

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

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

MINE NAME:		MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Williams/Illinois Gravel Pit		M-1997-039	Gravel and sand	Jackson
INSPECTION TYPE:		WEATHER: Clear	INSP. DATE:	INSP. TIME:
Monitoring			August 24, 2023	10:30
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERA	ΓION:
High Country Hard Rock, LLC			112c - Construction	Regular Operation
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:	
Normal I&E Program		Complete Bond	\$74,500.00	
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGE	NCY:
NA		None	None	
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DAT	Е:
Hunter Ridley			September 18, 2023	
	11 ,	N I.		
	Hunter	Kidley		
	1100000			

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM/POSSIBLE VIOLATION: Problem: The current mine plan needs to be updated and clarified pursuant to C.R.S. 34-32.5-112 (1)(c)(VI). The operator must provide sufficient information to describe or identify how the operator intends to conduct the operation.

CORRECTIVE ACTIONS: The operator shall submit a Technical Revision, with the required \$216 revision fee, to update and clarify the current approved mine plan to reflect existing and proposed activities by the corrective action date.

CORRECTIVE ACTION DUE DATE: 11/15/23

GENERAL INSPECTION TOPICS

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

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

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

OBSERVATIONS

The Williams/Illinois Gravel Pit was inspected by Hunter Ridley with the Division of Reclamation, Mining and Safety (Division) as part of the Division's monitoring inspection program. Josh Sibson with High Country Hard Rock, LLC was present during the inspection. The Williams/IL Pit is located approximately 17 miles south of Walden, CO off CR125. The site is a 112c operation permitted for 204.83 acres.

The permitted acreage is divided up into 35 stages of mining, each of which is on average around 5.5 acres. The permitted acreage also includes an 'Existing Permit Area' as labeled in the attached map. This area is approximately 10.5 acres and includes 9.9 acres of the site's original 110c permit which was converted to a 112c in 2014. Through SI2, the Williams/Illinois Gravel Pit has been bonded to cover disturbance of Stages 1-3 and the 'Existing Permit Area'. The Division should be given notification of intent to mine beyond Stage 3 before work begins in the next stage.

The site was not active at the time of inspection. This site crushes material approximately once per year and hauls product consistently throughout the year. An entrance sign was posted and permit boundary markers in the form of t-posts were observed as required by Rule 3.1.12 (Photo 1). A scale and scale house are located along the site's entrance road (Photo 13).

At the time of the last inspection in 2018, mining had progressed from the 'Existing Permit Area' into Stage 1. At the time of this inspection, mining had progressed further south into Stage 2. Pit depth was estimated at 10-16' depending on which section of the highwall is measured. About 5 acres of the 'Existing Permit Area' have been reclaimed to rangeland habitat as per the approved Reclamation Plan (Photos 8 and 9). These 4H:1V slopes were stable with no erosion features observed during the inspection. The Operator is reminded of the commitment laid out in the Reclamation Plan under Conversion 1 (CN1) in which the Operator will disturb no more than 14.98 acres at one time and reclaim each pit concurrently. Current disturbance at the site is approximately 25 acres and includes an entrance road and activity within the 'Existing Permit Area', Stage 1, and Stage 2 of mining. Since the site is currently bonded for the disturbance of more than 14.98 acres, the Division will not pursue enforcement action for mining outside the approved disturbance area at this time. **However, the Division will cite this as a problem for failure to follow the approved Mining Plan and**

require a Technical Revision to be submitted by the corrective action due date which amends the Mining Plan. The updated mining plan should include a new max disturbance acreage and a clarification of how reclamation will progress at the site.

Active highwalls are located to the south and east of the permit boundary (Photos 2, 3, and 4). Product stockpiles are located in various areas across the pit floor (Photos 4, 5, 6, 8, and 11). Overburden/topsoil stockpiles were located on the pit floor to the east, west, and south of the permit boundary (Photos 7, 10, and 12). Topsoil and overburden have never been segregated at this site due to limited distinction between the two in this area of rocky soil. Volunteer vegetation has stabilized these piles. The Operator stated that annual weeds are sprayed on an as needed basis. No noxious weeds were observed during this inspection.

The Division currently holds a financial warranty amount of, \$74,500.00 for this site. The bond was last updated post inspection in 2019. In an effort to ensure the Financial Warranty adequately reflects the actual current cost of fulfilling the requirements of the approved reclamation plan, the Division has updated the reclamation cost estimate. The Division has found the current bond to be **inadequate** for reclamation of the site. The updated required bond amount is \$93,905.00. This is an **increase of \$19,405.00**. A copy of staff calculations has been attached with this report. A notice of surety increase will be sent under separate cover.

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



PHOTOGRAPHS

Photo 1: Mine sign located at the site entrance.



Photo 2: View southeast of the active highwall in Stage 2.



Photo 3: View southwest of the active highwall in Stage 2.



Photo 4: View east of highwalls and product stockpiles.



Photo 5: Product stockpiles on the pit floor.



Photo 6: View north of stockpiles on the pit floor.



Photo 7: A topsoil/overburden pile to the east which has been stabilized by volunteer vegetation.



Photo 8: View north of the partially reclaimed areas of the 'Existing Permit Area' and a product stockpile.



Photo 9: View northwest of the partially reclaimed areas of the 'Existing Permit Area'.



Photo 10: View northwest of a topsoil/overburden pile and reclaimed slopes within the 'Existing Permit Acreage'.



Photo 11: Product stockpiles located in the northern portion of the pit.



Photo 12: View west of the entrance to the pit floor, a topsoil/overburden pile is situated to the north.



Photo 13: A scale and scale house are located along the access road.

Inspection Contact Address Josh Sibson High Country Hard Rock, LLC 45 6th St Unit 3 Steamboat Springs, CO 80487



COST SUMMARY WORK

William	s/Illinois Gravel F	Pit Per	rmit Action:	2023_Post Inspection	Permit/Job	o#: <u>M1997039</u>
PROJECT	IDENTIFICAT	<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	\$ \$
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

BULLDOZER WORK

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	NTIFICATIO	<u>N</u>				
Task #: 001		State:	Colorado		Abbreviation:	None
Date: $9/6/2$	2023	County:	Jackson		Filename:	001
	4:09 AM	· ·) ·				
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		
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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:	416.61 LCY/hr

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

Total job time:	19.60 Hours
Total job cost:	\$8,786

BULLDOZER WORK

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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
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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		
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Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct	ur: \$448.1 <u>ANTITIES</u> 15,950 1.000 15,950 LCY volume: swell factor: <u>DUCTION</u> ace: <u>2</u> production: <u>2</u> cy description: ent: <u>-10 %</u> e: <u>8,450 f</u> <u>1,600 l</u> <u>Top So</u> ection Factor	6 Division Cat Hand 80 feet 984.2 LCY Consol eet bs/LCY il	lbook /hr lidated stockp			
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 15,950 LCY volume: swell factor: <u>DUCTION</u> ace: production: cy description: ent:10 % e:1,600 1 Top So ection Factor rator Skill:	6 Division Cat Hand 80 feet 984.2 LCY Consol eet bs/LCY il	lbook /hr lidated stockp	<u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <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/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 15,950 LCY volume: swell factor: <u>DUCTION</u> ace: production: cy description: ent:10 % e:1,600 1 Top So 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:	755.47 LCY/hr

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

Total job time:	21.11 Hours
Total job cost:	\$9,462

REVEGETATION WORK

: Williams	s/Illinois Grave	e l Pit Pe	ermit Action:	2023_Post Inspection	Permit/Jol	b#: <u>M1997039</u>
PROJECT	IDENTIFIC	ATION				
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
					\$
		Totals	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	uay
			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 EL POWERE
	-	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 EL POWERE
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 EL POWEREI
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
-	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

BULLDOZER WORK

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	vuo 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: 1000: 10	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 ANTITIES 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 aux: \$1,600 aux: \$1,600	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 \$1,600 1	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:	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 desc	ription:	Revegetate 5.72	Acres - Stag	je 2		
ite: Willia	ns/Illinois Grave	e l Pit Pe	rmit Action:	2023_Post Inspection	Permit/Job	o#: <u>M1997039</u>
PROJEC	<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
					\$
		Totals	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			

BULLDOZER WORK

	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	- · · · · ·				
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: \$448.1					
Total Fleet Cost/Hou	ur: \$448.1 0 ANTITIES 6,090					
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor:	ur: \$448.1 0 ANTITIES <u>6,090</u> 1.000					
Total Fleet Cost/Hou MATERIAL QU. Initial Volume:	ur: \$448.1 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		
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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			
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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 l Pit Pe	ermit Action:	2023_Post Inspection	Permit/Jol	b#: <u>M1997039</u>
PROJECT	IDENTIFIC	ATION				
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			