



STATE OF
COLORADO

Reilley - DNR, Robin <robin.reilley@state.co.us>

TR134 Cost Estimate

1 message

Reilley - DNR, Robin <robin.reilley@state.co.us>
To: Graham Roberts <graham.roberts@trappermine.com>

Mon, Jul 17, 2023 at 12:33 PM

Good Morning Graham,

Please find the Cost Estimate for rapper TR134 attached. I'm available to answer any questions.

Thank you

Robin Reilley, M.S. GISP
Environmental Protection Specialist II



COLORADO
Division of Reclamation,
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Cost Estimate Trapper TR134.pdf

326K

COST SUMMARY WORK

Task description: _____

Site: Trapper Mine Permit Action: TR134 Permit/Job#: C1981010

COST SUMMARY WORK

Task description: Erosion Control Ditches

Site: Trapper Mine Permit Action: TR134 Permit/Job#: C1981010

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
 Date: 6/7/2023 County: Moffat Filename: C010-000
 User: RAR

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
092a	Replace Topsoil at C Pit Future TS Pile	SCRAPER1	1	36.50	\$200,158
EC	Erosion Control Ditches 3 Acres	NA	1	1.00	\$931
LN20	Site Maintenance; Drainage Stabilization	SITEMAINT	1	600.00	\$21,289
a		ENANCE			
N16a	Replace Topsoil on J Pit A91-8 to J Pit	TRUCK1	1	22.95	\$55,978
N16aa	Replace Topsoil on J Pit ASH-1 to J Pit	TRUCK1	1	38.09	\$92,896
N19	Seed J Pit without shrubs (Range C)	REVEGE	1	66.00	\$12,972
N22	Seed C Pit No Shrubs	REVEGE	1	189.00	\$28,215
<u>SUBTOTALS:</u>				953.54	\$412,439

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02	Total =	\$8,331
Performance bond: 1.05	Total =	\$4,331
Job superintendent: 176.27	Total =	\$11,472
Profit: 10.00	Total =	\$41,244
TOTAL O & P =		\$65,377
CONTRACT AMOUNT (direct + O & P) =		\$477,816

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	6.59	Total =	\$31,488
Reclamation management and/or administration:	4.89		\$23,365

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$120,731

TOTAL BOND AMOUNT (direct + indirect) = \$533,170

TRUCK/LOADER TEAM WORK

Task description: Replace Topsoil on J Pit A91-8 to J Pit
 Thank you
 Site: Trapper Mine Permit Action: TR134 Permit/Job#: C1981010

PROJECT IDENTIFICATION

Task #: N16A State: Colorado Abbreviation: None
 Date: 6/8/2023 County: Moffat Filename: C010-N16a
 User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Shift basis: 1 per day

	Equipment Description
Truck Loader Team -Truck:	Cat 777F
-Loader:	Cat 385C L 18'-1" Stick
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	Cat D10T - 10SU
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Excavator	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	25	25	25	50
Ownership cost/hour:	\$206.48	\$217.90	\$178.69	\$178.69	\$212.21	\$11.35
Operating cost/hour:	\$160.10	\$166.27	\$40.06	\$40.06	\$31.22	\$11.46
%Utilization-ripper:	NA	0	15	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$26.20	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$1.83	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$33.71	\$37.32	\$41.30	\$41.30	\$28.56	\$0.00
Unit Subtotals:	\$400.29	\$421.49	\$261.87	\$260.05	\$271.99	\$22.81
Number of Units:	3	1	1	1	1	1
Group Subtotals:	Work:	\$1,622.36	Support:	\$521.92	Maint:	\$294.80

Total work team cost/hour: **\$2,439.08**

MATERIAL QUANTITIES

Initial volume: 21,038 CCY Swell factor: 1.000
 Loose volume: 21,038 LCY

Source of estimated volume: Appendix A Tables A-10.5A
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight: 1,600 Pounds/LCY
 Description: Top Soil
 Rated Payload: 200,000 Pounds
 Payload Capacity: 125.00 LCY

Truck Bed (volume) Basis:

Struck Volume: 60.60 LCY
 Heaped Volume: 78.80 LCY
 Average Volume: 69.70 LCY
 Adjusted Volume: 78.80 LCY

Final Truck Volume Based on Number of Loader Passes: 77.72 LCY

Loading Tool Capacity

Bucket Size Class: Large

Rated Capacity: 7.850 LCY (heaped)
 Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825
 Adjusted Capacity: 6.476 LCY

Job Condition Corrections:

Site Altitude (ft.): 6400 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 12 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: ABOVE AVERAGE
 Selected Value within this Basic Rating: AVERAGE

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): NA minutes

Cycle Time Factors		Factor (min.)	Source
Material:	NA	NA	(Cat HB)
Stockpile:	NA	NA	(Cat HB)
Truck Ownership:	NA	NA	(Cat HB)
Operation:	NA	NA	(Cat HB)
Dump Target:	NA	NA	(Cat HB)

Net Cycle Time Adjustment: NA minutes
 Adjusted Loader Cycle Time: 0.302 minutes
 Net Load Time per Truck: 3.422 minutes

Truck Cycle Time:

Truck Exchange Time:	<u>0.80</u>	Minutes	Adjusted for site altitude:	<u>0.800</u>	Minutes
Truck Load Time:	<u>3.422</u>	Minutes	Adjusted for site altitude:	<u>3.422</u>	Minutes
Truck Maneuver and Dump Time:	<u>1.20</u>	Minutes	Adjusted for site altitude:	<u>1.200</u>	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	7749.00	-2.60	3.00	0.40	3503	2.639

Haul Time: 2.639 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	7749.00	2.60	3.00	5.60	2853	2.981

Return Time: 2.981 minutes

Total Truck Cycle Time: 11.042 minutes

Loading Tool unit

Production	<u>1,104.43</u>	LCY/Hour	Adjusted for job efficiency:	<u>916.68</u>	LCY/Hour
Truck Unit Production	<u>422.29</u>	LCY/Hour	Adjusted for job efficiency:	<u>350.50</u>	LCY/Hour
Optimal No. of Trucks:	<u>3</u>	Truck(s)	Selected Number of Trucks:	<u>3</u>	Truck(s)

Adjusted hourly truck team production:	<u>1,051.50</u>	LCY/Hour
Adjusted single truck/loader team production:	<u>916.68</u>	LCY/Hour
Adjusted multiple truck/loader team production:	<u>916.68</u>	LCY/Hour

JOB TIME AND COST

Fleet size:	<u>1</u>	Team(s)	Total job time:	<u>22.95</u>	Hours
Unit cost:	<u>\$2.661</u>	/LCY	Total job cost:	<u>\$55,978</u>	

TRUCK/LOADER TEAM WORK

Task description: **Replace Topsoil on J Pit ASH-1 to J Pit**

Site: **Trapper Mine**

Permit Action: TR134

Permit/Job#: C1981010

PROJECT IDENTIFICATION

Task #: N16AA

State: Colorado

Abbreviation: None

Date: 6/8/2023

County: Moffat

Filename: C010-N16aa

User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Shift basis: 1 per day

	Equipment Description
Truck Loader Team -Truck:	Cat 777F
-Loader:	Cat 385C L 18'-1" Stick
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	Cat D10T - 10SU
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Excavator	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	25	25	25	50
Ownership cost/hour:	\$206.48	\$217.90	\$178.69	\$178.69	\$212.21	\$11.35
Operating cost/hour:	\$160.10	\$166.27	\$40.06	\$40.06	\$31.22	\$11.46
%Utilization-riper:	NA	0	15	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$26.20	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$1.83	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$33.71	\$37.32	\$41.30	\$41.30	\$28.56	\$0.00
Unit Subtotals:	\$400.29	\$421.49	\$261.87	\$260.05	\$271.99	\$22.81
Number of Units:	3	1	1	1	1	1
Group Subtotals:	Work: \$1,622.36		Support: \$521.92		Maint: \$294.80	

Total work team cost/hour: **\$2,439.08**

MATERIAL QUANTITIES

Initial volume: 34,913

CCY

Swell factor: 1.000

Loose volume: **34,913**

LCY

Source of estimated volume: Appendix A Tables A-10.5A

Source of estimated swell factor: Cat Handbook

Material Purchase Cost: \$0.00

Total Cost: \$0.00

HOURLY PRODUCTION

Truck Capacity:

Truck Payload (weight) Basis:

Material weight:	<u>1,600</u>	Pounds/LCY
Description:	<u>Top Soil</u>	
Rated Payload:	<u>200,000</u>	Pounds
Payload Capacity:	<u>125.00</u>	LCY

Truck Bed (volume) Basis:

Struck Volume:	<u>60.60</u>	LCY
Heaped Volume:	<u>78.80</u>	LCY
Average Volume:	<u>69.70</u>	LCY
Adjusted Volume:	<u>78.80</u>	LCY

Final Truck Volume Based on Number of Loader Passes: 77.72 LCY

Loading Tool Capacity

Bucket Size Class: Large

Rated Capacity:	<u>7.850</u>	LCY (heaped)
Bucket Fill Factor:	<u>0.825</u>	Blasted rock - avg. blasted (75 - 90%) 0.825
Adjusted Capacity:	<u>6.476</u>	LCY

Job Condition Corrections:

Site Altitude (ft.): 6400 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 12 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: ABOVE AVERAGE
 Selected Value within this Basic Rating: AVERAGE

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): NA minutes

Cycle Time Factors		Factor (min.)	Source
Material:	NA	NA	(Cat HB)
Stockpile:	NA	NA	(Cat HB)
Truck Ownership:	NA	NA	(Cat HB)
Operation:	NA	NA	(Cat HB)
Dump Target:	NA	NA	(Cat HB)

Net Cycle Time Adjustment: NA minutes
 Adjusted Loader Cycle Time: **0.302** minutes
 Net Load Time per Truck: **3.422** minutes

Truck Cycle Time:

Truck Exchange Time:	<u>0.80</u>	Minutes	Adjusted for site altitude:	<u>0.800</u>	Minutes
Truck Load Time:	<u>3.422</u>	Minutes	Adjusted for site altitude:	<u>3.422</u>	Minutes
Truck Maneuver and Dump Time:	<u>1.20</u>	Minutes	Adjusted for site altitude:	<u>1.200</u>	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	7908.00	-3.50	3.00	-0.50	3503	2.376

Haul Time: 2.376 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	7908.00	3.50	3.00	6.50	2853	3.115

Return Time: 3.115 minutes

Total Truck Cycle Time: 10.913 minutes

Loading Tool unit

Production	<u>1,104.43</u>	LCY/Hour	Adjusted for job efficiency:	<u>916.68</u>	LCY/Hour
Truck Unit Production	<u>427.28</u>	LCY/Hour	Adjusted for job efficiency:	<u>354.64</u>	LCY/Hour
Optimal No. of Trucks:	<u>3</u>	Truck(s)	Selected Number of Trucks:	<u>3</u>	Truck(s)

Adjusted hourly truck team production:	<u>1,063.93</u>	LCY/Hour
Adjusted single truck/loader team production:	<u>916.68</u>	LCY/Hour
Adjusted multiple truck/loader team production:	<u>916.68</u>	LCY/Hour

JOB TIME AND COST

Fleet size:	<u>1</u>	Team(s)	Total job time:	<u>38.09</u>	Hours
Unit cost:	<u>\$2.661</u>	/LCY	Total job cost:	<u>\$92,896</u>	

SCRAPER TEAM WORK

Task description: Replace Topsoil at C Pit Future TS Pile

Site: Trapper Mine

Permit Action: TR134

Permit/Job#: C1981010

PROJECT IDENTIFICATION

Task #: 092A

State: Colorado

Abbreviation: None

Date: 7/11/2023

County: Moffat

Filename: C010-092a

User: RAR

Agency or organization name: DRMS

HOURLY EQUIPMENT

COST Shift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	NA
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	Cat D10T - 10SU
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	50	50	50	60
Ownership cost/hour:	\$255.23	NA	\$178.69	\$178.69	\$212.21	\$11.35
Operating cost/hour:	\$280.59	NA	\$80.11	\$80.11	\$62.44	\$13.75
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$30.90	NA	\$41.30	\$41.30	\$28.56	\$21.12
Unit Subtotals:	\$566.72	NA	\$300.10	\$300.10	\$303.21	\$46.23
Number of Units:	8	0	1	1	1	1
Group Subtotals:	Work: \$4,533.76		Support: \$600.20		Maint: \$349.44	

Total work team cost/hour: \$5,483.40

MATERIAL QUANTITIES

Initial volume: 122,242

CCY

Swell factor: 1.000

Loose volume: 122,242

LCY

Source of estimated volume: Appendix A, Table A-10.2

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight: 1,600 lbs/LCY
 Material description: Top Soil
 Rated Payload: 81,600 pounds
 Payload Capacity: 51.00 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: 29.00 LCY

Cycle Time:

Scraper Loading Time: 1.00 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction:

Site Altitude: 6400 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2000.00	-4.50	4.00	-0.50	2972	0.72

Haul Time: 0.72 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	2000.00	4.50	4.00	8.50	1931	1.13

Return Time: 1.13 minutes

Total Scraper team cycle time: 3.45 minutes
 Adjusted for job conditions: 837.22 LCY/Hour
 Selected Number of Scrapers: 8 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 3,348.87 LCY/Hour
 Adjusted multiple scraper team (fleet) hourly production: 3,348.87 LCY/Hour

Unadjusted unit production/hour: 1,008.70 LCY/Hour
 Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 36.50 Hours
 Unit cost: \$1.637 /LCY Total job cost: \$200,158

REVEGETATION WORK

Task description: Seed J Pit without shrubs (Range C)

Site: Trapper Mine

Permit Action: TR134

Permit/Job#: C1981010

PROJECT IDENTIFICATION

Task #: N19

State: Colorado

Abbreviation: None

Date: 7/11/2023

County: Moffat

Filename: C010-N19

User: RAR

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	
	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	
	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.40	0.50	\$28.08
Beardless Wheatgrass - Whitmar	0.31	1.01	\$3.63
Mountain Brome - Bromar	0.72	1.16	\$2.74
Great Basin Wildrye - Magnar	0.92	3.74	\$10.63
Kentucky Bluegrass - Ginger	0.06	2.96	\$0.19
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Burnett, Small (or Little) - Delar	0.40	0.51	\$1.00
Sheep Fescue - Covar	0.15	2.34	\$0.92
Milk Vetch, Cicer - Lutana	0.30	1.00	\$2.46
Slender Wheatgrass - San Luis	0.28	1.02	\$1.19
Streambank Wheatgrass - Sodar	0.26	0.85	\$1.48

Thickspike Wheatgrass - Critana	0.28	0.99	\$1.93
Western Wheatgrass - Arriba	0.38	0.96	\$2.47
Needlegrass, Green - Lodorm	0.24	1.00	\$2.83
Flax, Lewis Blue	0.30	1.99	\$4.95
Red Top	0.02	2.29	\$0.16
Penstemon, Rocky Mountain	0.14	2.19	\$4.13
Yarrow, Western	0.07	4.26	\$2.93
Globemallow, Munro	0.08	0.91	\$7.00
Aster, Pacific	0.02	0.35	\$2.39
Goldeneye - Showy	0.08	0.92	\$4.80
Totals Seed Mix	5.51	31.41	\$86.15

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	34.7	Cost /Acre:	\$318.15
Estimated Failure Rate:	17.5%	Cost /Acre*:	\$318.15
*Selected Replanting Work Items:	TILLING,SEEDING		

Initial Job Cost:	\$11,039.81
Reseeding Job Cost:	\$1,931.97
Total Job Cost:	\$12,972
Job Hours:	66.00

REVEGETATION WORK

Task description: Seed C Pit No Shrubs

Site: Trapper Mine Permit Action: TR134 Permit/Job#: C1981010

PROJECT IDENTIFICATION

Task #: N22 State: Colorado Abbreviation: None
 Date: 7/11/2023 County: Moffat Filename: C010-N22
 User: RAR
 Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	
	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	
	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.40	0.50	\$28.08
Beardless Wheatgrass - Whitmar	0.31	1.01	\$3.63
Mountain Brome - Bromar	0.72	1.16	\$2.74
Great Basin Wildrye - Magnar	0.92	3.74	\$10.63
Kentucky Bluegrass - Ginger	0.06	2.96	\$0.19
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.26
Burnett, Small (or Little) - Delar	0.40	0.51	\$1.00
Sheep Fescue - Covar	0.15	2.34	\$0.92
Milk Vetch, Cicer - Lutana	0.30	1.00	\$2.46
Slender Wheatgrass - San Luis	0.28	1.02	\$1.19
Streambank Wheatgrass - Sodar	0.26	0.85	\$1.48

Thickspike Wheatgrass - Critana	0.28	0.99	\$1.93
Western Wheatgrass - Arriba	0.38	0.96	\$2.47
Needlegrass, Green - Lodorm	0.24	1.00	\$2.83
Flax, Lewis Blue	0.30	1.99	\$4.95
Red Top	0.02	2.29	\$0.16
Penstemon, Rocky Mountain	0.14	2.19	\$4.13
Yarrow, Western	0.07	4.26	\$2.93
Globemallow, Munro	0.08	0.91	\$7.00
Aster, Pacific	0.02	0.35	\$2.39
Goldeneye - Showy	0.08	0.92	\$4.80
Totals Seed Mix	5.51	31.41	\$86.15

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	75.8	Cost /Acre:	\$318.15
Estimated Failure Rate:	17%	Cost /Acre*:	\$318.15
*Selected Replanting Work Items:	TILLING,SEEDING		

Initial Job Cost:	\$24,115.77
Reseeding Job Cost:	\$4,099.68
Total Job Cost:	\$28,215
Job Hours:	189.00

SITE MAINTENANCE

Task description: Site Maintenance; Drainage Stabilization

Site: Trapper Mine Permit Action: TR134 Permit/Job#: C1981010

PROJECT IDENTIFICATION

Task LN20A State: Colorado Abbreviation: None
#: _____
Date: 7/11/2023 County: Moffat Filename: C010-LN20a
User: RAR

Agency or organization name: DRMS

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Rill/Gully Repair 32hrs/year for 1st 5 years	24.00	Cat 324D L 9'-8" Stick	105.00	EA	\$202.75	\$21,288.75

Job Hours: 600.00

Total Cost: \$21,288.75