

October 3, 2023

April Sibson High Country Hard Rock, LLC 45 6th St Unit 3 Steamboat Springs, CO 80487

### Re: Williams/Illinois Gravel Pit - File No. M-1997-039 High Country Hard Rock, LLC Surety Increase (SI-3) Bond increase to \$93,905

Dear April Sibson:

On October 3, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$93,905.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$19,405.00.

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 (October 3, 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 December 2, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$74,500.00
Prior Liability:	\$74,500.00
Change in Liability:	\$19,405.00
Revised Liability:	\$93,905.00
Prior Permit Acreage:	204.83
Change in Permit Acreage:	0.00

Physical Address: 1313 Sherman Street, Room 215, Denver, CO 80203 P 303.866.3567 F 303.832.8106 Mailing Address: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 <u>https://drms.colorado.gov</u> Jared S. Polis, <u>Governor J</u> Dan Gibbs, Executive Director | Virginia Brannon, Director



Revised Permit Acreage:	204.83
Prior Affected Acreage:	204.83
Change in Affected Acreage:	0.00
Revised Affected Acreage:	204.83

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 Ridley

Hunter C. Ridley Environmental Protection Specialist

cc: Josh Sibson

M-GR-04

# COST SUMMARY WORK

William	s/Illinois Gravel F	Pit Per	rmit Action:	2023_Post Inspection	Permit/Job	o#: <u>M1997039</u>
PROJECT	<b>IDENTIFICAT</b>	<u>TION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	9/6/2023	County:	Jackson		Filename:	000
	11:06:58 AM					
	HR1					

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Final Grading - Stage 1 - East Boundary Only	DOZER	1	19.60	\$8,786
002	Replace 8" Topsoil - 14.98 Acres - 110c & Stage 1	DOZER	1	21.11	\$9,462
003	Revegetate 14.98 Acres - 110c & Stage 1	REVEGE	1	80.00	\$22,299
004	Fence 5 Acres in Reclamation	SITEMAINT ENANCE	1	0.00	\$500
005	Mob/Demob	MOBILIZE	1	4.26	\$2,051
006	Replace 8" Topsoil - 5.72 Acres - Stage 2	DOZER	1	8.06	\$3,613
007	Revegetate 5.72 Acres - Stage 2	REVEGE	1	80.00	\$8,515
008	Replace 8" Topsoil - 5.72 Acres - Stage 3	DOZER	1	8.06	\$3,613
009	Revegetate 5.72 Acres - Stage 3	REVEGE	1	80.00	\$8,515
		<u>SUBTO</u>	TALS:	301.09	\$67,354

# **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02		Total =	\$1,361
Performance bond:	1.05		Total =	\$707
Job superintendent:	150.54		Total =	\$9,797
Profit:	10.00		Total =	\$6,735
			TOTAL O & $P =$	\$18,600
	CONT	RACT AMOUNT	(direct + O & P) =	\$85,954
LEGAL - ENGINEERING - PRO	DJECT MANAGEMENT	`:		
Financial warranty processi	ing (legal/related costs):	\$0	Total =	\$0
Engineering work and/or c	ontract/bid preparation:	4.25	Total =	\$3,653
Reclamation managemen	t and/or administration:	5.00	-	\$4,298

(regul related costs).	$\psi \phi$	rotur	<b>\$</b> \$
neering work and/or contract/bid preparation:	4.25	Total =	\$3,653
clamation management and/or administration:	5.00		\$4,298
CONTINGENCY:	0.00	Total =	\$0
		TOTAL INDIRECT COST =	\$26,551

TOTAL BOND AMOUNT (direct + indirect) = \_\_\_\_\_\$93,905

Task description:	rmar	Ji aung -	orage I La	st Boundary Only		
Williams/Illinoi	is Gravel Pit	Per	mit Action:	2023_Post Inspection	Permit/Job#:	M1997039
PROJECT IDE	<b>NTIFICATIO</b>	<u>N</u>				
Task #: 001		State:	Colorado		Abbreviation:	None
Date: $9/6/2$	2023	County:	Jackson		Filename:	001
	4:09 AM	· · <b>)</b> ·				
User: HR1					-	
Agency o	r organization n	ame: DF	RMS			
HOURLY EQU	IPMENT COS	<u>ST</u>				
Basic Machine:	Cat D8T - 8S	U				
Horsepower:	310			_		
Blade Type:	Semi-Univer	sal				
Attachment:	3-shank rippe	er				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
Cost Broundowill.				Utilization %		
Ownership Cost/I	Hour:		\$241.38	NA		
Operating Cost/I			\$143.92	100		
Ripper own. Cost/I			\$14.11	NA		
Ripper op. Cost/I			\$7.45	100		
Operator Cost/I			\$41.30			
Total unit Cost/Ho	ur: \$448.16		φ41.50	NA		
•	ur: \$448.16 our: <b>\$448.1</b> 6		φ41.30	NA		
Total unit Cost/Ho Total Fleet Cost/Ho	ur: \$448.16 our: <b>\$448.1</b> 6		φ+1.50	NA		
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Total unit Cost/Ho Total Fleet Cost/Ho Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated Materials consister Average push dista Unadjusted hourly Materials consister Average push grad Average site altitud Material weight: Weight description Job Condition Corr	ur: $$448.16$ our: $$448.16$ our: $$448.16$ $3448.16$ $3448.16$ $3448.16$ $3448.16$ $3448.16$ $3448.16$ $3448.16$ $8,167$ $1.000$ $8,167$ $3467$ $1.000$ $8,167$ $1.000$ $8,167$ $1.000$ $8,167$ $1.000$ $8,167$ $1.000$ $8,167$ $1.000$ <	Division Cat Hand 30 feet 984.2 LCY/ Consol eet ps/LCY ad gravel -	 of Reclamation lbook /hr idated stockp  Dry	on, Mining & Safety 		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	416.61 LCY/hr
Adjusted fleet production:	<b>416.61</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.076/LCY

Total job time:	<b>19.60</b> Hours
Total job cost:	\$8,786

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Williams/Illinois	Gravel Pit	Per	mit Action:	2023_Post Inspection	Permit/Job#:	M1997039
PROJECT IDEN	TIFICATIO	<u>N</u>				
Task #: 002		State:	Colorado		Abbreviation:	None
Date: $9/6/20$	)23	County:	Jackson		Filename:	002
11:04	:50 AM	2				
User: HR1					-	
Agency or	organization n	ame: DI	RMS			
HOURLY EQUI	PMENT CO	<u>ST</u>				
Basic Machine:	Cat D8T - 85	SU				
Horsepower:	310					
Blade Type:	Semi-Univer	sal				
Attachment:	3-shank ripp	er				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	our:		\$241.38	NA		
Operating Cost/H	our:		\$143.92	100		
Ripper own. Cost/H	our:		\$14.11	NA		
Ripper op. Cost/H	our:		\$7.45	100		
Operator Cost/H	our:		\$41.30	NA		
Total unit Cost/Hou Total Fleet Cost/Ho						
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Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume:	ur: <b>\$448.1</b> <b>ANTITIES</b> 15,950					
Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor:	ur: <b>\$448.1</b> <b>ANTITIES</b> 15,950 1.000					
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Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PRODE Average push distant Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correc Oper	ur: \$448.1 <u>ANTITIES</u> 15,950 1.000 <b>15,950</b> LCY volume: swell factor: <u>DUCTION</u> ace: <u>9</u> production: <u>9</u> cy description: ent: <u>-10 %</u> e: <u>8,450 f</u> <u>1,600 l</u> <u>Top So</u> ection Factor rator Skill:	6 Division Cat Hand 80 feet 984.2 LCY Consol eet bs/LCY il	lbook /hr lidated stockp	<u>bile 1.0</u> <u>Source</u> (AVG.)		
Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PRODE Average push distar Unadjusted hourly p Materials consistence Average site altitude Material weight: Weight description: Job Condition Correc Oper Material co	ur: \$448.1 <u>ANTITIES</u> 15,950 1.000 <b>15,950</b> LCY volume: swell factor: <u>DUCTION</u> ace: <u>9</u> production: <u>9</u> cy description: ent: <u>-10 %</u> e: <u>8,450 f</u> <u>1,600 l</u> <u>Top So</u> ection Factor rator Skill:	6 Division Cat Hanc 80 feet 984.2 LCY Consol eet bs/LCY il 0 1	lbook /hr lidated stockp			

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	755.47 LCY/hr
Adjusted fleet production:	<b>755.47</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.593/LCY

Total job time:	<b>21.11</b> Hours
Total job cost:	\$9,462

# **REVEGETATION WORK**

: Williams	s/Illinois Grave	e <b>l Pit</b> Pe	ermit Action:	2023_Post Inspection	Permit/Jol	b#: <u>M1997039</u>
PROJECT	<b>IDENTIFIC</b>	<b>ATION</b>				
Task #:	003	State:	Colorado		Abbreviation:	None
Date:	9/6/2023	County:	Jackson		Filename:	003
	11:01:05 AM	1				
	HR1					

# **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)	\$112.82
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$451.62

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	5.00	16.30	\$58.63
Mountain Brome - Bromar	10.00	16.07	\$38.00
Bottlebrush Squirreltail	2.50	11.02	\$40.56
Sandberg Bluegrass - VNS	5.00	106.18	\$42.00
Rocky Mountain Fescue	5.00	80.35	\$36.25
Slender Wheatgrass - Native	10.00	36.50	\$46.25
Streambank Wheatgrass - Sodar	5.00	16.30	\$28.50
Thickspike Wheatgrass - Critana	5.00	17.68	\$34.38

Prairie Junegrass	2.50	132.89	\$65.00
Totals Seed Mix	50.00	433.28	\$389.56

## 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
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$183.16

#### **NURSERY STOCK PLANTING**

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

	No. of Acres:	14.98	Cost /Acre:	\$1,291.56
Estimate	ed Failure Rate:	30%	Cost /Acre*:	\$656.78
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$19,347.57			
Reseeding Job Cost:	\$2,951.57			
Total Job Cost:	\$22,299			
Job Hours:	80.00			

# SITE MAINTENANCE

Site:	Williams/Illinois Grave	el Pit	Permit Action:	2023_Post Inspection	Permit/J	ob#: <u>M199703</u>
<u>OJE(</u>	CT IDENTIFICATIO	<u>N</u>				
Гask #:	004	State:	Colorado	А	bbreviation:	None
Date:	9/6/2023 11:00:27	County:	Jackson		Filename:	004
	AM					
User:	HR1				=	

# UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Electric Fence - 5 Acres @ \$100/Acre	0.00	USER PROVIDED ITEM	5.00		\$100.00	\$500.00

Job Hours: 0.00

Total Cost: \$500.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Williams/Illinois Gravel Pit	Permit	t Action:2023_P	ost Inspection	Permit/Jo	ob#:	M1997039
PROJECT IDENTIFICATI	<u>ON</u>					
Task #: 005	State: C	Colorado	A	Abbreviation:	No	ne
Date: 9/6/2023 11:03:22 AM	County: Ja	ackson		Filename:	005	5
User: HR1						
Agency or organization	n name: DRMS	S				
EQUIPMENT TRANSPOR	<u>T RIG COST</u>					
			Sh	ft basis:	1 per	dav
			511	It Dasis.	1 per	uuy
			Cost Data		CRG I	
Truck Tractor Desc	ription: GENI	ERIC ON-HIGHW	Cost Data AY TRUCK TRA	Source:	CRG I	Data
Truck Tractor Desc Truck Trailer Desc	-		Cost Data AY TRUCK TRA 400 HP (2ND HA	Source: ACTOR, 6X4, ALF, 2006)	CRG I DIES	Data
	-	GENERIC FOLDIN	Cost Data AY TRUCK TRA 400 HP (2ND HA	Source: ACTOR, 6X4, ALF, 2006) X, DROP DEC	CRG I DIES CK EQ	Data
Truck Trailer Desc	-	GENERIC FOLDIN	Cost Data AY TRUCK TRA 400 HP (2ND HA IG GOOSENECK	Source: ACTOR, 6X4, ALF, 2006) X, DROP DEC	CRG I DIES CK EQ	Data
	-	GENERIC FOLDIN	Cost Data AY TRUCK TRA 400 HP (2ND HA IG GOOSENECK	Source: ACTOR, 6X4, ALF, 2006) X, DROP DEC	CRG I DIES CK EQ	Data
Truck Trailer Desc Cost Breakdown: Available Rig Capacities Ownership Cost/Hour:	ription: C	GENERIC FOLDIN TR	Cost Data AY TRUCK TRA 400 HP (2ND HA IG GOOSENECK AILER (25T, 501	Source: ACTOR, 6X4, ALF, 2006) X, DROP DEC	CRG I DIES CK EQ	Data
Truck Trailer Desc ost Breakdown: Available Rig Capacities	ription: C	GENERIC FOLDIN TR 26-50 Tons	Cost Data AY TRUCK TRA 400 HP (2ND HA G GOOSENECK AILER (25T, 501 51+ Tons	Source: ACTOR, 6X4, ALF, 2006) X, DROP DEC	CRG I DIES CK EQ	Data
Truck Trailer Desc ost Breakdown: Available Rig Capacities Ownership Cost/Hour:	ription: C	GENERIC FOLDIN TR 26-50 Tons \$36.04	Cost Data AY TRUCK TRA 400 HP (2ND HA NG GOOSENECK AILER (25T, 507 51+ Tons \$47.05	Source: ACTOR, 6X4, ALF, 2006) X, DROP DEC	CRG I DIES CK EQ	Data
Truck Trailer Desc <u>Cost Breakdown:</u> <u>Available Rig Capacities</u> Ownership Cost/Hour: Operating Cost/Hour:	ription: C	GENERIC FOLDIN TR 26-50 Tons \$36.04 \$76.08	Cost Data AY TRUCK TRA 400 HP (2ND HA G GOOSENECK AILER (25T, 507 51+ Tons \$47.05 \$82.85	Source: ACTOR, 6X4, ALF, 2006) X, DROP DEC	CRG I DIES CK EQ	Data

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	53.08	\$255.49	\$175.95	1	\$431.44	\$175.95	\$250.00
				Subtotals:	\$431.44	\$175.95	\$250.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	WALDEN 17.00 30.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,051.26	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

Unloading Time (Hours): 0.50 NA	Haul Time (Hours): Return Time (Hours):	Non- Roadable Equipment 0.57 0.57	Roadable Equipment 0.57 0.57
<b>-</b>	Loading Time (Hours):	0.57 0.50	0.57 NA
	Unloading Time (Hours): Subtotals:	0.50	NA 1.13

## JOB TIME AND COST

Total job time: **4.27** Hours

Total job cost: \$2,051

Task description:	Repla					
: Williams/Illinois	s Gravel Pit	Peri	mit Action:	2023_Post Inspection	Permit/Job#:	M1997039
PROJECT IDEN	TIFICATIO	<u>DN</u>				
Task #: 006		State:	Colorado		Abbreviation:	None
Date: $9/6/20$	023	County:	Jackson		Filename:	006
	:37 AM	county	<b>vuo</b> nson			
User: HR1					-	
Agency or	organization n	ame: DR	RMS			
HOURLY EQUI	PMENT CO	<u>ST</u>				
Basic Machine:	Cat D8T - 8	SU				
Horsepower:	310					
Blade Type:	Semi-Univer	rsal				
Attachment:	3-shank ripp	er				
Shift Basis:	1 per day					
Data Source:	(CRG)			<u> </u>		
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	lour:		\$241.38	NA		
Operating Cost/H			\$143.92	100		
Ripper own. Cost/H	lour:		\$14.11	NA		
rr						
Ripper op. Cost/H	lour:		\$7.45	100		
11	lour:		\$7.45 \$41.30	100 NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou	Iour:					
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho	Iour:					
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor:	lour: 11: \$448.1 11: \$448.1 12: \$448.1 14: \$448.1					
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL OU Initial Volume:	Iour:					
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor:	lour: 11: \$448.1 11: \$448.1 5448.1	6	\$41.30			
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL OU Initial Volume: Swell factor: Loose volume:	lour:	6	\$41.30	NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated	lour:	6 	\$41.30	NA		
Ripper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated	Iour: \$448.1 ur: \$448.1 ANTITIES 6,090 1.000 6,090 LCY volume: swell factor:	6 	\$41.30	NA		
Ripper op. Cost/H 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	Iour: \$448.1 ur: \$448.1 <b>ANTITIES</b> 6,090 1.000 6,090 LCY volume: swell factor: DUCTION	6 Division Cat Hand	\$41.30	NA		
Ripper op. Cost/H 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 PROI Average push distar	Iour:	6 Division Cat Hand 80 feet	\$41.30	NA		
Ripper op. Cost/H 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 PROI Average push distar Unadjusted hourly p	Iour:       \$448.1         nur:       \$448.1         ANTITIES       6,090         1.000       6,090 LCY         volume:       swell factor:         DUCTION       nce:         production:	6 Division Cat Hand 80 feet 984.2 LCY/	\$41.30 	on, Mining & Safety		
Ripper op. Cost/H 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 PROI Average push distar	Iour:       \$448.1         nur:       \$448.1         ANTITIES       6,090         1.000       6,090 LCY         volume:       swell factor:         DUCTION       nce:         production:	6 Division Cat Hand 80 feet 984.2 LCY/	\$41.30	on, Mining & Safety		
Ripper op. Cost/H 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 PROI Average push distan Unadjusted hourly p Materials consistence Average push gradie	Iour:       \$448.1         wr:       \$448.1         wr:       \$448.1         ANTITIES       6,090         6,090       1.000         6,090 LCY       volume:         swell factor:       0         DUCTION       nce:         production:          cy description:          ent:          -10 %       %	6   	\$41.30 	on, Mining & Safety		
Ripper op. Cost/H 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 PROI Average push distar Unadjusted hourly p	Iour:       \$448.1         wr:       \$448.1         wr:       \$448.1         ANTITIES       6,090         6,090       1.000         6,090 LCY       volume:         swell factor:       0         DUCTION       nce:         production:          cy description:          ent:          -10 %       %	6   	\$41.30 	on, Mining & Safety		
Ripper op. Cost/H 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 PROI Average push distan Unadjusted hourly p Materials consistence Average push gradie	Iour:       \$448.1         wr:       \$448.1         wr:       \$448.1         wr:       \$448.1         MANTITIES       6,090         6,090       1.000         6,090       LCY         volume:       swell factor:         Swell factor:       DUCTION         nce:	6   	\$41.30 	on, Mining & Safety		
Ripper op. Cost/H 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 MOURLY PROI Average push distan Unadjusted hourly p Materials consistence Average push gradia Average push gradia	Iour:       \$448.1         nur:       \$448.1         ANTITIES       6,090         1.000       6,090 LCY         volume:       swell factor:         DUCTION       nce:         production:	6 Division ( Cat Hand 80 feet 984.2 LCY/ Consol Feet bs/LCY	\$41.30 	on, Mining & Safety		
Ripper op. Cost/H 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 MOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradid Average site altitud Material weight: Weight description:	Iour:       \$448.1         ur:       \$448.1         ur:       \$448.1         ur:       \$448.1         ur:       \$448.1         ur:       \$448.1         aux:       \$400         bucction:       \$1,600 1         aux:       \$1,600 1         Top So       \$1,600 1	6 Division ( Cat Hand 80 feet 984.2 LCY/ Consol Feet bs/LCY	\$41.30 	NA		
Ripper op. Cost/H 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 Source of estimated HOURLY PROI Average push distar Unadjusted hourly p Materials consistence Average push gradia Average push gradia Average site altitud Material weight: Weight description: Job Condition Correct	Iour:       \$448.1         ur:       \$448.1         ur:       \$448.1         ur:       \$448.1         ur:       \$448.1         ur:       \$448.1         aux:       \$400         bucction:       \$1,600         aux:       \$1,600         aux:       \$1,600	6 Division of Cat Hand 80 feet 984.2 LCY/ Consol Feet bs/LCY bil	\$41.30 	on, Mining & Safety		
Ripper op. Cost/H 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 Source of estimated Muterials consistence Average push distar Unadjusted hourly p Materials consistence Average push gradia Average site altitude Material weight: Weight description: Job Condition Correct Ope	Iour:       \$448.1         ur:       \$448.1         aux:       \$400         bucction:       \$1,600 1         aux:       \$1,600 1         Top Sc       \$200         ection Factor       \$200	6 Division ( Cat Hand 80 feet 984.2 LCY/ Consol Feet bs/LCY bil 0.	\$41.30	NA		

Job efficiency: Spoil pile:	0.830	(1 SHIFT/DAY) (FND-MF)
· · ·	0.700	(FND-MF)
D 1		
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	755.47 LCY/hr
Adjusted fleet production:	<b>755.47</b> LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.593/LCY

Total job time:	8.06 Hours
Total job cost:	\$3,613

# **REVEGETATION WORK**

Task desc	ription:	Revegetate 5.72	Acres - Stag	je 2		
ite: Willia	ns/Illinois Grave	e <b>l Pit</b> Pe	rmit Action:	2023_Post Inspection	Permit/Job	o#: <u>M1997039</u>
<b>PROJEC</b>	<u>T IDENTIFIC</u>	ATION				
Task #	: 007	State:	Colorado		Abbreviation:	None
Date	: 9/6/2023	County:	Jackson		Filename:	M039-007
	11:01:48 AM	1				

# **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/Ac	cre \$0.00

# **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$451.62

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	5.00	16.30	\$58.63
Mountain Brome - Bromar	10.00	16.07	\$38.00
Bottlebrush Squirreltail	2.50	11.02	\$40.56
Sandberg Bluegrass - VNS	5.00	106.18	\$42.00
Rocky Mountain Fescue	5.00	80.35	\$36.25
Slender Wheatgrass - Native	10.00	36.50	\$46.25
Streambank Wheatgrass - Sodar	5.00	16.30	\$28.50
Thickspike Wheatgrass - Critana	5.00	17.68	\$34.38

Prairie Junegrass	2.50	132.89	\$65.00
Totals Seed Mix	50.00	433.28	\$389.56

## 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
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$183.16

#### **NURSERY STOCK PLANTING**

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

	No. of Acres:	5.72	Cost /Acre:	\$1,291.56
Estimated Failure Rate:		30%	Cost /Acre*:	\$656.78
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$7,387.72			
Reseeding Job Cost:	\$1,127.03			
Total Job Cost:	\$8,515			
Job Hours:	80.00			

	Repla	ce o ropo		res - Stage 3		
Williams/Illinois	Gravel Pit	Per	mit Action:	2023_Post Inspection	Permit/Job#:	M1997039
PROJECT IDEN	TIFICATIO	N				
Task #: 008		State:	Colorado		Abbreviation:	None
Date: $9/6/20$	023	County:	Jackson		Filename:	008
	:19 AM	- · · · <b>· ·</b>				
User: HR1					-	
Agency or	organization n	ame: DF	RMS			
HOURLY EQUI	PMENT CO	<u>ST</u>				
Basic Machine:	Cat D8T - 85	SU				
Horsepower:	310					
Blade Type:	Semi-Univer	sal				
Attachment:	3-shank ripp	er				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/He	our:		\$241.38	NA		
Operating Cost/He			\$143.92	100		
Ripper own. Cost/He	our:		\$14.11	NA		
Ripper op. Cost/H	our:		\$7.45	100		
Operator Cost/H	our:		\$41.30	NA		
Total unit Cost/Hour Total Fleet Cost/Hou						
Total Fleet Cost/Hou MATERIAL QU.	ur: <b>\$448.1</b>					
Total Fleet Cost/Hou	ur: <b>\$448.1</b> 0 ANTITIES 6,090					
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor:	ur: <b>\$448.1</b> 0 <b>ANTITIES</b> <u>6,090</u> 1.000					
Total Fleet Cost/Hou MATERIAL QU. Initial Volume:	ur: <b>\$448.1</b> 0 ANTITIES 6,090					
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor:	ur: \$448.10 ANTITIES 6,090 1.000 6,090 LCY	6	 of Reclamati	on, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume:	ur: \$448.10 <u>ANTITIES</u> <u>6,090</u> <u>1.000</u> <u>6,090</u> LCY volume:	6		on, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	ur: \$448.10 <u>ANTITIES</u> <u>6,090</u> <u>1.000</u> <u>6,090</u> LCY volume:	6 Division		on, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	ur: \$448.10 ANTITIES 6,090 1.000 6,090 LCY volume: swell factor:	6 Division		ion, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	ur: \$448.10 <u>ANTITIES</u> 6,090 1.000 <b>6,090</b> LCY volume: swell factor: <u>PUCTION</u>	6 Division Cat Hand		on, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	ur: \$448.10 ANTITIES 6,090 1.000 6,090 LCY volume: swell factor: PUCTION ace: 2	6 Division Cat Hand 80 feet	book	on, Mining & Safety		
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	ur:       \$448.10         6,090       .000         6,090 LCY       .000         6,090 LCY       .000         volume:	Division Cat Hand 80 feet 984.2 LCY/	book			
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	ur:       \$448.10         6,090	Division Cat Hand 80 feet 984.2 LCY/	book			
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	ur:       \$448.10         ANTITIES       6,090         1.000       6,090 LCY         volume:       swell factor:         Swell factor:       9         DUCTION       9         ace:       9         oroduction:       9         cy description:       9         ent:       -10 %	6 Division Cat Hand 80 feet 984.2 LCY/ Consol	book			
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	ur:       \$448.10         ANTITIES       6,090         1.000       6,090 LCY         volume:       swell factor:         swell factor:       9         DUCTION       9         ace:       9         production:       9         ext ent:       -10 %         ext =       8,450 f	6 Division Cat Hand 80 feet 984.2 LCY/ Consol	book			
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	ur:       \$448.10         ANTITIES       6,090         1.000       6,090 LCY         volume:       swell factor:         swell factor:       9         DUCTION       9         ace:       9         production:       9         ext ent:       -10 %         ext =       8,450 f	6 Division Cat Hand 80 feet 984.2 LCY/ Consol eet bs/LCY	book			
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:	ur: \$448.10 <u>ANTITIES</u> 6,090 1.000 6,090 LCY volume: swell factor: <u>PUCTION</u> ace: <u>6</u> production: <u>9</u> cy description: ent: <u>-10 %</u> <u>8,450 f</u> <u>1,600 f</u>	6 Division Cat Hand 80 feet 984.2 LCY/ Consol eet bs/LCY	book			
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 Corree Open	ur: \$448.10 ANTITIES 6,090 1.000 6,090 LCY volume: swell factor: PUCTION ace: 6 production: 9 cy description: ent: -10 % e: 8,450 f 1,600 I Top So ection Factor rator Skill:	6 Division Cat Hand 80 feet 984.2 LCY/ Consol eet bs/LCY il	/hr idated stocky	<u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>		
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 Open Material co	ur: \$448.10 ANTITIES 6,090 1.000 6,090 LCY volume: swell factor: PUCTION ace: 6 production: 9 cy description: ent: -10 % extin Factor rop So extion Factor rator Skill:	6 Division Cat Hand 80 feet 984.2 LCY/ Consol eet bs/LCY il 0. 1.	/hr idated stockj			

Job efficiency: Spoil pile:	0.830	(1 SHIFT/DAY)
Spoil pile		
spon phe.	0.700	(FND-MF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	755.47 LCY/hr
Adjusted fleet production:	755.47 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.593/LCY

Total job time:	8.06 Hours
Total job cost:	\$3,613

# **REVEGETATION WORK**

Task descri	ption:	Revegetate 5.72	Acres - Stag	ye 3		
e: William	s/Illinois Grave	e <b>l Pit</b> Pe	ermit Action:	2023_Post Inspection	Permit/Jol	b#: <u>M1997039</u>
<b>PROJECT</b>	<b>IDENTIFIC</b>	<b>ATION</b>				
Task #:	009	State:	Colorado		Abbreviation:	None
Date:	9/6/2023	County:	Jackson		Filename:	009
Date.	11:02:33 AM	1				

# **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)	\$112.82
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$451.62

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Beardless Wheatgrass - Whitmar	5.00	16.30	\$58.63
Mountain Brome - Bromar	10.00	16.07	\$38.00
Bottlebrush Squirreltail	2.50	11.02	\$40.56
Sandberg Bluegrass - VNS	5.00	106.18	\$42.00
Rocky Mountain Fescue	5.00	80.35	\$36.25
Slender Wheatgrass - Native	10.00	36.50	\$46.25
Streambank Wheatgrass - Sodar	5.00	16.30	\$28.50
Thickspike Wheatgrass - Critana	5.00	17.68	\$34.38

Prairie Junegrass	2.50	132.89	\$65.00
Totals Seed Mix	50.00	433.28	\$389.56

## 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
Weed spray, hand, non-aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$183.16

#### **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:	5.72	Cost /Acre:	\$1,291.56
Estimate	ed Failure Rate:	30%	Cost /Acre*:	\$656.78
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$7,387.72			
Reseeding Job Cost:	\$1,127.03			
Total Job Cost:	\$8,515			
Job Hours:	80.00			