

**COLORADO DEPARTMENT OF TRANSPORTATION  
FIELD REPORT FOR SAMPLE IDENTIFICATION  
OR MATERIALS DOCUMENTATION**

Metric units  yes  no

*Change to:  
SA: 13180  
FILE UNDER  
16421*

Field sheet No.	158280	Date	9/24/07
Project No.	STA 0252-097	Location	1-25, MP 155.6 TO 163.3
Project code (SA#)	16421	Function	3020
		Region	2
		Part.	P

Sample submitted: (Soil, aggregate, steel, water, surfacing, asphalt mix, asphalt cement, etc.)	SOIL	Field office phone number	719-546-5779
		FAX number	719-546-5777
Item	Class	Grading	Special provisions applicable: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no
203			

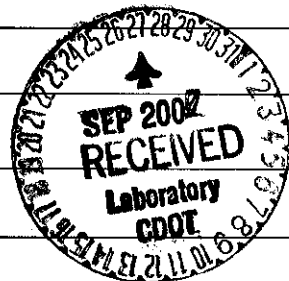
Previously used on project	CDOT Form #157 No.	CDOT Form #158 No.
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Describe tests required, use to be made of material, and/or documentation details

*Submitting (7) sacks of soil for preliminary soil survey. Please run the following tests:*

- Classification*
- R-Value*

*2007-0411 - 0417*



Preliminary <input checked="" type="checkbox"/>	Construction <input type="checkbox"/>	Maintenance <input type="checkbox"/>	Emergency <input type="checkbox"/>	Date needed	ASAP
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Contractor	Supplier
Sampled from (Pit, roadway, windrow, stock, etc.)	Pit name or owner

Quantity represented	Previous quantity	Total quantity to date
1 / LANE MILE, MIN.		

Sample submitted: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Shipped to: <input checked="" type="checkbox"/> Central lab <input type="checkbox"/> Region lab	Via	Date
		CDOT	9/26/07

Sampled or inspected by (Name)	(Title)	Lab phone number
CRAIG WIEDEN	PE I	719-546-5779

Supervisor (Pro./Res./Mats. Engr./Maint. Supt.)	Title	Address
RICHARD ZAMORA	PE II	1019 ERIE PUEBLO, CO 81001

**COLORADO DEPARTMENT OF TRANSPORTATION  
PRELIMINARY SOIL SURVEY**

Form #157 No. 158280	Form #554 No. 1568	Date: 09/24/07
Project No.	STA 0252-397	
Project location	El Paso County	
Project code (SA#) 16421		

Note 1: If samples are submitted leave sieve analysis section blank  
 Note 2: Comments should be placed in the description column of the form  
 Note 3: SSE = Sulfate Severity of Partial Exposure, Class 0 - 3

STATION AND LOG	TEST NO.	DESCRIPTION	SULFATE SEVERITY EXPOSURE	MAX. SIZE	PERCENT PASSING								LIQUID LIMIT	PLASTIC INDEX	CLASSIFICATION AND GROUP INDEX	MOIST. %	M <sub>R</sub> PSI	
					3"	1"	3/4"	3/8"	#4	#10	#40	#200						
MM 163 SB DL																		
0-4"	1A	HMA (6-inch core)																
4"-11.5"	1B	PCCP																
11.5"-25"	1C	Silty Sand (SAMPLE 1C)						100	97	85	55	28	22	6	A-2-4(0)	0.4	11938	
25"-36"	1D	Weathered Sandstone																
MM 162.5 SB TL																		
0-11.5"	2A	HMA (6-inch core)																
11.5"-17"	2B	ABC (No Sample)																
17"-23"	2C	Silty Sand - similar to 1C													A-2-4(0)		11938	
23"-36"	2D	Clayey Sand (SAMPLE 2D)						100	99	97	87	64	38	31	14	A-6(1)	0.8	5273
MM 162 SB DL																		
0-5.5"	3A	HMA (6-inch core)																
5.5"-13"	3B	PCCP																
13"-23"	3C	Silty sand - similar to 1C													A-2-4(0)		11938	
23"-36"	3D	Clayey sand - similar to 2D													A-6(1)		5273	
MM 162.5 SB PL																		
0-4.5"	4A	HMA (6-inch core)																
4.5"-12.5"	4B	PCCP																
12.5"-25"	4C	Silty sand - similar to 1C													A-2-4(0)		11938	
25"-36"	4D	Clayey sand - similar to 2D													A-6(1)		5273	
MM 161.5 SB PL																		
0-5"	5A	HMA (6-inch core)																
5"-12.5"	5B	PCCP																
12.5"-36"	5C	Silty sand - similar to 1C													A-2-4(0)		11938	

- Materials and Geotechnical
- Region Materials Engineer
- Resident Engineer

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PRELIMINARY SOIL SURVEY**

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STATION AND LOG	TEST NO.	DESCRIPTION	SULFATE SEVERITY EXPOSURE	MAX. SIZE	PERCENT PASSING								LIQUID LIMIT	PLASTIC INDEX	CLASSIFICATION AND GROUP INDEX	MOIST. %	M <sub>R</sub> PSI
					3"	1"	3/4"	3/8"	#4	#10	#40	#200					
MM 161.5 NB TL																	
0-11"	6A	HMA															
11"-15"	6B	ABC															
15"-36"	6C	Silty sand - similar to 1C													A-2-4(0)		11938
MM 155.5 NB PL																	
0-16"	7A	HMA															
16"-21"	7B	ABC															
21"-36"	7C	Silty Sand (SAMPLE 7C)					100	99	96	77	34	12	NV	NP	A-1-b(0)	0.2	30802
MM 156.5 NB PL																	
0-15"	8A	HMA															
15"-17"	8B	ABC															
17"-36"	8C	Silty Sand - similar to 7C													A-1-b(0)		30802
MM 157.5 NB PL																	
0-12"	9A	HMA															
12"-15"	9B	ABC															
15"-36"	9C	Silty Sand - similar to 7C													A-1-b(0)		30802
MM 156 NB DL																	
0-12"	10A	HMA															
12"-15"	10B	ABC															
15"-36"	10C	Silty Sand - similar to 7C													A-1-b(0)		30802
MM 157 NB DL																	
0-12"	11A	HMA															
12"-14.5"	11B	ABC															
14.5"-36"	11C	Silty Sand - similar to 7C													A-1-b(0)		30802

- Materials and Geotechnical
- Region Materials Engineer
- Resident Engineer

**COLORADO DEPARTMENT OF TRANSPORTATION  
PRELIMINARY SOIL SURVEY**

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Project No.	STA 0252-397	
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STATION AND LOG	TEST NO.	DESCRIPTION	SULFATE SEVERITY EXPOSURE	MAX. SIZE	PERCENT PASSING								LIQUID LIMIT	PLASTIC INDEX	CLASSIFICATION AND GROUP INDEX	MOIST. %	M <sub>R</sub> PSI
					3"	1"	3/4"	3/8"	#4	#10	#40	#200					
MM 158 NB DL																	
0-12"	12A	HMA															
12"-17"	12B	ABC															
17"-36"	12C	Silty sand - Similar to 7C												A-1-b(0)			30802
MM 159 NB DL																	
0-13.5"	13A	HMA															
13.5"-16"	13B	ABC															
16"-36"	13C	Silty sand - Similar to 7C												A-1-b(0)			30802
MM 160 NB DL																	
0-13"	14A	HMA - Core only															
MM 158.5 NB PL																	
0-12"	15A	HMA															
12"-15"	15B	ABC															
15"-36"	15C	Silty sand - Similar to 7C												A-1-b(0)			30802
MM 159.5 NB PL																	
0-13"	16A	HMA															
13"-16.5"	16B	ABC															
16.5"-36"	16C	Silty sand - Similar to 7C												A-1-b(0)			30802
MM 162 NB DL																	
0-13.5"	17A	HMA															
13.5"-18"	17B	Silty Sand - similar to 1C													A-2-4(0)		11938
18"-36"	17C	Clayey sand - similar to 2D												A-6(1)			5273

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- Region Materials Engineer
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STATION AND LOG	TEST NO.	DESCRIPTION	SULFATE SEVERITY EXPOSURE	MAX. SIZE	PERCENT PASSING								LIQUID LIMIT	PLASTIC INDEX	CLASSIFICATION AND GROUP INDEX	MOIST. %	M <sub>R</sub> PSI
					3"	1"	3/4"	3/8"	#4	#10	#40	#200					
MM 163 NB DL																	
0-12"	18A	HMA															
12"-16"	18B	ABC															
16"-24"	18C	Silty sand - similar to 1C														A-2-4(0)	11938
24"-36"	18D	Clayey sand - similar to 2D														A-6(1)	5273
MM 161.5 NB PL																	
0-16"	19A	HMA															
16"-24"	19B	Silty sand - similar to 1C														A-2-4(0)	11938
24"-36"	19C	Clayey sand - similar to 2D														A-6(1)	5273
MM 162.5 NB PL																	
0-12"	20A	HMA															
12"-16"	20B	ABC															
16"-24"	20C	Silty sand - similar to 1C														A-2-4(0)	11938
24"-36"	20D	Clayey sand - similar to 2D														A-6(1)	5273
MM 159.5 SB PL																	
0-11"	21A	HMA															
11"-20"	21B	ABC															
20"-29"	21C	PCCP															
29"-36"	21D	Silty Sand - similar to 7C														A-1-b(0)	30802
MM 158.5 SB PL																	
0-12.5"	22A	HMA															
12.5"-15"	22B	ABC															
15"-36"	22C	Silty sand - similar to 7C														A-1-b(0)	30802

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STATION AND LOG	TEST NO.	DESCRIPTION	SULFATE SEVERITY EXPOSURE	MAX. SIZE	PERCENT PASSING								LIQUID LIMIT	PLASTIC INDEX	CLASSIFICATION AND GROUP INDEX	MOIST. %	M <sub>R</sub> PSI
					3"	1"	3/4"	3/8"	#4	#10	#40	#200					
MM 157.5 SB PL																	
0-15"	23A	HMA															
15"-25"	23B	ABC															
25"-36"	23C	Silty sand -similar to 7C														A-1-b(0)	30802
MM 156.5 SB PL																	
0-13"	24A	HMA															
13"-16"	24B	ABC															
16"-36"	24C	Silty sand - similar to 7C														A-1-b(0)	30802
MM 155.5 SB PL																	
0-17"	25A	HMA															
17"-20.5"	25B	ABC															
20.5"-36"	25C	Silty sand - similar to 7C														A-1-b(0)	30802
MM 160 SB DL																	
0-11.5"	26A	HMA															
11.5"-20.5"	26B	ABC															
20.5"-36"	26C	Silty Sand - similar to 7C														A-1-b(0)	30802
MM 159 SB DL																	
0-13"	27A	HMA															
13"-16"	27B	ABC															
16"-18.5"	27C	HMA															
18.5"-36"	27D	Silty sand - similar to 7C														A-1-b(0)	30802
MM 158 SB DL																	
0-15"	28A	HMA															
15"-17.5"	28B	ABC															
17.5"-36"	28C	Silty Sand - similar to 7C														A-1-b(0)	30802

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STATION AND LOG	TEST NO.	DESCRIPTION	SULFATE SEVERITY EXPOSURE	MAX. SIZE	PERCENT PASSING								LIQUID LIMIT	PLASTIC. INDEX	CLASSIFICATION AND GROUP INDEX	MOIST. %	M <sub>R</sub> PSI
					3"	1"	3/4"	3/8"	#4	#10	#40	#200					
MM 157 SB DL																	
0-12.5"	29A	HMA															
12.5"-15"	29B	ABC															
15"-36"	29C	Silty sand - similar to 7C												A-1-b(0)		30802	
MM 156 SB DL																	
0-12.5"	30A	HMA															
12.5"-16"	30B	ABC															
16"-36"	30C	Silty sand - similar to 7C												A-1-b(0)		30802	
STA 12+00		Truck Chain Area - North End															
0-3'	31A	Clayey Sand - Dark Brown - SAMPLE 31A					100	98	992	81	54	25	27	9	A-2-4(0)	0.8	6209
3'-5.5'	31B	Tan Silty Sand - SAMPLE 31B					100	99	97	83	48	20	23	6	A-1-b(0)	0.4	15506
5.5'-6.5'	31C	Clayey Sand - Tan to Gray - SAMPLE 31C						100	99	89	55	28	26	11	A-2-6(0)	0.5	5629
6.5'-8'	31D	Tan Silty Sand - Similar to 31B															
STA 7+00		Truck Chain Area - Middle															
0-8"	32A	Clayey Sand - Dark Brown - Similar to 31A													A-2-4(0)		6209
8"-1'8"	32B	Tan Silty Sand - Similar to 31B													A-1-b(0)		15506
1'8"-5'6"	32C	Gray Clay - SAMPLE 32C					100	99	91	77	64	42	24	A-7-6(13)	1.6	3929	
STA 2+00		Truck chain Area - South End															
0-16"	33A	Tan Silty Sand - Similar to 31B													A-2-4(0)		6209
16"-5'6"	33B	Gray Clay - Similar to 32C													A-1-b(0)		15506

- Materials and Geotechnical
- Region Materials Engineer
- Resident Engineer

# COLORADO DEPARTMENT OF TRANSPORTATION

## Gradation Report

<b>Project ID</b> 13180	<b>Location</b> Region 2 Resurfacing PE	<b>Report Date</b> 10/11/2007
<b>Project</b> C R200-098	<b>Source</b> ROADWAY	<b>Final Design</b> 3020
<b>F.S. #</b> 158280	<b>Region</b> 02	<b>Working Days</b> 10
<b>Engineer</b> C.K. Su - Soils and Rockfall Program		

**Comments**

Test #	Lab #	SP?	Station	Depth	LL	PL	PI	%Moist	R-Val	Group Class(GI)	mr
1C	2007-0411	None	MP 163.0 SB DL	11.5" - 25.0"	22	16	6	0.4	47	A-2-4(0)	11938

<b>Gradations:</b>				<b>Proctor:</b>				<b>Lab Performing Work:</b>					
mm	75	25	19	9.5	#4	#10	#40	#200	MDD :	Atterberg :	CDOT	T180	:
in	3	1	3/4	3/8					OMC :	Direct Shear :	Mechanical Analysis : CDOT		
%Pass				100	97	85	55	28	SpG :	R-Value :	CDOT	Other	:
As Run				100	97	85	55	28	Abs :	T99	:		

Test #	Lab #	SP?	Station	Depth	LL	PL	PI	%Moist	R-Val	Group Class(GI)	mr
2D	2007-0412	None	MP 162.5 SB TL	23.0" - 36.0"	31	17	14	0.8	22	A-6(1)	5273

<b>Gradations:</b>				<b>Proctor:</b>				<b>Lab Performing Work:</b>						
mm	75	25	19	9.5	#4	#10	#40	#200	MDD :	Atterberg :	CDOT	T180	:	
in	3	1	3/4	3/8					OMC :	Direct Shear :	Mechanical Analysis : CDOT			
%Pass				100	99	97	87	64	38	SpG :	R-Value :	CDOT	Other	:
As Run				100	99	97	87	64	38	Abs :	T99	:		

Test #	Lab #	SP?	Station	Depth	LL	PL	PI	%Moist	R-Val	Group Class(GI)	mr
7C	2007-0413	None	MP 155.5 NB PL	21.0" - 36.0"	NV	NP	NP	0.2	76	A-1-b(0)	30802

<b>Gradations:</b>				<b>Proctor:</b>				<b>Lab Performing Work:</b>						
mm	75	25	19	9.5	#4	#10	#40	#200	MDD :	Atterberg :	CDOT	T180	:	
in	3	1	3/4	3/8					OMC :	Direct Shear :	Mechanical Analysis : CDOT			
%Pass				100	99	96	77	34	12	SpG :	R-Value :	CDOT	Other	:
As Run				100	99	96	77	34	12	Abs :	T99	:		

<b>Key</b>	SP? = Meets special provision requirements?	MDD = Maximum Dry Density
LL = Liquid Limit (AASHTO T89)	R-Val = Stab R-Value (CP-L3101)	OMC = Optimum Moisture Content
PL = Plastic Limit (AASHTO T90)	mr = Resilient Modulus (psi)	SpG = Bulk Specific Gravity
PI = Plastic Index (AASHTO T90)	GI = Group Index	Abs = Absorption



# COLORADO DEPARTMENT OF TRANSPORTATION

## Gradation Report

<b>Project ID</b> 13180	<b>Location</b> Region 2 Resurfacing PE	<b>Report Date</b> 10/11/2007
<b>Project</b> C R200-098	<b>Source</b> ROADWAY	<b>Final Design</b> 3020
<b>F.S. #</b> 158280	<b>Region</b> 02	<b>Working Days</b> 10
<b>Engineer</b> C.K. Su - Soils and Rockfall Program		

**Comments**

Test #	Lab #	SP?	Station	Depth	LL	PL	PI	%Moist	R-Val	Group Class(GI)	mr
31A	2007-0414	None	STA 12 + 00	0.0' - 3.0'	27	18	9	0.8	27	A-2-4(0)	6209

<b>Gradations:</b>				<b>Proctor:</b>				<b>Lab Performing Work:</b>						
mm	75	25	19	9.5	#4	#10	#40	#200	MDD :	Atterberg :	CDOT	T180	:	
in	3	1	3/4	3/8					OMC :	Direct Shear :	Mechanical Analysis : CDOT			
%Pass				100	98	92	81	54	25	SpG :	R-Value :	CDOT	Other	:
As Run				100	98	92	81	54	25	Abs :	T99			

Test #	Lab #	SP?	Station	Depth	LL	PL	PI	%Moist	R-Val	Group Class(GI)	mr
31B	2007-0415	None	STA 12 + 00	3.0' - 5.5'	23	17	6	0.4	55	A-1-b(0)	15506

<b>Gradations:</b>				<b>Proctor:</b>				<b>Lab Performing Work:</b>						
mm	75	25	19	9.5	#4	#10	#40	#200	MDD :	Atterberg :	CDOT	T180	:	
in	3	1	3/4	3/8					OMC :	Direct Shear :	Mechanical Analysis : CDOT			
%Pass				100	99	97	83	48	20	SpG :	R-Value :	CDOT	Other	:
As Run				100	99	97	83	48	20	Abs :	T99			

Test #	Lab #	SP?	Station	Depth	LL	PL	PI	%Moist	R-Val	Group Class(GI)	mr
31C	2007-0416	None	STA 12 + 00	5.5' - 6.5'	26	15	11	0.5	24	A-2-6(0)	5629

<b>Gradations:</b>				<b>Proctor:</b>				<b>Lab Performing Work:</b>						
mm	75	25	19	9.5	#4	#10	#40	#200	MDD :	Atterberg :	CDOT	T180	:	
in	3	1	3/4	3/8					OMC :	Direct Shear :	Mechanical Analysis : CDOT			
%Pass				100	99	89	55	28		SpG :	R-Value :	CDOT	Other	:
As Run				100	99	89	55	28		Abs :	T99			

<b>Key</b>	SP? = Meets special provision requirements?	MDD = Maximum Dry Density
LL = Liquid Limit (AASHTO T89)	R-Val = Stab R-Value (CP-L3101)	OMC = Optimum Moisture Content
PL = Plastic Limit (AASHTO T90)	mr = Resilient Modulus (psi)	SpG = Bulk Specific Gravity
PI = Plastic Index (AASHTO T90)	GI = Group Index	Abs = Absorption

# COLORADO DEPARTMENT OF TRANSPORTATION

## Gradation Report

<b>Project ID</b>	13180	<b>Location</b>	Region 2 Resurfacing PE	<b>Report Date</b>	10/11/2007
<b>Project</b>	C R200-098	<b>Source</b>	ROADWAY	<b>Final Design</b>	3020
<b>F.S. #</b>	158280	<b>Region</b>	02	<b>Working Days</b>	10
<b>Engineer</b>	C.K. Su - Soils and Rockfall Program				

**Comments**

Test #	Lab #	SP?	Station	Depth	LL	PL	PI	%Moist	R-Val	Group Class(GI)	mr
32C	2007-0417	None	STA 2 + 00	1'8.0" - 5'6.0"	42	18	24	1.6	13	A-7-6(13)	3929

<u>Gradations:</u>										<u>Proctor:</u>		<u>Lab Performing Work:</u>	
mm	75	25	19	9.5	#4	#10	#40	#200		MDD :	Atterberg :	CDOT	T180 :
in	3	1	3/4	3/8						OMC :	Direct Shear :		Mechanical Analysis :
%Pass					100	99	91	77	64	SpG :	R-Value :	CDOT	Other :
As Run					100	99	91	77	64	Abs :	T99 :		

<u>Key</u>		
LL = Liquid Limit (AASHTO T89)	SP? = Meets special provision requirements?	MDD = Maximum Dry Density
PL = Plastic Limit (AASHTO T90)	R-Val = Stab R-Value (CP-L3101)	OMC = Optimum Moisture Content
PI = Plastic Index (AASHTO T90)	mr = Resilient Modulus (psi)	SpG = Bulk Specific Gravity
	GI = Group Index	Abs = Absorption

# Survey 158280 R-values by Group Class

GroupClass	A-1-b										
	Labno	Rvalue	LL	PI	GI	p19mm:	p9_5mm:	p#4:	p#10	p#40	p#200
	2007-0413	76	NV	NP	0	100	99	96	77	34	12
	2007-0415	55	23	6	0	100	99	97	83	48	20
'GroupClass' = A-1-b (2 R-values)	Average	66									

<b>GroupClass</b>	<b>A-2-4</b>										
<b>Labno</b>	<b>Rvalue</b>	<b>LL</b>	<b>PI</b>	<b>GI</b>	<b>p19mm:</b>	<b>p9_5mm:</b>	<b>p#4:</b>	<b>p#10</b>	<b>p#40</b>	<b>p#200</b>	
2007-0411	47	22	6	0		100	97	85	55	28	
2007-0414	27	27	9	0	100	98	92	81	54	25	
'GroupClass' = A-2-4 (2 R-values)	<b>Average</b>	37									

<b>GroupClass</b>	A-2-6										
<b>Labno</b>	<b>Rvalue</b>	<b>LL</b>	<b>PI</b>	<b>GI</b>	<b>p19mm:</b>	<b>p9_5mm:</b>	<b>p#4:</b>	<b>p#10</b>	<b>p#40</b>	<b>p#200</b>	
2007-0416	24	26	11	0		100	99	89	55	28	
'GroupClass' = A-2-6 (1 R-value)	<b>Average</b>	24									

<b>GroupClass</b>	A-6										
<b>Labno</b>	<b>Rvalue</b>	<b>LL</b>	<b>PI</b>	<b>GI</b>	<b>p19mm:</b>	<b>p9_5mm:</b>	<b>p#4:</b>	<b>p#10</b>	<b>p#40</b>	<b>p#200</b>	
2007-0412	22	31	14	1	100	99	97	87	64	38	
'GroupClass' = A-6 (1 R-value)											
<b>Average</b>	22										

GroupClass	A-7-6										
Labno	Rvalue	LL	PI	GI	p19mm:	p9_5mm:	p#4:	p#10	p#40	p#200	
2007-0417	13	42	24	13		100	99	91	77	64	
'GroupClass' = A-7-6 (1 R-value)	Average	13									