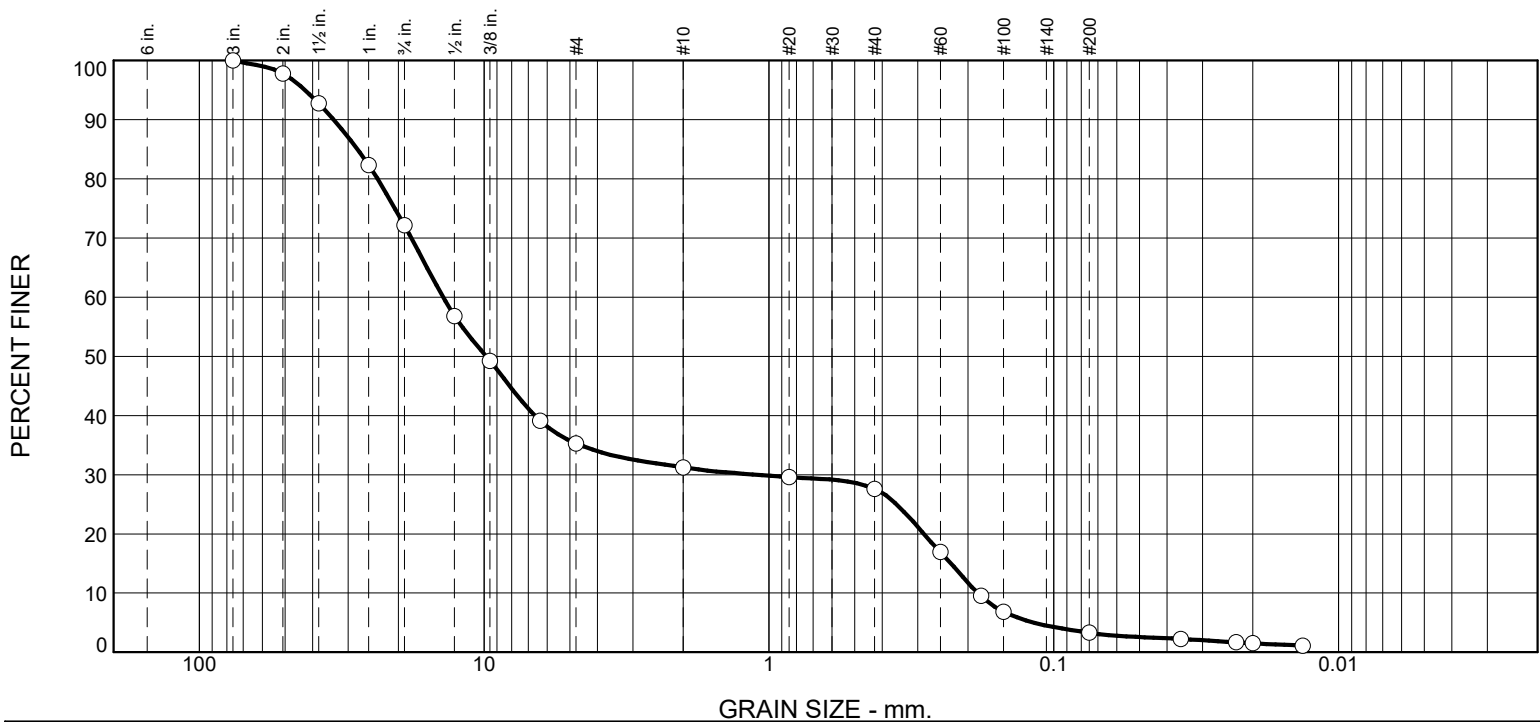


Particle Size Distribution Report



% +3"	% Gravel	% Sand		% Fines	
		Coarse	Fine	Silt	Clay
0	69	3	25	3	

Test Results (ASTM C117 & C136, D422)			
Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)
3	100		
2	98		
1.5	93		
1	82		
3/4	72		
1/2	57		
3/8	49		
1/4	39		
#4	35	0-60	
#10	31		
#20	30		
#40	28		
#60	17		
#80	10		
#100	7		
#200	3.3	0-6	
0.0358 mm.	2.2		
0.0229 mm.	1.7		
.02mm	1.5	0-3	
0.0134 mm.	1.1		

Material Description

Classified Fill (NFS)

Atterberg (ASTM D4318)

PL= LL= PI=

Coefficients

D₉₀= 33.7567 D₈₅= 27.8487

D₆₀= 13.9270 D₅₀= 9.8192

D₃₀= 1.1032 D₁₅= 0.2294

D₁₀= 0.1844

C_u= 75.51 C_c= 0.47

Sieve Test (ASTM C117 & C136)

Test Date: 9/5/25 Technician: Mika Mack,

Test Notes

Max Dry Density = 146.2 pcf @ 5.2% moisture

Hydrometer Test (ASTM D422)

Test Date: 9/5/25 Technician: M. Mack

Test Notes

USCS (ASTM D2487)

GP

Date Sampled: 9/2/25

Date Received: 9/2/25

Checked By: Stefan Mack, PE

Title: Engineer

Location: Existing Rd Ex, north
Sample Number: 25-980

MAPPA TESTLAB
1956 Richardson Highway
North Pole, Alaska 99705

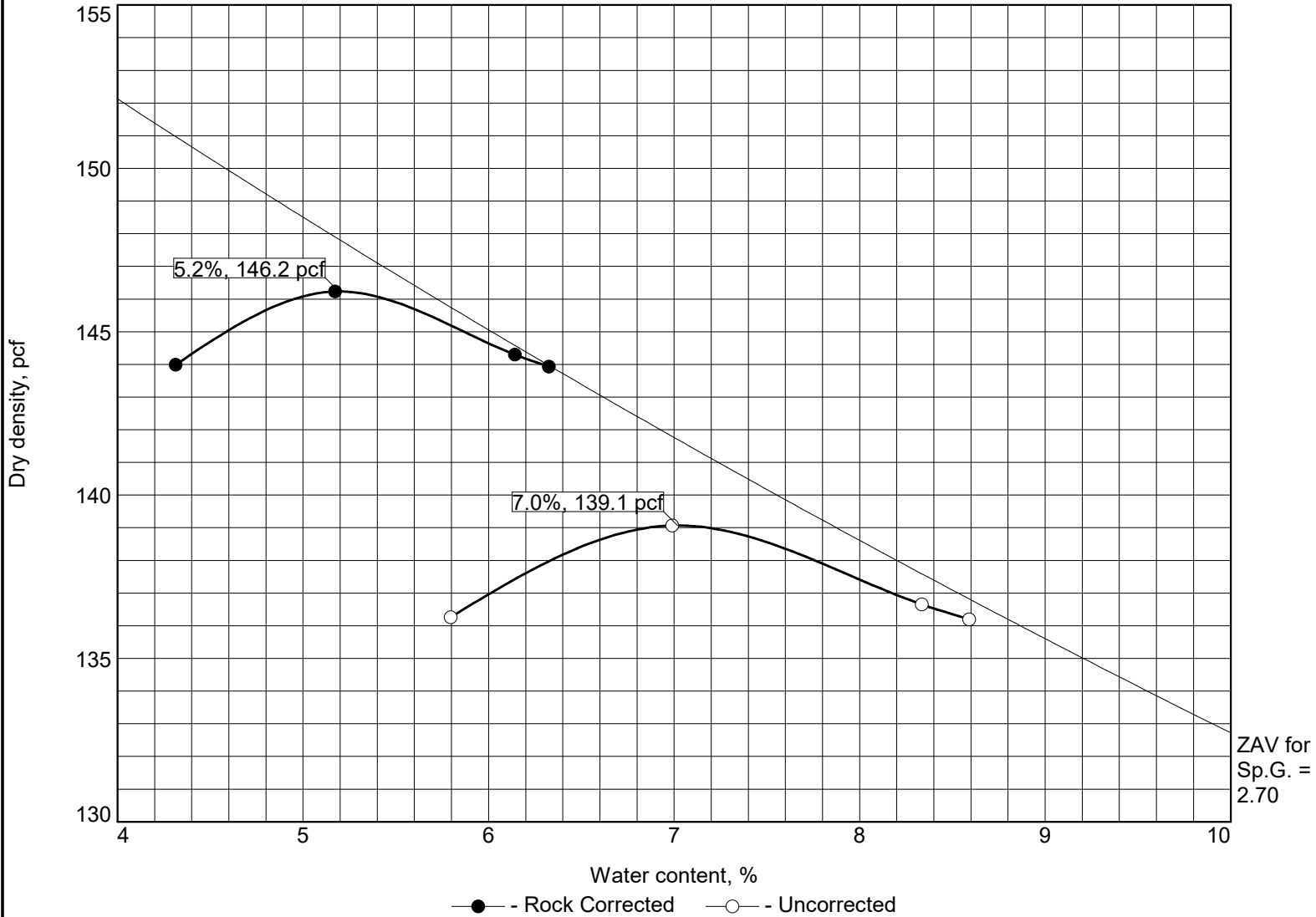
Client: Cornerstone / ChemTrack JV

Project: FTW405 Machine Gun Range
Ft Wainwright, AK

Project No:

Figure

COMPACTION TEST REPORT for Curve No. 25-980



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GP			2.7			28	3.3

ROCK CORRECTED TEST RESULTS		MATERIAL DESCRIPTION
Maximum dry density = 146.2 pcf Optimum moisture = 5.2 %		Classified Fill (NFS)
Project No. Client: Cornerstone / ChemTrack JV Project: FTW405 Machine Gun Range Ft Wainwright, AK Date: 9/11/25 Location: Existing Rd Ex, north Sample Number: 25-980		
MAPPA TESTLAB 1956 Richardson Highway North Pole, Alaska 99705		Remarks: Specific Gravity Assumed

Figure

Tested By: Sylvia Mack

Checked By: Stefan Mack, PE