

Department of Natural Resources

August 29, 2023

Stephanie Bratton Pinnt Bratton Enterprises, Inc. PO Box 43 Yampa, CO 80483

Re: McCoy Pit - File No. M-1981-088

**Bratton Enterprises, Inc. Surety Increase (SI-3)** 

**Reclamation Cost Estimate Recalulation** 

Dear Stephanie Bratton Pinnt:

On August 29, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$332,592.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$123,648.00.

Please see the June 27, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (August 29, 2023).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after October 28, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$208,944.00
Prior Liability:	\$208,944.00
Change in Liability:	\$123,648.00
Revised Liability:	\$332,592.00
Prior Permit Acreage:	73.70



Change in Permit Acreage:	0.00
Revised Permit Acreage:	73.70
Prior Affected Acreage:	73.70
Change in Affected Acreage:	0.00
Revised Affected Acreage:	73.70

If you have any questions, please contact me by telephone at (303) 866-3567 x 8176, or by email at Hunter.ridley@state.co.us.

Sincerely,

Hunter C. Ridley

Hunter Ridley

Environmental Protection Specialist

M-GR-04

# **COST SUMMARY WORK**

Τ	Task description: Updated post inspection 6/	27/2023			
Site:	McCoy Pit Permit Action	n: Inspection 06/2	2023	_ Permit/Job	#: <u>M1981088</u>
PI	ROJECT IDENTIFICATION				
	Task #: HCR State: Colorado	)		Abbreviation:	None
	Date: 7/5/2023 County: Routt			Filename:	M088-HCR
	User: HR1		<del></del>	_	
	Agency or organization name: DRMS				
<u>T</u>	ASK LIST (DIRECT COSTS)				
ask		Form	Fleet	Task	
	Description	Used	Size	Hours	Cost
1a	Demo/removal of onsite structures and equipment	DEMOLISH	1	48.00	\$32,047
2a	Slope reduction to 3H:1V	DOZER	$\frac{1}{1}$	106.13	\$45,275
3a	Rip compated areas	RIPPER	$\frac{1}{1}$	39.68	\$17,968
4a	Placement of topsoil/overburden/fine cinders	LOADER	$\frac{1}{1}$	84.25	\$13,036
5a	Spread topsoil/overburden/ fine cinders	DOZER	$\frac{1}{1}$	59.66	\$25,449
6a	Revegetate affected area	REVEGE	1	63.43	\$132,581
7a	Mobilize / demob reclamation crew and equipment	MOBILIZE	1	6.00	\$5,170
IN	NDIRECT COSTS				
	VERHEAD AND PROFIT:				
	Liability insurance: 2.02			Total = \$5	,485
	Performance bond: 1.05				,851
	Job superintendent: 142.34				,263
	Profit: 10.00				7,153
			TOTA		4,752
	CON	FRACT AMOUNT	Γ (direct -	+ O & P) =	16,278
LE	EGAL - ENGINEERING - PROJECT MANAGEMEN	Γ:			
	Financial warranty processing (legal/related costs):	\$500		Total = \$5	00
	Engineering work and/or contract/bid preparation:	0.00	_	$Total = \frac{\$5}{\$0}$	
	Reclamation management and/or administration:	5.00	<del>_</del>		5,814
	CONTINGENCY:	0.00		Total = \$0	
		TOTAL I	NDIREC	T COST = \$6	1,066
	TOTAL BO	OND AMOUNT (	direct + i	indirect) = \$3	32,592

# **DEMOLITION WORK**

,	Task description	n: <b>Demo/remo</b>	oval of onsite str	ructures and equipme	ent		
Site:	McCoy Pit		Permit Action:	Inspection 06/2023	Permit/.	Job#:	M1981088
PROJE	CT IDENTIF	<u>TICATION</u>					
Task #:	01A	State:	Colorado		Abbreviation:	Non	ie
Date:	7/5/2023	County:	Routt		Filename:	01a	
User:	HR1						
	Agency	or organization name: _	DRMS				
UNIT CO	<u>OSTS</u>				Location adju	stmen	at: 91.30 %
Structi	ire or Item		Demolition Me	nu			

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office building and shed	30'x8'x8'	Bldg. (SN) demo./off- site disposal in approved	1,920.00	CF	\$0.46	\$881.66
2		landfill - Max. 30 mile				
Removal of railroad spur	2,000'	Railroad track - Ties and track	2,000.00	LF	\$15.60	\$31,200.00
Scale	20'x40'	Loading and 5 mile haul, salvage allowed - Steel frame structures	11.70	CY	\$12.50	\$146.25
Scale house	10' x 20' x 10'	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 200 ft. push	2,000.00	CF	\$0.24	\$470.60
Scale and Scale house concrete	2 bldg	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 200 ft. push	160.00	LF	\$15.01	\$2,402.18

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	48.00	(unadjusted):	\$35,100.69	location):	\$32,046.93

## **BULLDOZER WORK**

Task description:	Slope	reduction to 3H:1V			
: McCoy Pit		Permit Action:	Inspection 06/2023	Permit/Job#:	M1981088
PROJECT IDEN	TIFICATIO	<u>ON</u>			
Task #: 02A		State: Colorado		Abbreviation:	None
Date: 7/5/20	)23	County: Routt	·	Filename:	02a
User: HR1		•		<del>-</del>	
Agency or	organization i	name: DRMS			
HOURLY EQUI					
Basic Machine:	Cat D8T - 8				
Horsepower:	310	50			
Blade Type:	Semi-Unive	rsal			
Attachment:	NA	1541			
Shift Basis:	1 per day		<u> </u>		
Data Source:	(CRG)				
Cost Breakdown:			1		
0 1: 0 ///		Φ2.41.20	<u>Utilization %</u>		
Ownership Cost/H		\$241.38	NA 100		
Operating Cost/H		\$143.92	100		
Ripper own. Cost/H		\$0.00	NA		
Rinner on Cost/H	our:	\$0.00	0		
Ripper op. Cost/H			NT A		
Operator Cost/H	our:	\$41.30	NA		
Operator Cost/H	-		NA NA		
Operator Cost/H Total unit Cost/Hou	r: \$426.6	50	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou	s426.6 \$426.6	50	NA NA		
Operator Cost/H Total unit Cost/Hour	s426.6 \$426.6	50	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou	s426.6 \$426.6	50	NA NA		
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU.	r: \$426.6 ur: <b>\$426.6</b> <b>ANTITIES</b>	50	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume:	r: \$426.6 ur: <b>\$426.6</b> <b>ANTITIES</b> 127,083	50 <b>50</b>	NA NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou  MATERIAL QU  Initial Volume: Swell factor:	r: \$426.6 ur: \$426.6 <b>ANTITIES</b> 127,083 1.255 159,489 LCY volume:	50 <b>50</b>	NA NA		
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	r: \$426.6 \$426.6 \$426.6 ANTITIES 127,083 1.255 159,489 LCY volume: swell factor:	Attached			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou  MATERIAL QU  Initial Volume:    Swell factor:    Loose volume:  Source of estimated Source of estimated HOURLY PROD	r: \$426.6 ur: \$426.6 <b>ANTITIES</b> 127,083 1.255 159,489 LCY  volume: swell factor:	Attached N/A			
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	r: \$426.6 ur: \$426.6 <b>ANTITIES</b> 127,083  1.255  159,489 LCY  volume: swell factor: <b>DUCTION</b> ace:	Attached	NA NA		
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant	r: \$426.6 ur: \$426.6 <b>ANTITIES</b> 127,083 1.255 159,489 LCY volume: swell factor: <b>DUCTION</b> ace: production:	60 60 Attached N/A 100 feet 852.6 LCY/hr			
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour Total Fleet Cost/Hour  MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	r: \$426.6 ur: \$426.6 <b>ANTITIES</b> 127,083 1.255 159,489 LCY  volume: swell factor: <b>DUCTION</b> ace: production:	Attached N/A  100 feet 852.6 LCY/hr  Partly consolidated			
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour Total Fleet Cost/Hour  MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	### ##################################	Attached N/A  100 feet 852.6 LCY/hr  Partly consolidated			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou  MATERIAL QU  Initial Volume:    Swell factor:    Loose volume:  Source of estimated Source of estimated  HOURLY PROD  Average push distan Unadjusted hourly p  Materials consistence  Average push gradie Average site altitude	### ##################################	Attached N/A  100 feet 852.6 LCY/hr  Partly consolidated  feet s/LCY			
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Hou  MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre	r: \$426.6 ur: \$426.6  \$426.6	Attached N/A  100 feet 852.6 LCY/hr  Partly consolidated  feet s/LCY	stockpile 1.1		
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct Open	r: \$426.6 ur: \$426.6  \$426.6	Attached N/A  100 feet 852.6 LCY/hr  Partly consolidated  feet s/LCY	stockpile 1.1  Source (AVG.)		
Operator Cost/H Total unit Cost/Hour Total Fleet Cost/Hour Total Fleet Cost/Hour MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistence Average site altitude Material weight: Weight description: Job Condition Correct Oper Material co	r: \$426.6 ur: \$426.6  \$426.6	Attached N/A  100 feet 852.6 LCY/hr  Partly consolidated  feet s/LCY	stockpile 1.1		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	2.421	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.7626

Adjusted unit production: 1,502.79 LCY/hr
Adjusted fleet production: 1502.79 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.284/LCY

Total job time: 106.13 Hours
Total job cost: \$45,275

# **BULLDOZER RIPPING WORK**

	Task description:	Rip c	ompated areas							
Site	: McCoy Pit		Permit Action:	Inspection 06/	/2023	Permit/Job#	: <u>M19</u>	981088		
	PROJECT ID	ENTIFICATIO	<u> </u>							
	Task #: 032	A	State: Colorado		Ab	breviation:	None			
		7/2023	County: Routt			Filename:	03a			
	User: HR	21								
	Agency	or organization r	name: DRMS							
	HOURLY EQ	UIPMENT CO	<u>ST</u>							
	Basic	Machine: Cat l	D8T - 8SU		Horsepower:		310			
	Ripper Att	achment: 1-Sh	ank Ripper	<del></del>	Shift Basis:		per day			
					Data Source:	(	(CRG)			
	Cost Breakdown:	<u>.</u>								
		0 11 0		<b>\$2.11.20</b>	Utilization %					
		Ownership Cos		\$241.38	NA 100	_				
	Rinn	Operating Coser Ownership Cos		\$143.92 \$17.40	100 NA	_				
		per Operating Cos		\$8.74	100	_				
	100	Operator Cos		\$41.30	NA	_				
		Total Unit Co		\$452.74		<del>_</del>				
		Total Fleet Cos	st/Hour: <b>\$45</b> 2	2.74						
	MATERIAL (	<u>OUANTITIES</u>	Sele	ected estimating	g method: Are	ea				
	Alternate Method	<u>ls:</u>								
Seismic:	NA		Bank Volume:	NA	BCY		NA			
Area:	20.00	acres	Rip Depth (ft):	2.00	Volume:	64,533		BCY or CCY		
		Source of estim	ated quantity: AM2 I	Exhibit L						
	HOURLY PRO	<u>ODUCTION</u>								
	Seismic:									
	<u></u>	S	eismic Velocity:	NA	feet/se	cond				
	Area:									
	Alca.	Average	Ripping Depth:	3.71	feet/pa	iss				
			Ripping Width:	5.56	feet/pa					
		Average	Ripping Length:	200.00	feet/pa	iss				
			ge Dozer Speed:	88.00	feet/m					
			Maneuver Time:	0.25		es/pass				
		Producti	on per unit area:	0.607	acres/l	nour				
	Job Condition Co	orrection Factors								
	Un	adjusted Hourly	Unit Production:	0.607	Acres/	hr				
			Site Altitude:	7,800	feet					
			Altitude Adj:	1.00	(CAT					
			Job Efficiency:	0.83	(1 shif	• .				
			Net Correction:	0.83	multip	ner				
			Hourly Unit Production:	0.50	Acres/hr					
		Adjusted H	ourly Fleet Production:	0.50	Acres/hr					
	JOB TIME AND COST									
	Fleet size:	1	Grader(s)	Total job tim	ne:	39.69		Hours		
	Unit cost:	\$898.407	Per acre	Total job co	ost:	517,968				

## WHEEL LOADER – LOAD AND CARRY WORK

: McCoy Pit		Permit Acti	on: Inspection	n 06/2023	Pe	ermit/Job#:	M1981088
PROJECT IDENT	<u>IFICATION</u>						
Task #: 04A		State: Color	ado		Abbı	reviation:	None
Date: 7/5/2023	3 (	County: Routt				Filename:	04a
User: HR1					-		
Agency or or	ganization nam	e: DRMS					
HOURLY EQUIPM	MENT COST						
Basic Machine		<u>-</u> '		Hor	sepower:		287
Attachment 1			_		ift Basis:		er day
			_		a Source:		CRG)
Cost Breakdown:			Litilization	on 0/			
Ownership Co	st/Hour	\$57.78	Utilizatio NA				
Operating Co		\$56.23	100				
Operator Co		\$40.71	NA				
Total Unit Co		\$154.72	1111				
Total Cint Co		Ψ15 1172					
Total Fleet Co	ost/Hour:	\$154.72					
MATERIAL QUA	NTITIES						
Initial volume:	16,134	CCY	/ Sw	.11 C	1.000		
	10,151			en tactor:			
Loose volume:	16,134			ell factor:	1.000		
Loose volume:	16,134	LCY	7	ell factor:	1.000		
Source	ce of estimated	LCY volume: AM2	2 Exhibit L	ell factor.	1.000		
Source		LCY volume: AM2	7	en factor:	1.000		
Source of	ce of estimated f estimated swel	LCY volume: AM2	2 Exhibit L	ell factor:	1.000		
Source	ce of estimated f estimated swel	volume: AM2 ll factor: Cat l	2 Exhibit L Handbook			0.525	minutes
Source of  HOURLY PRODU  Loader Cycle Time:	ce of estimated f estimated swell ECTION  Unadjuste	LCY volume: AM2	2 Exhibit L Handbook		er):	0.525	minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa	ce of estimated f estimated swell CTION  Unadjusted sectors	volume: AM2 ll factor: Cat l	2 Exhibit L Handbook Time (load, dum		er):   Factor	r (min.)	Source
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat	ce of estimated f estimated swell  CTION  Unadjusted sctors erial: Materi	volume: AM2 Il factor: Cat I  ed Basic Cycle T  al up to 1/8" dias	2 Exhibit L Handbook Time (load, dum	p, maneuve	er): Factor	r (min.)	Source (Cat HB)
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock	ce of estimated f estimated swell  CTION  Unadjusted sectors erial: Materia converse	volume: AM2 Il factor: Cat I  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile	2 Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an	p, maneuve	er): Factor 0.0	r (min.) 020 000	Source (Cat HB) (Cat HB)
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner	CTION  Unadjuste erial: Materic convership: No adj	volume: AM2 ll factor: Cat l ed Basic Cycle T al up to 1/8" dia yor or dozer pile ustment - factor	2 Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable (	p, maneuve	Factor 0.0	r (min.) 020 000 000	Source (Cat HB) (Cat HB) (Cat HB)
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner	CTION  Unadjuste erial: Materic convership: No adjuste Constantial: Co	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor int operation -0.0	2 Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable (	p, maneuve	Factor 0.0 0.0 0.0 0.0 -0.0	020 000 000 000 040	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner	CTION  Unadjuste erial: Materic convership: No adjuste Constantial: Co	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor int operation -0.0 al target 0.00	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable (	p, maneuve d up 0.00 0.00	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	r (min.) 020 000 000 040 000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner	CTION  Unadjuste erial: Materic convership: No adjuste Constantial: Co	volume: AM2 ll factor: Cat I  ed Basic Cycle T  al up to 1/8" dia: yor or dozer pile ustment - factor int operation -0.0 al target 0.00  Ne	2 Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable () t Cycle Time A	p, maneuve d up 0.00 0.00 djustment:	Factor  0.0 0.0 0.0 0.0 0.0 -0.0	r (min.) 020 000 000 040 000 020	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner	CTION  Unadjuste actors erial: Materi cpile: Convership: No adjuation: Consta	volume: AM2 ll factor: Cat I  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor nt operation -0.0 lal target 0.00  Ne Ad	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable (	p, maneuve d up 0.00 0.00 djustment:	Factor  0.0 0.0 0.0 0.0 0.0 -0.0	r (min.) 020 000 000 040 000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner  Opera  Dump Ta	Unadjusted sctors crial: Materiacpile: Convership: No adjusted sctors constant const	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor int operation -0.0 lal target 0.00  Ne Access	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable 0 4 t Cycle Time A djusted Basic C	p, maneuve d up 0.00 0.00 djustment: ycle Time:	Factor  0.0 0.0 0.0 0.0 -0.0 0.0 -0.0 0.0	r (min.) 020 000 000 040 000 020 505	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner  Opera  Dump Ta  Rolling Resistance – Fa	CTION  Unadjuste actors erial: Materi cpile: Conve ship: No adjuation: Consta	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor nt operation -0.0 al target 0.00  Ne Acc  ed dirt, no maint	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable 0 4 t Cycle Time A djusted Basic C	p, maneuve d up 0.00 0.00 djustment: ycle Time:	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	r (min.) 020 000 000 040 000 020 505	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner  Opera  Dump Ta  Rolling Resistance – F	Unadjusted strictors   CTION   Unadjusted strictors   CONVERTION   Unadjusted strictors   CONVERTION   CONVERTION   CONSTRUCTOR   CONSTRUCTOR	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor int operation -0.0 lal target 0.00  Ne Act	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable 0 4 t Cycle Time A djusted Basic C	p, maneuve d up 0.00 0.00 djustment: ycle Time:	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	r (min.) 020 000 000 040 000 020 505	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner  Opera  Dump Ta  Rolling Resistance – Fa	Unadjusted strictors   CTION   Unadjusted strictors   CONVERTION   Unadjusted strictors   CONVERTION   CONVERTION   CONSTRUCTOR   CONSTRUCTOR	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor nt operation -0.0 al target 0.00  Ne Acc  ed dirt, no maint	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable 0 4 t Cycle Time A djusted Basic C	p, maneuve d up 0.00 0.00 djustment: ycle Time:	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	r (min.) 020 000 000 040 000 020 505	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner  Opera  Dump Ta  Rolling Resistance – F	Ce of estimated f estimated swell (CTION)  Unadjusted states and the states arget: Materia (Convership: No adjustion: Constaurget: Nomin (Constaurget: Nomin (Constaurget: Soft, ruttern:	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor nt operation -0.0 lal target 0.00  Ne Ad  ed dirt, no maint ed dirt, no maint	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable 0 d t Cycle Time A djusted Basic C	p, maneuve d up 0.00 0.00 djustment: ycle Time: r, 4" tire per	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	r (min.) 020 000 000 040 000 020 505	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner  Opera  Dump Ta  Rolling Resistance – F	Ce of estimated f estimated swell actors  Unadjusted erial: Materic convership: No adjusted actors   No min    Road Conditions   No min    Road Conditions   Soft, rutter   Soft, rutter    Length	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor int operation -0.0 al target 0.00  Ne Ac  ed dirt, no maint ed dirt, no maint Grade Res.	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable 0 d t Cycle Time A djusted Basic C menance or water enance or water	p, maneuve d up 0.00 0.00 djustment: ycle Time: r, 4" tire per r, 4" tire per	Factor 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	r (min.) 020 000 000 040 000 020 505	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Source of  HOURLY PRODU  Loader Cycle Time:  Cycle Time Fa  Mat  Stock  Truck Owner  Opera  Dump Ta  Rolling Resistance – F	Ce of estimated f estimated swell (CTION)  Unadjusted states and the states arget: Materia (Convership: No adjustion: Constaurget: Nomin (Constaurget: Nomin (Constaurget: Soft, ruttern:	volume: AM2 ll factor: Cat l  ed Basic Cycle T  al up to 1/8" dia yor or dozer pile ustment - factor nt operation -0.0 lal target 0.00  Ne Ad  ed dirt, no maint ed dirt, no maint	Exhibit L Handbook Time (load, dum meter 0.02 d 10 ft. high an not applicable 0 d t Cycle Time A djusted Basic C	p, maneuve d up 0.00 0.00 djustment: ycle Time: r, 4" tire per	Pr):    Factor   0.0   0	r (min.) 020 000 000 040 000 020 505	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes

Total Travel Time: 1.0970 minutes
Total Cycle Time: 1.6020 minutes

### **Load Bucket Capacity**

Rated Capacity: \_\_\_\_\_ 5.60 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: 6.16 LCY

# Job Condition Correction Factors

Site Altitude: 7800 feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production: 230.71 LCY/Hour Adjusted Hourly Unit Production: 191.49 LCY/Hour Adjusted Hourly Fleet Production: 191.49 LCY/Hour

### **JOB TIME AND COST**

Fleet size:	1	Loader(s)	Total job time:	84.25	Hours
Unit cost:	\$0.808	/LCY	Total job cost:	\$13,036	

# **BULLDOZER WORK**

Task description:	Spread topsoil/overburden	/ fine cinders		
McCoy Pit	Permit Action:	Inspection 06/2023	Permit/Job#:	M1981088
PROJECT IDENTIF	ICATION			
Task #: 05A	State: Colorado	<b>.</b>	Abbreviation:	None
Date: 7/5/2023	County: Routt	<u>,                                      </u>	Filename:	05a
User: HR1			i iidiidiid.	024
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
	: D8T - 8SU			
Horsepower: 310				
	mi-Universal			
Attachment: NA				
	er day			
Data Source: (CF	(G)			
Cost Breakdown:		<u>Utilization %</u>		
Ownership Cost/Hour:	\$241.38			
Operating Cost/Hour:	\$143.92			
Ripper own. Cost/Hour:	\$0.00			
Ripper op. Cost/Hour:	\$0.00			
Operator Cost/Hour:	\$41.30		<del></del>	
T . 1 C T .	ф.12 с c0			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$426.60			
Total Fleet Cost/Hour.	\$426.60			
MATERIAL QUANT	TITIES			
Initial Volume: 16,1	34			
Swell factor: $\frac{10,11}{1.000}$				
	34 LCY			
<del></del>				
Source of estimated volum				
Source of estimated swell	factor: Cat Handbook			
HOURLY PRODUCT	<u>rion</u>			
Average push distance:	200 feet			
Unadjusted hourly produc	etion: 491.9 LCY/hr			
Materials consistency des	cription: Loose stockpile 1.	2		
Average push gradient:	0 %			
Average site altitude:	7,800 feet			
Material weight:	2,500 lbs/LCY		<u></u>	
Weight description:	Clay - Dry			
Job Condition Correction		Source		
Operator S		(AVG.)		
Material consiste		(CAT HB)		
Dozing me		(GEN.)		
Visib	oility: 1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5498

Adjusted unit production: 270.45 LCY/hr
Adjusted fleet production: 270.45 LCY/hr

## **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$1.577/LCY

Total job time: 59.66 Hours Total job cost: \$25,449

# **REVEGETATION WORK**

Task description:	Revegetate affect	ted area			
McCoy Pit	Per	mit Action: Insp	ection 06/2023	Permit/Job	#: <u>M1981088</u>
ROJECT IDENTIFIC	CATION				
Task #: 06A	State:	Colorado		Abbreviation:	None
Date: $\frac{7/5}{2023}$	County:	Routt		Filename:	06a
User: HR1		Houti		_	004
	zation name: DR	MS			
EDTH IZING					
ERTILIZING					
aterials					
Description		Units /	Unit	Cost / Unit	Cost /Acre
<b>Description</b>		Acre			
10-34-0, 18-46-0, 5-10-	<u> </u>	20.00	pound	\$0.50	\$9.93
				Total Fertilizer	
				Materials	
				Cost/Acre	\$9.93
Tractor towed spreader	(MEANS 32 01 90.	13 0120)			\$41.82
		Tota	l Fertilizer App	lication Cost/Acre	\$41.82
ILLING					
Description					Cost /Acre
Disc harrowing, 6" deep	(MEANS 32 91 13	3.23 6100)			\$112.82
			Total	Tilling Cost/Acre	\$112.82
<b>EEDING</b>					
				te – Seeds	Cost /Acre
Cood Mirr			PL	00	Cost/Acre
Seed Mix				ner SU.	
Seed Mix			LB	H" I"	
	Luna		LB Ac	re FT	\$28.56
Pubescent Wheatgrass -	Luna		LB Ac 8.4	<b>FT</b> 0 17.36	\$28.56 \$125.55
Pubescent Wheatgrass - Needle and Thread			8.4 3.0	FT 17.36 0 7.92	\$125.55
Pubescent Wheatgrass -	Vative		LB Ac 8.4	re 17.36 0 17.36 0 7.92 0 24.24	

DescriptionCost /AcreDrill Seeding (DRMS Survey Cost)\$232.00

Application

**Totals Seed Mix** 

\$313.42

76.34

27.60

Total Seed Application Cost/Acre	\$232.00

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$894.66

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	<b>Total Mulch Application Cost/Acre</b>	\$137.18

### **NURSERY STOCK PLANTING**

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

### **JOB TIME AND COST**

No. of Acres: 63.43

Cost /Acre: \$1,741.83 Cost /Acre\*: \$1,741.83 Estimated Failure Rate: 20%

\*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU

LCHING

Initial Job Cost: **\$110,484.28** Reseeding Job Cost: \$22,096.86 Total Job Cost: **\$132,581** Job Hours: **63.43** 

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

r ask descript	110n: <b>N10</b>	odilize / demob r	eciamation crew	and equipment	ļ	
ite: McCoy Pi	t	Perm	it Action: Inspec	etion 06/2023	Permit/Jol	b#: <u>M1981088</u>
PROJECT I	DENTIFICATI	ON				
Task #:	07A		Colorado		Abbreviation:	None
Date: _ User: _	7/5/2023 HR1	County: I	Routt		Filename:	07a
Ager	ncy or organization	n name: _ DRM	S			
<b>EQUIPMEN</b>	NT TRANSPOR	T RIG COST				
						1 per day
				Cost D	ata Source: C	CRG Data
Т	Truck Tractor Desc	ription: GEN	ERIC ON-HIGHV			DIESEL POWERED,
				400 HP (2ND		
٦	Fruck Trailer Desc	ription:	GENERIC FOLDI		,	-
			T	RAILER (25T,	50T, AND 100T)	
Cost Breakdov	wn:					
Available R	ig Capacities	0-25 Tons	26-50 Tons	51+ Tons	<u> </u>	
Owner	rship Cost/Hour:	\$20.26	\$36.04	\$47.05		
Opera	ating Cost/Hour:	\$39.51	\$76.08	\$82.85		
Ope	rator Cost/Hour:	\$22.52	\$22.52	\$22.52	-	
He	elper Cost/Hour:	\$0.00	\$23.53	\$23.53		
Total	Unit Cost/Hour:	\$82.29	\$158.17	\$175.95	<u></u>	

### **NON ROADABLE EQUIPMENT:**

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	\$241.38	\$158.17	1	\$399.55	\$158.17	\$250.00
CAT 972H	28.00	\$57.78	\$158.17	1	\$215.95	\$158.17	\$250.00
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							

Subtotals: \$704.52 \$398.63 \$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, 1 T.	\$27.44	1	\$27.44	\$27.44
Crew				

Subtotals: \$27.44 \$27.44

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

Sea GLE

miles

35.00

mph

#### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

### **JOB TIME AND COST**

Total job cost: 6.00 Hours

Total job cost: \$5,170