

1313 Sherman Street, Room 215 Denver, CO 80203

October 23, 2020

RE: C Road Pit, Permit No. M-2016-050, TR-1 Reclamation Cost Estimate

Dear Mr. Doody:

This reclamation cost update was in response a Technical Revision (TR-1). There have been no surety increases since the permit issuance in 2016. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated in this calculation. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation permit.

Task	Form Used	Change	Justification
06a	Grader	-	Exhibit L states that pit floor will be approx. 37 acres, not the full 40 ac max disturbance
08a	Grader	-	Exhibit L states that pit floor will be approx. 37 acres, not the full 40 ac max disturbance
09a	Reveg	+	Exhibit L states that slopes are approx. 7 acres, not 5 acres as previously calculated
10 a/b	Mob	+	Added time for loading/unloading equipment, 0.5 hr standard Added secondary mob for reveg equipment
Indirect Costs			Only the 10% profit was calculated for indirect costs on previous calculations, this has been updated to reflect the standard indirect costs



Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

C Road	Pit	Permit Action:	TR-1	Permit/Jol	o#: <u>M2016050</u>
<u>'ROJECT</u>	<u>IDENTIFICA</u>	TION			
Task #:	ACY	State: Colorado		Abbreviation:	None
Date:	10/23/2020	County: Mesa		Filename:	M505-000
User [.]	ACY				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	Cost
	Description	Used	Size	Hours	
01a	Reduce highwall 3:1	DOZER	1	345.19	\$84,923
02a	Place topsoil above highwall slopes	SCRAPER1	1	4.18	\$3,869
03a	Push topsoil down regraded slopes	DOZER	1	3.45	\$849
04a	Remove and spread visual berm material	DOZER	1	61.37	\$15,097
05a	Place topsoil above highwall slopes	SCRAPER1	1	77.64	\$71,936
06a	Spread overburden on pit floor 18"	GRADER	1	26.91	\$3,206
07a	Spread topsoil on overburden	SCRAPER1	1	77.64	\$71,936
08a	Spread topsoil on pit floor	GRADER	1	26.91	\$3,206
09a	Reveg pit slopes (non-cropland)	REVEGE	1	16.00	\$3,637
10a	Initial Mobilization	MOBILIZE	1	3.00	\$4,615
10b	Secondary Mobilization	MOBILIZE	1	3.00	\$760
		<u>SUBTO</u>	TALS:	645.29	\$264,034

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$5,333
Performance bond:	1.05	Total =	\$2,772
Job superintendent:	322.65	Total =	\$22,440
Profit:	10.00	Total =	\$26,403
		TOTAL O & P =	\$56,949
		CONTRACT AMOUNT (direct + O & P) = $($	\$320,983
LEGAL - ENGINEERING - PRO	DJECT MANAC	BEMENT:	

TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$351,174	
	TOTAL IN	DIRECT COST =	\$87,140	
CONTINGENCY:	0.00	Total =	\$0	
Reclamation management and/or administration:	5.00		\$16,049	
Engineering work and/or contract/bid preparation:	4.25	Total =	\$13,642	
Financial warranty processing (legal/related costs):	\$500	Total =	\$500	

TOTAL BOND AMOUNT (Rounded) = \$351,000

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BULLDOZER WORK

	Reduce hig	nwan 5.1			
C Road Pit		Permit Action:	TR-1	Permit/Job#:	M2016050
PROJECT IDENT	IFICATION				
Task #: 01A	S	tate: Colorado		Abbreviation:	None
Date: 10/23/20		inty: Mesa		Filename:	M505-01a
User: ACY		·		-	
Agency or or	ganization name:	DRMS			
HOURLY EQUIPM	MENT COST				
	Cat D8T - 8SU				
	310				
• I	Semi-Universal				
	NA				
	l per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hou		\$116.22	NA		
Operating Cost/Hou		\$89.77	100		
Ripper own. Cost/Hou		\$0.00	NA		
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou	r:	\$40.04	NA		
Swell factor: 1	03,141				
	0 3,141 LCY				
Loose volume: 2					
Source of estimated vo			ion, Mining & Safety		
		ision of Reclamati Handbook	ion, Mining & Safety		
Source of estimated vo	vell factor: Cat		ion, Mining & Safety		
Source of estimated vo Source of estimated sv	vell factor: Cat	Handbook	ion, Mining & Safety		
Source of estimated vo Source of estimated sv HOURLY PRODU	vell factor: Cat <u>CTION</u> : 75 fee	Handbook	ion, Mining & Safety		
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance	vell factor: Cat CTION	Handbook			
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient	vell factor: Cat CTION	Handbook et .1 LCY/hr			
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency	vell factor: <u>Cat</u> <u>CTION</u> : <u>75 fee</u> duction: <u>1,017</u> description: <u>C</u>	Handbook et .1 LCY/hr			
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient	vell factor: Cat CTION	Handbook et .1 LCY/hr Compacted fill or e			
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude:	vell factor: Cat CTION	Handbook et .1 LCY/hr Compacted fill or e			
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct	vell factor: Cat <u>CTION</u> : 75 fee duction: 1,017 description: <u>C</u> : <u>-10 %</u> <u>4,700 feet</u> <u>2,400 lbs/LC</u> <u>Clay and gra</u> ion Factor	Handbook et .1 LCY/hr Compacted fill or e CY wel - Dry	mbankment 0.9		
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct Operat	vell factor: <u>Cat</u> <u>CTION</u> : <u>75 fee</u> duction: <u>1,017</u> description: <u>C</u> : <u>-10 %</u> <u>4,700 feet</u> <u>2,400 lbs/LC</u> <u>Clay and gra</u> ion Factor or Skill: <u></u>	Handbook et .1 LCY/hr Compacted fill or e 	mbankment 0.9 <u>Source</u> (AVG.)		
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct Operat Material cons	vell factor: Cat <u>CTION</u> : 75 fee duction: 1,017 description: <u>C</u> : <u>-10 %</u> <u>4,700 feet</u> <u>2,400 lbs/LC</u> <u>Clay and gra</u> ion Factor or Skill: <u></u>	Handbook et .1 LCY/hr Compacted fill or e			
Source of estimated vo Source of estimated sv HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct Operat Material cons Dozing	vell factor: Cat <u>CTION</u> : 75 fee duction: 1,017 description: <u>C</u> : <u>-10 %</u> <u>4,700 feet</u> <u>2,400 lbs/LC</u> <u>Clay and gra</u> ion Factor or Skill: <u></u>	Handbook et .1 LCY/hr Compacted fill or e 	mbankment 0.9 <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5786	
Adjusted unit production: 5	88.49 LCY/hr	
Adjusted fleet production: 5	88.49 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.418/LCY

Total job time:	345.19 Hours
Total job cost:	\$84,923

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SCRAPER TEAM WORK

Site: C Road Pit		Permit	Action:	TR-1	Perr	nit/Job#: M201	6050
PROJECT IDEN	FIFICATION						
Task #: 02A Date: 10/23/2			Colorado Mesa		Abbrev	viation: None ename: M050-	02.
User: ACY	2020 Cou	my: <u>1</u>	viesa			ename: <u>wooo-</u>	02a
Agency or o	organization name:	DRM	S				
HOURLY EQUIE	MENT			COSTS	hift basis: <u>1 per d</u>	ay	
			Equipme	ent Description			
	-Sc	craper:	Cat 627	'G w/push-pull			
		Dozer:		T - 8SU			
Suppo	rt Equipment -Load -Dump		NA NA				
Road Ma	intenance – Motor C		NA				
	-Water	Truck:	NA				
	Company West	I. T		Second and Earest		Maintananaa	Emin
Cost Breakdown:	Scraper Worl	<u>k Team</u> Doz	zer	Support Equi Load Area	Dump Area	Maintenance Motor Grader	Water
%Utilization-machine:	100		100	NA	NA	NA	
Ownership cost/hour:	\$130.45	\$	116.22	NA	NA	NA	
Operating cost/hour:	\$162.77		\$89.77	NA	NA	NA	
%Utilization-ripper:	NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		\$0.00	NA	NA	NA	
Ripper op. cost/hour:	NA		\$0.00	NA	NA	NA	
Operator cost/hour:	\$47.07		\$40.04	NA	NA	NA	
Unit Subtotals:	\$340.28	\$	246.02	NA	NA	NA	
Number of Units:	2		1	0	0	0	
Group Subtotals:	Work:	\$926	5.58	Support:	\$0.00	Maint:	\$0
Total work team cost	ANTITIES			<i></i>			
Initial volume: Loose volume:	2,666 3,239		CCY LCY	Swell fac	tor: <u>1.215</u>		
	rce of estimated vol	ume:		of Reclamation,	Mining & Safetv		
	of estimated swell fa		Cat Hand				
HOURLY PROD	UCTION						
				Scraper B	owl (volume) Basi	<u>s:</u>	
Material weight:	1,600 lbs/LCY				Volume: <u>15.70</u>		CY
Material description: Rated Payload:	Top Soil 52,800 pounds				Volume: 22.00 Volume: 18.85		CY CY

<u>0.90</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 4700 feet

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

Travel Time:

Road Condition: Packed snow 2.5

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	1.00	2.50	3.50	2665	0.50

Haul Time: **0.50** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	-1.00	2.50	1.50	2905	0.42
				Return Time:	0.42	minutes
			Total Scrape	r team cycle time:	2.42	minutes
			Adjusted	for job conditions:	775.81	LCY/Hour
			Selected Nu	mber of Scrapers:	2	Scraper(s)
	Adjusted	d single scrap	per team (unit) h	nourly production:	775.81	LCY/Hour
	Adjusted m	nultiple scrap	er team (fleet) h	nourly production:	775.81	LCY/Hour
Optima	Unadjusted unit proo al Number of Scrapers pe		-	LCY/Hour		

Fleet size:	1	Team(s)	Total job time:	4.18	Hours
Unit cost:	\$1.194	/LCY	Total job cost:	\$3,869	

BULLDOZER WORK

Task description:	Push topsoil	down regraded	slopes		
C Road Pit		Permit Action:	TR-1	Permit/Job#:	M2016050
PROJECT IDENTI	FICATION				
Task #: 03A	Stat	te: Colorado		Abbreviation:	None
Date: $10/23/202$		-		Filename:	M050-03a
User: ACY				<u>-</u>	
Agency or orga	anization name:	DRMS			
HOURLY EQUIPM	<u>ENT COST</u>				
	at D8T - 8SU				
Horsepower: 31					
	emi-Universal				
Attachment: NA					
	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$116.22	NA		
		\$89.77	100		
Operating Cost/Hour:		\$0.00	NA		
Ripper own. Cost/Hour:					
		\$0.00	0		
Ripper own. Cost/Hour:					
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour:		\$0.00	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$246.02 \$246.02	\$0.00	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>4,0</u> Swell factor: <u>1.0</u>	\$246.02 \$246.02 TITIES 63 00	\$0.00	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,0 Swell factor: Loose volume:	\$246.02 \$246.02 TITIES 63 00 63 LCY	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu	\$246.02 \$246.02 TITIES 63 00 63 LCY ume:Exhib	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 4,0 Swell factor: Loose volume:	\$246.02 \$246.02 TITIES 63 00 63 LCY ume:Exhib	\$0.00 \$40.04	0		
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Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated swe	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib 11 factor: Cat H CTION 75 feet	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib ell factor: Cat H CTION 275 feet 1,017.1	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib ell factor: Cat H CTION 275 feet 1,017.1	\$0.00 \$40.04	0 NA		
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Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib Cat H CTION 275 feet 1,017.1 escription: Loc -10 % 4,700 feet	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correctio	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib escription: Cat H 2710N action: 75 feet 1,017.1 escription: Loc -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor 1	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correctio Operator	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib cat H CTION 275 feet 1,017.1 escription: Loc -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor Skill:	\$0.00 \$40.04 	0 NA 		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correctio Operator Material consist	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib escription: Cat H 2TION auction: 75 feet 1,017.1 escription: Loc -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor r Skill: stency:	\$0.00 \$40.04 	0 NA 		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 4,0 Swell factor: 1.0 Loose volume: 4,0 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correctio Operator Material consis Dozing m	\$246.02 \$246.02 TITIES 63 00 63 LCY ume: Exhib escription: Cat H 2TION auction: 75 feet 1,017.1 escription: Loc -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor r Skill: stency:	\$0.00 \$40.04 	0 NA 		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	1.1580	
Adjusted unit production: 1,	177.80 LCY/hr	
Adjusted fleet production: 11	177.8 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.209/LCY

Total job time:	3.45 Hours
Total job cost:	\$849

BULLDOZER WORK

Task description:	Remove and	spicau visuai be	er mater lai		
C Road Pit	·	Permit Action:	TR-1	Permit/Job#:	M2016050
PROJECT IDENTIE	FICATION				
Task #: 04A	Stat	te: Colorado		Abbreviation:	None
Date: $10/23/2020$				Filename:	M050-04a
User: ACY				<u>-</u>	
Agency or orga	anization name:	DRMS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Ca	nt D8T - 8SU				
Horsepower: 31					
	mi-Universal		<u> </u>		
Attachment: NA					
	per day				
Data Source: (C	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$116.22	NA		
		\$89.77	100		
Operating Cost/Hour:			NT A		
Ripper own. Cost/Hour:		\$0.00	NA		
		\$0.00 \$0.00	0 NA		
Ripper own. Cost/Hour:	\$246.02 \$246.02				
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$246.02 FITIES	\$0.00	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume:60,2	\$246.02 <u>FITIES</u> 231	\$0.00	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>60,7</u> Swell factor: <u>1.00</u>	\$246.02 FITIES 231 00	\$0.00	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>60,7</u> Swell factor: <u>1.00</u>	\$246.02 <u>FITIES</u> 231	\$0.00	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>60,7</u> Swell factor: <u>1.00</u>	\$246.02 FITIES 231 00 231 LCY	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2	\$246.02 FITIES 231 00 231 LCY ume:Exhib	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated swe	\$246.02 FITIES 231 200 231 LCY ume: Exhib 11 factor: Cat H	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated swe HOURLY PRODUC	\$246.02 <u>FITIES</u> 231 231 231 LCY 100 231 LCY 100 Exhib 11 factor: Cat H TION	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 60,7 Swell factor: 1.00 Loose volume: 60,7 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	\$246.02 <u>FITIES</u> 231 231 231 LCY ume: Exhib 11 factor: Cat H <u>TION</u> 75 feet	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated swe HOURLY PRODUC	\$246.02 FITIES 231 200 231 LCY ume: Exhib Il factor: Cat H TION 75 feet	\$0.00 \$40.04	0		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 60,7 Swell factor: 1.00 Loose volume: 60,7 Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance:	\$246.02 FITIES 231 00 231 LCY ume: Exhib 11 factor: Cat H TION action: 75 feet 1,017.1	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated volu Source of estimated sweit HOURLY PRODUC Average push distance: Unadjusted hourly produ	\$246.02 FITIES 231 00 231 LCY ume: Exhib 11 factor: Cat H TION action: 75 feet 1,017.1	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 60,7 Swell factor: 1.00 Loose volume: 60,7 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	\$246.02 FITIES 231 200 231 LCY ume: Exhib 11 factor: Cat H TION action: 75 feet 1,017.1 escription: Cor -10 %	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 60,7 Swell factor: 1.00 Loose volume: 60,7 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	\$246.02 FITIES 231 00 231 LCY ume: Exhib ll factor: Cat H TION action: 1,017.1 escription: Cor -10 % 4,700 feet	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$246.02 FITIES 231 00 231 LCY ume: Exhib 11 factor: Cat H TION action: 75 feet 1,017.1 escription: Cor -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor	\$0.00 \$40.04	0 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$246.02 FITIES 231 200 231 LCY ume: Exhib ll factor: Cat H TION action: 75 feet 1,017.1 escription: Cor -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor Skill:	\$0.00 \$40.04	0 NA pile 1.0 <u>Source</u> (AVG.)		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANY Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated volu Source of estimated sweit HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consis	\$246.02 FITIES 231 200 231 LCY ume: Exhib ll factor: Cat H TION action: 75 feet action: 1,017.1 escription: Cor -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor Skill: tency:	\$0.00 \$40.04	0 NA pile 1.0 <u>Source</u> (AVG.) (CAT HB)		
Ripper own. Cost/Hour: Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 60,2 Swell factor: 1.00 Loose volume: 60,2 Source of estimated volu Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consis Dozing m	\$246.02 FITIES 231 200 231 LCY ume: Exhib ll factor: Cat H TION action: 75 feet action: 1,017.1 escription: Cor -10 % 4,700 feet 1,600 lbs/LCY Top Soil n Factor Skill: tency:	\$0.00 \$40.04	0 NA pile 1.0 <u>Source</u> (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.9650	
Adjusted unit production: 98	31.50 LCY/hr	
Adjusted fleet production: 98	31.5 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.251/LCY

Total job time:	61.37 Hours
Total job cost:	\$15,097

SCRAPER TEAM WORK

Site: C Road Pit		Permit	t Action:	TR-1	Perr	nit/Job#: <u>M201</u>	6050
PROJECT IDEN	TIFICATION						
Task #: 05A	S	tate: (Colorado		Abbrev	viation: None	
Date: 10/23/2	2020 Cou	nty: 1	Mesa		File	ename: M050-0	05a
User: <u>ACY</u> Agency or o	organization name:	DRM	IS				
HOURLY EQUIP	-			COSTS	hift basis: 1 per d	9.17	
HOUKET EQUI				00015	lint basis. <u>I per d</u>	<u>ay</u>	
	C.	craper:		ent Description 7G w/push-pull			
		Dozer:	Cat 02	T - 8SU			
Suppo	rt Equipment -Load		NA				
Road Ma	-Dump intenance –Motor C		NA NA				
Koad Ma	-Water		NA				
Cost Breakdown:	Scraper Wor Scraper	k Team Doz	7er	Support Equip Load Area	Dump Area	Maintenance Motor Grader	Equipment Water Tr
	-	D0.	-		-		
%Utilization-machine:	\$120.45	¢	100	NA	NA	NA	
Ownership cost/hour: Operating cost/hour:	\$130.45 \$162.77		116.22 \$89.77	NA NA	NA NA	NA NA	
%Utilization-ripper:	NA		\$69.77 NA	NA	NA	NA	
Ripper own. cost/hour:	NA		\$0.00	NA	NA	NA	
Ripper op. cost/hour:	NA		\$0.00	NA	NA	NA	
Operator cost/hour:	\$47.07		\$40.04	NA	NA	NA	
Unit Subtotals:	\$340.28	\$	246.02	NA	NA	NA	
Number of Units:	2		1	0	0	0	
Group Subtotals:	Work:	\$926	5.58	Support:	\$0.00	Maint:	\$0.00
Total work team cost	<u>NTITIES</u>						
Initial volume: Loose volume:	<u>60,231</u> 60,231		CCY LCY	Swell fact	tor: <u>1.000</u>		
	rce of estimated vol of estimated swell fa		Cat Han	of Reclamation, I dbook	viining & Safety		
HOURLY PROD	UCTION						
				Scraper Bo	owl (volume) Basi	<u>s:</u>	
Material weight:	1,600 lbs/LCY			Struck	Volume: <u>15.70</u>		CY
Material description:	Top Soil			Heaped			CY
Rated Payload:	52,800 pounds			Average	Volume: 18.85	L	CY

<u>0.90</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 4700 feet

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

Travel Time:

Road Condition: Packed snow 2.5

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	1.00	2.50	3.50	2665	0.50

Haul Time: **0.50** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	-1.00	2.50	1.50	2905	0.42
				Return Time:	0.42	minutes
			Total Scrap	er team cycle time:	2.42	minutes
			Adjusted	for job conditions:	775.81	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scrap	ber team (unit)	hourly production:	775.81	LCY/Hour
	Adjusted n	nultiple scrap	er team (fleet)	hourly production:	775.81	LCY/Hour
	Unadjusted unit pro	duction/hour:	934.71	LCY/Hour		

Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	77.64	Hours
Unit cost:	\$1.194	/LCY	Total job cost:	\$71,936	

MOTOR GRADER WORK

Task descrip	tion:	Spread overbu	rden on pit flo	or 18"			
C Road P	it	Pe	ermit Action:	TR-1	F	Permit/Job#:	M2016050
PROJECT	IDENTI	FICATION					
Task #:	06A	State	: Colorado		Abł	previation:	None
Date:	10/23/202					Filename:	M050-06a
User:	ACY						111000 000
-							
Age	ency or org	ganization name: <u>I</u>	ORMS				
HOURLY	EQUIPM	IENT COST					
B	asic Machi	ne: CAT 120M			Horsepower:		138
	r Attachme				Shift Basis:		er day
11					Data Source:		CRG)
Cost Drooled						· · · ·	
Cost Breakd	<u>own:</u>			1	Utilization %		
	Owi	nership Cost/Hour:		\$38.18	NA		
		erating Cost/Hour:		\$34.06	100		
I		nership Cost/Hour:		\$0.00	NA	_	
		erating Cost/Hour:		\$0.00		_	
	0	perator Cost/Hour:		\$46.87	NA		
	Tot	al Unit Cost/Hour:		\$119.11			
	T .(¢11(. 11			
	100	al Fleet Cost/Hour:	\$119	,11			
		ea to be graded or rip		A			acres
	Sou	rce of estimated acre	age: Permit	Арр			
HOURLY	PRODUC	<u>CTION</u>					
		Average Grader		1.50	mph		
		Selected Applie			grading (0-2.5 m		
		Selected Blade		30	degrees	S	
	*****	Effective Blade L	0	10.40	feet		
		h of blade overlap pe	-	2.00	feet		
		g or ripping width pe ed Hourly Unit Produ		<u>8.40</u> 1.5273	feet acres/h	our	
	5	•					
Job Conditio	n Correctio	on Factors	Course	51	ite Altitude: <u>4700</u>	<u>J</u> feet	
Δlt	itude Adj:	1.00	Source (CAT HB	3)			
	Efficiency:	0.90	(1sh/d, fav				
	Correction:	0.9000	multiplier	•/			
			-				
		Adjusted Hourly Un		1.3745	acres/Hour		
		Adjusted Hourly Flee	et Production:	1.3745	acres/Hour	ſ	
JOB TIME		лст					
			、 、				
Fleet size	e:	1 Grader(s	s)	Total job time	e: <u>26.9</u>	92	Hours
Unit cos	t. ¢s	86.65 per acre		Total job cos	t: \$3,2	06	
onicos	φι. φι	<u>per acte</u>		10101 100 008	ι. φ 3 ,2		

Page 1 of 2

SCRAPER TEAM WORK

Site: C Road Pit		Permit Action:	TR-1	Permit/	Job#: <u>M2016</u>	5050
PROJECT IDENT	TIFICATION					
Task #: 07A Date: 10/23/2		ate: <u>Colorado</u> ntv: Mesa		Abbreviat Filena	-)7a
User: ACY		J				
Agency or o	rganization name:	DRMS				
HOURLY EQUIP	MENT_		COSTS	hift basis: <u>1 per day</u>		
		Equipme	ent Description			
		raper: Cat 627 Dozer: Cat D8	G w/push-pull			
Suppor	t Equipment -Load	Area: NA	1 - 050			
Pood Mai	-Dump ntenance –Motor G					
Koau Mai	-Water T					
	G 111 1	T				D ·
<u>Cost Breakdown</u> :	Scraper Work Scraper	Dozer	Support Equip Load Area		Maintenance Iotor Grader	Equipm Wate
%Utilization-machine:	100	100	NA	NA	NA	
Ownership cost/hour:	\$130.45	\$116.22	NA	NA	NA	
Operating cost/hour:	\$162.77	\$89.77	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	
Operator cost/hour:	\$47.07	\$40.04	NA	NA	NA	
Unit Subtotals:	\$340.28	\$246.02	NA	NA	NA	
Number of Units:	2	1	0	0	0	
Group Subtotals:	Work:	\$926.58	Support:	\$0.00	Maint:	\$0
Total work team cost/	hour: <u>\$926.58</u>					
MATERIAL QUA	NTITIES					
Initial volume: Loose volume:	60,231 60,231	CCY LCY	Swell fact	tor: <u>1.000</u>	-	
	ce of estimated volu f estimated swell fa		of Reclamation, l lbook	Mining & Safety		
HOURLY PRODU	JCTION					
			Scraper Bo	owl (volume) Basis:		
	1,600 lbs/LCY		Struck	Volume: 15.70	L	CY
Material weight:	1,000 105/LC I		Struck	volume. 10.70		~ -

<u>0.90</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 4700 feet

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

Travel Time:

Road Condition: Packed snow 2.5

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	1.00	2.50	3.50	2665	0.50

Haul Time: **0.50** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	-1.00	2.50	1.50	2905	0.42
				Return Time:	0.42	minutes
			Total Scrape	er team cycle time:	2.42	minutes
			Adjusted	for job conditions:	775.81	LCY/Hour
			Selected Nu	umber of Scrapers:	2	Scraper(s)
	Adjusted	l single scrap	er team (unit)	hourly production:	775.81	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet)	hourly production:	775.81	LCY/Hour
	Unadjusted unit proc	luction/hour:	934.71	LCY/Hour		

Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	77.64	Hours
Unit cost:	\$1.194	/LCY	Total job cost:	\$71,936	

MOTOR GRADER WORK

Task description:	Spread topsoil	on pit floor			
C Road Pit	Pe	ermit Action:	TR-1	Permit/J	ob#: <u>M2016050</u>
PROJECT IDENT	IFICATION				
Task #: 08A Date: 10/23/2 User: ACY	O20 State County	-		Abbreviati	
Agency or or	rganization name: <u>I</u>	ORMS			
HOURLY EQUIP	MENT COST				
Basic Mach Ripper Attachm	nine: <u>CAT 120M</u> nent:			Horsepower: Shift Basis: Data Source:	138 1 per day (CRG)
Cost Breakdown:					
O Ripper Ov	wnership Cost/Hour: perating Cost/Hour: wnership Cost/Hour: perating Cost/Hour:		\$38.18 \$34.06 \$0.00 \$0.00	Utilization % NA 100 NA	
	Operator Cost/Hour:		\$46.87	NA	
Te	otal Unit Cost/Hour:		\$119.11		
So HOURLY PRODU	urce of estimated acre	age: <u>Permit</u>	арр		
<u>HOUKLI I KODU</u>	Average Grader	Speed:	1.50	mph	
	Selected Appli	cation:	Finish	grading (0-2.5 mph) - 1	.5
	Selected Blade . Effective Blade L		30 10.40	degrees feet	
Wid	Ith of blade overlap pe	U	2.00	feet	
	ng or ripping width pe		8.40	feet	
-	sted Hourly Unit Production	uction:	1.5273	acres/hour	
Job Condition Correct	non Factors	Source	10	te Altitude: <u>4700</u> feet	
Altitude Adj Job Efficiency Net Correction	: 0.90	(CAT HE (1sh/d, fav multiplier	v.)		
	Adjusted Hourly Un Adjusted Hourly Flee		1.3745 1.3745	acres/Hour acres/Hour	
JOB TIME AND C	COST				
Fleet size:	1 Grader(s	s)	Total job time	26.92	Hours
Unit cost:	\$86.65 per acre		Total job cos	t: \$3,206	
	· ·				

REVEGETATION WORK

Task description: Revea		Reveg pit slopes (non-cropla	nd)		
te: <u>C Road I</u>	Pit	Permit Action:	TR-1	Permit/Job	#: <u>M2016050</u>
PROJECT	<u>IDENTIFIC</u>	ATION			
Task #:	09A	State: Colorado		Abbreviation:	None
Date:	10/23/2020	County: Mesa		Filename:	M050-09a
User:	ACY				

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.16
Total Tilling Cost/Acre	\$107.16

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.13	3.66	\$12.57
Sand Dropseed	0.13	15.52	\$1.27
Crested Wheatgrass - Standard	1.25	5.74	\$5.19
Galleta	1.50	5.48	\$33.53
Western Wheatgrass - Native	1.00	2.53	\$6.00
Totals Seed Mix	5.01	32.92	\$58.55

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

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		

No. of Acres:	7	Cost /Acre:	\$432.93
Estimated Failure Rate:	20%	Cost /Acre*:	\$432.93
*Selected Replanting Work Items:	TILLING,SEEDING		

Initial Job Cost:	\$3,030.51	
Reseeding Job Cost:	\$606.10	_
Total Job Cost:	\$3,637	_
Job Hours:	16.00	-

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Init	tial Mobilization					
C Road Pit		Permit	Action: <u>TR-1</u>		1	Permit/Job#: <u>M</u>	2016050
PROJECT IDEN	NTIFICATI	ON					
Task #: 10A	L	State: Co	olorado		Abbre	eviation: None	
Date: 10/2 User: AC	23/2020 Y	County: Me	esa		Fi	lename: M050	-10a
Agency o	r organizatioi	n name: DRMS					
EQUIPMENT T	RANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	V
				C	Cost Data Sour		
Truck Cost Breakdown:	Trailer Desc	ription: Gl		DING GOO	(2ND HALF, SENECK, DF (25T, 50T, AN	ROP DECK EQUI	IPMENT
Available Rig Ca	pacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership		\$17.20	\$29.63		8.69		
	Cost/Hour:	\$26.56	\$47.02		5.69		
	Cost/Hour:	\$23.63	\$23.63		3.63		
	Cost/Hour:	\$0.00	\$23.53		3.53		
Total Unit	Cost/Hour:	\$67.39	\$123.81	\$14	41.54		
NON ROADABI	LE EQUIPN	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 D8T - 8SU	47.71	\$116.22	\$123.81	1	\$240.03	\$123.81	\$250.00
CAT 120M	15.53	\$38.18	\$67.39	1	\$105.57	\$67.39	\$250.00
Cat 627G w/push- pull	43.48	\$130.45	\$123.81	2	\$508.52	\$247.62	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00
			·	Subtotals:	\$928.23	\$506.21	\$1.000.00

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.	\$41.46	2	\$82.92	\$82.92
		Subtotals:	\$82.92	\$82.92

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$4,573.68 \$41.46	_

Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
0.25	0.25
0.25	0.25
0.50	NA
0.50	NA
1.50	0.50
	Roadable Equipment 0.25 0.25 0.25 0.50 0.50

JOB TIME AND COST

Total job time:	3.00	Hours

Total job cost: \$4,615

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	: Sec						
C Road Pit		Permit	Action: <u>TR-1</u>			Permit/Job#:	M2016050
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 10	В	State: Co	olorado		Abbre	eviation: N	None
Date: 10 User: AC	/23/2020 CY	County: Mo	esa		F	ilename: N	4050-10b
Agency	or organization	n name: DRMS					
EQUIPMENT '	FRANSPOR	<u>T RIG COST</u>					
				C	Shift ba Cost Data Sou	1	er day G Data
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH		ICK TRACTO (2ND HALF,		ESEL POWERED,
Truc	k Trailer Desc	ription: G	ENERIC FOLL		SENECK, Dr	KOP DECK E	EQUIPMENT
Truc	k Trailer Desc	ription: G			(25T, 50T, A)		EQUIPMENT
	ek Trailer Desc	ription: G					EQUIPMENT
Cost Breakdown:				<u>FRAILER (</u>	(25T, 50T, A)		EQUIPMENT
Cost Breakdown: Available Rig (Capacities	0-25 Tons	26-50 Tons	<u>ΓRAILER (</u> 51+	(25T, 50T, A) Tons		EQUIPMENT
<u>Cost Breakdown:</u> Available Rig C Ownershi				<u>FRAILER (</u> 51+ \$3	(25T, 50T, A)		EQUIPMENT
Cost Breakdown: Available Rig C Ownershi Operatin	Capacities	0-25 Tons \$17.20	26-50 Tons \$29.63	TRAILER 51+ \$3 \$5	(25T, 50T, AN Tons 8.69		EQUIPMENT
<u>Cost Breakdown:</u> Available Rig (Ownershi Operatin Operato	Capacities p Cost/Hour: g Cost/Hour:	0-25 Tons \$17.20 \$26.56	26-50 Tons \$29.63 \$47.02	TRAILER 51+ \$3 \$5 \$2	(25T, 50T, A) Tons 8.69 5.69		EQUIPMENT
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe	Capacities p Cost/Hour: g Cost/Hour: r Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63	26-50 Tons \$29.63 \$47.02 \$23.63	TRAILER 51+ \$3 \$5 \$2 \$2	(25T, 50T, AN Tons 8.69 5.69 3.63		EQUIPMENT
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe	Capacities p Cost/Hour: g Cost/Hour: r Cost/Hour: r Cost/Hour: t Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	TRAILER 51+ \$3 \$5 \$2 \$2	(25T, 50T, A) Tons 8.69 5.69 3.63 3.53		EQUIPMENT
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Uni	Capacities p Cost/Hour: g Cost/Hour: r Cost/Hour: r Cost/Hour: t Cost/Hour: BLE EQUIPN	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT:	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81	TRAILER 51+ \$3 \$5 \$2 \$14	(25T, 50T, A) Tons 8.69 5.69 3.63 3.53 41.54	<u>ND 100T)</u>	
Cost Breakdown: Available Rig (Ownershi Operatin Operato Helpe Total Uni	Capacities p Cost/Hour: g Cost/Hour: r Cost/Hour: r Cost/Hour: t Cost/Hour:	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53	TRAILER 51+ \$3 \$5 \$2 \$2	(25T, 50T, A) Tons 8.69 5.69 3.63 3.53		p DOT Permit
Cost Breakdown: Available Rig (Ownership Operation Operato Helpe Total Uni NON ROADAF Machine	Capacities p Cost/Hour: g Cost/Hour: r Cost/Hour: t Cost/Hour: t Cost/Hour: BLE EQUIPN Weight/ Unit	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni	TRAILER 51+ \$3 \$5 \$2 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14	(25T, 50T, AN Tons 8.69 5.69 3.63 3.53 41.54 Haul Trip Cost/hr/	ND 100T)	p DOT Permit
Cost Breakdown: Available Rig C Ownershi Operatin Operato Helpe Total Uni NON ROADAE Machine Description Drill/Broadcast Seeder with	Capacities p Cost/Hour: g Cost/Hour: r Cost/Hour: t Cost/Hour: BLE EQUIPM Weight/ Unit (TONS)	0-25 Tons \$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t \$67.39	TRAILER 51+ \$3 \$5 \$2 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14 \$14	(25T, 50T, AN Tons 8.69 5.69 3.63 3.53 41.54 Haul Trip Cost/hr/ fleet	ND 100T) Return Tri Cost/hr/ fle	p DOT Permit cost/ fleet \$250.00

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.	\$41.46	2	\$82.92	\$82.92
		Subtotals:	\$82.92	\$82.92

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	10.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$718.97 \$41.46	_

Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
0.25	0.25
0.25	0.25
0.50	NA
0.50	NA
1.50	0.50
	Roadable Equipment 0.25 0.25 0.25 0.50 0.50

Total job time:	3.00	Hours
Total job cost:	\$760	