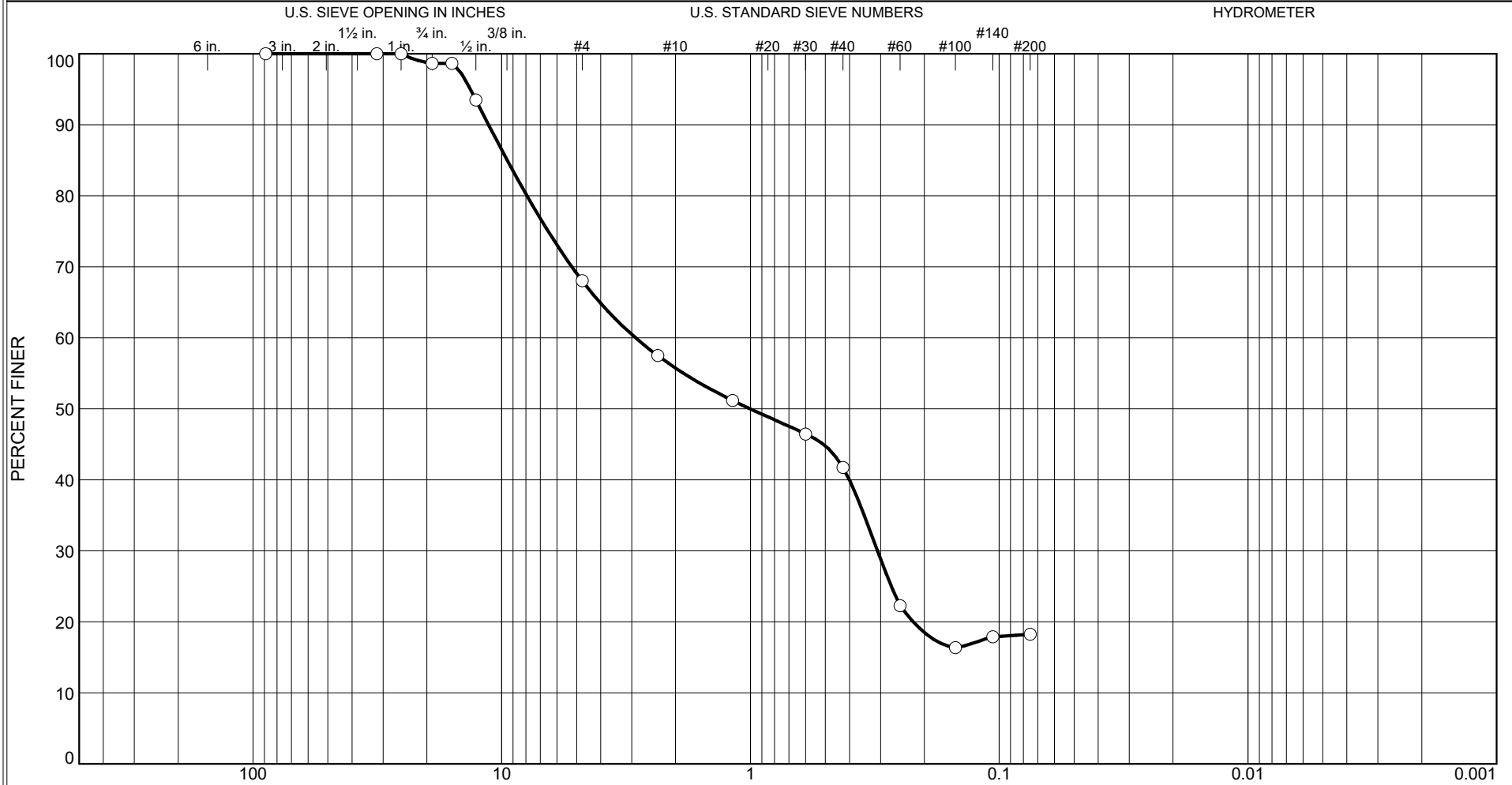
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	53.7	29.4	7.6	7.1	1.6	0.3	

Identification		Date Sampled	Date Received	Date Tested
Location: B-1	Depth: 35-36.5'	8/17/22	8/17/22	9/8/22

Client Ryan Fenn
Project Gravel Investigation
Project No. 220505
Figure B-6



# Particle Size Distribution Report



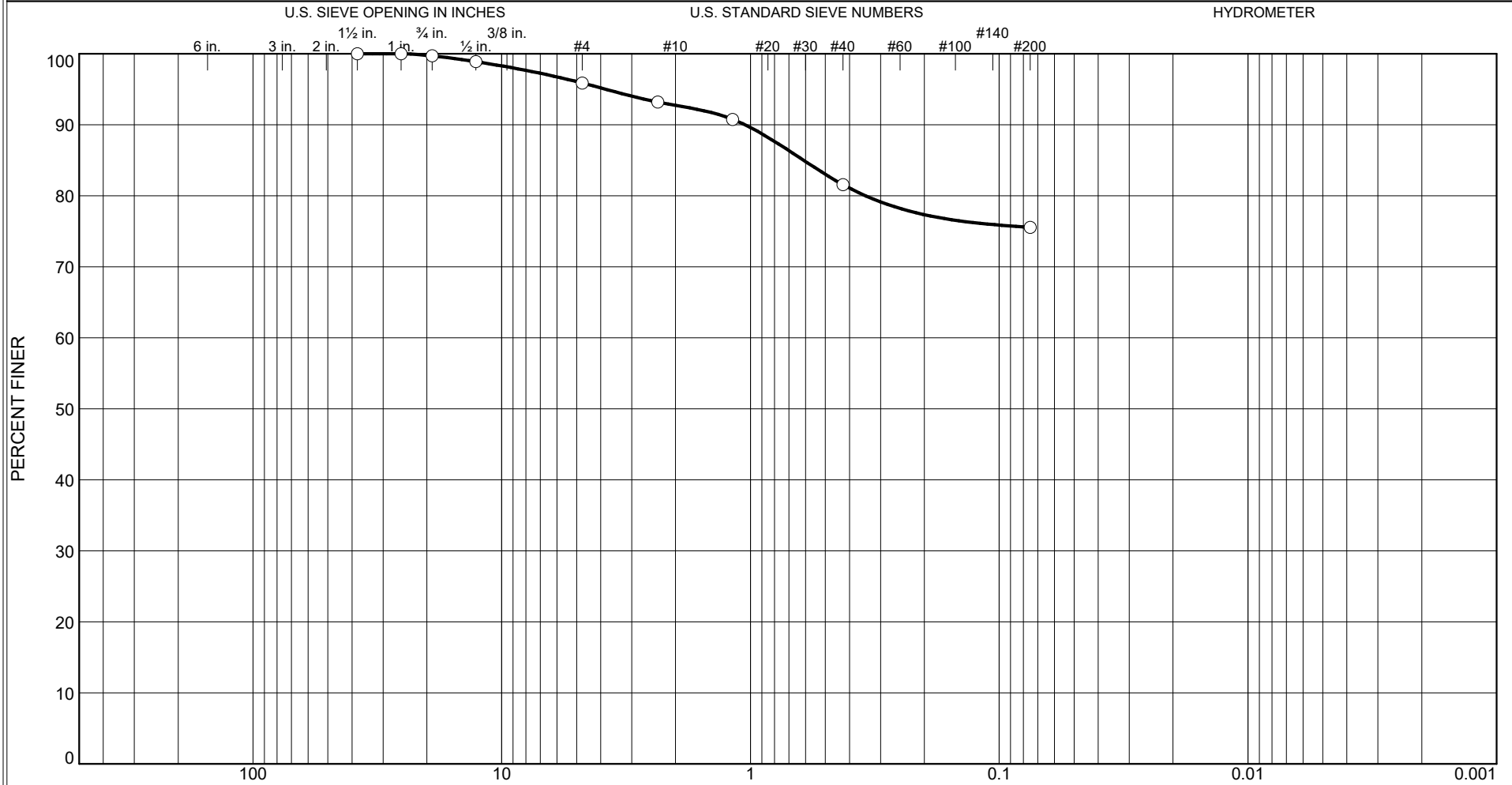
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.4	30.6	12.3	14.0	23.4	18.3	

Identification		Date Sampled	Date Received	Date Tested
Location: B-2      Depth: 19-20.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-7



# Particle Size Distribution Report



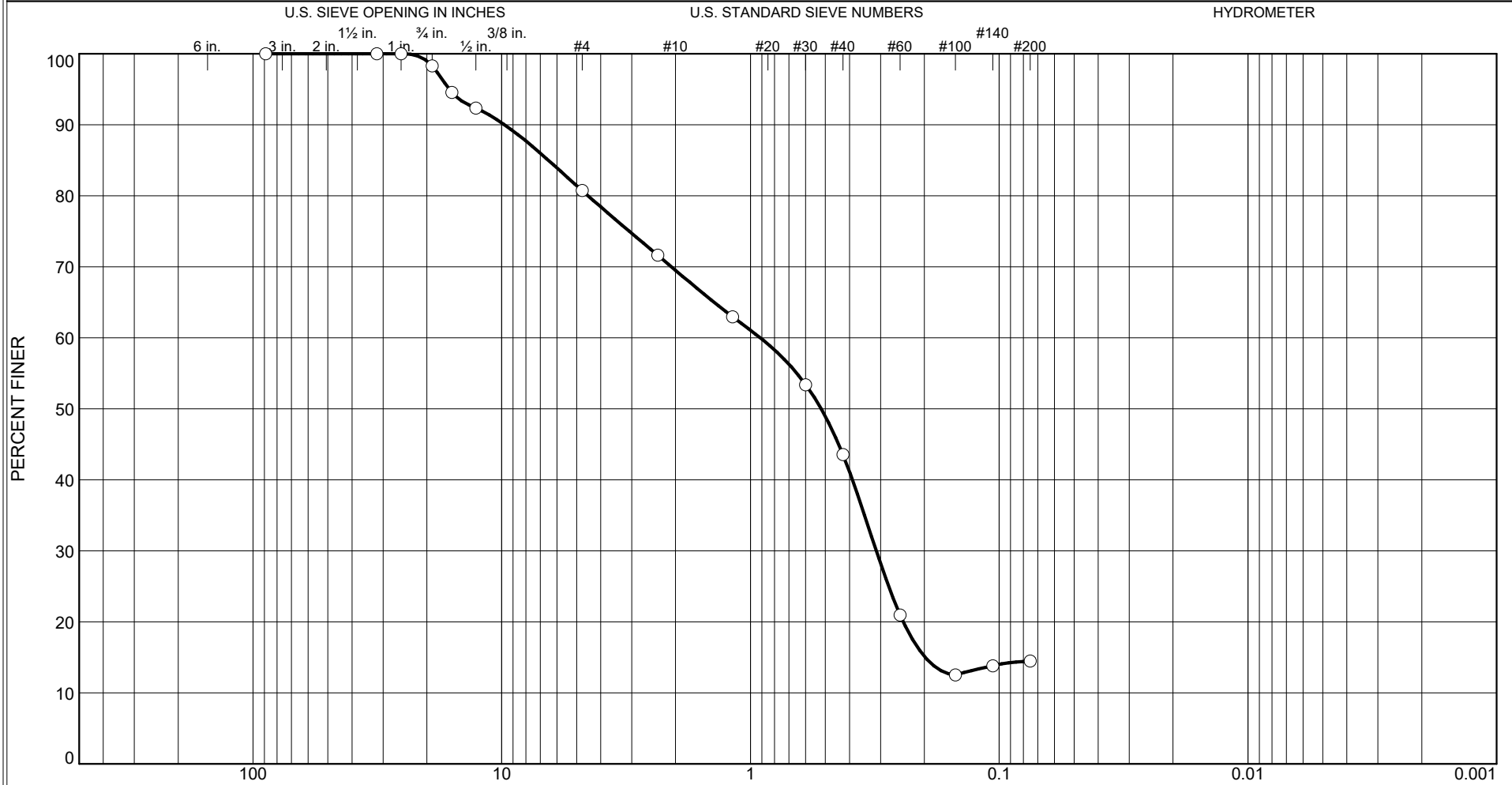
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.3	3.8	3.2	11.1	6.1	75.5	

Identification		Date Sampled	Date Received	Date Tested
Location: B-2	Depth: 21-22.5'	8/17/22	8/17/22	9/8/22

Client Ryan Fenn
Project Gravel Investigation
Project No. 220505
Figure B-8



# Particle Size Distribution Report



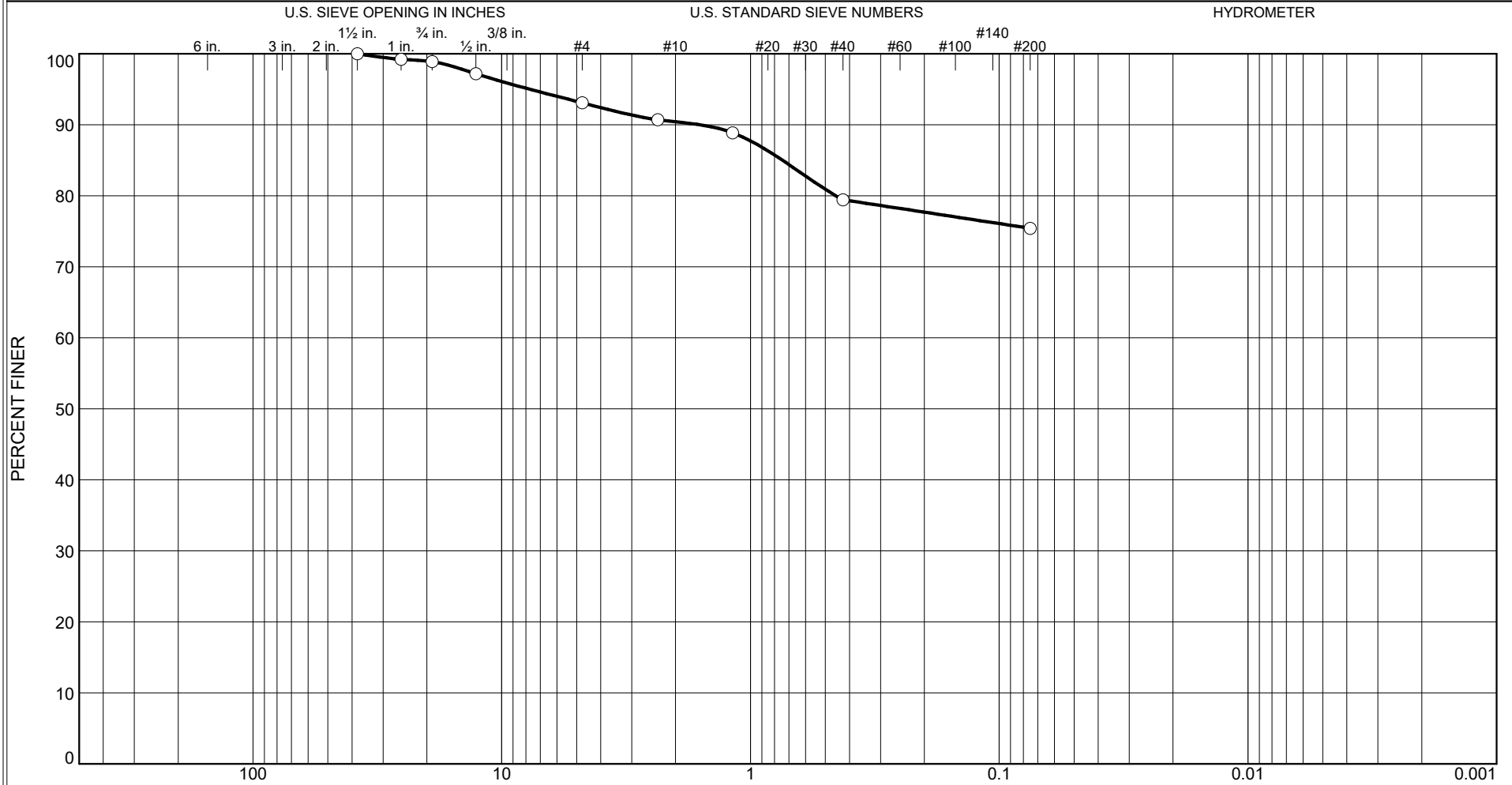
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.7	17.6	11.2	25.9	29.1	14.5	

Identification		Date Sampled	Date Received	Date Tested
Location: B-2      Depth: 23-24.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-9



# Particle Size Distribution Report



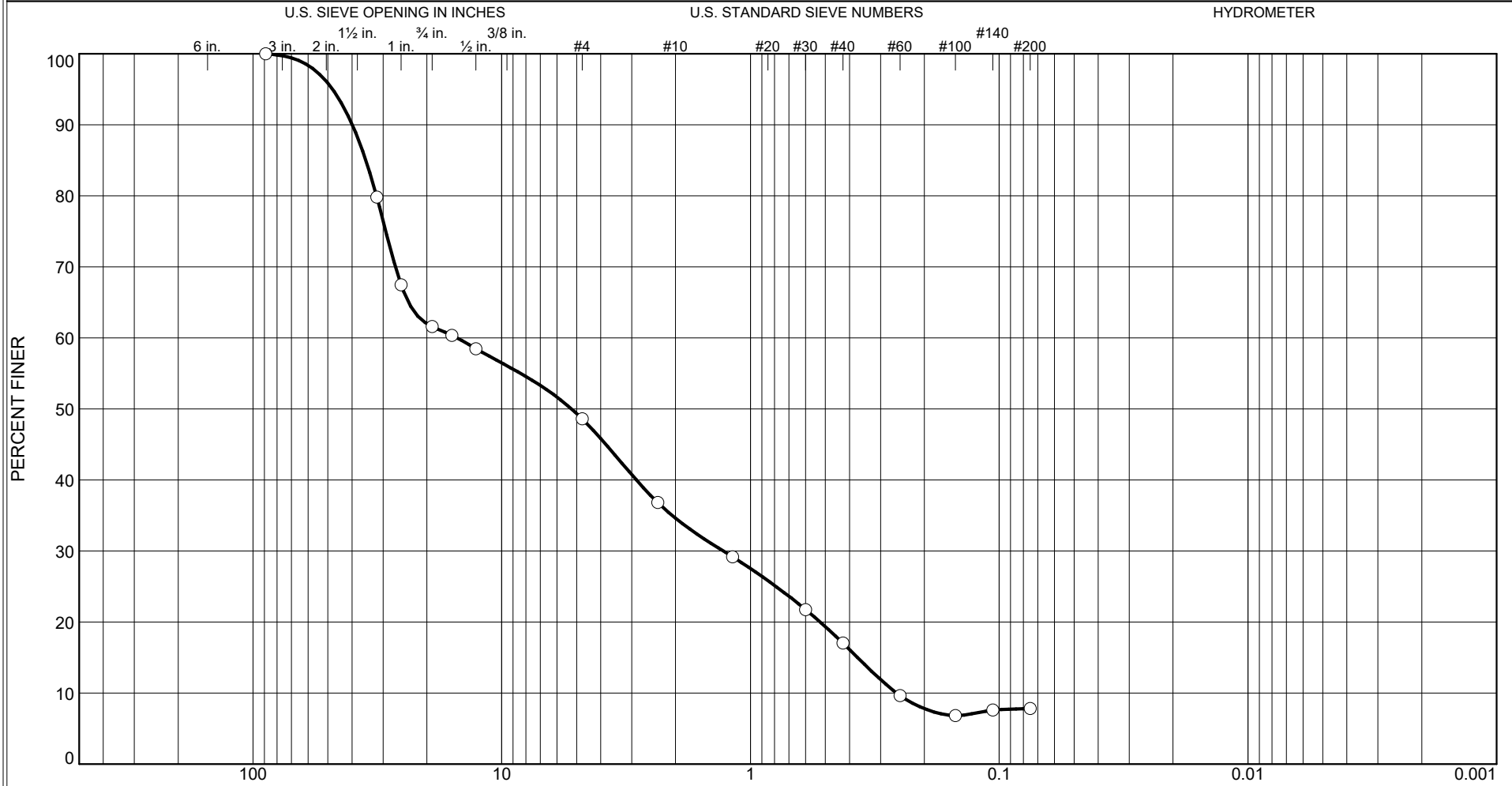
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.1	5.8	2.7	11.0	4.0	75.4	

Identification		Date Sampled	Date Received	Date Tested
Location: B-2	Depth: 25-26.5'	8/17/22	8/17/22	9/8/22

Client	Ryan Fenn
Project	Gravel Investigation
Project No.	220505
Figure	B-10



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.3	38.1	13.0	14.0	17.6	9.3	8.0	

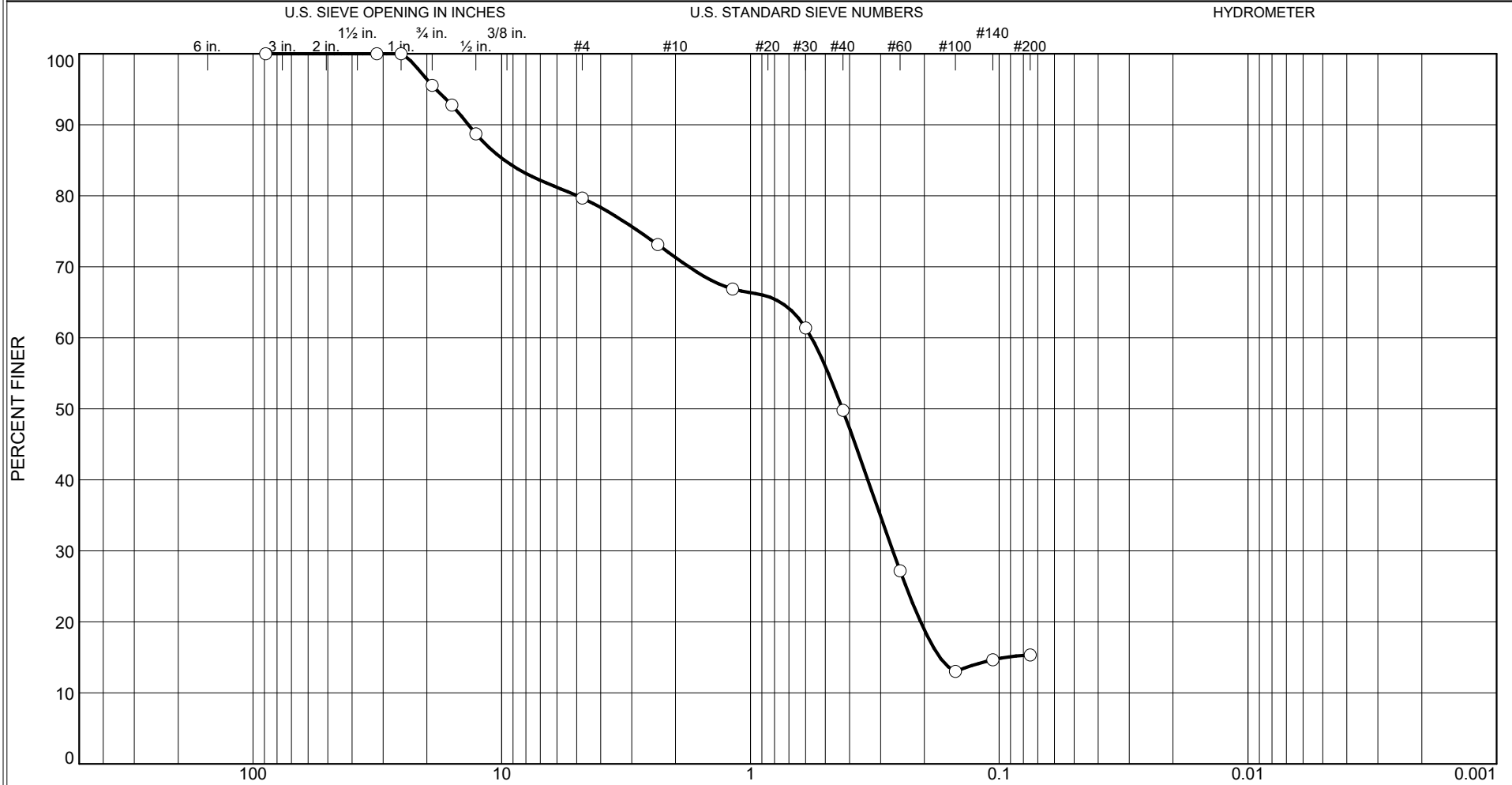
Identification		Date Sampled	Date Received	Date Tested
Location: B-2      Depth: 27-28.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-11





# Particle Size Distribution Report



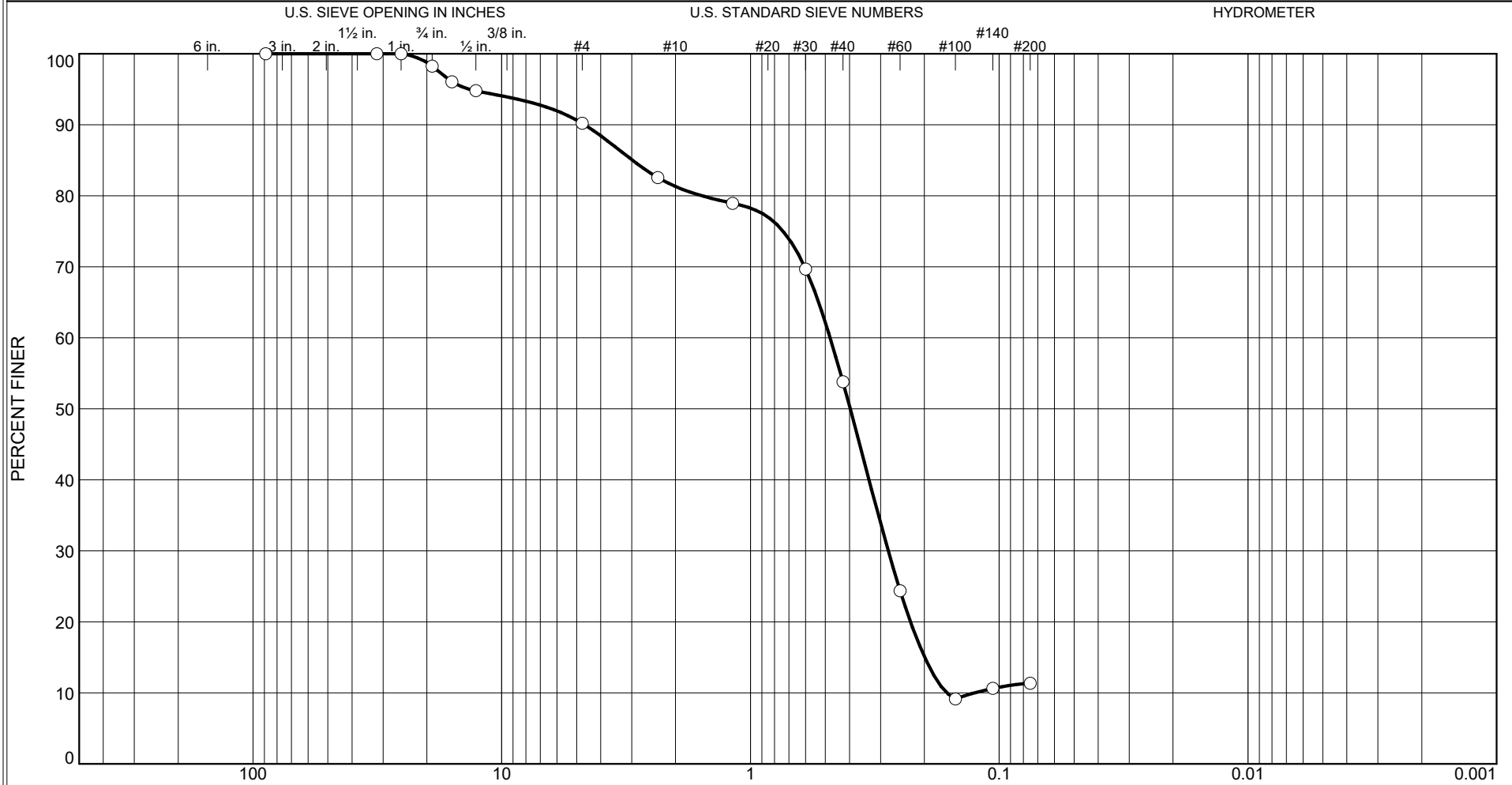
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.5	15.8	8.4	21.5	34.5	15.3	

Identification		Date Sampled	Date Received	Date Tested
Location: B-3      Depth: 18-19.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-12



# Particle Size Distribution Report



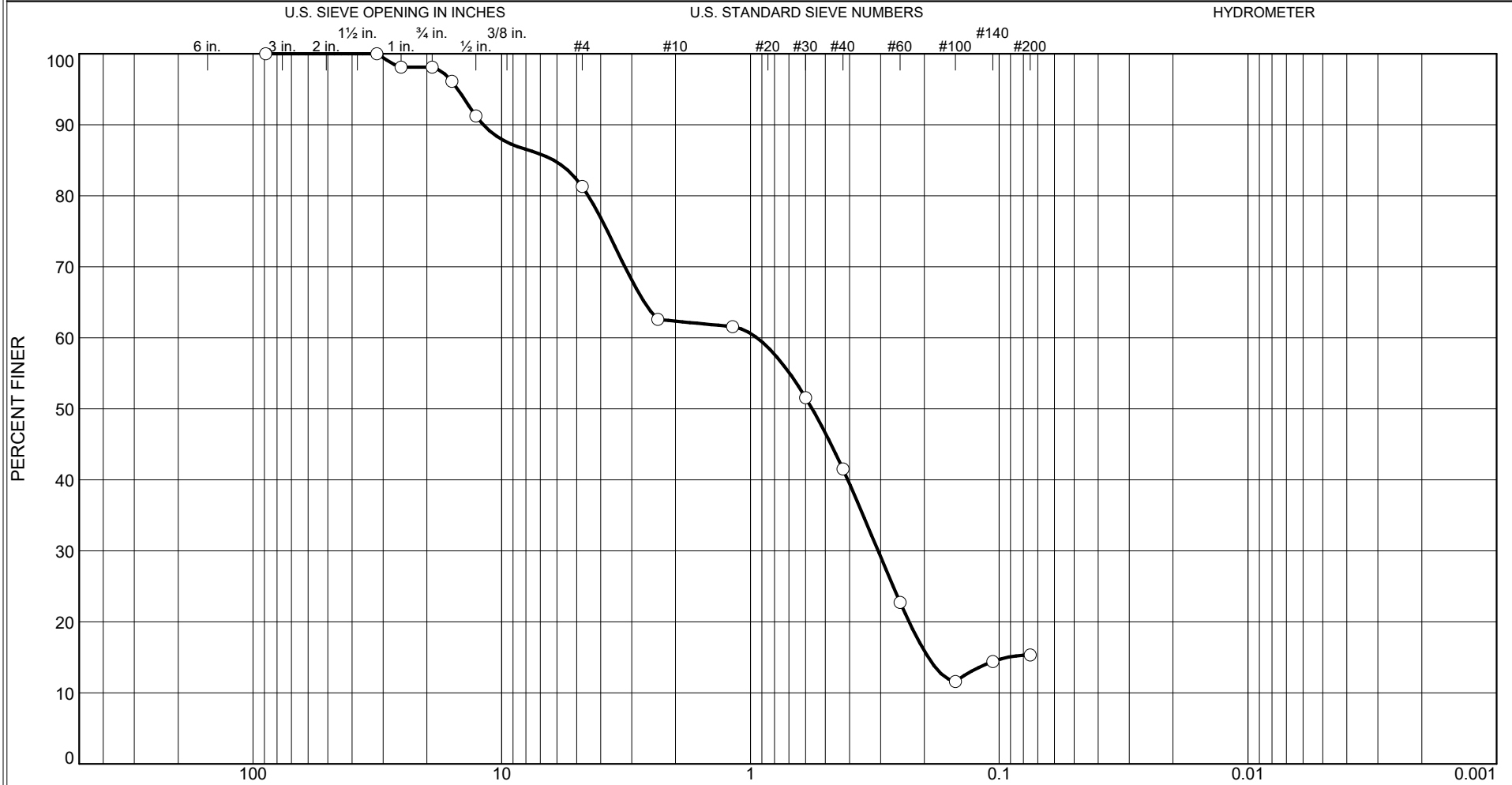
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.8	8.0	8.9	27.5	42.4	11.4	

Identification		Date Sampled	Date Received	Date Tested
Location: B-3      Depth: 20-21.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-13



# Particle Size Distribution Report

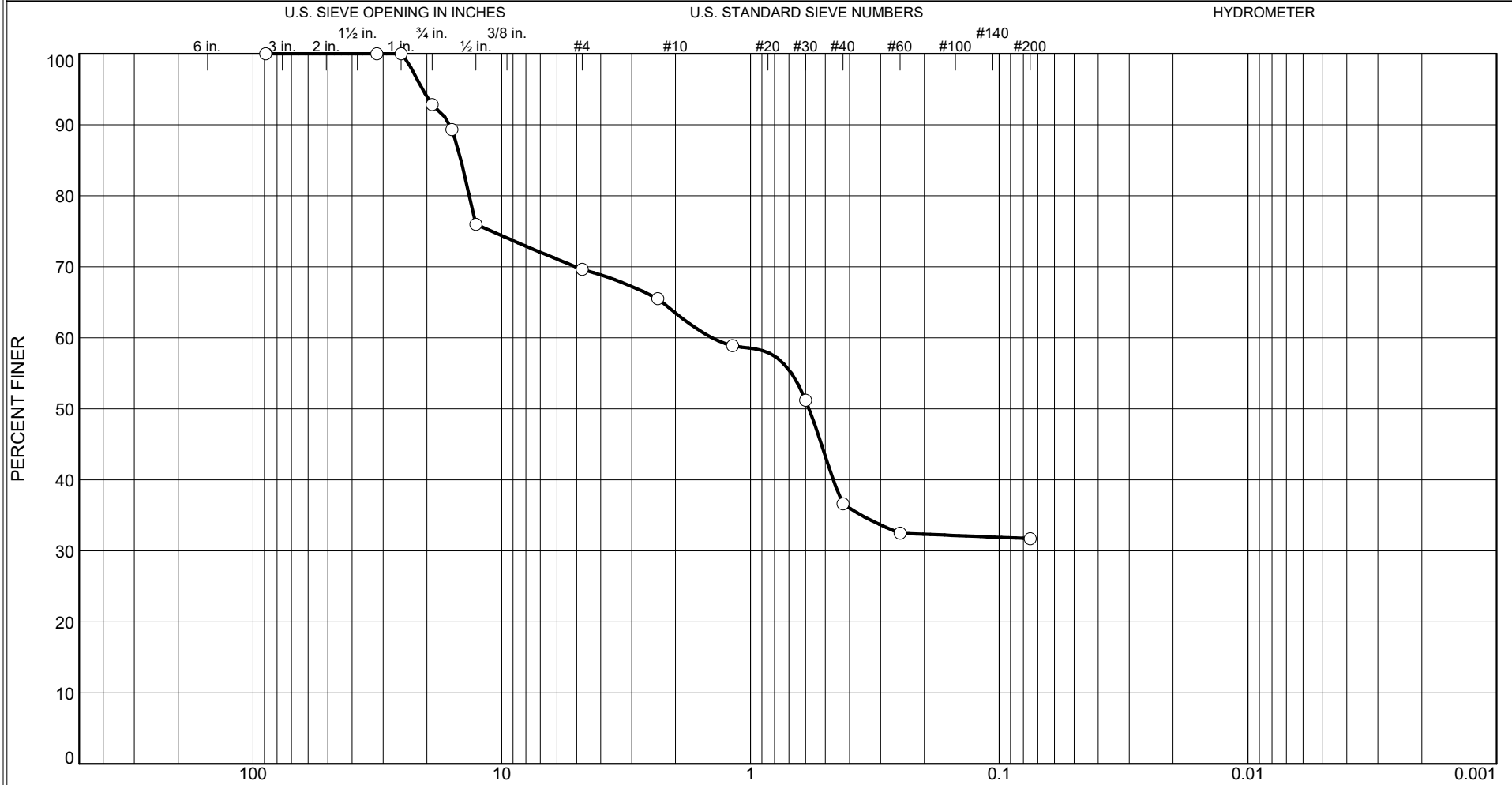


% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	1.9	16.8	19.0	20.8	26.1	15.4	

Identification		Date Sampled	Date Received	Date Tested
Location: B-3      Depth: 22-23.5'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn			
Project Gravel Investigation			
Project No. 220505	Figure B-14		

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	7.2	23.2	6.1	26.9	4.9	31.7	

Identification		Date Sampled	Date Received	Date Tested
Location: B-4      Depth: 17.5-19'		8/17/22	8/17/22	8/19/22

Client Ryan Fenn	
Project Gravel Investigation	
Project No. 220505	Figure B-15

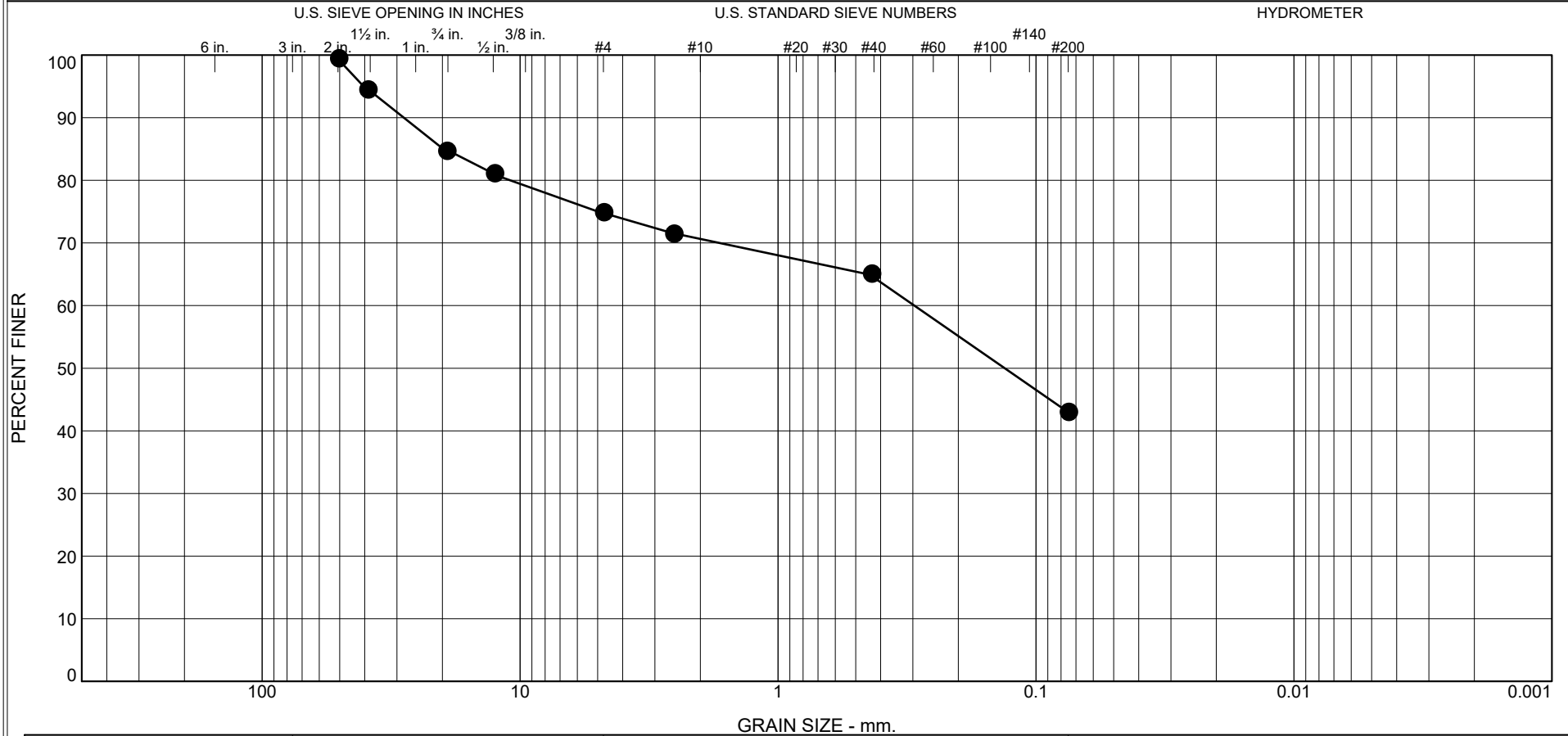




LABORATORY TEST DATA SUMMARY SHEET

PROJECT: Gravel Investigation			START DATE: 7/23/2024			Moisture Content (%) (%) Passing No. 200 Sieve (%) Passing No. 40 Sieve (%) Passing No. 4 Sieve				Unit Weight / Compression Tests				Swell Tests Results			
FG PROJECT NUMBER: 24604			FINISH DATE: 7/30/2024							Dry Unit Weight (pcf)	Moisture Content (%)	Compressive Strength (tsf)	Failure Strain (%)	Initial Swell Moisture Content (%)	Final Swell Moisture Content (%)	Free Swell (%)	Overburden Pressure (psf)
PROJECT LOCATION: Blum, Texas			TECHNICIAN(S): DFB														
CLIENT: Ryon Fenn			DATE SAMPLED: 7/18/2024														
FG PROJECT MANAGER: Dan Franklin																	
Boring No.	Depth (ft.)		Sample Description and USCS Classification	Atterberg Limits													
	Top	Bott.		LL	PL	PI											
GB-1	2.0	4.0	Dark Brown Fat Clay (CH)				13										
GB-1	8.0	10.0	Reddish Brown Lean Clay (CL)	25	19	6	18	86									
GB-1	18.0	20.0	Brown Fat Clay with Limestone Fragments (CH)				28										
GB-1	34.0	35.0	Tan and Light Gray Fat Clay with Ferris Stains, Shaley (CH)				26										
GB-2	4.0	6.0	Brown Lean Clay with Calcareous Nodules (CL)				14										
GB-2	13.0	15.0	Reddish Brown Lean Clay with Ferris Nodules (CL)	28	22	6	19										
GB-2	29.0	30.0	Reddish Brown and Light Gray Lean Clay with Limestone Fragments (CL)				22	80									
GB-3	6.0	8.0	Reddish Brown Lean Clay (CL)	31	17	14	11										
GB-3	13.0	15.0	Reddish Brown Lean Clay with Sand (CL)	29	22	7	15	66									
GB-4	0.0	2.0	Brown Lean Clay (CL)				10										
GB-4	8.0	10.0	Red Lean Clay (CL)				21	78									
GB-4	18.5	20.0	Red Clayey Sand (SC)				20	39									
GB-4	23.0	24.0	Red Silty Sand with Gravel (SM)				23	43	65	75							
GB-4	24.0	25.0	Red Silty Sand with Gravel (SM)				14	25	51	66							
GB-4	25.0	26.0	Red Silty Sand with Gravel (SM)				17	28	61	69							
GB-4	29.0	30.0	Red Silty Sand with Gravel (SM)				22	36	64	79							
GB-4	30.0	31.0	Red Silty Sand with Gravel (SM)				19	29	52	65							

# Particle Size Distribution Report

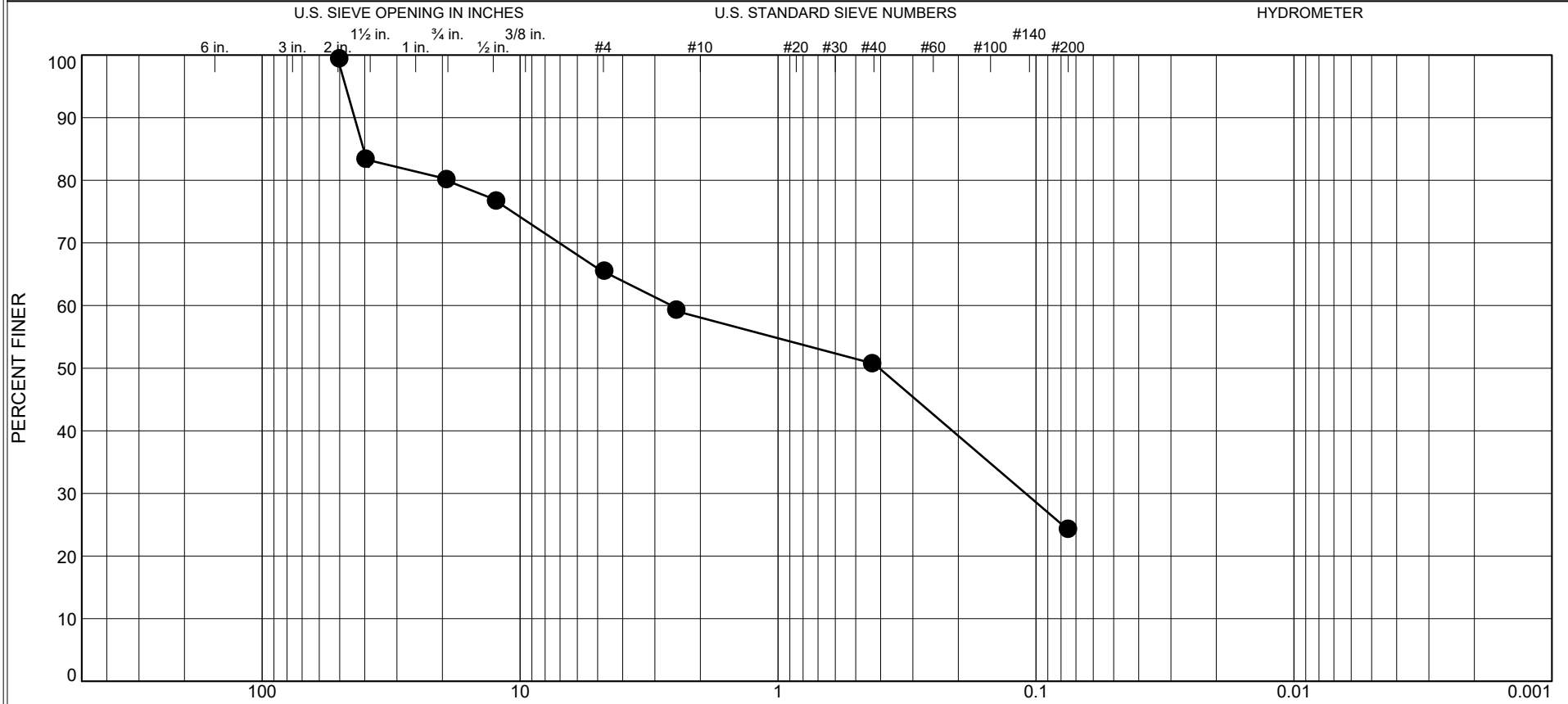


% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	16.5	8.7	3.8	7.0	21.4	42.6	

Identification		Date Sampled	Date Received	Date Tested
○ Location: Boring GB-4 Depth: 23-24 Feet		7/18/24	7/22/24	7/29/24

Client	Ryon Fenn		
Project	Gravel Investigation		
Project No. 24604	Figure B-16		

# Particle Size Distribution Report

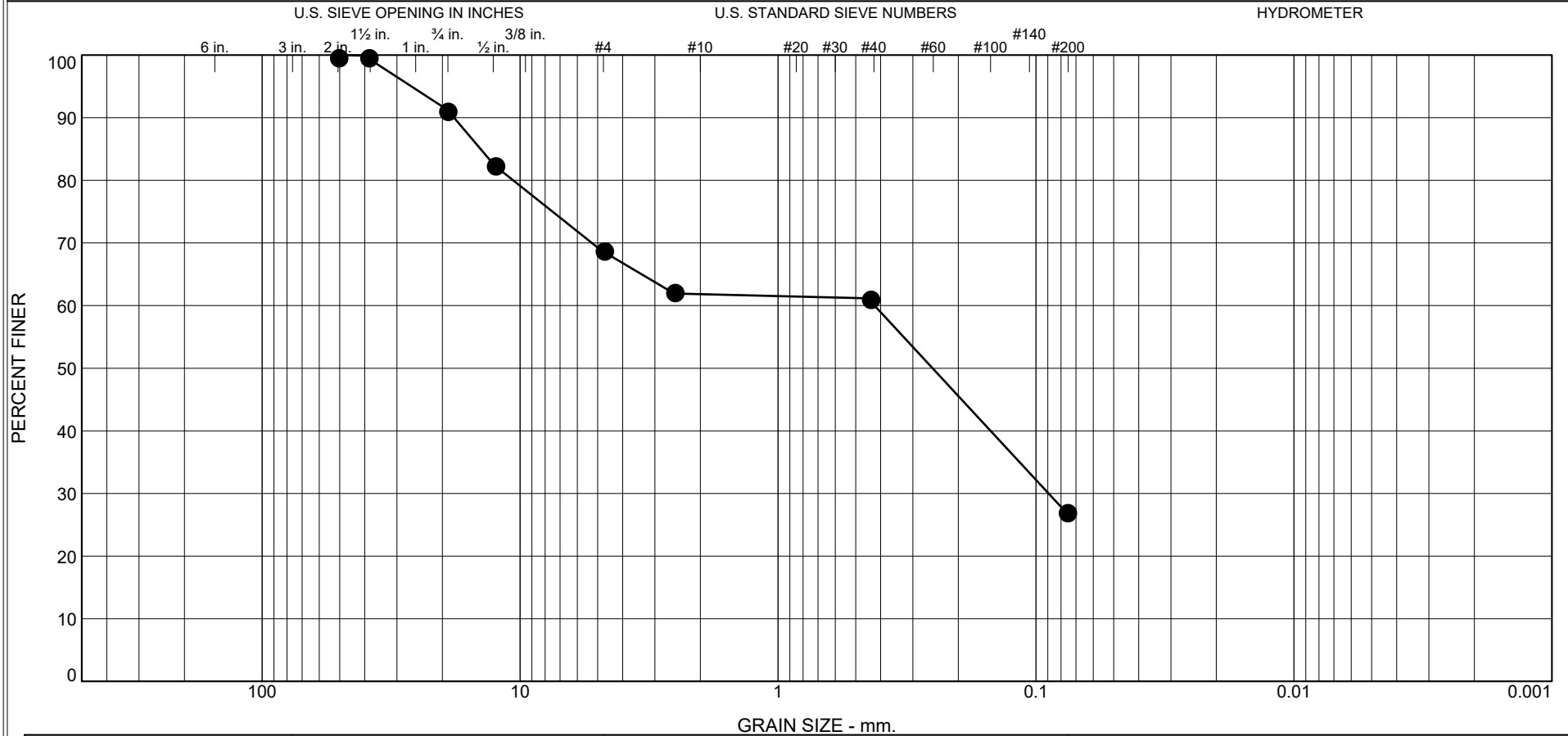


% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	20.2	14.1	7.7	7.0	26.2	24.8	

Identification		Date Sampled	Date Received	Date Tested
○ Location: Boring GB-4 Depth: 24-25 Feet		7/18/24	7/22/24	7/29/24

Client Ryon Fenn			
Project Gravel Investigation			
Project No. 24604	Figure B-17		

# Particle Size Distribution Report



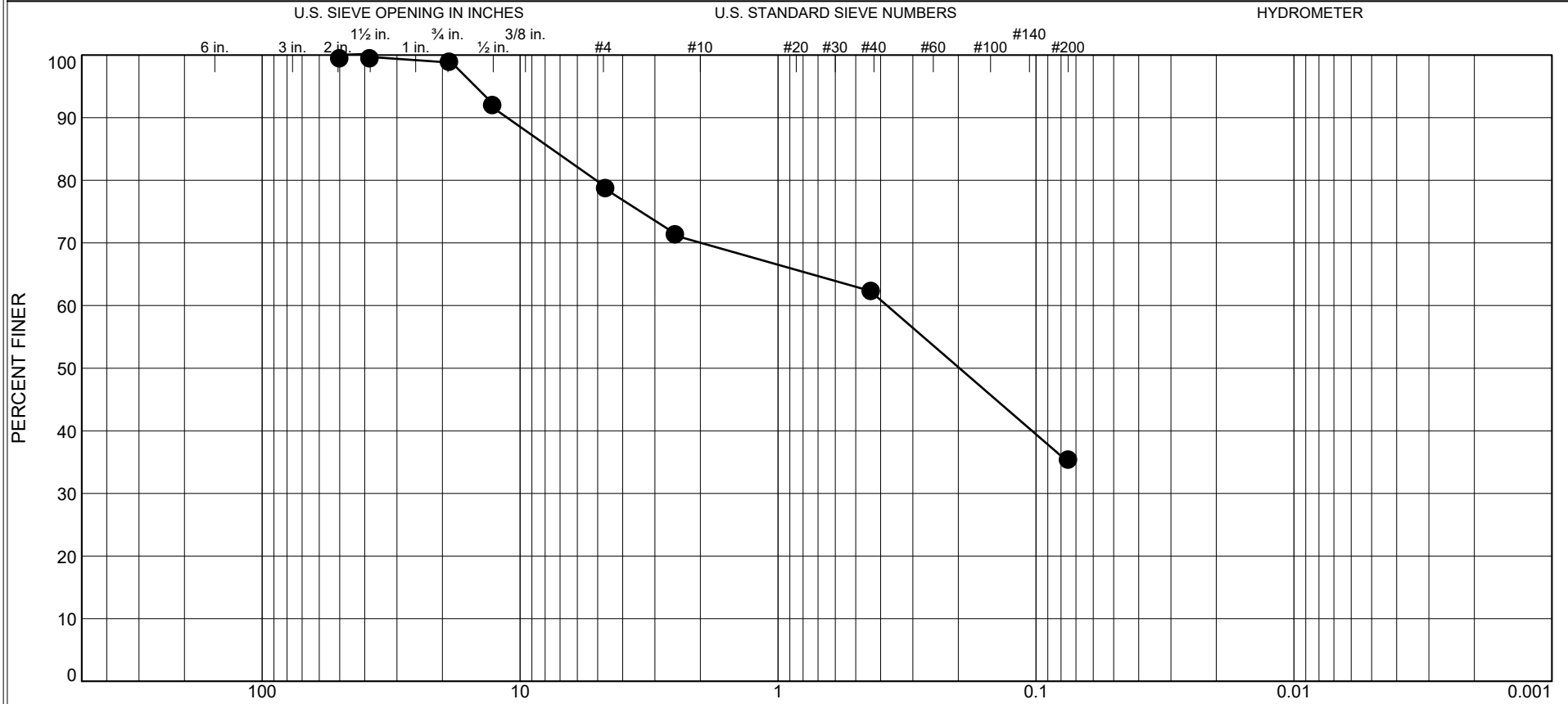
% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	8.7	22.4	5.9	1.9	33.3	27.8	

Identification		Date Sampled	Date Received	Date Tested
○ Location: Boring GB-4 Depth: 25-26 Feet		7/18/24	7/22/24	7/29/24

Client Ryon Fenn			
Project Gravel Investigation			
Project No. 24604	Figure B-18		




# Particle Size Distribution Report

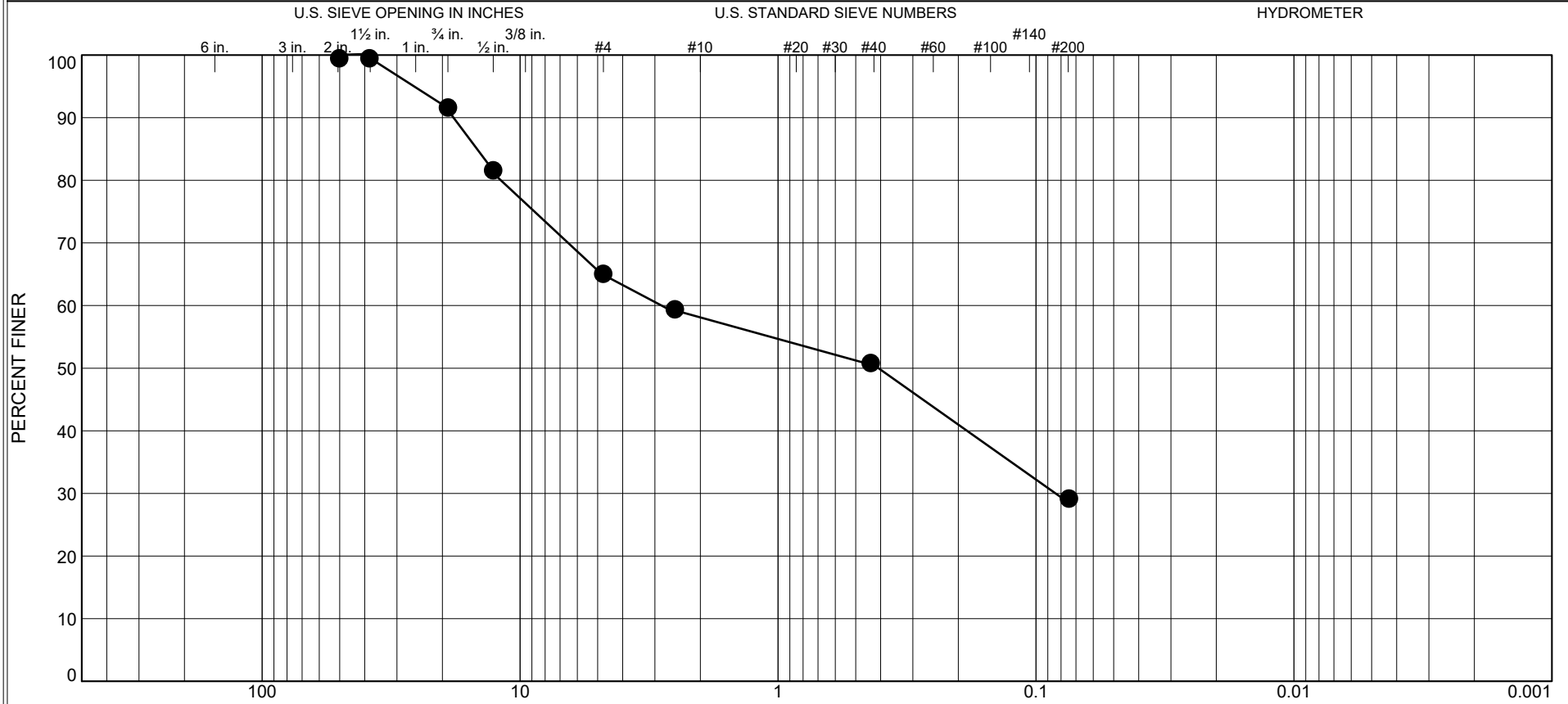


% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.8	20.2	9.0	6.4	27.1	36.5	

Identification		Date Sampled	Date Received	Date Tested
○ Location: Boring GB-4 Depth: 29-30 Feet		7/18/24	7/22/24	7/29/24


Client Ryon Fenn			
Project Gravel Investigation			
Project No. 24604	Figure B-19		

# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	8.1	26.8	7.1	6.1	22.6	29.3	

Identification		Date Sampled	Date Received	Date Tested
○ Location: Boring GB-4 Depth: 30-31 Feet		7/18/24	7/22/24	7/29/24

Client Ryon Fenn			
Project Gravel Investigation			
Project No. 24604	Figure B-20		

# **APPENDIX C**

## **Material Quantities and Totals**

**Table C1 - Material Quantities and Totals**

Designation	Area (sq. ft.)	Lean Clay thickness (feet)	Volume Lean Clay (cu. yds.)	Clayey Sand thickness (feet)	Volume Clayey Sand (cu. yds.)	Sand and Gravel thickness (feet)	Percent Sand (avg.)	Volume Sand (cu. yds.)	Percent Gravel (avg.)	Volume Gravel (cu. yds.)
1	281,768	13	135,666	10	104,359	13.5	27.2	38,773	61.8	87,019
2	329,462	18.5	225,742	2.5	30,506	6	31.6	23,136	16.0	11,403
						2	41.1	10,030	51.1	12,471
3	737,524	15.5	423,393	0	0	8.5	35.3	81,961	16.3	37,769
4	723,768	10.5	281,465	7	187,644	1.5	33.0	13,269	30.4	12,224
5	239,051	18.5	163,794	5	39,842	10	38.5	34,069	25.0	22,134
6	266,242	17	167,634	0	0	0	0	0	0	0
7	160,188	34	201,718	0	0	0	0	0	0	0
8	152,953	18	101,969	0	0	0	0	0	0	0
Totals	2,311,573		1,701,381		362,351			201,238		183,020
Estimated Worth Per Cubic Yard- In Place			\$1.50		\$1.50			\$2.50		\$3.50
Estimated Worth Per Ton - Load Ready			\$6.75		\$6.75			\$8.75		\$18.00
Estimated Total Sums - In Place			\$2,552,072		\$543,527			\$503,095		\$640,570
Estimated Total Sums - Load Ready			\$18,604,603		\$3,962,308			\$2,852,549		\$5,336,863
Total Estimate - In Place								\$4,239,263		
Total Estimate - Load Ready								\$30,756,323		