

MINERALS PROGRAM INSPECTION REPORT PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME:		MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Pikeview Quarry		M-1977-211	Limestone (general),	El Paso
			granite gneiss and do	
INSPECTION TYPE:		WEATHER: Clear	INSP. DATE:	INSP. TIME:
Surety-Related Inspection			November 22, 2024	10:00
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERAT	TION:
Riverbend Industries Inc.		Jerry Schnabel	112c - Construction	Regular Operation
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:	
Surety Related		Complete Bond	\$6,805,607.00	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA		None	None	
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT	E:
Hunter Ridley			December 3, 2024	
	11 ,	D I.		
	Hunton.	Kidley		
	1100000			

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY <u>Y</u>	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>N</u>	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>N</u>	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION Y
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP Y
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION Y	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection was conducted by Hunter Ridley with the Division of Reclamation, Mining and Safety (Division) as part of the continuing planned monthly inspections to observe the backfill placement for the final reclamation of the Pikeview Quarry. As backfill placement has ceased, monthly inspections have continued to observe final grading and revegetation efforts. Jerry Schnabel (representing the Permittee, Riverbend Industries Inc.) and Stantec representative Paul Kos and Michaela Swain were present for the inspection. David Deitemeyer with the City of Colorado Springs and U.S. Forest Service (USFS) representative Cullen Lapointe were also present at the inspection. The Division plans to conduct one further inspection in December of 2024 to see the completion of all earthwork and material moving at the site. Only after completion of these tasks will the Division move to quarterly inspections.

On October 10, 2024 the Division received a submission for Surety Reduction 4 (SR-4). This reduction request is for tasks related to earthwork, topsoil placement, and rip rap placement. The Division is currently in the process of reviewing the materials submitted. This inspection was conducted for the SR4 release request as required by Rule 4.17.2. The observations of this inspection will determine what reclamation bonding tasks will be released with the approval of SR4. The Division will then recalculate the required financial warranty amount for the Pikeview Quarry. The updated estimate has been attached to this report for review by the Operator. The estimate will also be sent to the Forest Service for review, as the Division holds a joint bond with the USFS for specific reclamation tasks on USFS land at Pikeview.

The Maintenance Shop has been removed from the site. The outbuilding and Office building still remain. Therefore, the Division will release bonding tasks required for the demolition of the maintenance shop and retain costs associated with demolition of the Office and Outbuilding. The Division awaits a letter from the City which states that the Office building may remain in final reclamation. The Division will also release bonding tasks associated with drilling, blasting, and hauling of blasted materials, as these tasks have been fully completed at the site.

The mine sign, which included all required information pursuant to Rule 3.1.12, was located at the site's access road (Photo 1).

Records: The placement of backfill material and subsequent compaction testing has ceased at Pikeview Quarry. In total, compaction testing occurred on backfill material from March of 2022 to July of 2024. A reduction in frequency of geotechnical report submission was approved by the Division in TR-25. This reduces reporting frequency from monthly to quarterly. The next report will be due in February 2025 and include observation data from October 2024 to December 2024.

Leica prism system data continues to be collected onsite and monitored by Riverbend Industries. As site personal leave the quarry through the winter months, Pikeview staff will be able assessing this data remotely. Prism data continues to support the conclusion that slope stability is being achieved on the buttress as the bottom of the buttress remains in place and the top of the buttress continues to settle into the slope, as expected. Any recorded slope movements are on the magnitude of 0.1 ft. Occasionally, fog, other inclement weather conditions, or interaction with animals will produce incorrect readings for the prism data. These have historically been recorded on the site's geotechnical reports and will continue to be reported in the same manner. However, a trigger level for notification to the Division of movement $\pm/-0.35$ feet has been set for any movements not attributed to errors with weather or animals. This notification trigger has been in place since Stantec began submitting monthly geotechnical reports in October of 2020.

Prism data will ultimately aid the Division in its decision to approve or deny the eventual final release of the Pikeview Quarry permit.

Backfilling and Grading: All major earthwork is complete at the site. However, the Division will be retaining a portion of the bond which addresses earthwork to serve as liability in case of any minor slumps or erosional work

that may be needed throughout final reclamation. A portion of the cost for moving rip rap material, topsoil, and placing matting will also be retained to account for work still to be completed in the South Quarry borrow area and the remaining drainage channel tie in areas.

The quarry south borrow area is currently acting as the storage area for rip rap material and is also the site of continued rip rap creation used to complete drainage channels on site. Currently the only remaining channels in need of rip rap are the tie in areas near the Dragon's Back, Lower Borrow, and Upper North channel. Once all rip rap material has been removed and placed, the site will reduce the size of the bench by backfilling, topsoiling, and seeding up to the first bench of this slope (Photo 2). A large rock outcrop will remain in this benched area to enhance the natural look of the slope face, similar to how the large rock and Kiewit Cliffs have been left on the buttress slope.

Ponding which was visible at the Leia prism level bench during the last inspection has been regraded to promote proper drainage (Photo 8). The area was no longer ponding water at the time of this inspection.

Roads: The site continues its work in obliterating all roads on Forest Service property, as requested by the Forest Service. A grading task will remain in place with the Division to cover these costs and to cover the cost of rebuilding and re-obliterating these roads, should maintenance work need to be completed on any of the onsite drainages while still in final reclamation.

Current landowner, the City of Colorado Springs, has plans to construct a series of trails in 2025 which will predominantly traverse the open space on the eastern portion of the permit boundary, and will also traverse a small section of the eastern most edge of Pikeview's affected area boundary. Once these trails are in place, the Division will need to receive and approve a Technical Revision to update the site's reclamation plan map. A small, graveled parking lot will be constructed adjacent to the main office building in support of these trails and in support of Pikeview's recreation post mining land use.

Fish and Wildlife: No negative impact on wildlife was observed. A Bighorn ram was spotted on the upper levels of the buttress.

Revegetation & Topsoil: As per Rule 3.1.10, the Division can only consider release on revegetated areas where 'a diverse, effective, and long-lasting vegetative cover that is capable of self-regeneration without continued dependence on irrigation, soil amendments or fertilizer, and is at least equal in extent of cover to the natural vegetation of the surrounding area' has been established. At this time, the Division is unable to make this determination and will not be able to make such determination until the vegetation at Pikeview has had more time to establish, mature, and be exposed to all seasonal elements. Therefore, the Division will be retaining all bonding tasks associated with revegetation at the site.

Areas which remain on site to be topsoiled and seeded include the south quarry area and the lower culvert area. Depending on how much excess matting material is available, these areas may receive matting instead of the usual seeding method. Therefore, the Division will be retaining costs associated with the remaining acres to be topsoiled and seeded along with a 10% - 15% maintenance cost to replace any matting, mulching, or topsoil across the site if necessary.

Continued vegetation growth was observed across the main buttress portion of the site, though this has slowed as we progress into the winter months (Photos 5, 4 and 9). However, all matted areas show continued signs of stability in supporting grasses and shrubs. Revegetation efforts continue to be monitored by staff who say that tree growth is doing well, though it remains to be seen how the shrubs on site will fare long term. Weeds previously treated at the site include a List A noxious weed species, Myrtle spurge along with common knapweed, thistle, toadflax, and mullein. Treatment of such species should be high priority after the winter months. A bonding task has been retained for use in weed treatment on site.

Irrigation tanks are located on the lower buttress bench (Photo 5). These are still planned to be removed, but this has not yet been completed at the site. No additional irrigation tanks are planned to be added anywhere onsite.

Hydrologic Balance & Sediment Control: Coconut matting onsite, both recently placed and originally placed, are holding up to stormwater and general erosion well. A sizable snowstorm passed through the area in the weeks prior to this inspection. Site representatives stated that rip rap and matting held up well to these conditions. Further natural testing of the drainage channel design will occur when the spring brings heavier rain and snow melt events.

Pikeview has continued to work with the City and the USFS to address concerns of erosion and overtopping at the site's southernmost drainage channel. The channel bend in this area has been reinforced with two rock walls. One wall has been dry stacked along the edge of the channel and the other has been trenched in at the channel's outermost edge (Photos 3 and 6). The trenched in layer has been dug down into a consolidated clay layer, with the intention of effectively cutting off hydraulic flow to between the Upper South Channel and the drainage area to the south (Photo 7), which will prevent stormwater from flowing outside of its planned channel. These changes to the channel design are in addition to the channel design approved by the Division under TR24. Once Pikeview has determined that these design additions are effective and to remain permanent, the Division will need to receive and approve and updated design for the Upper South Channel via a Technical Revision submission.

All surface water drainage channels have been constructed to their final configurations on site as per the approved design. All channels except a few small tie-in areas, as discussed above, have been placed with rip rap. The most recently placed rip rap area in the main North Channel was inspected by the Division and site representatives on foot (Photos 11 and 12). Rip rap was well placed, sturdy, and was constructed accurately to design configurations approved by the Division. With the completion of channel excavation and a majority of the channel rip rap placement, the Division will be releasing bonding tasks associated with such work. The only exception will be for the drainage channel areas which cross USFS property, as the USFS has requested that the Division maintain costs associated with these channels to cover any maintenance costs which may be associated with the enhanced reclamation design of the Upper South Channel as discussed previously. These costs include excavation of the channel and placement of gravel and rip rap if necessary.

The large culvert area at the eastern end of the site continues to allow water to flow through the buttress slope underdrain as designed. This water was observed to be flowing consistently and is now connected with a small creek at the edge of the permit and flowing into the adjacent open space. The western slope in this culvert area still requires some grading and lay back efforts to reduce the slope grade (Photo 10).

The guzzler system for the 'sheep pond' area has not yet been installed on the upper slope area. Pikeview representatives have stated that CPW would be visiting within the next week to work towards completion of this task.

Post Inspection Meeting: No problems or possible violations were observed during the inspection. Items of importance discussed during the site meeting and items which will need to be followed up on are summarized below:

- Future reduction of monthly inspection frequency to begin when only monitoring of revegetation efforts remain and as approved by the Division
- Address any concerns with the drainage channels, especially the Upper South Channel, into the Spring 2025 season
- Continue to monitor and address invasive species and weed removal across the site during the appropriate seasons

Photographs taken during the inspection have been included below. Responses to this inspection report should be directed to: Hunter Ridley at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 720-868-7757 or via email at hunter.ridley@state.co.us

PHOTOGRAPHS



Photo 2: View of the south quarry area, rip rap is currently being removed for use on the remaining drainage channel tie-in areas.



Photo 3: View of the Upper South Channel on USFS property. The rock wall is complete in this area.



Photo 4: View northeast of the revegetating buttress slope, the south quarry area is also visible, where active rip rap creation is occurring.



Photo 5: View north of the revegetating buttress slope.



Photo 6: View west of the rock wall installed into the Upper South Channel at the request of the City and the USFS.



Photo 7: view south of the drainage area that has been protected from drainage by the installation of the rock wall on the Upper South Channel.



Photo 8: View north of the regraded buttress level above the Leica prism station, this addressed ponding noted in the previous inspection.



Photo 9: View south of matted slopes at the eastern edge of the buttress.



Photo 10: View south of the eastern edge of the buttress area. The culvert which connects to the slope's underdrain daylights here.



Photo 11: View east of the end of the Main North Channel and into the City of Colorado Springs Open Space area. The area to remain as a graveled lot next to the office building is also visible.



Photo 12: View northwest from inside the rip rap lined main north channel.

Inspection Contact Address Jerry Schnabel Riverbend Industries Inc. 425 South Financial Place , Suite 3100 Chicago, IL 60605

COST SUMMARY WORK

Task descrip	otion:	SR4 Update					
Site: Pikeview	Quarry	Pe	rmit Action:	SR4	Permit/Job	#: <u>M1977211</u>	
PROJECT	IDENTIFIC	ATION					
Task #: Date: User:	000 10/10/2024 HR1	State: County:	Colorado El Paso		Abbreviation: Filename:	None M211-000	

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
4010	Demo Maintenance Shop, Office & Outbuilding	DEMOLISH	1	40.00	\$11,327
4CH0	Construct riprap ditches	POSTMININ	1	203.60	\$67,352
		G			
4E20	Load/Haul/Dump Lower Borrow Area Material	TRUCK1	1	104.31	\$107,239
4EP0	Install erosion control blankets on steep slopes	REVEGE	1	100.00	\$134,310
4EP1	Apply Mulch on flatter slopes	REVEGE	1	90.00	\$18,423
4GF0	Revegetate 32.18 USFS acres (excl. trees & mulch)	REVEGE	1	90.00	\$174,239
4GP0	Reveg. 106.92 private acres (excl. trees & mulch)	REVEGE	1	300.00	\$501,069
4M00	MOB / DEMOB	MOBILIZE	1	13.00	\$28,167
4RD1	Obliterate 5,000 ft of road	GRADER	1	2.64	\$494
4RD2	Load/Haul/Dump 2500 tons of gravel for rip rap	TRUCK1	1	0.54	\$4,256
	(main.)				
4SP0	Private area to be planted w/ shrubs	REVEGE	1	40.00	\$61,898
4TF0	USFS area to be planted w/ trees & watered sep.	REVEGE	1	20.00	\$5,498
4TP0	Private area to be planted w/ trees watered sep	REVEGE	1	25.00	\$8,944
4TS1	Place topsoil in USFS area from various stockpiles	TRUCK1	1	13.25	\$16,862
4TS2	Place topsoil in private area from various	TRUCK1	1	16.99	\$28,851
	Stockpiles	NTA	1	20.00	¢9.200
41W0	Purchase water for trees (maintenance)	NA	1	20.00	\$8,290
41W1	Water trees on USFS land	ENANCE	1	100.00	\$2,400
4TW2	Water trees on private land	SITEMAINT	1	100.00	\$2,924
		ENANCE			
4WC1	Weed Control	NA	1	40.00	\$18,600
		<u>SUBTO</u>	TALS:	1319.33	\$1,201,143

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$24,263
Performance bond:	1.05	Total =	\$12,612
Job superintendent:	3,107.96	Total =	\$246,368
Profit:	10.00	Total =	\$120,114
		TOTAL O & P =	\$403,357
		CONTRACT AMOUNT (direct + $O \& P$) =	\$1,604,500

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$68,191
Reclamation management and/or administration:	5.00	_	\$80,225
		-	
CONTINGENCY:	3.00	Total =	\$36,034
	TOTAL IN	DIRECT COST =	\$588,308
TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$1,789,451

DEMOLITION WORK

	Task description:	Demo Mair	ntenance Shop, (Office & Outbuilding		
Site:	Pikeview Quarry		Permit Action:	SR4	Permit/.	Job#: <u>M1977211</u>
PROJE	CT IDENTIFICATION	<u>N</u>				
Task #	: 4010	State:	Colorado		Abbreviation:	None
Date	: 11/25/2024	County:	El Paso		Filename:	4010
User	: HR1					
	Agency or organizat	ion name:	DRMS			

UNIT COSTS

Location adjustment: 93.10 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office	9' x 42' x 72'	Bldg. (SC) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	27,216.00	CF	\$0.30	\$8,151.19
Office Floor	0.33' x 42' x 72'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	3,024.00	SF	\$0.79	\$2,395.61
Office Outbuilding	9' x 15' x 37'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	4,995.00	CF	\$0.24	\$1,179.82
Office Outbuilding Floor	0.33' x 15' x 37'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	555.00	SF	\$0.79	\$439.67

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	40.00	(unadjusted):	\$12,166.29	location):	\$11,326.82

Post-Mining Drainage Channel Construction (Ditches)

_	Pikeview	Quarry		Permit Action	n: SR4]	Permit/Jo	b#: <u>M19772</u>	211
P	PROJECT	IDENTIFI	CATION							
	Task #: Date: User:	4CH0 10/24/2024 HR1	Sta	ate: <u>Colorad</u>	lo		Ab	breviatio Filenam	n: <u>None</u> e: <u>4CH0</u>	
	Ag	ency or organi	ization name:	DRMS						
	Channel	Length (ft)	Depth (ft)	Width (bottom) (ft)	Side Slopes (XH:1V)	Width (top) (ft)	Exc V	cavated ol./LF CY)	Excavated Vol. (total) (CY)	
	Upper South Channel	2,034	2.00	10.00	2.00	18.00	1	.0370	2,109	-
	C4 Channel	600	2.30	10.00	2.00	19.20	1	2437	746	-
	Totals:	2,634							2,856	-
	Riprap	Riprap Thickness (2xD50) (ft)	Perimeter, P (ft)	Area for Geotextile (excl. anchor trenches) (sf)	Ripra (C	p Vol. Y)				
		0.00	18.94	38,533	()				
	Totals:	1.00	20.29	12,172 50,704	44	51 51				
N	Iaterials Ne	eded:								
(Geotextile (SY incl. 15% Rip Excavat	wastage): orap (CY): ion (CY):	6,479 451 2,856						
C	<u>Costs:</u>									
	Mat] Equir	terial Costs: Labor Cost:	Geotextile (S	Y): \$3.30 \$0.32 \$0.00	Riprap	(CY):	\$34.50 \$14.65	Excav	vation (CY):	\$0.00 \$2.84
	Mean	s Reference	31 32 1916 15	510	31 37 1310	0100	\$13.10	31 23	1642 0310	\$2.39
Т	<u>'otals:</u>									
	Ge	otextile (SY): Riprap (CY):	\$23,453.5 \$28,963.7	51 78						
	Exc	avation (CY):	\$14,934.5	56						
H	<u>Iours:</u>									
	Ge	otextile (SY): 87.50 SY/HR	74.04							
		Riprap (CY): 7.75 CY/HR	58.17							

40.00 CY/HR

Total Post-Mining Channel Reconstruction hours:203.60HoursTotal Post-Mining Channel Reconstruction Cost:\$67,352

TRUCK/LOADER TEAM WORK

Task description:	Load/H	aul/Dump Lo	wer	Borrow Area M	aterial		
Site: Pikeview Quarry	7	Permit A	Actic	on: <u>SR4</u>		Permit/Job#: <u>M</u>	1977211
PROJECT IDEN	TIFICATION	[
Task #: 4E20		State: Co	olora	ido	Ab	breviation: Nor	ne
Date: 10/10/	/2024	County: El	Pase	0		Filename: M2	11-4E20
User: <u>HR1</u>							
Agency or	organization nar	me: DRMS					
HOURLY EQUI	PMENT COST	<u>r</u>			Shift bas	is: <u>1 per day</u>	
			I	Equipment Descri	ption		
Т	ruck Loader Tea	m -Truck:	Cat	740			
	aut Esuinmant I	-Loader:	CA7	Г 980Н			
Supp	ort Equipment -L	ump Area:	NA NA				
Road M	aintenance – Mot	or Grader:	CAT	Г 12М			
	-Wa	ter Truck:	Wat	er Tanker, 5,000	Gal.		
~							
<u>Cost Breakdown</u> :	Truck/Loa	ader Team		Support H	Equipment	Maintenan	ce Equipment Water Truck
	TTUCK	Loader		Load Area	Dump Area	Motor Grader	Water Huck
%Utilization-machine:	100	10	00	NA	NA	25	25
Ownership cost/hour:	\$108.25	\$69.0	00	NA	NA	\$69.16	\$51.70
Operating cost/hour:	\$79.54	\$60.5	57	NA	NA	\$13.69	\$12.56
%Utilization-riper:	NA		0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.0	00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.0	00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$56.8	84	NA	NA	\$56.70	\$0.00
Unit Subtotals:	\$212.61	\$186.4	41	NA	NA	\$139.54	\$64.26
Number of Units:	3	****	1	0	0	1	1
Group Subtotals:	Work:	\$824.24		Support:	\$0.00	Maint:	\$203.80
Total work team cos	st/hour: <u>\$1,028.</u>	04					
MATERIAL QU	ANTITIES						
Initial volume: Loose volume:	46,500 58,12	C 5 L	CY CY	Swell	factor: <u>1.250</u>		
So	urce of estimated	volume: S	R3 I	Resp Tbl D-2w/2.	5%swell: Haul dis	st google, maint 10)%
Source	of estimated swe	ell factor: C	Cat H	landbook	, , , , , , , , , , , , , , , , , , , ,		
	Material Purch	ase Cost: \$	0.00				
	То	otal Cost:	0.00				
HOURLY PRO	DUCTION						
Truck Capacity:							
Truck Payload (weig	ght) Basis:			D			
Material w	veight: 2,650	nosed rock	250%	Pounds/LCY			
Rated Pa	vload: 87000	iposeu lock - 2	23%	Pounds	L		
Payload Ca	pacity: 32.83			LCY			

Truck Bed (volume) Basis:						
Struck Volume:	24.20	LCY				
Heaped Volume:	31.40	LCY				
Average Volume:	27.80	LCY				
Adjusted Volume:	31.40	LCY				
Final	Truck Volume	Based on Number of	f Loader Passes:	30.94	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: <u>N</u>	А	_
Rated Capacity:	7.500	LCY (heaped)				_
Bucket Fill Factor:	0.825	Blasted rock - a	vg. blasted (75	- 90%) 0.825		_
Adjusted Capacity:	6.188	LCY				
Job Condition Corrections:	<u>.</u>	Si	te Altitude (ft.):	<u>7200</u> feet		
	Truck	Loader	Source			
Altitude Adj:	0.960	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction	0.797	0.830				
	0.171	0.000				
Loading Tool Cycle Time:	Number	of Loading Tool Pa	sses Required to	Fill Truck:	5 1	passes
Excavators and Front Shove	<u>ls:</u>					
Malin Cal Time						
Selected Value	within this Basi	c Rating: <u>NA</u>				
Track Loaders -	Material Descri	iption:				
Cycle Time Elements (min.):						
Load NA	М	aneuver: NA		Dump: 0.100		
				Dump	·	
Wheel and Track Loaders -	Unadjusted Ba	sic Loader Cycle Tir	ne (load, dump, i	maneuver): 0.	.550 min	utes
Cycle Time Factors				Factor (min.)	Source	
Material:	Bank or broke	en material 0.04		0.040	(Cat HB)	
Stockpile:	No adjustmer	nt - factor not applica	ble 0.00	0.000	(Cat HB)	
Truck Ownership:	Common own	nership of trucks and	loaders -0.04	-0.040	(Cat HB)	_
Operation:	Constant oper	ration -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal targe	et 0.00		0.000	(Cat HB)	
		Net Cycle Tin	ne Adjustment:	-0.040	minutes	
		Adjusted Load	er Cycle Time:	0.510	minutes	
		Net Load 1	ime per Truck:	2.140	minutes	
<u>Truck Cycle Time:</u>						
Truck Exchange Time	: 0.60	Minutes	Adjusted	for site altitude:	0.625	Minute
Truck Load Time	: 2.140	Minutes	Adjusted	for site altitude:	2.140	Minute
ck Maneuver and Dump Time	: 1.00	Minutes	Adjusted	for site altitude:	1.042	Minute
Truck Travel (Haul & Return maintained 3.0	n) Time:	Road Condition: <u>1</u>	Firm, smooth, rol	ling, dirt/lt. surfaced	l, watered,	

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2000	.00	12.00	3.00	15.00	634	3.226	
	Return Ro	ute.				Haul Time:	3.226	minute	28
Γ	Seg #	Haul	Distance	Grade (%)	Roll Res	Total Res	Velocity	Travel	7
	562 "	(Ft)	Distance	Grade (70)	(%)	(%)	(fpm)	Time (min)	
	1	2000	.00	-12.00	3.00	-9.00	3706	0.580	
					Total Tru	Return Time: ck Cycle Time:	0.580 7.613	minu minu	ites
Lo Truck	oading Too Produ Unit Produ	l unit iction	671.34	LCY/Hour		Adjusted for j	ob efficiency:	557.21	LCY/Hour
			243.84	LCY/Hour		Adjusted for j	ob efficiency:	202.38	LCY/Hour
Optima	l No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	d hourly true	k team production	on: 607	.15 LO	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: 557	.21 LO	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 557.	.21 LO	CY/Hour
	JOB TIN	ME Al	ND COST						
	Fleet	size:	1	Team(s)]	Fotal job time:	104.3	1	Hours
	Unit	cost:	\$1.845	/LCY	,	Total job cost:	\$107,2	239	

Task description:		Install erosion control blank	ets on steep slo	pes	
Site: Pikeview Quarry		Permit Action:	SR4	Permit/Job#: M1	977211
PROJECT	IDENTIFIC	ATION			
Task #: Date: User:	4EP0 10/16/2024 HR1	State:ColoradoCounty:El Paso		Abbreviation:NoneFilename:4EP0	
Age	ency or organi	zation 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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre \$0.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Polyprop. mesh, staples Material (MEANS 31 25 14.16 0200)	1.00	ACRE	\$5,517.60	\$5,517.60
Total Mulch Materials Cost/Acre				\$5,517.60

Application

Description	Cost /Acre
Polypropylene Mesh, 100 SY per Roll, 4' wide, Stapled (no material) (MEANS)	\$3,436.40
Total Mulch Application Cost/Acre	\$3,436.40

NURSERY STOCK PLANTING

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

No. of Acres:	15	Cost /Acre:	\$8,954.00
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

\$134,310.00
\$0.00
\$134,310
100.00

Task descrip	otion:	Apply Mulch on flatter slope	s		
Site: Pikeview	Quarry	Permit Action:	SR4	Permit/Job	#: <u>M1977211</u>
PROJECT	IDENTIFIC	ATION			
Task #: Date: User:	4EP1 10/16/2024 HR1	State:ColoradoCounty:El Paso		Abbreviation: Filename:	None 4EP1
Age	ency or organiz	zation name: DRMS			

FERTILIZING

Materials

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

Application

Description	Cost /Acre
	\$
Total Fautilizer Application Cost/Acro	
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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre \$0.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$85.37
Power mulcher (MEANS 32 91 13.16 0350)	\$157.25
Total Mulch Application Cost/Ac	ere \$242.63

NURSERY STOCK PLANTING

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

No. of Acres:	15	Cost /Acre:	\$1,228.19
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

\$18,422.85
\$0.00
\$18,423
90.00

Task description:		Revegetate 32.18 USFS acres (excl. trees & mulch)		& mulch)	<u> </u>	
Site: Pikeview Quarry		Permit Action: SR4		Permit/Jol	Permit/Job#: <u>M1977211</u>	
PROJECT	<u>IDENTIFIC</u>	ATION				
Task #:	4GF0	State: Colorado		Abbreviation:	None	
Date:	10/10/2024	County: El Paso		Filename:	4GF0	
User:	HR1					

FERTILIZING

Materials

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

Application

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

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$102.41
Total Tilling Cost/Acre	\$102.41

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arizona Fescue - Redondo	1.60	18.37	\$24.10
Blue Grama - Native	0.20	3.26	\$4.27
Indian Ricegrass - Native	3.00	9.71	\$51.88
Canada Wildrye	6.80	17.95	\$69.56
Little Bluestem - Native	1.60	9.55	\$24.63
Nodding Brome	1.00	2.49	\$21.48
Sideoats Grama - Vaughn	1.40	4.60	\$34.43
Bottlebrush Squirreltail	4.60	20.28	\$116.86
Rocky Mountain Fescue	0.40	6.43	\$4.31
Slender Wheatgrass - San Luis	5.40	19.71	\$32.60

Thickspike Wheatgrass - Critana	4.60	16.26	\$37.48
Needle and Thread	3.80	10.03	\$309.43
Needlegrass, Green - Lodorm	1.40	5.82	\$12.10
Parry's Oatgrass	4.80	9.92	\$123.50
Sunflower (or daisy), Oxe-eye	15.80	44.04	\$628.26
Totals Seed Mix	56.40	198.41	\$1,494.88

Application

Description	Cost /Acre
Hydro seeding (MEANS 32 92 19.14 0200)	\$1,359.07
Total Seed Application Cost/Acre	\$1,359.07

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Tackifier, >=10 acres {Materials Only}	1.00	ACRE	\$1,459.26	\$1,459.26
Total Mulch Materials Cost/Acre				\$1,459.26

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 Stoc	k Cost / Acre	\$0.00

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	32.18 35% SEEDING	Cost /Acre: Cost /Acre*:	\$4,415.62 \$2,853.95
Initial Job Cost:	\$142,094.65			
Reseeding Job Cost:	\$32,144.04			
Total Job Cost:	\$174,239			
Job Hours:	90.00			

Task descrip	otion:	Reveg. 106.92 private acres ((excl. trees & mulch)	
Site: Pikeview Quarry		Permit Action: <u>SR4</u>		Permit/Jo	b#: <u>M1977211</u>
PROJECT	IDENTIFIC	ATION			
Task #: Date: User:	4GP0 10/10/2024 HR1	State: Colorado County: El Paso		Abbreviation: Filename:	None 4GP0
Ag	ency or organiz	cation 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
Chisel plowing {DMG}	\$102.41
Total Tilling Cost/Acre	\$102.41

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.00	16.32	\$28.65
Crested Wheatgrass - Ephraim	2.00	9.18	\$10.98
Little Bluestem - Native	2.00	11.94	\$30.78
Sideoats Grama - El Reno	4.00	13.13	\$97.70
Russian Wildrye - Bozoisky	4.00	16.07	\$44.30
Intermediate Wheatgrass - Oahe	8.00	17.08	\$37.17
Alfalfa - Ranger (inoculated)	2.00	9.64	\$7.74
Pubescent Wheatgrass - Greenleaf	8.00	16.53	\$38.07
Mahogany, Mountain	4.00	5.42	\$403.79
Western Wheatgrass - Arriba	8.00	20.20	\$72.27

Rabbitbrush, Rubber	2.00	29.80	\$166.80
Needlegrass, Green - Lodorm	2.00	8.31	\$17.29
Totals Seed Mix	47.00	173.62	\$955.54

Application

Description		Cost /Acre
Hydro seeding (MEANS 32 92 19.14 0200)		\$1,359.07
	Total Seed Application Cost/Acre	\$1,359.07

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Tackifier, >=10 acres {Materials Only}	1.00	ACRE	\$1,459.26	\$1,459.26
Total Mulch Materials Cost/Acre				\$1.459.26

Application

Description	Cost /Acre
	\$
Total Mulah Appl	ination Cost/Apro to an
	ication Cost/Acre \$0.00

NURSERY STOCK PLANTING

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

No. of Acres:	106.92	Cost /Acre:	\$3,876.28
Estimated Failure Rate:	35%	Cost /Acre*:	\$2,314.61
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost: \$414 451 86			

\$414,451.86
\$86,617.34
\$501,069
300.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	M	OB / DEMOB					
: Pikeview Quarr	у	Permit	Action: SR4			Permit/Job#: <u>M</u>	1977211
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 4M0	0	State: Co	olorado		Abbre	eviation: None	
Date: 10/24 User: HR1	4/2024	County: El	Paso		Fi	ilename: 4M00)
Agency or	organizatior	n name: DRMS					
EQUIPMENT TH	RANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	v
				(Cost Data Sou	rce: CRG Da	ta
Truck	Fractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	CK TRACTO	DR, 6X4, DIESEL	L POWERED,
				400 HP	(2ND HALF,	2006)	
Truck	Trailer Desc	ription: G	ENERIC FOLD	ING GOO	SENECK, DI	ROP DECK EQU	IPMENT
			- -	ΓRAILER	(25T, 50T, Al	ND 100T)	
Cost Breakdown:							
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership (Cost/Hour:	\$10.44	\$22.18	\$2	3.94		
Operating (Cost/Hour:	\$26.48	\$54.55	\$5	5.65		
Operator (Cost/Hour:	\$22.52	\$22.52	\$2	2.52		
Helper (Cost/Hour:	\$0.00	\$23.53	\$2	23.53		
Total Unit C	Cost/Hour:	\$59.44	\$122.78	\$1	25.64		
NON ROADABL	<u>E EQUIPN</u>	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D9T - 9SU	60.01	\$253.16	\$125.64	2	\$757.60	\$251.28	\$250.00
Cat 365C L 13'-7" Stick	77.56	\$244.29	\$125.64	1	\$369.93	\$125.64	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	1	\$191.78	\$122.78	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$250.00
CAT 12M	16.01	\$69.16	\$59.44	1	\$128.60	\$59.44	\$250.00
Hydroseeder with Tractor	28.00	\$45.21	\$122.78	1	\$167.99	\$122.78	\$250.00
Cat 740	36.49	\$108.25	\$122.78	1	\$231.03	\$122.78	\$250.00
				Subtotalar	¢1 022 59	¢964.14	¢1 750 00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$13.77	2	\$27.54	\$27.54
Water Tanker, 5,000 Gal.	\$101.92	1	\$101.92	\$101.92
		Subtotals:	\$129.46	\$129.46

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	COLORADO SPRINGS	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$28,101.82	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$64.73	_

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.25	0.25
Return Time (Hours):	0.25	0.25
Loading Time (Hours):	3.00	NA
Unloading Time (Hours):	3.00	NA
Subtotals:	6.50	0.50

JOB TIME AND COST

Total job time: **13.00** Hours

Total job cost: \$28,167

MOTOR GRADER WORK

Task description:	Obliterate 5,000 ft of road			
: Pikeview Quarry	Permit Action:	SR4	Permit/Job	#: <u>M1977211</u>
PROJECT IDENTIFI	CATION			
Task #: 4RD1 Date: 11/25/2024 User: HR1	State: Colorado County: El Paso)	Abbreviation: Filename:	None 4RD1
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	<u>NT COST</u>			
Basic Machine:	: CAT 12M		Horsepower:	158
Ripper Attachment:	: Multi-Shank Ripper		Shift Basis: 1	per day
			Data Source:	(CRG)
Cost Breakdown:		1		
0		\$ c 1 c	Utilization %	
Owner	cship Cost/Hour:	\$69.16	<u>NA</u>	
Rinner Owner	anng Cost/Hour:	\$3.06	NA	
Ripper Owner	ating Cost/Hour:	\$2.73	100	
Ope	rator Cost/Hour:	\$57.29	NA	
Total	Unit Cost/Hour:	\$186.98		
MATERIAL QUANT	ITIES	00.20		
Total Area t	to be graded or ripped: <u>4.00</u>			acres
Source	e of estimated acreage: $-5,00$	00 ft of 35-ft wide	road	
HOURLY PRODUCT	<u>'ION</u>			
	Average Grader Speed:	1.75	mph	
	Selected Application:	Ditch buildi	ng/cleaning (0-3 mph) - 1	.75
	Selected Blade Angle:	30	degrees	
Width	Effective Blade Length.	173 473		
vv iciti c	st blada avarlar nar naga	10.40	feet	
Net grading o	of blade overlap per pass:	2.00	feet	
Net grading o Unadjusted	of blade overlap per pass: or ripping width per pass: Hourly Unit Production:	2.00 8.40 1.7818	feet feet feet acres/hour	
Net grading o Unadjusted Job Condition Correction	of blade overlap per pass:	2.00 8.40 1.7818 Sit	feet feet feet acres/hour e Altitude: <u>7200</u> feet	
Net grading o Unadjusted Job Condition Correction	of blade overlap per pass: or ripping width per pass: Hourly Unit Production: Factors	10.40 2.00 8.40 1.7818 Sit	feet feet feet acres/hour e Altitude: <u>7200</u> feet	
Net grading c Unadjusted Job Condition Correction Altitude Adj:	of blade overlap per pass:	10.40 2.00 8.40 1.7818 Sit	feet feet feet acres/hour e Altitude: <u>7200</u> feet	
Altitude Adj: Job Efficiency:	f blade overlap per pass:	10.40 2.00 8.40 1.7818 Sit Sit Sit	feet feet feet acres/hour e Altitude: <u>7200</u> feet	
Net grading c Unadjusted Job Condition Correction Altitude Adj: Job Efficiency: Net Correction:	f blade overlap per pass:	10.40 2.00 8.40 1.7818 Sit re HB) nod.) er	feet feet feet acres/hour e Altitude: <u>7200</u> feet	
Net grading c Net grading c Unadjusted Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Add	f blade overlap per pass: for ripping width per pass: Hourly Unit Production: <u>Factors</u> <u>Sourc</u> <u>1.00 (CAT H</u> <u>0.85 (1sh/d, m</u> <u>0.8500</u> multiplic djusted Hourly Unit Production ljusted Hourly Fleet Production	10.40 2.00 8.40 1.7818 Sit se HB) nod.) er 1.5145 x: 1.5145	feet feet acres/hour e Altitude: <u>7200</u> feet acres/Hour acres/Hour	
Net grading c Unadjusted Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Add JOB TIME AND COS	f blade overlap per pass: for ripping width per pass: Hourly Unit Production: <u>Factors</u> <u>Source</u> <u>1.00 (CAT F</u> <u>0.85 (1sh/d, m</u> <u>0.8500 multiplie</u> djusted Hourly Unit Production ljusted Hourly Fleet Production	10.40 2.00 8.40 1.7818 Sit is 1.5145 1.5145 i: 1.5145	feet feet acres/hour e Altitude: <u>7200</u> feet acres/Hour acres/Hour	
Net grading c Net grading c Unadjusted Job Condition Correction Altitude Adj: Job Efficiency: Net Correction: Add JOB TIME AND COS Fleet size: 1	f blade overlap per pass: for ripping width per pass: Hourly Unit Production: Factors <u>Factors</u> <u>Source</u> <u>Source</u> <u>1.00 (CAT Here</u> <u>0.8500 multiplied</u> djusted Hourly Unit Production djusted Hourly Fleet Production <u>ST</u> <u>Grader(s)</u>	10.40 2.00 8.40 1.7818 Sit sit ISIN ind.) er ISIN it: 1.5145 Total job time:	feet feet acres/hour e Altitude: <u>7200</u> feet acres/Hour acres/Hour <u>2.64</u>	Hours

TRUCK/LOADER TEAM WORK

Sito: Dikoviow Augur		Dormit A ati	on: SD4	P - HP (1111111)	Dormit/Ich#.	M1077211
Sile: _ Fikeview Quari	y	Permit Action	011: <u>5K4</u>			M1977211
PROJECT IDEN	NTIFICATION	<u>[</u>				
Task #: 4RD2	2	State: Colora	ado	Ab	breviation: <u>N</u>	None
Date: 10/24	4/2024	County: El Pas	50		Filename: 4	IRD2
User: HR1						
Agency o	r organization nar	ne: DRMS				
HOURLY EQU	IPMENT COST	<u>r</u>		Shift bas	sis: <u>1 per day</u>	
,	Truck Loader Tea	m - Truck: Cat	Equipment Descri	ption		
	THUCK LOADET TEA	-Loader: CA	T 980H			
Supp	port Equipment -I	Load Area: NA				
	-Di	ump Area: NA	T 1014			
Road N	laintenance –Mot	or Grader: CA	<u>1 12101</u> ter Tanker, 5.000 (Gal		
Cost Breakdown:	Truck/Loa	ader Team	Support I	Equipment	Mainten	ance Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grade	r Water Truck
%Utilization-machine:	100	100	NA	NA	10	0 25
Ownership cost/hour:	\$108.25	\$69.00	NA	NA	\$69.1	6 \$51.70
Operating cost/hour:	\$79.54	\$60.57	NA	NA	\$54.7	4 \$12.56
%Utilization-riper:	NA	0	NA	NA	NA	A NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.0	0 \$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.0	0 \$0.00
Operator cost/hour:	\$24.82	\$56.84	NA	NA	\$56.7	0 \$0.00
Unit Subtotals:	\$212.61	\$186.41	NA	NA	\$180.6	0 \$64.26
Number of Units:	3	1	0	0		
Group Subtotals:	Work:	\$824.24	Support:	\$0.00	Maint	t: \$244.86
Total work team co	ost/hour: <u>\$1,069.</u>	10				
<u>MATERIAL QU</u>	JANTITIES					
Initial volume	: 300	CCY	Swell	factor: <u>1.000</u>		
Loose volume	e: <u>300</u>	LCY				
So	ource of estimated	l volume: 2500	Т @ \$15- р L-2; I	Haul distance Wk	sht#3, 15% mai	nt.
Source	e of estimated swe	ell factor: Cat I	Handbook			
	Material Purch	ase Cost: $\frac{$18.}{56}$	/5 25.00			,
		− 45,0 2	25.00			
HOURLY PRO	DUCTION					
Truck Consoiter	<u>_</u>					
Truck Capacity: Truck Pavload (we	ight) Basis:					
Material	weight: <u>2,55</u> 0		Pounds/LCY			
Desc	ription: Gravel	- Dry				
Rated P	ayload: <u>87,000</u>	1	Pounds			
Payload Ca	apacity: <u>34.12</u>		LCY			

a						
Struck Volume:	24.20	LCY				
Heaped Volume:	31.40	LCY				
Average Volume:	27.80	LCY				
Adjusted Volume:	31.40	LCY				
Fina	ıl Truck Volum	ne Based on Number	of Loader Passes:	26.25	LCY	
Loading Tool Capacity			_			
			Bucl	ket Size Class: <u>N</u>	A	
Rated Capacity:	7.500	LCY (heaped	1)			_
Bucket Fill Factor:	0.875	Loose materi	al - $1/2$ " to $3/4$ " (85	- 90%) 0.875		_
Adjusted Capacity:	6.563	LCY				
Job Condition Correction	<u>s:</u>		Site Altitude (ft.): 7	7200 feet		
	Truck	Loader	Source			
Altitude Adj:	0.960	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.797	0.830				
Loading Tool Cycle Time	: Numb	er of Loading Tool	Passes Required to	Fill Truck:	4	passes
Excavators and Front Shov	<u>els:</u>					
Excavators and Front Shov	<u>els:</u> va Joh Conditi	on Doting NA				
Excavators and Front Shov Machine Cycle Time Selected Value	<u>els:</u> vs. Job Conditi within this Bas	on Rating: <u>NA</u> sic Rating: <u>NA</u>				
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders -	<u>els:</u> vs. Job Conditi within this Bas - Material Desc	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription:				
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.	<u>els:</u> vs. Job Conditi within this Ba - Material Desc):	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription:				
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA	<u>els:</u> vs. Job Conditi within this Ba - Material Desc):	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: NA		 Dump: 0.100)	
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA	els: vs. Job Conditi within this Ba – Material Desc): —	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u>		 Dump:0.100)	
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: <u>NA</u> Wheel and Track Loaders	els: vs. Job Conditi within this Ba: – Material Desc): –– - Unadjusted E	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle ⁷	Time (load, dump, r	 Dump:0.100 naneuver):0) . <u>550</u> min	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	els: vs. Job Conditi within this Ba: – Material Desc): — - Unadjusted E	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle 7	Time (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)) . <u>550</u> min Source	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material:	els: vs. Job Conditi within this Ba: – Material Desc): – - Unadjusted E Bank or bro	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle ⁷ oken material 0.04	Time (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.040) .550 min Source (Cat HB)	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	els: vs. Job Conditi within this Ba: - Material Desc): - Unadjusted E Bank or bro No adjustme	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle 7 sken material 0.04 ent - factor not appli	Time (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.040 0.000) .550 min Source (Cat HB) (Cat HB)	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: Truck Ownership:	els: vs. Job Conditi within this Ba: - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle ⁷ sken material 0.04 <u>ent - factor not appli</u> wnership of trucks a	Time (load, dump, r icable 0.00 nd loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040) .550 min Source (Cat HB) (Cat HB) (Cat HB)	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: vs. Job Conditi within this Ba: - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov Constant op	tion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle ⁷ oken material 0.04 ent - factor not appli wnership of trucks a peration -0.04	Time (load, dump, r icable 0.00 nd loaders -0.04	Dump: 0.100 naneuver): 0 Factor (min.) 0.040 0.000 -0.040 -0.040) .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	els: vs. Job Conditi within this Ba: - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle ⁷ sken material 0.04 ent - factor not appli wnership of trucks a peration -0.04 rget 0.00	Time (load, dump, r icable 0.00 nd loaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040 -0.040 0.000) .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	els: vs. Job Conditi within this Ba – Material Desc): – Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a peration -0.04 rget 0.00 Net Cycle 7	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040) .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	els: vs. Job Conditi within this Ba – Material Desc): – Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a peration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040 0.000 -0.040 0.510) .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> <u>Operation:</u> Dump Target:	els: vs. Job Conditi within this Ba - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar	tion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a peration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo Net Load	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment: ader Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.510 1.630) .550 min Source (Cat HB) (Cat	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	els: vs. Job Conditi within this Ba – Material Desc): – Unadjusted F – Bank or bro No adjustme Common ov Constant op Nominal tar	ion Rating: NA sic Rating: NA cription: Maneuver: NA Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a beration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo Net Load	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment: ader Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.040 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.000 1.630) .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim	els: vs. Job Conditi within this Ba – Material Desc): – Unadjusted F Bank or bro No adjustme Common ov Constant op Nominal tar	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a beration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo Net Load	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment: ader Cycle Time: I Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040 0.510 1.630 for site altitude:) .550 min Source (Cat HB) (Cat	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim	els: vs. Job Conditi within this Ba - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar e: 0.60 e: 1.630	ion Rating: NA sic Rating: NA cription: Maneuver: NA Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a beration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo Net Load Minutes Minutes	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment: ader Cycle Time: I Time per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.510 1.630 for site altitude: for site altitude:) .550 min Source (Cat HB) (Cat	utes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim X Maneuver and Dump Tim	els: vs. Job Conditi within this Ba – Material Desc): – Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar e: 0.60 e: 1.630 e: 1.00	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a peration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo Net Load Minutes <u>Minutes</u> Minutes	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment: ader Cycle Time: I Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.510 1.630 for site altitude: for site altitude: for site altitude:) .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.625 1.630 1.042	utes — — — — — Minutes — Minutes
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim K Maneuver and Dump Tim	els: vs. Job Conditi within this Ba – Material Desc): – Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar e: 0.60 e: 1.630	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a peration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo Net Load Minutes <u></u> Minutes Minutes	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment: ader Cycle Time: I Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.040 0.000 -0.040 0.000 -0.040 0.510 1.630 1.630 for site altitude: for site altitude: for site altitude:) .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.625 1.630 1.042	utes — — — — — — — — — — — — —
Excavators and Front Shov Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min. Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim & Maneuver and Dump Tim	els: vs. Job Conditi within this Ba – Material Desc): – Unadjusted F Bank or bro No adjustme Common ov Constant op Nominal tar e: 0.60 e: 1.630 e: 1.00	ion Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle 7 oken material 0.04 ent - factor not appli wnership of trucks a peration -0.04 rget 0.00 Net Cycle 7 Adjusted Lo Net Load Minutes Minutes Minutes Minutes	Time (load, dump, r icable 0.00 nd loaders -0.04 Fime Adjustment: ader Cycle Time: I Time per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.040 0.040 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.510 1.630 1.630 for site altitude:) .550 min Source (Cat HB) (Cat	utes — — — — — — — — — — — — —

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2000	.00	12.00	3.00	15.00	634	3.226	
	Return Ro	oute:				Haul Time:	3.226	minute	S
	Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	7
	U	(Ft)			(%)	(%)	(fpm)	Time (min)	
	1	2000	.00	-12.00	3.00	-9.00	3706	0.580	
					Total True	Return Time: ck Cycle Time:	0.580 7.103	minu minu	tes
Lo Truck	oading Too Produ Unit Produ	l unit oction	698.45	LCY/Hour		Adjusted for j	ob efficiency:	579.71	LCY/Hour
			221.75	LCY/Hour		Adjusted for j	ob efficiency:	184.05	LCY/Hour
Optima	l No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	3	Truck(s)
				Adjuste	d hourly truck	k team production	on: 552	.15 LC	Y/Hour
				Adjusted sing	le truck/loade	r team production	on: 552	<u>.15</u> LC	Y/Hour
				Adjusted multip	le truck/loade	r team productio	on: 552	<u>.15</u> LC	Y/Hour
	JOB TIN	ME A	ND COST						
	Fleet	size:	1	Team(s)	Т	Total job time:	0.54	H H	Iours
	Unit o	cost:	\$1.936	/LCY]	Fotal job cost:	\$6,20	6	

Task descrip	otion:	Private area to be planted w/	shrubs		
Site: Pikeview	Quarry	Permit Action:	SR4	Permit/Job	#: <u>M1977211</u>
PROJECT	IDENTIFIC	ATION			
Task #: Date: User:	4SP0 10/10/2024 HR1	State:ColoradoCounty:El Paso		Abbreviation: Filename:	None M211-4SP0
Age	ency or organiz	zation name: DRMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre

\$0.00

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
Mahogany, Mountain	168	Tubling, 3 cu. in. container (MEANS)	\$1.28	\$0.00	\$215.04
Oak, Gambel's	168	Tubling, 3 cu. in. container (MEANS)	\$1.28	\$0.00	\$215.04
Rose, Wood's	200	Tubling, 3 cu. in. container (MEANS)	\$1.28	\$0.00	\$256.00
Totals Nurserv Stock Cost / Acre				\$686.08	

No. of Acres:	69.4	Cost /Acre:	\$686.08
Estimated Failure Rate:	30%	Cost /Acre*:	\$686.08
*Selected Replanting Work Items:	NURSERY		
Initial Job Cost: \$47.613.95			

minua 300 Cost.	ψ=1,013.25
Reseeding Job Cost:	\$14,284.19
Total Job Cost:	\$61,898
Job Hours:	40.00

Task descri	ption:	USFS area to be planted w/ trees & watered s	ep.
Site: Pikeview	Quarry	Permit Action: SR4	Permit/Job#: M1977211
PROJECT	IDENTIFIC	ATION	
Task #:	4TF0	State: Colorado	Abbreviation: None
Date:	10/10/2024	County: El Paso	Filename: M211-4TF0
User:	HR1		

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Motorials	
			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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre

\$0.00

MULCHING and MISCELLANEOUS

Materials

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

Application

Description		Cost /Acre
		\$
7	Fotal Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Fir, Douglas	22	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.74	\$0.00	\$60.28
Pine, Lodgepole	21	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.74	\$0.00	\$57.54
Totals Nursery Stock Cost / Acre \$117.82					

No. of Acres:	32.18	Cost /Acre:	\$117.82
Estimated Failure Rate:	45%	Cost /Acre*:	\$117.82
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$3,791.45
Reseeding Job Cost:	\$1,706.15
Total Job Cost:	\$5,498
Job Hours:	20.00

Task desc	iption:	Private area to be planted w/ trees watered sep		
Site: Pikevie	w Quarry	Permit Action: SR4	Permit/Jo	b#: <u>M1977211</u>
PROJEC	IDENTIFIC	ATION		
Task #: Date: User:	4TP0 10/10/2024 HR1	State: Colorado County: El Paso	Abbreviation: Filename:	None M211-4TP0
User	HR1 gency or organiz	zation name:DRMS	T nename.	

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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre

\$0.00

MULCHING and MISCELLANEOUS

Materials

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

Application

Description		Cost /Acre
		\$
7	Fotal Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Juniper, Rocky	30	Bare root seedling, 11-16 inch ht.	\$2.74	\$0.00	\$82.20
Mountain		(MEANS)			
Pine, Pinyon	30	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.74	\$0.00	\$82.20
		Totals 2	Nursery Stoc	k Cost / Acre	\$164.40

No. of Acres:	37.52	Cost /Acre:	\$164.40
Estimated Failure Rate:	45%	Cost /Acre*:	\$164.40
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$6,168.29
Reseeding Job Cost:	\$2,775.73
Total Job Cost:	\$8,944
Job Hours:	25.00

TRUCK/LOADER TEAM WORK

Task desci	ription:	Place to	psoil in USF	S ar	ea from various s	stockpiles			
Site: Pikevie	Site: Pikeview Quarry Permit Action: SR						Permit/Job#: _	M1977211	
PROJEC	CT IDENT	TIFICATION							
Task #:	4TS1		State: C	Colora	do	Ab	breviation:	None	
Date:	10/10/2	2024	County: E	El Pas	0		Filename:	M211-4TS1	
User:	HR1								
A	Agency or o	organization nan	ne: DRM	S					
HOURL	Y EOUIP	MENT COST	r			Shift bas	is: 1 per day		
			-	I	Fauinment Descri	ntion	<u> </u>		
	Tr	uck Loader Tea	m -Truck:	Cat	740	ption			
			-Loader:	CA	Г 980Н				
	Suppor	rt Equipment -L	load Area:	NA Cat	DOT OSU				
	Road Mai	intenance – Mot	or Grader:		Г 12М				
		-Wa	ter Truck:	Wat	er Tanker, 5,000	Gal.			
		-			~ -			- ·	
<u>Cost Brea</u>	<u>ikdown</u> :	Truck/Loa	der Team		Support I	Equipment	Mainter Motor Grade	nance Equipme	nt Ick
		TTUCK	Loader		Load Alea	Dump Area	Willow Orade		
%Utilization-ma	achine:	100		100	NA	100	2	5	25
Ownership cos	st/hour:	\$108.25	\$69	0.00	NA	\$253.16	\$69.1	6 \$5	1.70
Operating cos	st/hour:	\$79.54	\$60	0.57	NA	\$164.35	\$13.6	9 \$1 ^	$\frac{2.56}{N}$
% Utilization	n-riper:	NA NA	\$0	0	NA NA	\$0.00	\$0.0		$\frac{NA}{0.00}$
Ripper on cos	st/hour:	NA	\$0 \$0	0.00	NA	\$0.00	\$0.0	0 \$	0.00
Operator cos	st/hour:	\$24.82	\$56	5.84	NA	\$40.04	\$56.7	0 \$	$\frac{0.00}{0.00}$
Unit Sul	btotals:	\$212.61	\$186	5.41	NA	\$457.55	\$139.5	4 \$6	4.26
Number of	f Units:	2		1	0	1		1	1
Group Sul	btotals:	Work:	\$611.63		Support:	\$457.55	Main	t: \$203.80	
Total work	k team cost	/hour: <u>\$1,272.</u>	98						
MATER	IAL QUA	NTITIES							
Initis	al volume.	7 500		CCY	Swell	factor: 1,000			
Loos	e volume:	7,500)	LCY	Swein	1.000			
	Sou	rce of estimated	volume	6 in c	ver 1931 Ac. Ha	ul distance from (Google Earth		
	Source of	of estimated swe	ell factor:	Cat H	Iandbook		Soogle Luiti		
		Material Purch	ase Cost:	\$0.00					
		Тс	otal Cost:	\$0.00					
HOURL	LY PROI	DUCTION							
Truck Co	nacity								
Truck Pay	load (weigl	nt) Basis:							
1	Material we	eight: 1,600			Pounds/LCY				
	Descrip Rated Per	tion: Top So	il		Dounde				
Ря	vload Can	$\frac{87,000}{54.38}$			LCY				
10		<u> </u>							

Stander Valence						
Struck volume:	24.20	LCY				
Heaped Volume:	31.40	LCY				
Average Volume:	27.80	LCY				
Adjusted Volume: _	31.40	LCY				
Fina	l Truck Volum	e Based on Numbe	er of Loader Passes:	24.75	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: <u>N</u>	JA	
Rated Capacity:	7.500	LCY (heape	ed)			
Bucket Fill Factor:	1.100	Other - rock	/dirt mixtures (100	0-120%) 1.100		_
Adjusted Capacity:	8.250	LCY				
Job Condition Correction	s:		Site Altitude (ft.):	7200 feet		
	Truck	Loader	Source	<u></u>		
Altitude Adi:	0.960	1.000	(CAT H	3)		
Job Efficiency:	0.830	0.830	(CAT HI	B)		
No. Competing	0.707	0.920				
Net Correction:	0.797	0.830				
Loading Tool Cycle Time	: Numb	er of Loading Tool	Passes Required to	Fill Truck	3	nasses
	<u> </u>	er of zonung 100				Pubbeb
Excavators and Front Snov	eis:					
Machine Cycle Time	vs. Job Conditi	on Rating: <u>NA</u>				
Machine Cycle Time Selected Value	vs. Job Conditi within this Bas	on Rating: <u>NA</u> sic Rating: <u>NA</u>				
Machine Cycle Time Selected Value Track Loaders -	vs. Job Conditi within this Bas - Material Desc	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription:				
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.)	vs. Job Conditi within this Ba - Material Desc):	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription:				
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA	vs. Job Conditi within this Bas - Material Desc):	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: NA		 Dump: 0.10	0	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u>	vs. Job Conditi within this Bas - Material Desc):]	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u>		 Dump:0.10	0	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Conditi within this Bas - Material Desc): 	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle	Time (load, dump,	 Dump:0.10 maneuver):(0 0.550 min	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors	vs. Job Conditi within this Bas - Material Desc): 	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle	Time (load, dump,	Dump: 0.10 maneuver):(Factor (min.)	0 0.550 min Source	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	vs. Job Conditi within this Bas - Material Desc): - Unadjusted E Bank or bro	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle <u>ken material 0.04</u>	Time (load, dump,	Dump: 0.10 maneuver): (Factor (min.) 0.040	0).550 min Source (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile:	vs. Job Conditi within this Bas - Material Desc): - Unadjusted E Bank or bro	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle ken material 0.04 ent - factor not app	Time (load, dump,	Dump: 0.10 maneuver): (Factor (min.) 0.040 0.000	0 0.550 min Source (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Conditi within this Ba: - Material Desc): - Unadjusted E Bank or bro No adjustme	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle ken material 0.04 ent - factor not app wnership of trucks	Time (load, dump, licable 0.00 and loaders -0.04	Dump: 0.10 maneuver): (Factor (min.) 0.040 0.000 -0.040	0 .550 min Source (Cat HB) (Cat HB) (Cat HB)	utes
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Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditi within this Ba - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle <u>ken material 0.04</u> ent - factor not app wnership of trucks a eration -0.04 get 0.00 Net Cycle Adjusted Lu	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time:	Dump: 0.10 maneuver): (Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040 0.510 1.120	0 .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: <u>Truck Ownership:</u> Operation: Dump Target:	vs. Job Conditi within this Bas - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle ken material 0.04 ent - factor not app wnership of trucks i eration -0.04 ·get 0.00 Net Cycle Adjusted Lo Net Loa	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time: d Time per Truck:	Dump: 0.10 maneuver): (Factor (min.) 0.040 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.510 1.120	0 .550 min Source (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Conditi within this Ba - Material Desc): - Unadjusted E Bank or bro No adjustme Common ov Constant op Nominal tar	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle <u>ken material 0.04</u> <u>ent - factor not app</u> wnership of trucks is peration -0.04 <u>get 0.00</u> Net Cycle Adjusted Loa	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time: d Time per Truck:	Dump: 0.10 maneuver): (Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040 0.510 1.120	0 .550 min Source (Cat HB) (Cat HB) (Ca	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim	e: 0.60	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle <u>ken material 0.04</u> ent - factor not app wnership of trucks a eration -0.04 get 0.00 Net Cycle Adjusted Loa Net Loa	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time: d Time per Truck: Adjusted	Dump: 0.10 maneuver):(Factor (min.) 0.040 0.000 -0.040 0.000 -0.040 0.000 -0.040 0.510 1.120	0 0.550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.625	utes — — — — — — — — — — — — — — — — — — —
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Tim Truck Load Tim	e: 0.60 e: 0.60	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle ken material 0.04 ent - factor not app wnership of trucks a peration -0.04 get 0.00 Net Cycle Adjusted La Net Loa Minutes Minutes	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time: d Time per Truck: Adjustec Adjustec	Dump: 0.10 maneuver): (Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040 0.510 1.120	0 0.550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.625 1.120	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim Sk Maneuver and Dump Tim	e: 0.60 e: 1.120 e: 1.00 constant op e: 0.60 e: 1.00	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u>NA</u> Maneuver: <u>NA</u> Basic Loader Cycle <u>ken material 0.04</u> ent - factor not app wnership of trucks a eration -0.04 get 0.00 Net Cycle Adjusted Lo Net Loa <u>Minutes</u> Minutes Minutes	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time: d Time per Truck: Adjustec Adjustec Adjustec	Dump: 0.10 maneuver):	0 .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.625 1.120 1.042	utes — — — — — — — — — — — — —
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim ck Maneuver and Dump Tim	e: 0.60 e: 1.120 e: 1.00	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: Maneuver: <u>NA</u> Basic Loader Cycle <u>ken material 0.04</u> ent - factor not app wnership of trucks a eration -0.04 get 0.00 Net Cycle Adjusted Lo Net Loa Minutes <u>Minutes</u> Minutes	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time: d Time per Truck: Adjustec Adjustec Adjustec	Dump: 0.10 maneuver): () Factor (min.) 0.040 0.040 0.000 -0.040 0.040 0.000 -0.040 0.0100 -0.040 0.0100 -0.040 1.120 1.120 I for site altitude: 1 I for site altitude: - I for site altitude: -	0 .550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.625 1.120 1.042	utes — — — — — Minutes — — — Minutes —
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim ck Maneuver and Dump Tim	e: 0.60 e: 1.120 e: 1.00	on Rating: <u>NA</u> sic Rating: <u>NA</u> cription: <u></u> Maneuver: <u>NA</u> Basic Loader Cycle <u>ken material 0.04</u> ent - factor not app wnership of trucks a eration -0.04 get 0.00 Net Cycle Adjusted Lo Net Loa Minutes <u></u> Minutes	Time (load, dump, licable 0.00 and loaders -0.04 Time Adjustment: oader Cycle Time: d Time per Truck: Adjustec Adjustec	Dump: 0.10 maneuver): (Factor (min.) 0.040 0.000 -0.040 -0.040 0.000 -0.040 0.510 1.120	0 0.550 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.625 1.120 1.042	utes — — — — — — — — — — — — —

Hau	l Route:								1
Seg	#]	Haul l (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1		1200.	00	5.00	3.00	8.00	1123	1.190	
Retu	irn Rout	te				Haul Time:	1.190	minutes	
Seg	#	Haul l	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	((Ft)			(%)	(%)	(fpm)	Time (min)	
1		1200.	00	-5.00	3.00	-2.00	3706	0.377	
					Total Tru	Return Time: ck Cycle Time:	0.377 4.354	minut minut	es es
Loadin Truck Unit	g Tool ı Product Product	unit tion _ tion	851.00	LCY/Hour		Adjusted for j	ob efficiency:	706.33	LCY/Hour
		-	341.09	LCY/Hour		Adjusted for j	ob efficiency:	283.11	LCY/Hour
Optimal No.	of Truc	cks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				Adjuste	d hourly truc	k team production	on: 566	.21 LC	Y/Hour
				Adjusted sing	le truck/loade	er team production	on: <u>566</u>	<u>.21</u> LC	Y/Hour
				Adjusted multip	le truck/loade	er team production	on: 566.	.21 LC	Y/Hour
<u>JOI</u>	B TIM	E AN	D COST						
]	Fleet siz	ze:	1	Team(s)	[Fotal job time:	13.2	5 Н	ours
	Unit co	st: _	\$2.248	/LCY	,	Total job cost:	\$16,80	62	

TRUCK/LOADER TEAM WORK

Site: Pikeview Quarry Permit Action: SR4 Permit/Job#: M1977211 PROJECT IDENTIFICATION State: Colorado Abbreviation: None Task #: 4TS2 State: Colorado Abbreviation: None Date: 11/25/2024 County: El Paso Filename: 4TS2 User: HR1 Agency or organization name: DRMS DRMS HOURLY EQUIPMENT COST Shift basis: 1 per day
PROJECT IDENTIFICATION Task #: 4TS2 State: Colorado Abbreviation: None Date: 11/25/2024 County: El Paso Filename: 4TS2 User: HR1 Agency or organization name: DRMS MOURLY EQUIPMENT COST Shift basis: 1 per day
Task #: 4TS2 State: Colorado Abbreviation: None Date: 11/25/2024 County: El Paso Filename: 4TS2 User: HR1 Agency or organization name: DRMS DRMS HOURLY EQUIPMENT COST Shift basis: 1 per day
Index in
User: HR1 Agency or organization name: DRMS HOURLY EQUIPMENT COST Shift basis: 1 per day
Agency or organization name: DRMS HOURLY EQUIPMENT COST Shift basis: 1 per day
HOURLY EQUIPMENT COST Shift basis: <u>1 per day</u>
HOURLY EQUIPMENT COST Shift basis: <u>1 per day</u>
Equipment Description
Truck Loader Team -Truck: Cat 740
Support Equipment -Load Area: NA
-Dump Area: Cat D9T - 9SU
Road Maintenance – Motor Grader: CAT 12M
-Water Truck: Water Tanker, 5,000 Gal.
Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment
Truck Loader Load Area Dump Area Motor Grader Water Truck
%Utilization-machine: 100 100 NA 100 25 25
Ownership cost/hour: \$108.25 \$69.00 NA \$253.16 \$69.16 \$51.70
Operating cost/hour: \$79.54 \$60.57 NA \$164.35 \$13.69 \$12.56
%Utilization-riper: NA 0 NA NA NA NA
Ripper own. cost/hour: NA \$0.00 NA \$0.00
Ripper op. cost/hour: NA \$0.00 NA \$0.00 \$0.00 \$0.00
Operator cost/hour: \$24.82 \$56.84 NA \$40.04 \$56.70 \$0.00
Unit Subtotals: \$212.61 \$186.41 NA \$457.55 \$139.54 \$64.26
Number of Units: 4 1 0 1 1 1
Group Subtotals: Work: \$1,036.85 Support: \$457.55 Maint: \$203.80
Total work team cost/hour: <u>\$1,698.20</u>
MATERIAL QUANTITIES
Initial volume: 12,000 CCY Swell factor: 1.000
Loose volume: $12,000$ LCY
Source of estimated volume: <u>6 in over 118 Ac; Haul distance from Google Earth, maint. %</u>
Source of estimated swell factor: Cat Handbook
Total Cost: \$0.00
HOURLY PRODUCTION
Truck Capacity:
Truck Payload (weight) Basis:
Material weight: 1,600 Pounds/LCY
Rated Payload: 87,000 Pounds
Payload Capacity: 54.38 LCY

Struck Volume:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CY CY CY Based on Number of	Loader Passes:	24.75	LCY	
Heaped Volume:	$\frac{31.40}{27.80} L$ $\frac{31.40}{31.40} L$ ruck Volume B $\frac{7.500}{1.100}$	CY CY CY ased on Number of	Loader Passes:	24.75	_ LCY	
Average Volume: Adjusted Volume: Final Tr Loading Tool Capacity Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	$\frac{27.80}{31.40} L$ ruck Volume B $\frac{7.500}{1.100}$	CY CY ased on Number of	Loader Passes:	24.75	LCY	
Adjusted Volume: Final Tr Loading Tool Capacity Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	<u>31.40</u> L ruck Volume B <u>7.500</u> <u>1.100</u>	CY ased on Number of	Loader Passes:	24.75	_ LCY	
Final Tr Loading Tool Capacity Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	ruck Volume B 7.500 1.100	ased on Number of	Loader Passes:	24.75	LCY	
Final Ti Loading Tool Capacity Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	7.500 1.100	ased on Number of	Loader Passes:	24.75	LCY	
Loading Tool Capacity Rated Capacity:	7.500 1.100	LCY (heaped)				
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	7.500 1.100 8.250	LCY (heaped)				
Rated Capacity:	7.500 1.100 8.250	LCY (heaped)	Buc	ket Size Class: <u>N</u>	A	_
Bucket Fill Factor: Adjusted Capacity:	1.100	Le I (neupeu)				_
Adjusted Capacity:	0 250	Other - rock/dir	t mixtures (100	0-120%) 1.100		_
	8.250	LCY				
Job Condition Corrections:		Si	te Altitude (ft.):	7200 feet		
j	Fruck	Loader	Source			
Altitude Adj:	0.960	1.000	(CAT HI	3)		
Job Efficiency:	0.830	0.830	(CAT HI	3)		
Net Correction:	0.797	0.830				
		0.020				
Loading Tool Cycle Time:	Number of	of Loading Tool Pa	sses Required to	Fill Truck:	<u> 3 </u>	oasses
Excavators and Front Shovels:						
Selected Value wit	thin this Basic	Rating: <u>NA</u> Rating: <u>NA</u>				
Track Loaders – M	aterial Descrip	tion:				
Cycle Time Elements (min.):	1					
Jande NA	Ма	NIA		D		
Load: NA	Ma	neuver: NA		Dump: 0.100		
Wheel and Track Loaders - U	nadjusted Basi	c Loader Cycle Tir	ne (load, dump, 1	maneuver): 0.	550 minu	ıtes
Cycle Time Factors	•	·		Factor (min.)	Source	
Material: I	Bank or broker	material 0.04		0.040	(Cat HB)	-
Stockpile: 1	No adjustment	- factor not applica	ble 0.00	0.000	(Cat HB)	-
Truck Ownership: (Common owne	rship of trucks and	loaders -0.04	-0.040	(Cat HB)	-
Operation: (Constant opera	tion -0.04		-0.040	(Cat HB)	-
Dump Target: 1	Nominal target	0.00		0.000	(Cat HB)	-
		Net Cycle Tin	e Adjustment:	-0.040	minutes	_
		Adjusted Load	er Cycle Time:	0.510	minutes	
		Net Load T	me per Truck:	1.120	minutes	
Truck Cycle Time:						
Truck Exchange Time	0.60	Minutes	Adjusted	for site altitude:	0.625	Minute
Truck Load Time	1.120	Minutes	Adjusted	for site altitude:	1.120	Minute
ck Maneuver and Dump Time	1.00	Minutes	Adjusted	l for site altitude:	1.042	Minute
	1.00		rajusted		1.012	-
Truck Travel (Haul & Return)	Time [.]	Road Condition	Firm smooth rol	lling dirt/lt surfaced	watered	
maintained 3.0		Roug Condition.	mii, siiootii, ioi	ing, and it. surfaced	<u>, materiou,</u>	

	Haul Rout	te:							
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	2000.	.00	10.00	3.00	13.00	708	2.888	
	Detum De					Haul Time:	2.888	minut	es
Г	See #	Jule:	Distance	$C_{\rm res} d_{\rm r} \left(0 \right)$	Dall Das	Total Dag	Valasita	Traval	
	Seg #	(Ft)	Distance	Grade (%)	(%)	(%)	(fpm)	Time (min)	
	1	2000	.00	-10.00	3.00	-7.00	3706	0.580	
					Total True	Return Time: ck Cycle Time:	0.580 6.255	min min	utes utes
Lo Truck	oading Too Produ Unit Produ	l unit oction oction	851.00	LCY/Hour		Adjusted for j	ob efficiency:	706.3	3 LCY/Hour
			237.42	LCY/Hour		Adjusted for j	ob efficiency:	197.0	5 LCY/Hour
Optima	l No. of Tr	ucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)
				Adjuste	d hourly true	k team production	on: 788	.24 L	CY/Hour
				Adjusted sing	le truck/loade	er team production	on: 706	.33 L	CY/Hour
				Adjusted multip	le truck/loade	er team production	on: 706	<u>.33</u> L	CY/Hour
	JOB TIN	AE AN	ND COST						
	Fleet	size:	1	Team(s)	7	Fotal job time:	16.9	9	Hours
	Unit o	cost:	\$2.404	/LCY	r	Total job cost:	\$28,8	51	

SITE MAINTENANCE

	acsemption.	water trees	on private land	1		
Site: Pi	ikeview Quarry		Permit Action:	SR4	Permit/.	Job#: <u>M1977211</u>
ROJECT	<u>IDENTIFICATI</u>	<u>ON</u>				
Task #: Date:	4TW2 10/10/2024	State: County:	Colorado El Paso		Abbreviation: Filename:	None M211-4TW2
User:	HR1					
	Agency or organi	zation name:	DRMS			

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Transport water to site	20.00	Water Tanker, 5,000	12.00	EA	\$130.15	\$1,561.80
		Gal.				
Small rig to transport	80.00	Light Duty Pickup, 4x4,	25.00	EA	\$42.00	\$1,050.00
water to seedlings		3/4 T.				

Job Hours: 100.00

Total Cost: \$2,611.80

SITE MAINTENANCE

r	Task description:	Water trees	on USFS land			
Site:	Pikeview Quarry		Permit Action:	SR4	Permit/.	Job#: <u>M1977211</u>
PROJE	<u>CT IDENTIFICATIO</u>	N				
Task #: Date: User:	4TW1 10/10/2024 HR1	State: County:	Colorado El Paso		Abbreviation: Filename:	None M211-4TW1
	Agency or organiza	tion name:	DRMS			
<u>UNIT CO</u>	<u>DSTS</u>					

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Transport water to site	20.00	Water Tanker, 5,000	10.00	EA	\$130.15	\$1,301.50
_		Gal.				
Small rig to transport	80.00	Light Duty Pickup, 4x4,	20.00	EA	\$42.00	\$840.00
water to seedlings		3/4 T.				

Job Hours: 100.00

Total Cost: \$2,141.50