

LOG OF BORING

Project: McFaddin NWR Sand Source Investigation

Boring No.: MF-VC-13-01

Groundwater during drilling: ---

Groundwater after 24hrs: ---

Date: 11/1/2013

Northing: 13,789,175.0

Easting: 3,477,845.0

Project No.: HG1315380

Elevation: -23.1 feet

Station: --

Offset: --

ELEV. DEPTH, FEET	SOIL SYMBOLS SAMPLER SYMBOLS AND FIELD TEST DATA	SOIL/ROCK CLASSIFICATION	% PASSING NO. 230 SIEVE	D50, MM	SHEAR STRENGTH, TSF													
					MOISTURE CONTENT, %													
					PLASTIC LIMIT					LIQUID LIMIT								
10	20	30	40	50	60	70	80	90	10	20	30	40	50	60	70	80	90	
0		Yellowish Brown Silty Sand with silty clay seams (Munsell 5/4 10YR)																
-25																		
5		Light Yellowish Brown Sand (Munsell 6/4 10YR) -200=12.0%	8.5	0.16														
-30		Yellowish Brown Sand (Munsell 5/4 10YR) -200=14.8%	10.5	0.15														
-10		-200=8.0%	4.0	0.16														
-35		Dark Gray, Grayish Brown Silty Clay Layers and Sand Layers (Munsell 4/1 10YR ; 5/2 10YR) -200=10.5%	7.5	0.16														
-15																		
-40		Dark Grayish Brown Sand and Dark Gray Silty Clay Layers (Munsell 4/2 10YR ; 5/2 10YR) -200=7.4%	4.3	0.11														
-20																		
-45																		
-25																		
-50																		
-30																		
-55																		
-35																		

Shear Types:

● = Hand Penet.

■ = Torvane

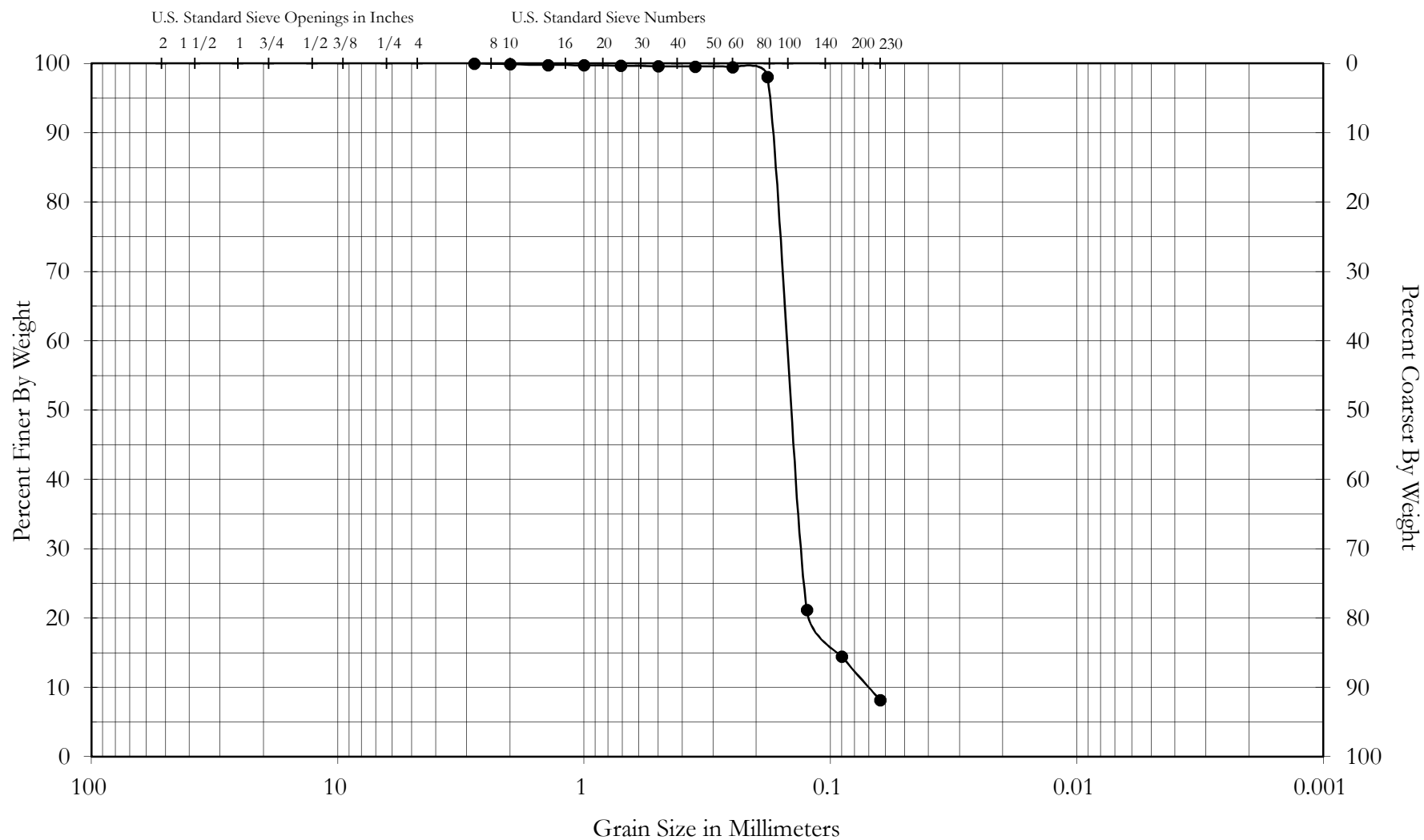
▲ = Unconf. Comp.

* = UU Triaxial

PLATE 1

LOG OF SOIL BORING HG-13-15380.GPJ HVJ.GDT 12/19/13





Sample Location

MF-VC-13-01
4-5'

C_u & C_c

C_u = 2.29
C_c = 1.88
D₅₀ = 0.16mm

Classification

Light Yellowish Brown Poorly
Graded Sand (SP)

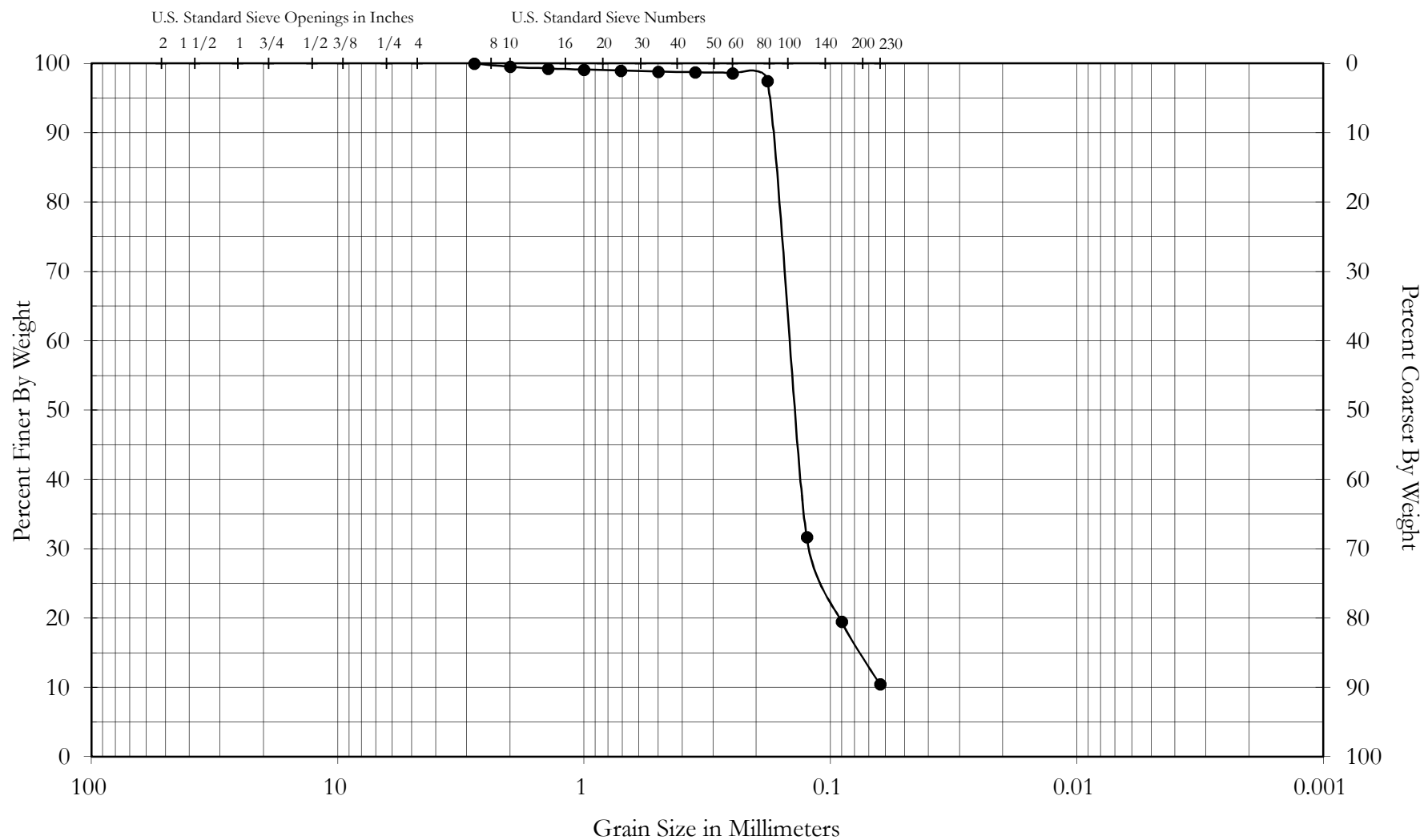
HVJ ASSOCIATES, INC.

**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

HG1315380

PLATE 51



Sample Location

MF-VC-13-01
5-10' Top

C_u & C_c

C_u = 2.50
C_c = 1.87
D₅₀ = 0.15mm

Classification

Yellowish Brown Poorly Graded
Sand (SP)

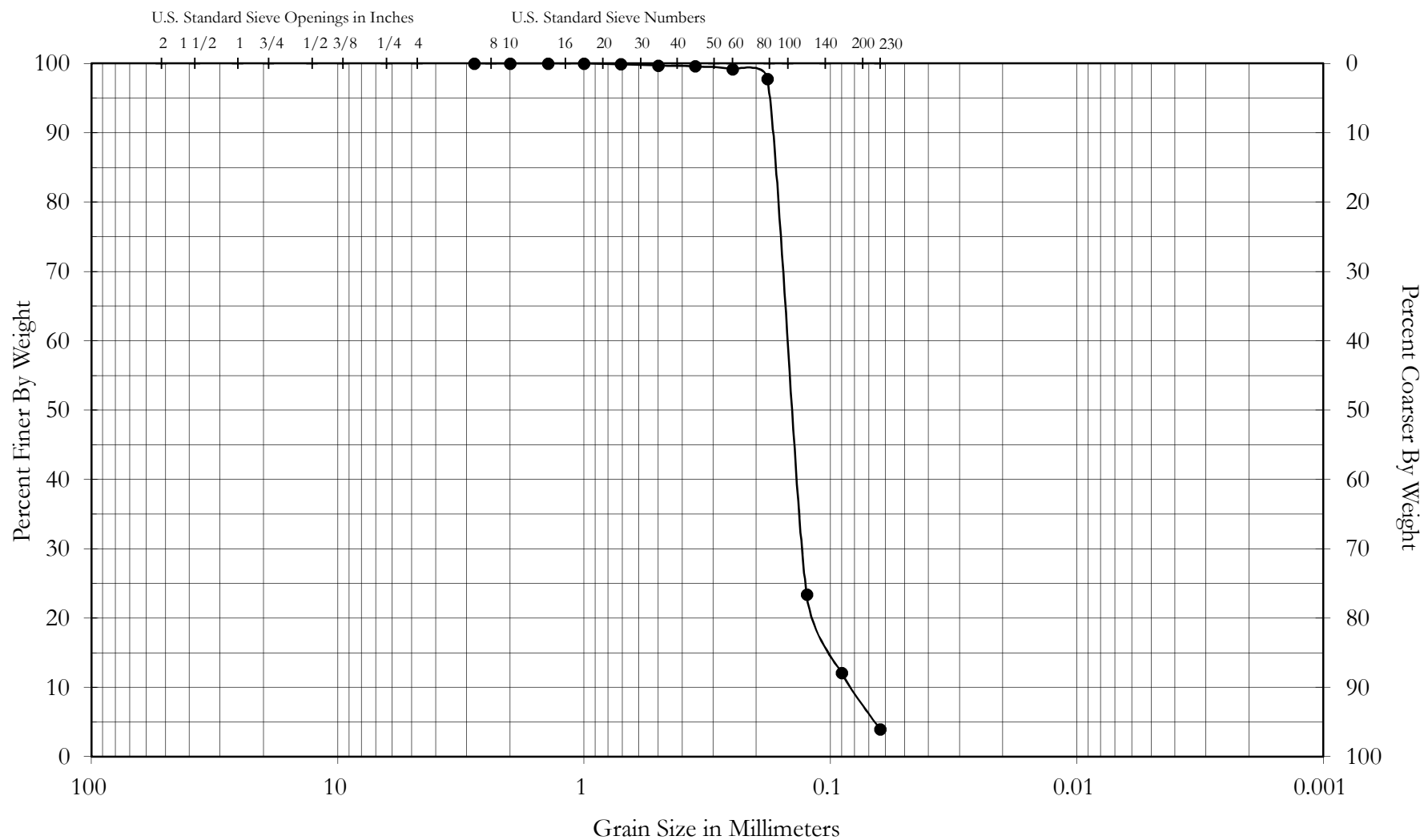
HVJ ASSOCIATES, INC.

**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

HG1315380

PLATE 52



Sample Location

MF-VC-13-01
5-10' Bottom

C_u & C_c

C_u = 1.93
C_c = 1.58
D₅₀ = 0.16 mm

Classification

Yellowish Brown Poorly Graded
Sand (SP)

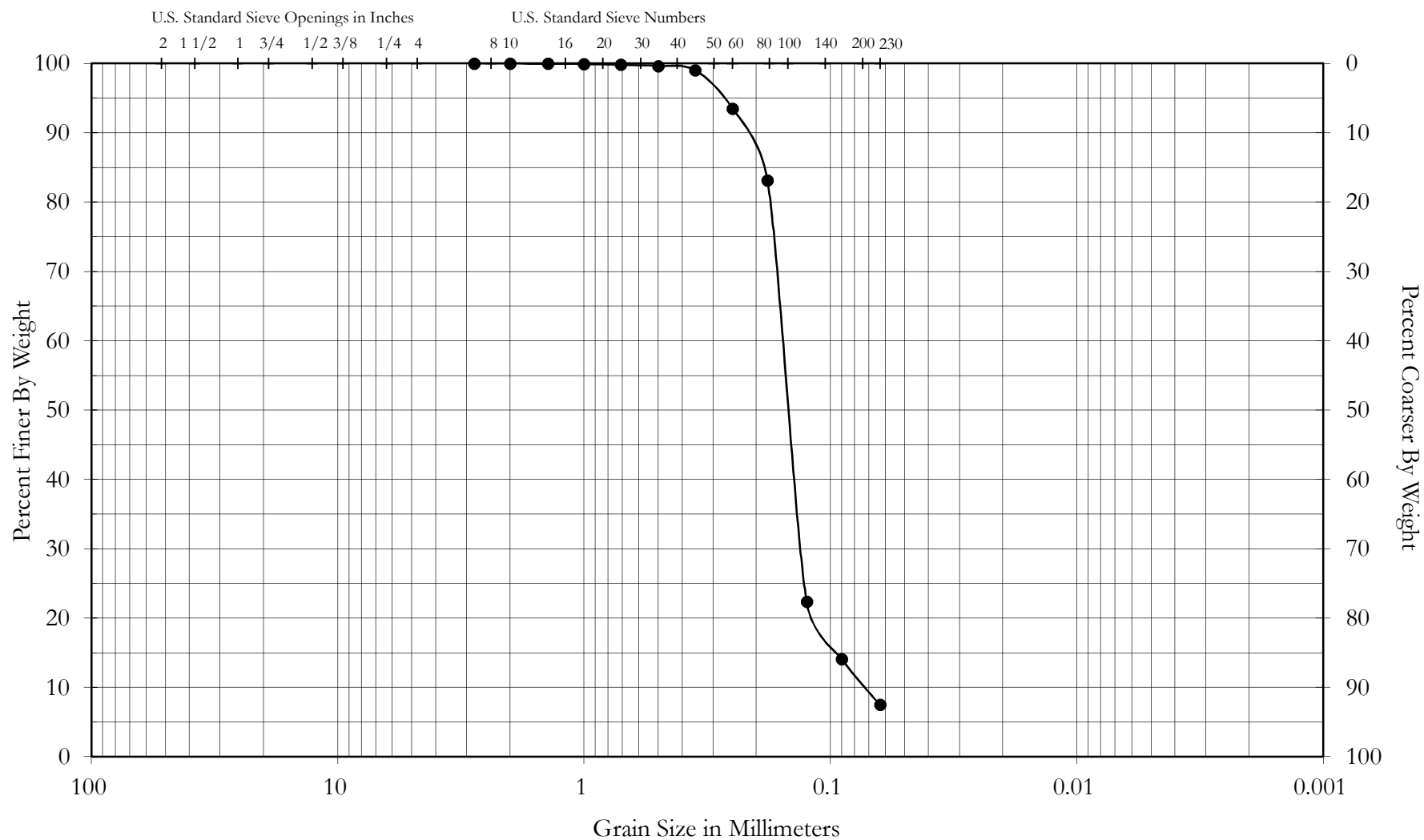
HVJ ASSOCIATES, INC.

**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

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PLATE 53



Sample Location

MF-VC-13-01
10-12'

C_u & C_c

C_u = 2.29
C_c = 1.77
D₅₀ = 0.16mm

Classification

Dark Gray and Greyish Brown
Poorly Graded Sand with Silt
(SP-SM)

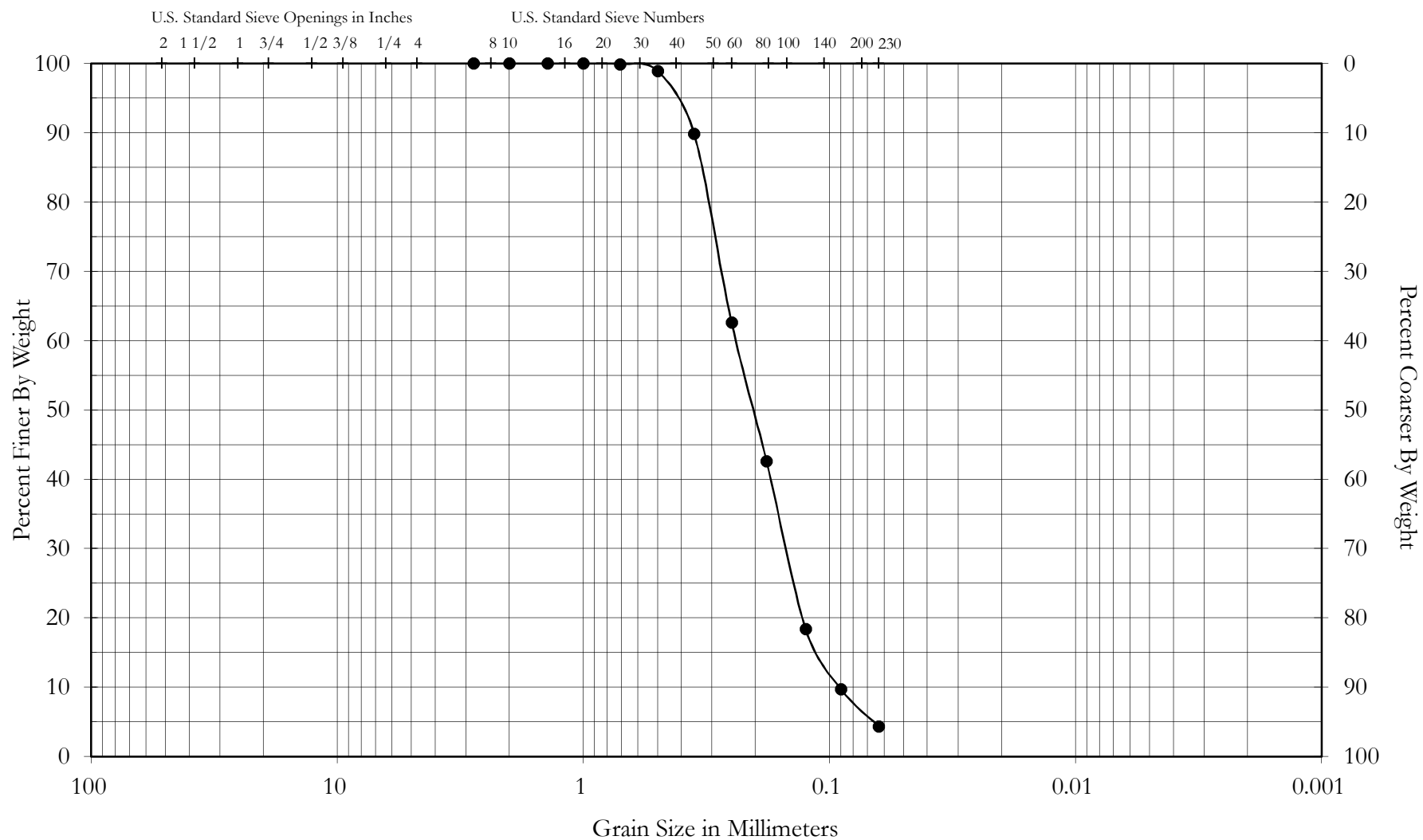
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**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

HG1315380

PLATE 54



Sample Location

MF-VC-13-01
18-19'

C_u & C_c

C_u = 2.78
C_c = 1.14
D₅₀ = 0.11mm

Classification

Dark Gray Poorly Graded Sand
(SP)

HVJ ASSOCIATES, INC.

**GRAIN SIZE ANALYSIS CURVE
ASTM D6913**

PROJECT NO.

HG1315380

PLATE 55