

Colorado Department of Transportation Sieve Analysis for Aggregates CP31 Atterberg Limits T89 and T90					Contract ID		Region		
Material Description:					Project Number:				
					Project Location:				
Prime Contractor:					Item:		Do not use this form for Item 203 - Soils or Item 206 - Structure Backfill Class 2, use Form 564 Split over the #4 - CP 21		
Sample ID SMM:			Lab Ref Number SMM:		Class:		Test No:		Test Date:
Gradation Specimen Dry Weight (SDW):					Washed Dry Weight (WDW):		Sample Information		
Sieve	Weight	Percent Retained	Percent Passing	Specs		Sampled From: _____ Supplier Ticket No: _____ Time Sampled: _____ Station: _____ Lane: _____ Quantity Sample Represents: _____ Sampling witnessed by: _____ Sample Tested By: _____			
6"									
4"									
3"									
2½"									
2"									
1½"									
1"									
¾"									
½"									
⅜"									
5/16"									
¼"									
#4									
#8									
#16									
#30									
#50									
#100									
#200									
- #200		(WDW - TSW) ÷ WDW x 100 = % Diff (Spec: ≤ 0.3%)			Gradation Remarks:				
Total Sieved WT (TSW):		(_____ - _____) ÷ _____ x100 = _____ %							
$\text{Wet Weight} \div (100 + \text{MC} \%) \times 100 = \text{Specimen Dry Weight}$					If a split moisture sample is used to determine dry mass of gradation sample, use calculation to determine dry weight.				
$\text{Wet WT.} \div (100 + \text{MC} \%) \times 100 = \text{SDW}$									
Atterberg Limits:		Liquid Limit T89	Plastic Limit T90		Place IA Stamp Here:				
Tin ID:									
Mass of Tin:									
Mass of Tin + Wet Soil:									
Mass of Tin + Dry Soil:					Number of Blows	Multiplier	IA Sample ID:		
Moisture Content %:					22	0.9850	Electronic Signature of IA Personnel		
Number of Blows:					23	0.9900			
Plasticity Index			Specifications		24	0.9950	Sample Remarks:		
Liquid Limit %:					25	1.0000			
Plastic Limit %:					26	1.0050			
Plasticity Index:					27	1.0090			
LL % = Moisture Content @ number of blows X multiplier					28	1.0140			