

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M1998014, Gypsum Ranch Pit, March 2023 Inspection Report

Simmons - DNR, Leigh <leigh.simmons@state.co.us> Thu, Apr 20, 2023 at 12:28 PM To: "Burkey, Jason K (CRH Americas Materials)" <jason.burkey@na.crh.com>, "Bartuska, Tyra L (United Companies)" <tyra.bartuska@unitedco.com>

The report from the snowy March 23 inspection of the Gypsum Ranch Pit is attached.

Please note that action is required on your part.

Feel free to call or email with any questions.

Leigh Simmons Environmental Protection Specialist



COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203 leigh.simmons@state.co.us | https://drms.colorado.gov

M1998014_2023InspectionReportPacket.pdf 3021K



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:	
Gypsum Ranch Pit	M-1998-014	Sand and gravel	Eagle	
INSPECTION TYPE:	WEATHER: Clear	INSP. DATE:	INSP. TIME:	
Monitoring		March 23, 2023	09:00	
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:		
Oldcastle SW Group, Inc. dba	Scott Barney	112c - Construction Regular Operation		
United Companies of Mesa County				

REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program		Complete Bond	\$557,918.49
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA		None	None
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DATE:
Leigh Simmons		Afins.	April 19, 2023

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: Financial Warranty

PROBLEM/POSSIBLE VIOLATION: Problem: The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) of the Act. **CORRECTIVE ACTIONS:** Please review the attached Reclamation Cost Estimate and respond with comments within 30 days. After 30 days the Division will initiate a separate Surety Increase notice to increase the financial warranty. The operator will have 60 days from the date on the Surety Increase notice to post the additional financial warranty.

CORRECTIVE ACTION DUE DATE: 5/19/23

OBSERVATIONS

This inspection was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining and Safety (Division). The inspection was conducted by Leigh Simmons of the Division, and accompanied by Scott Barney of United Companies (a subsidiary company of the permitee).

The Gypsum Ranch Pit is a 112c operation with a total permit area of 155.57 acres, located about 1 mile east of Gypsum and 5 miles west of Eagle, with access off Hwy 6. The site was active at the time of the inspection.

The pre-mining land use of the site was General Agriculture, and the site will ultimately be reclaimed to General Agriculture. Per the most recent Annual Report, 145 acres are currently affected and 5 acres at the east end of the site have been backfilled, spread with 12" of topsoil, and seeded. No increase in either disturbed or reclaimed acres were anticipated in 2023. Mr. Barney stated that 60-70,000 tons of material are typically mined from the site annually, and that several hundred thousand tons of material remained to be mined.

The locations of photos taken during the inspection are shown on the screenshot of the field map.

Financial Warranty:

As is usual the Reclamation Cost Estimate (RCE) was re-evaluated following the inspection to ensure that Division continues to hold adequate financial warranty to reclaim the site. In this case no new tasks were added to the RCE, but tasks included in the most recent estimate (2017) were updated with 2023 unit costs, some deprecated equipment was updated, and some indirect costs that had been omitted from the original estimate were added. The total amount has increased significantly to \$1,101,545 (see Appendix 1).

Gen. Compliance with Mine Plan:

Mr. Barney indicated that United Companies may wish to retain the ready-mix concrete plant on-site following reclamation of the rest of the site. This is a change in reclamation plan and post-mining land use that would require an amendment to the permit. For now the approved reclamation plan describes the entire site being backfilled, topsoiled, seeded and reclaimed to a post-mining land use of "general agriculture".

Reclamation Success:

Snow cover at the site made an assessment of reclamation success impossible, however evidence of ongoing reclamation at the eastern end of the site was visible despite the snow.



Figure 1: Screenshot of field map (west)



Figure 2: Screenshot of field map (east)

PHOTOGRAPHS



Figure 3: Car is at final level of pit floor (a)



Figure 4: Reclamation in progress at east end of site (b)



Figure 5: Overview of eastern end of site, looking west (c)



Figure 6: Crushing and screening equipment (d)



Figure 7: Ready-mix concrete facility (e)



Figure 8: Mine ID sign (f)

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY PB	(RD) ROADS <u>N</u>
(HB) HYDROLOGIC BALANCE <u>N</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>Y</u>	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>N</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 <u>N</u>	(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

Inspection Contact Address

Scott Barney Oldcastle SW Group, Inc. dba United Companies of Mesa County 2273 River Road Grand Junction, CO 81502

Enclosure: Appendix 1 – 2023 Reclamation Cost Estimate Appendix 1: 2023 Reclamation Cost Estimate

COST SUMMARY WORK

Task description: Update			of Recla	mation Cost	Estimate				
Site:	Gypsum	Ranch Pit		Per	mit Action:	2023 Inspection	Permit/Jol	o#: <u>M1998014</u>	
<u>PI</u>		1DENTIFIC 000 4/14/2023 LDS		State: County:	Colorado Eagle		Abbreviation: Filename:	None 000-014	

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo/Disposal concrete batch plant and feeder bin	DEMOLISH	1	80.00	\$60,567
01b	Demo/disposal of site facilities	DEMOLISH	1	40.00	\$2,673
02a	Highwall slope reduction (Phase 1-4)	DOZER	2	174.12	\$91,861
02b	Transport backfill material	SCRAPER1	4	44.27	\$303,673
03a	Rip pit floor and access road	RIPPER	2	57.16	\$32,489
04a	Replace topsoil	SCRAPER1	4	15.57	\$106,807
05a	Distribute topsoil	DOZER	2	34.87	\$18,395
06a	Revegetate pit floor	REVEGE	1	80.00	\$202,720
06b	Revegetate slopes	REVEGE	1	40.00	\$31,795
07a	Mobilize/demobilize reclamation crew/equipment	MOBILIZE	1	3.14	\$7,385
		569.13	\$858,365		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$17,339
Performance bond:	1.05	Total =	\$9,013
Job superintendent:	284.57	Total =	\$21,379
Profit:	10.00	Total =	\$85,836
		TOTAL O & P =	\$133,568
		CONTRACT AMOUNT (direct + O & P) = $($	\$991,933

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

TOTAL BO	\$1,101,545		
	TOTA	L INDIRECT COST =	\$243,180
CONTINGENCY:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00		\$49,597
Engineering work and/or contract/bid preparation:	6.00	Total =	\$59,516
Financial warranty processing (legal/related costs):	\$500	Total =	\$500

DEMOLITION WORK

	Task description:	Demo/Disp	osal concrete ba	tch plant and feede	r bin	
Site:	Gypsum Ranch Pit		Permit Action:	2023 Inspection	Permit/.	lob#:M1998014
PROJE	CT IDENTIFICATION	N				
Task #:	: 01A	State:	Colorado		Abbreviation:	None
Dates	: 4/14/2023	County:	Eagle		Filename:	014-01a
User	: LDS					
	Agency or organizat	tion name:	DRMS			

Location adjustment: 102.20 %

UNIT COSTS

Structure or Item **Demolition Menu** Unit **Total Cost** Dimensions Quantity Unit Description Selection Cost 20' x 24' x 65'H Plant (3S) demo./off-site 31,200.00 Concrete batch plant CF \$0.77 \$24.024.00 disposal in approved landfill - Max. 15 mile haul Concrete batch plant 1.5'T x 4'H x Demo. and on-site 384.00 SF \$2.53 \$971.52 stem wall 64'L disposal in excavated pit, 12 in. thick - Max. 200 ft. push Concrete plant 20' x 24' (3) Demo. and on-site 1,440.00 SF \$1.61 \$2,321.28 pad/wash area disposal in excavated pit, 8 in. thick - Max. 200 ft. push Plant storage building Bldg. (SN) demo./off-22,400.00 CF \$0.36 40' x 40' x 14'H \$8,153.60 site disposal in approved landfill - Max. 15 mile haul Plant storage building 1'T x 6'H x Demo. and on-site SF \$2.53 756.00 \$1,912.68 stemwall 126'L disposal in excavated pit, 12 in. thick - Max. 200 ft. push OBSOLETE-Conveyor, Conveyer 192.5'L 192.50 LF \$44.51 \$8.567.98 elevated, including supports - 5 ft. W x 6 ft. H housing Demo. and on-site Lower feeder bin 1752.65 cf., 1,752.65 SF \$2.53 \$4,434.20 walls and dividers 14.5'H disposal in excavated pit, 12 in. thick - Max. 200 ft. push Upper feeder bin walls 3.5'H x 115'L Demo. and on-site 402.50 SF \$1.68 \$676.20 and dividers disposal in excavated pit, 8 in. thick - Max. 200 ft. push 80' x 60' x 8"T Demo. and on-site 4,800.00 SF \$1.61 Feeder bin pad \$7,737.60 disposal in excavated pit, 8 in. thick - Max. 200 ft. push Demo. and on-site Fuel storage facility 3'H x 96'L x 288.00 SF \$1.61 \$464.26 disposal in excavated pit, 8"T 8 in. thick - Max. 200 ft. push

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$59,263.32	location):	\$60,567.11

DEMOLITION WORK

Т	ask description:	Demo/disp	osal of site facili	ties		
Site:	Gypsum Ranch Pit		Permit Action:	2023 Inspection	Permit/.	Job#: <u>M1998014</u>
'ROJEC	T IDENTIFICATION	<u>1</u>				
Task #:	01B	State:	Colorado		Abbreviation:	None
Date:	4/14/2023	County:	Eagle		Filename:	014-01b
User:	LDS					

UNIT COSTS

Location adjustment: 102.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Office Trailer	8' x 10' x 40'	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	3,200.00	CF	\$0.36	\$1,164.80
Scale	60' x 10'	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 200 ft. push	600.00	SF	\$2.42	\$1,450.80

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	40.00	(unadjusted):	\$2,615.60	location):	\$2,673.14

BULLDOZER WORK

Task description:	Highwall slope reduction (Phase 1-4)					
Gypsum Ranch Pit]	Permit Action:	2023 Inspection	Permit/Job#:	M1998014	
PROJECT IDENTIFI	ICATION					
Task #: 02A Date: 4/14/2023 User: LDS	Stat	-		Abbreviation: Filename:	None 014-02a	
Agency or organ	nization name:	DRMS				
HOURLY EQUIPME	<u>ENT COST</u>					
	D8T - 8SU					
Horsepower: <u>310</u>						
	ni-Universal					
Attachment: NA						
	er day					
Data Source: (CR	(U)					
Cost Breakdown:						
			Utilization %			
Ownership Cost/Hour:		\$124.85	NA			
Operating Cost/Hour:		\$97.63	100	_		
Ripper own. Cost/Hour:		\$0.00	NA			
Ripper op. Cost/Hour:		\$0.00	0			
		\$41.30	NA			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$263.78 \$527.56	\$41.30	NA			
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u>	\$527.56 <u>TTIES</u>	\$41.30	NA			
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>219,9</u> Swell factor: <u>1.12</u> 4	\$527.56 TITIES 907 4		NA			
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9	\$527.56 TITIES 907 4 088 LCY					
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>219,9</u> Swell factor: <u>1.124</u> Loose volume: <u>247,9</u> Source of estimated volur	\$527.56 TTIES 907 4 088 LCY me:Obser	vations made du	Iring Oct. 2010 inspection	1		
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9	\$527.56 TTIES 907 4 088 LCY me:Obser			<u>n</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated swell	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H	vations made du		<u>1</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>219,9</u> Swell factor: <u>1.124</u> Loose volume: <u>247,9</u> Source of estimated volur	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H	vations made du		n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated swell	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H	vations made du		n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$527.56 TTIES 907 4 088 LCY me: Obser l factor: Cat H <u>CION</u> 50 feet	vations made du		<u>n</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	\$527.56 ITIES 907 4 088 LCY me: Obser 1 factor: Cat H FION 50 feet ction: 1,400.0	vations made du	 uring Oct. 2010 inspection 	n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,0 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H FION ction: 50 feet 1,400.0 scription: Cor	vations made du andbook	 uring Oct. 2010 inspection 	n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$527.56 ITIES 907 4 088 LCY me: Obser 1 factor: Cat H FION 50 feet ction: 1,400.0	vations made du andbook	 uring Oct. 2010 inspection 	<u>n</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,0 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient:	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H FION ction: 50 feet 1,400.0 0 scription: Cor -20 % 0	vations made du andbook LCY/hr npacted fill or en	 uring Oct. 2010 inspection 	n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H FION ction: 1,400.0 scription: Cor -20 % 6,400 feet	vations made du andbook LCY/hr npacted fill or en	 uring Oct. 2010 inspection 	n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H FION ction: 1,400.0 scription: Cor -20 % 6,400 feet 2,900 lbs/LCY Sand and grave Factor Factor	vations made du andbook	uring Oct. 2010 inspection	n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H CION ction: 50 feet 1,400.0 scription: Cor -20 % 6,400 feet 2,900 lbs/LCY Sand and grave Factor Skill:	vations made du andbook LCY/hr npacted fill or en el - Dry 0.750	uring Oct. 2010 inspection	n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H CION ction: 50 feet 1,400.0 50 scription: Cor -20 % 6,400 feet 2,900 lbs/LCY Sand and grave Factor Skill: ency:	vations made du andbook LCY/hr npacted fill or en 	uring Oct. 2010 inspection	n		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 219,9 Swell factor: 1.124 Loose volume: 247,9 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$527.56 TTIES 907 4 088 LCY me: Obser 1 factor: Cat H CION ction: 50 feet 1,400.0 50 scription: Cor -20 % 6,400 feet 2,900 lbs/LCY Sand and grave Factor Skill: ency:	vations made du andbook LCY/hr npacted fill or en el - Dry 0.750	uring Oct. 2010 inspection	n		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.426	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5068	
Adjusted unit production: 70	09.52 LCY/hr	
Adjusted fleet production: 14	19.04 LCY/hr	

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.372/LCY

Total job time:	174.12 Hours
Total job cost:	\$91,861

Page 1 of 2

SCRAPER TEAM WORK

	;	Permit	Action:	2023 Inspection	Perr	nit/Job#: <u>M1998</u>	8014
PROJECT IDENT	IFICATION						
		tata.	7 a la un da		A b b u =	vietiens News	
Task #: 02B Date: 4/14/202			Colorado Eagle			viation: <u>None</u> ename: 014-02	h
User: LDS			Jugie				0
Agency or or	ganization name:	DRM	S				
HOURLY EQUIPM	<u>MENT</u>			COSTSh	ift basis: <u>1 per d</u>	ay	
			Equipme	ent Description			
		craper:	Cat 657	G			
Gummont	- Equipment -Load	Dozer:	Cat D8 NA	Γ - 8SU			
Support	1 1	Area:	NA				
Road Main	tenance – Motor (NA				
	-Water	Truck:	NA				
Cost Breakdown:	Scraper Wor	k Toom		Support Equip	ment	Maintenance	Fauinment
<u>Cost Dreakdown</u> .	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water T
%Utilization-machine:	100		100	NA	NA	NA	
Ownership cost/hour:	\$429.70	\$	124.85	NA	NA	NA	
Operating cost/hour:	\$363.82		\$97.63	NA	NA	NA	
%Utilization-ripper:	NA		NA	NA	NA	NA	
Ripper own. cost/hour:	NA		\$0.00	NA	NA	NA	
Ripper op. cost/hour:	NA		\$0.00	NA	NA	NA	
Operator cost/hour:	\$30.90		\$41.30	NA	NA	NA	
Unit Subtotals:	\$824.42	\$	263.78	NA	NA	NA	
Number of Units:	8		1	0	0	0	
Group Subtotals:	Work:	\$6,85	9.14	Support:	\$0.00	Maint:	\$0.0
Total work team cost/h	nour: <u>\$6,859.14</u>						
MATERIAL QUAN	NTITIES						
Initial volume:	219,907		CCY	Swell facto	or: <u>1.124</u>		
Loose volume:	247,088		LCY				
	e of estimated vo			of Reclamation, N	Aining & Safety		
Source of	estimated swell f	actor:	Cat Hand	lbook			
HOURLY PRODU	CTION						
				Scraper Bo	wl (volume) Basi	<u>s:</u>	
Material weight:	2,900 lbs/LCY			Struck V	Volume: 32.00	L	CY
Material description:	Sand and gravel -	Dry		Heaped V	Volume: 44.00	L	CY
Rated Payload:	104,000 pounds			Average V	/olume: 38.00	L	CY
				U			

<u>1.00</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction

<u>0.60</u> Minutes

Job Condition Correction:

Site Altitude: 6400 feet

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

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

S	eg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1		500.00	0.00	5.00	5.00	2335	0.57

Haul Time: **0.57** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2888	0.39
				Return Time:	0.39	minutes
			Total Scrape	er team cycle time:	2.56	minutes
			Adjusted	for job conditions:	697.63	LCY/Hour
			Selected N	umber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit)	hourly production:	1,395.26	LCY/Hour
	Adjusted n	nultiple scrap	per team (fleet)	hourly production:	5,581.03	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB T	ME AND COST					

Unit cost: \$1.229 /LCY

Total job cost: ______\$303,673_____

BULLDOZER RIPPING WORK

Site: <u>Gypsum I</u> <u>PROJECT</u> Task #: <u>Date:</u> User: <u></u>	IDENTIFICATION	tion: 2023 Inspectio	<u> </u>	t/Job#: <u>M1</u>	
Task #: Date:					
Date:	Ntate: Color	rado	Abbrevia	ation: Non	٩
-	03AState:Color4/14/2023County:Eagle		Abbrevia Filen		
-	LDS	<u> </u>			000
Δσι	ency or organization name: DRMS				
•	EQUIPMENT COST				
	asic Machine: Cat D8T - 8SU		II.	210	
	Attachment: 3-Shank Ripper		Horsepower: Shift Basis:	310 1 per day	
Кірреі	Attachment. <u>5-Shank Ripper</u>		Data Source:	(CRG)	
Cost Preside				(end)	
Cost Breakdo	<u>own:</u>	1	Utilization %		
	Ownership Cost/Hour:	\$124.85	NA		
	Operating Cost/Hour:	\$97.63	100		
	Ripper Ownership Cost/Hour:		NA		
		\$7.30	100		
	· · · · · · · · · · · · · · · · · · ·	\$41.30	NA		
	Total Unit Cost/Hour:	\$284.18			
	Total Fleet Cost/Hour:	\$568.36			
MATERIA	L QUANTITIES	Selected estimating	method: Area		
Alternate Me	thods:		·		
smic: NA	Bank Volur	me: NA	BCY	NA	
Area: 78.00	acres Rip Depth (Volume: 125,8		BCY or
		· · ·			
	Source of estimated quantity: <u>A</u>	innual report			
HOURLY	PRODUCTION				
Seismic:					
	Seismic Velocity:	NA	feet/second		
Area:					
	Average Ripping Depth:	2.56	feet/pass		
	Average Ripping Width:	7.08	feet/pass		
	Average Ripping Length:	500.00	feet/pass		
	Average Dozer Speed:	88.00	feet/minute		
	Average Maneuver Time:	0.25	minutes/pas	S	
	Production per unit area:	0.822	acres/hour		
Job Conditio	n Correction Factors				
	Unadjusted Hourly Unit Production:	0.822	Acres/hr		
	Site Altitude:	6,400	feet		
	Altitude Adj:	1.00	(CAT HB)		
	Job Efficiency:	0.83	(1 shift/day)	I	
	Net Correction:	0.83	multiplier		
	Adjusted Hourly Unit Produc		Acres/hr		
	Adjusted Hourly Fleet Produc	etion: 1.36	Acres/hr		
JOB TIME	AND COST				
JOB TIME Fleet size		Total job tim	ne: 57.16	<u>í</u>	Hours

Page 1 of 2

SCRAPER TEAM WORK

Site: Gypsum Ranch Pi	<u>t</u>	Permit Action:	2023 Inspection	Permit/.	Job#: <u>M1998</u>	3014
PROJECT IDENT	<u>'IFICATION</u>					
Task #:04A		tate: Colorado		Abbreviati		
Date: $\frac{4}{14}/20$	<u>23</u> Cot	unty: Eagle		Filena	me: 014-04a	1
User: LDS						
Agency or o	rganization name:	DRMS				
HOURLY EQUIP	MENT		COSTS	hift basis: <u>1 per day</u>		
			ent Description			
		craper: Cat 657				
Suppor	- t Equipment -Load	Dozer: Cat D8 d Area: NA	1 - 880			
Suppor	1 1	p Area: NA				
Road Mai	ntenance – Motor C					
	-Water	Truck: NA				
Cost Breakdown:	Scraper Wor	·k Team	Support Equi	oment	Maintenance	Equipmer
	Scraper	Dozer	Load Area		lotor Grader	Water '
%Utilization-machine:	100	100	NA	NA	NA	
Ownership cost/hour:	\$429.70	\$124.85	NA	NA	NA	
Operating cost/hour:	\$363.82	\$97.63	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	
Operator cost/hour:	\$30.90	\$41.30	NA	NA	NA	
Unit Subtotals:	\$824.42	\$263.78	NA	NA	NA	
Number of Units:	8	1	0	0	0	
Group Subtotals:	Work:	\$6,859.14	Support:	\$0.00	Maint:	\$0.0
Total work team cost/	hour: \$6,859.14					
MATERIAL QUA	NTITIES					
Initial volume:	83,893	CCY	Swell fact	or: 1.000		
Loose volume:	83,893	LCY			-	
Sour	ce of estimated vo	lume: 78 ac. at	8" depth			
Source o	f estimated swell f					
HOURLY PRODU	JCTION					
	<u> </u>		Scraper Bo	owl (volume) Basis:		
Material weight:	1,600 lbs/LCY			Volume: 32.00	L	CY
Material description:	Top Soil		Heaped			CY
Rated Payload:	104,000 pounds		Average		I (CY

<u>1.00</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

<u>0.60</u> Minutes

Site Altitude: 6400 feet

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

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	5.00	5.00	2335	0.65

Haul Time: **0.65** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	5.00	5.00	2888	0.56
				Return Time:	0.56	minutes
			Total Scrape	r team cycle time:	2.81	minutes
			Adjusted	for job conditions:	673.45	LCY/Hour
			Selected Nu	imber of Scrapers:	2	Scraper(s)
	Adjuste	d single scra	per team (unit) l	nourly production:	1,346.90	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet) l	nourly production:	5,387.62	LCY/Hour
Optima	Unadjusted unit proo I Number of Scrapers pe			LCY/Hour		
JOB TI	ME AND COST					
Fleet	t size: 4	Team(s)	Т	otal job time:	15.57	Hours

Unit cost: \$1.273 /LCY

Total job cost: \$106,807

BULLDOZER WORK

Task description:	Distribute topsoil			
Gypsum Ranch Pit	Permit Action:	2023 Inspection	Permit/Job#:	M1998014
PROJECT IDENTIFI	CATION			
Task #: 05A	State: Colorado		Abbreviation:	None
Date: <u>4/14/2023</u>	County: Eagle		Filename:	014-05a
User: LDS				
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
	D8T - 8SU			
Horsepower: <u>310</u>				
51	i-Universal			
Attachment: NA Shift Basis: 1 pe	# dox:			
Data Source: (CR	r day			
Data Source: (CR	6)			
Cost Breakdown:		I		
	* • • • • •	Utilization %		
Ownership Cost/Hour:	\$124.85	NA		
Operating Cost/Hour:	\$97.63	100		
	\$0.00 \$0.00	<u>NA</u>		
Ripper own. Cost/Hour:		0		
Ripper op. Cost/Hour:		NA		
	\$263.78 \$527.56	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$41.30 \$263.78 \$527.56	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:83,89	\$41.30 \$263.78 \$527.56 <u>ITIES</u> 3	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: <u>83,89</u> Swell factor: 1.000	\$41.30 \$263.78 \$527.56 (THES) (3)	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89	\$41.30 \$263.78 \$527.56 <u>ITIES</u> <u>3</u> <u>3</u> LCY	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum	\$41.30 \$263.78 \$527.56 (TTIES)3)3)3)3)3)2)3)2)2)2)2)2)2)2)2)2)2	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89	\$41.30 \$263.78 \$527.56 (TTIES)3)3)3)3)3)3)3)3)3)3	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell	\$41.30 \$263.78 \$527.56 TTIES 3 3 LCY he: 78 ac. at 8" depth factor: 78 ac. at 8" depth	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell HOURLY PRODUCT	\$41.30 \$263.78 \$527.56 ITIES 3 3 LCY he: 78 ac. at 8" depth factor: 78 ac. at 8" depth Cat Handbook ION	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell	\$41.30 \$263.78 \$527.56 ITIES 3 3 LCY he: 78 ac. at 8" depth factor: 78 ac. at 8" depth Cat Handbook ION 50 feet	NA		
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$41.30 \$263.78 \$527.56 (TIES 93 93 93 93 93 93 93 93 93 93			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average push gradient:	\$41.30 \$263.78 \$527.56 (THES 3 3 3 3 3 3 3 3 3 3 3 3 3			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc	\$41.30 \$263.78 \$527.56 ITIES 3 3 3 3 3 3 3 3 3 3 3 3 3			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	\$41.30 \$263.78 \$527.56 (THES 3 3 3 3 3 3 3 3 3 3 3 3 3			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc: Materials consistency desc Average push gradient: Average site altitude: Material weight:	\$41.30 \$263.78 \$527.56 ITIES 93 93 93 93 93 93 93 93 93 93			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average push gradient: Average site altitude:	\$41.30 \$263.78 \$527.56 ITIES 93 93 93 93 93 93 93 93 93 93			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$41.30 \$263.78 \$527.56 <u>(THES</u> <u>3</u> <u>3</u> <u>3</u> <u>3</u> <u>50</u> <u>50</u> factor: <u>78</u> ac. at 8" depth factor: <u>78</u> ac. at 8" depth factor: <u>Cat Handbook</u> <u>10N</u> <u>50</u> feet <u>1,400.0 LCY/hr</u> cription: <u>Loose stockpile 1.2</u> <u>0</u> % <u>6,400 feet</u> <u>1,600 lbs/LCY</u> <u>Top Soil</u> <u>Factor</u> kill: <u>0.750</u>			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consiste	\$41.30 \$263.78 \$527.56 ITIES 3 3 3 3 3 3 3 3 3 3 3 3 3			
Ripper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 83,89 Swell factor: 1.000 Loose volume: 83,89 Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency desc Average site altitude: Material weight: Weight description: Job Condition Correction	\$41.30 \$263.78 \$527.56 ITIES 3 3 3 3 3 3 3 3 3 3 3 3 3			

cy: 0.830	(1 SHIFT/DAY)
le: 0.800	(FND-RF)
nt: 1.000	(CAT HB)
le: 1.000	(CAT HB)
ht: 1.438	(CAT HB)
be: 1.000	(PAT)
on: 0.8593	
1,203.02 LCY/hr	
2406.04 LCY/hr	
	le: 0.800 nt: 1.000 le: 1.000 ht: 1.438 pe: 1.000 on: 0.8593 1,203.02 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.219/LCY

Total job time:	34.87 Hours
Total job cost:	\$18,395

REVEGETATION WORK

Task descrip	otion:	Revegetate pit floor			
Site: Gypsum	Ranch Pit	Permit Action:	2023 Inspection	Permit/Job	#: M1998014
	IDENTIFIC				
Task #:	06A	State: Colorado		Abbreviation:	None
Date:	4/14/2023	County: Eagle		Filename:	014-06a
User:	LDS				
Age	ency or organi	zation name: DRMS			

FERTILIZING

Materials

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

Application

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

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$98.43
Weed control spraying (MEANS 31 31 16.13 3100)		\$290.40
	Total Tilling Cost/Acre	\$388.83

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Meadow Brome - Regar	10.00	9.18	\$39.75
Orchardgrass - Potomac	4.00	49.59	\$17.06
Alfalfa - Ladak (inoculated)	3.00	14.46	\$7.65
Red Clover - Medium	2.00	12.40	\$26.65
Ryegrass, Perennial - Zero Nui	4.00	22.68	\$7.20
Timothy - Climax	1.00	28.70	\$1.60
Totals Seed Mix	24.00	137.01	\$99.91

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	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	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
1	Total Mulch Application Cost/Acre	\$135.72

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	95	Cost /Acre:	\$1,707.12
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,707.12
*Selected Replanti	ng Work Items:	TILLING,SEEDIN	G,MULCHING	
Initial Job Cost:	\$162,176.40			
Reseeding Job Cost:	\$40,544.10			
Total Job Cost:	\$202,720			
Job Hours:	80.00			

REVEGETATION WORK

Task desc	ription:	Revegetate slopes			
Site: Gypsu	n Ranch Pit	Permit Action:	2023 Inspection	Permit/Job	#: M1998014
PROJEC	<u>r identific</u>	CATION			
Task #	: 06B	State: Colorado		Abbreviation:	None
Date	: 4/14/2023	County: Eagle		Filename:	014-06b
User	LDS				
	gency or organi	zation name: DRMS			

FERTILIZING

Materials

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

Application

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

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$98.43
Weed control spraying (MEANS 31 31 16.13 3100)		\$290.40
	Total Tilling Cost/Acre	\$388.83

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.25	0.31	\$17.55
Bitterbrush, Antelope	0.13	0.04	\$2.44
Indian Ricegrass - Native	1.00	3.24	\$6.50
Creeping Red Fescue - Cindy	2.00	25.25	\$3.80
Bottlebrush Squirreltail	1.00	4.41	\$16.23
Sandberg Bluegrass - VNS	2.00	42.47	\$16.80
Idaho Fescue	2.00	25.25	\$18.95
Holly or Oregon Grape	0.25	0.31	\$43.88
Lupine, Silver	0.25	0.15	\$17.49

Slender Wheatgrass - Native	4.00	14.60	\$18.50
Rabbitbrush, Rubber	0.13	1.86	\$8.04
Western Wheatgrass - Native	4.00	10.10	\$24.00
Needlegrass, Green - Lodorm	2.00	8.31	\$23.55
Rose, Wood's	0.25	0.00	\$5.13
Sage, Fringed	0.06	5.22	\$2.56
Sagebrush, Mountain or Big	0.13	6.60	\$2.47
Prairie Junegrass	1.00	53.15	\$26.00
Globemallow, Scarlet (or copper)	0.25	2.83	\$33.88
Sulphur Flower (or Buckwheat)	0.25	0.52	\$32.25
Yarrow, Western	0.01	0.76	\$0.52
Totals Seed Mix	20.95	205.39	\$320.53

Application

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$850.66

Application

Description	Cost /Acre	
Crimping, with tractor {DMG survey data}	\$73.00	
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72	
Total M	ulch Application Cost/Acre \$135.72	

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	15	Cost /Acre:	\$1,695.74
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,695.74
*Selected Replanti	ng Work Items:	TILLING,SEEDIN	IG,MULCHING	
Initial Job Cost:	\$25,436.10			
Reseeding Job Cost:	\$6,359.03			

Total Job Cost:	\$31,795
Job Hours:	40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: <u>Mo</u>	bilize/demobilize	reclamation cr	ew/equipr	nent		
ite: _ Gypsum Ranch Pit		Permit	Permit Action: 2023 Inspection Permit/Job#:			Permit/Job#: <u>N</u>	11998014
PROJECT IDE	ENTIFICATI	ON					
Task #: 07 Date: 4/2 User: LI	14/2023		olorado gle			eviation: <u>None</u> ilename: <u>M01</u>	e 4-07a
Agency	or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	<u>T RIG COST</u>					
				C	Shift ba Cost Data Sou		
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	DR, 6X4, DIESE 2006)	L POWERED,
True	ck Trailer Desc	ription: G			SENECK, DI (25T, 50T, A)	ROP DECK EQU	JIPMENT
Cost Breakdown:					(201,001,11		
Available Rig (Capacities	0-25 Tons	26-50 Tons	51+	Tons		
	p Cost/Hour:	\$15.25	\$23.06	\$3	37.58		
Operating Cost/Hour: \$25		\$25.26	\$30.83	\$5	51.41		
Operator Cost/Hour: \$27.71		\$27.71	\$27.71	\$2	7.71		
Helper Cost/Hour: \$0.00		\$0.00	\$20.22		20.22		
Total Un	it Cost/Hour:	\$68.22	\$101.82	\$1	36.92		
NON ROADAH	BLE EQUIP	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t	2.2.0	fleet		
Cat D8T - 8SU	53.08	\$137.95	\$136.92	2	\$549.74	\$273.84	\$500.00
Cat 657G	78.88	\$429.70	\$136.92	2	\$1,133.24	\$273.84	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00

Subtotals: \$1,757.45 \$615.90 \$1,250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$24.30	1	\$24.30	\$24.30
	\$24.30	\$24.30		

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	EAGLE 10.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$7,371.10	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$13.89	

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours):	Non- Roadable Equipment 0.29 0.29	Roadable Equipment 0.29 0.29
Loading Time (Hours):	0.29	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.57	0.57

JOB TIME AND COST

Total job time: 3.14 Hours

Total job cost: **\$7,385**