

1313 Sherman Street, Room 215 Denver, CO 80203

July 13, 2021

Jason Burkey Oldcastle SW Group, Inc. dba United Companies of Mesa County 2273 River Road Grand Junction, CO 81505

RE: Berry Pit, Permit No. M-1979-132, Reclamation Cost Estimate

Dear Mr. Burkey:

This reclamation cost update was in response to the site inspection conducted on May 25, 2021. There have been no surety increases since SI-6 in 2017. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated since the SI-6 calculation. A revised Exhibit L was found and is attached, this bond calculation is based on that worst case scenario in the approved reclamation permit. This table does not account for price changes resulting from inflation or other RS Means cost changes. It is noted that over the past few years the Division has had several significant cost changes that needed to be accounted for resulting in increased cost.

Task	Form Used	Change	Description
01a	Dozer	-	Previously 16,500 CY changed to 14,500 CY
02a	Scraper	-	Previously 4.1ac @ 6,614 CY changed to 3.4 ac @ 5,485 CY
03a	Scraper	-	Previously 9,921 CY changed to 8,228
04a	Scraper	+	Previously 8,000 CY Changed to 48,000 CY
05a	Scraper	-	Previously 6,400 CY changed to 4,000 CY
06a	Dozer	+	Previously 6,400 CY changed to 39,200 CY



07a	Reveg	+	Previously 44.8 ac @ 40 hrs changed to 49.45 ac @ 60 hrs
Indirect	Costs	No changes	

The updated reclamation cost estimate is a total of \$293,049 which is a \$106,899.47 increase over the currently held bond amount of 186,149.53. The Division acknowledges that this is a significant increase. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted. If no comments are received by Monday, August 23, 2021 than it is the Divisions understanding that the operator has no objections to the bond calculated on July 13, 2021 for the amount of \$293,049 according the <u>current</u> permit conditions. At that time a Notice for Surety Increase will be issued for the above amount as required by the Act and Rules.

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

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Berry Pi	t	Per	rmit Action:	2021	Permit/Job	o#: <u>M1977132</u>
ROJECT	IDENTIFICAT	<u>FION</u>				
Task #:	ACY	State:	Colorado		Abbreviation:	None
Date:	7/13/2021	County:	Rio Blanco		Filename:	M132-ACY
User:	ACY					

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade two new lease area strips to final grade	DOZER	1	54.26	\$12,827
02a	Replace overburden over 3.4 acres at 1' depth	SCRAPER1	1	4.84	\$8,951
03a	Replace topsoil from stockpile C on regraded strip	SCRAPER1	1	7.69	\$14,685
04a	Regrade old lease area	DOZER	1	147.98	\$38,699
05a	Regrade sediment pond	DOZER	1	15.30	\$4,002
06a	Regrade protection berm topsoil	DOZER	1	166.11	\$43,443
07a	Revegetation	REVEGE	1	60.00	\$88,559
08a	Mobilization	MOBILIZE	1	6.00	\$12,634
08b	Secondary Mobilization	MOBILIZE	1	6.00	\$1,994
		<u>SUBTO</u>	TALS:	468.18	\$225,794

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$4,561
Performance bond:	1.05	Total =	\$2,371
Job superintendent:	234.09	Total =	\$16,862
Profit:	10.00	Total =	\$22,579
		TOTAL O & P =	\$46,373
		CONTRACT AMOUNT (direct + O & P) = $($	\$272,167

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

\$500	Total =	\$500			
0.00	Total =	\$0			
5.00		\$13,608			
3.00	Total =	\$6,774			
TOTAL II	NDIRECT COST =	\$67,255			
ND AMOUNT (d	lirect + indirect) =	\$293,049			
	\$500 0.00 5.00 3.00 TOTAL IN ND AMOUNT (d	$\frac{\$500}{0.00}$ $\frac{1}{5.00}$ 3.00 $Total = 1$			

Task # 01A

Page 1 of 2

BULLDOZER WORK

rush description.					
Berry Pit	Per	mit Action:	2021	Permit/Job#:	M1977132
PROJECT IDENTIF	<u>TCATION</u>				
Task #· 01A	State:	Colorado		Abbreviation.	None
Date: $7/13/2021$	County:	Rio Blanco)	Filename	M132-01a
User: ACY	County.	Telo Dialec	,	-	11152 014
Agency or orga	unization name: DF	RMS			
	FNT COST				
Dui Muliut G					
Horsepower: 31	0 0				
Blade Type: Se	mi-Universal				
Attachment: N/	A				
Shift Basis: 1 r	ber dav				
Data Source: (C	RG)				
Cost Desci-large	,				
Cost Breakdown:		1	Litilization 0/		
Ownership Cost/Hour		\$97.46	$\frac{000020000\%}{N\Delta}$		
Operating Cost/Hour:		\$97.40	100		
Ripper own Cost/Hour:		\$0.00	NA		
Dinner on Cost/Hours		\$0.00	0		
KIDDEF OD. UOSI/HOUP			0		
Total unit Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL OUAN	\$236.39 \$236.39 FITIES	\$41.30	0NA		
Matterial unit Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5	\$236.39 \$236.39 \$236.39	\$41.30	NA		
Matterial Volume: 1000 Matterial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8	\$236.39 \$236.39 FITIES 500 90 305 LCY	\$41.30	NA		
Matterial unit Cost/Hour: Total unit Cost/Hour: Total Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8	\$236.39 \$236.39 \$236.39 <u>FITIES</u> 500 90 305 LCY where AM 1 Exp	\$0.00 \$41.30	0NA		
Matterial Volume: 1000000000000000000000000000000000000	\$236.39 \$236.39 FITIES 500 90 805 LCY Ime: <u>AM-1 Ex</u> 11 factor: Cat Hand	\$0.00 \$41.30 	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel	\$236.39 \$236.39 FITIES 500 500 500 500 500 500 500 50	\$0.00 \$41.30 	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUCC	\$236.39 \$236.39 \$236.39 EITIES 500 500 500 500 500 500 500 50	\$0.00 \$41.30 	0		
Matterial unit Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Matterial Volume: 14,2 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance:	\$236.39 \$236.39 FITIES 500 500 500 500 500 500 500 50	\$0.00 \$41.30 	NA		
Matterial unit Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: Matterial Volume: Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUC! Average push distance: Unadjusted hourly produ	\$236.39 \$236.39 FITIES 500 500 500 500 500 500 500 50	\$41.30 \$41.30 	UNA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,6 Source of estimated volu Source of estimated swel HOURLY PRODUC' Average push distance: Unadjusted hourly produ Materials consistency de	\$236.39 \$236.39 \$236.39 EITIES 500 500 500 500 500 500 500 50	\$41.30 \$41.30 	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient:	$\frac{\$236.39}{\$236.39}$ $\overline{\textbf{FITIES}}$ 500 305 LCY $\frac{\text{AM-1 Ex}}{\text{Cat Hand}}$ $\overline{\textbf{TION}}$ $\overline{\textbf{TION}}$ $\frac{150 \text{ feet}}{634.3 \text{ LCY}}$ $\text{scription: Partly of a construction}$	\$41.30 \$41.30 	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUC! Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude:	\$236.39 \$236.39 \$236.39 FITIES 500 90 805 LCY ume: AM-1 Ex 11 factor: Cat Hand TION action: 634.3 LCY/ scription: Partly of 0 % 6,350 feet	\$41.30 \$41.30 \$41.30	 		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Material weight:	$ \begin{array}{c} $	\$41.30 \$41.30 \$41.30			
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUCC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$41.30 \$41.30 \$41.30			
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average site altitude: Material weight: Weight description: Job Condition Correction	\$236.39 \$236.39 \$236.39 FITIES 500 90 805 LCY time: <u>AM-1 Ex</u> 150 feet Cat Hand TION 150 feet 634.3 LCY/ scription: <u>Partly of</u> 6,350 feet 2,400 lbs/LCY Clay and gravel - I <u>h Factor</u>	\$41.30 \$41.30 \$41.30 	NA		
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,8 Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average site altitude: Material weight: Weight description: Job Condition Correction	$\begin{array}{c} \$236.39\\ \$236.39\\ \hline \$236.39\\ \hline \$236.39\\ \hline \blacksquare\\ \$2000\\ \hline \blacksquare\\ \$000\\ \hline \blacksquare\\ $	\$41.30 \$41.30 \$41.30 			
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,6 Source of estimated volu Source of estimated swel HOURLY PRODUC' Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$41.30 \$41.30 \$41.30 			
Kipper op. Cost/Hour: Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 14,5 Swell factor: 1.09 Loose volume: 15,6 Source of estimated volu Source of estimated swel HOURLY PRODUC Average push distance: Unadjusted hourly produ Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator Material consist Dozing me	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$41.30 \$41.30 \$41.30 			

Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.700	(FND-MF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	de: 1.000	(CAT HB)
Material Weig	ht: 0.958	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.4592	
Adjusted unit production:	291.27 LCY/hr	
Adjusted fleet production:	291.27 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.812/LCY

54.26 Hours
\$12,827

SCRAPER TEAM WORK

Site: Berry Pit		Permit Action:	2021	Permi	it/Job#: <u>M1977</u>	7132
PROJECT IDEN	TIFICATION					
Task #: 02A	St	ate: Colorado		Abbrevi	ation: None	
Date: 7/13/2	021 Cou	nty: Rio Blance	0	Filer	name: M132-0)2a
User: <u>ACY</u>						
Agency or	organization name:	DRMS				
HOURLY EQUI	PMENT		COSTS	nift basis: <u>1 per day</u>	Z	
		Equipme	nt Description			
	-Sc	eraper: Cat 637	G w/push-pull			
	- <u>I</u>	Dozer: Cat D87	<u>Γ - 8SU</u>			
Suppo	rt Equipment -Load -Dump	Area: Cat D8 Area: Cat D8	Γ - 8SU Γ - 8SU			
Road Ma	aintenance – Motor G	rader: CAT 14	M			
	-Water	Fruck: Water T	anker, 7,000 Gal.			
Cost Breakdown:	Scraper Worl	x Team	Support Equir	oment	Maintenance	Equipmen
<u>cost providenti</u>	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water 7
%Utilization-machine:	100	100	100	50	100	
Ownership cost/hour:	\$223.48	\$97.46	\$97.46	\$97.46	\$85.80	•
Operating cost/hour:	\$193.77	\$97.63	\$97.63	\$48.82	\$60.40	\$
%Utilization-ripper:	NA	NA	100	NA	NA	
Ripper own. cost/hour:	NA	\$0.00	\$15.19	\$0.00	\$0.00	
Ripper op. cost/hour:	NA	\$0.00	\$9.94	\$0.00	\$0.00	
Operator cost/hour:	\$30.90	\$41.30	\$41.30	\$41.30	\$28.56	
Unit Subtotals:	\$448.15	\$236.39	\$261.52	\$187.58	\$174.76	9
Number of Units:	2	1	1	1	1	
Group Subtotals:	Work:	\$1,132.69	Support:	\$449.10	Maint:	\$266
Total work team cos	t/hour: <u>\$1,848.05</u>					
MATERIAL QUA	ANTITIES					
Initial volume:	5,485	CCY	Swell fact	or: 1.090		
Loose volume:	5,979	LCY				
Sou	rce of estimated vol	ume: AM-1 Ex	hibit L			
Source	of estimated swell fa	ctor: Cat Hand	lbook			
HOURLY PROD	UCTION					
			Scraper Ro	wl (volume) Rasie		
			beraper De	mi (vorunic) Dasis.	<u>.</u>	
Motoriali-14	2 400 lbs/I CV		C+1 X	Volume: 24.00	т /	γV
Material weight: Material description:	2,400 lbs/LCY	Drv	Struck V Heaped V	Volume: 24.00 Volume: 34.00	L0	CY
Material weight: Material description: Rated Payload:	2,400 lbs/LCY Clay and gravel - 1 81,600 pounds	Dry	Struck V Heaped V Average V	Volume: 24.00 Volume: 34.00 Volume: 29.00	L0 L0 L0	CY CY CY

<u>1.00</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6350 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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	1.50	3.00	4.50	2394	0.45

Haul Time: **0.45** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity (fpm)	Travel Time
		(%)	(%)	(%)		(min)
1	500.00	-1.50	3.00	1.50	2960	0.29
				Return Time:	0.29	minutes
			Total Scraper	team cycle time:	2.34	minutes
			Adjusted for	or job conditions:	1,234.36	LCY/Hour
			Selected Nur	nber of Scrapers:	2	Scraper(s)
	Adjusted	l single scrap	oer team (unit) he	ourly production:	1,234.36	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet) he	ourly production:	1,234.36	LCY/Hour
Optimal	Unadjusted unit prod Number of Scrapers pe	luction/hour r push dozer	1,487.18	LCY/Hour		
JOB TI	ME AND COST					
Fleet	size: 1	Team(s)	Тс	otal job time:	4.84	Hours

Unit cost: \$1.497 /LCY

Total job cost: ______\$8,951_____

Page 1 of 2

SCRAPER TEAM WORK

Site: Berry Pit	H	Permit Ac	tion: <u>20</u>	21	Pern	nit/Job#: <u>M19</u>	977132
PROJECT IDENT	TIFICATION						
Task #: 03A	State	e: Colo	orado		Abbrev	riation: None	2
Date: 7/13/20	21 County	: Rio	Blanco		File	ename: M13	2-03a
User: ACY							
Agency or o	rganization name:	DRMS					
HOURLY EQUIP	MENT			COSTS	hift basis: <u>1 per da</u>	<u>iy</u>	
	S arro	Eq	uipment E	Description			
	-Scra	per: Ca	at 63/G W	//pusn-pull			
Suppor	rt Equipment -Load A	rea: Ca	at D8T - 8 at D8T - 8	SU			
~ sppo.	-Dump A	rea: Ca	at D8T - 8	SU			
Road Mai	intenance – Motor Gra	der: C.	AT 14M				
	-Water Tri	uck: W	ater Tank	er, 7,000 Gal	•		
Cost Prookdown	Saranar Work 7			Support Equi	amont	Maintanan	o Equinmon
Cost Dreakdown:	Scraper work I	Dozer	,	oad Area	Dump Area	Motor Grader	· Water 7
0/ I 14:1:	100			100	100	100	2
%Utilization-machine:	100		100	007.46	100	100	
Ownership cost/hour:	\$223.48	\$97	.46	\$97.46	\$97.46	\$85.80	
Operating cost/hour:	\$193.77	\$97	.63	\$97.63	\$97.63	\$60.40) \$
% Utilization-ripper:	NA	1	NA	NA	NA	NA	1
Ripper own. cost/hour:	NA	\$0	.00	\$0.00	\$0.00	\$0.00)
Ripper op. cost/hour:	NA	\$0	.00	\$0.00	\$0.00	\$0.00)
Operator cost/hour:	\$30.90	\$41	.30	\$41.30	\$41.30	\$28.56	5
Unit Subtotals:	\$448.15	\$236	.39	\$236.39	\$236.39	\$174.76	5 \$1
Number of Units:	2		1	1	1	1	1
Group Subtotals:	Work:	\$1,132.69	9	Support:	\$472.78	Maint	: \$303
Total work team cost.	/hour: \$1,909.34						
MATERIAL QUA	NTITIES						
Initial volume:	8,228	CC	Y	Swell fact	tor: <u>1.000</u>		
Loose volume:	8,228	LC	Y				
Source of	rce of estimated volun of estimated swell fact	ne: <u>AN</u> or: Cat	1-1 Exhibi Handboo	it L Jk			
HOURLY PROD	TCTION						
<u>moondring</u>				Scraper R	owl (volume) Resi	ç.	
				<u>Scraper D</u>		<u>.</u>	
Material weight:	1,600 lbs/LCY			Struck	Volume: 24.00		
Rated Pavload	81 600 pounds			Average	Volume: 34.00		LCY
Naturi avitati.	VIANNY DUNING			11101020	1 JULINO. 27.00		

<u>1.00</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6350 feet

Scraper	Push Dozer	Source
1.000	1.000	(CAT HB)
0.830	0.830	(CAT HB)
0.820	0.820	
	Scraper 1.000 0.830	Scraper Push Dozer 1.000 1.000 0.830 0.830

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1100.00	-5.00	3.00	-2.00	2972	0.44

Haul Time: **0.44** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity (fpm)	Travel Time
		(%)	(%)	(%)		(11111)
1	1100.00	5.00	3.00	8.00	1931	0.66
				Return Time:	0.66	minutes
			Total Scraper	team cycle time:	2.70	minutes
			Adjusted f	or job conditions:	1,069.78	LCY/Hour
			Selected Nur	mber of Scrapers:	2	Scraper(s)
	Adjusted	l single scrap	per team (unit) h	ourly production:	1,069.78	LCY/Hour
	Adjusted m	ultiple scrap	er team (fleet) h	ourly production:	1,069.78	LCY/Hour
Optimal	Unadjusted unit prod Number of Scrapers pe	duction/hour: r push dozer:	1,288.89	LCY/Hour		
JOB TH	ME AND COST					
<u></u>						
Fleet	size: 1	Team(s)	То	otal job time:	7.69	Hours

Unit cost: _____\$1.785 /LCY

Total job cost: \$14,685

Page 1 of 2

BULLDOZER WORK

	8		c ul cu			
Berry Pit		Perr	mit Action:	2021	Permit/Job#:	M1977132
PROJECT IDE	NTIFICATI	<u>ON</u>				
Task #: 04A		State:	Colorado		Abbreviation:	None
Date: 7/13/	2021	County:	Rio Blanco	0	Filename:	M132-04a
User: ACY						
Agency o	r organization	name: DR	RMS			
HOURLY EOU	IPMENT CO	OST				
Basic Machine:	Cat D8T -	8SU				
Horsepower:	310					
Blade Type:	Semi-Univ	ersal				
Attachment:	3-shank rip	per				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
	T		07 46	<u>Utilization %</u>		
Ownership Cost/H	lour:		\$97.46	NA		
Operating Cost/F	lour:		\$97.63	100		
Ripper own. Cost/I	lour:		\$15.19	100		
Cost/I	10ul.		\$9.94	100		
Operator Cost/r	10ur:		\$41.50	NA		
I OTAL FIERT COST/H	our: <u>\$261.</u>	.52				
MATERIAL OL Initial Volume: Swell factor:	Sur: \$261. JANTITIES 48,000 1.090 52,220 J GW	.52				
MATERIAL QU Initial Volume: Swell factor: Loose volume:	\$261. JANTITIES 48,000 1.090 52,320 LCY					
MATERIAL OI Initial Volume: Swell factor: Loose volume: Source of estimated	Dur: <u>\$261.</u> JANTITIES 48,000 1.090 52,320 LCY d volume:	<u>AM-1 Ex</u>				
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	\$261. JANTITIES 48,000 1.090 52,320 LCY d volume: d swell factor:	AM-1 Ex Cat Hand	hibit L book			
MATERIAL OI Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	Dur: <u>\$261.</u> JANTITIES 48,000 1.090 52,320 LCY d volume: d swell factor:	AM-1 Exi Cat Hand	hibit L book			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	Dur: <u>\$261.</u> JANTITIES 48,000 1.090 52,320 LCY d volume: d swell factor: DUCTION	<u>AM-1 Ex</u> <u>Cat Hand</u>	 hibit L book			
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROJ Average push dista	Sur: \$261. JANTITIES 48,000 1.090 52,320 LCY 1 volume: swell factor: DUCTION nce: production: 1	<u>AM-1 Exi</u> <u>Cat Handl</u> 100 feet	hibit L book			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROM Average push dista Unadjusted hourly	Dur: \$261. JANTITIES 48,000 1.090 52,320 LCY d volume: d swell factor: DUCTION nce: production:	<u>AM-1 Ex</u> <u>AM-1 Ex</u> <u>Cat Handl</u> 100 feet 852.6 LCY/	hibit L book			
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROJ Average push dista Unadjusted hourly Materials consisten	JANTITIES 48,000 1.090 52,320 LCY d volume: d swell factor: DUCTION nce: production: cy description	<u>AM-1 Exi</u> <u>AM-1 Exi</u> <u>Cat Handl</u> 100 feet 852.6 LCY/ n: <u>Partly c</u>	hibit L book hr consolidated			
MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud	Sour: $\$261$ JANTITIES48,0001.09052,320 LCYd volume:d swell factor:DUCTIONnce:production:cy descriptionient: 5% le: $6,350$	<u>AM-1 Ex</u> <u>AM-1 Ex</u> <u>Cat Handl</u> <u>100 feet</u> 852.6 LCY/ n: <u>Partly c</u>	hibit L book	stockpile 1.1		
MATERIAL OU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROM Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight:	Sour: $\$261$ JANTITIES48,0001.09052,320 LCYd volume:d swell factor:DUCTIONnce:production:icy descriptionient: 5% le: $6,350$ 2,400	.52 	hr hr hr hr hr hr hr hr			
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MATERIAL QI Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description Job Condition Corr Ope	Sour: $\$261.$ JANTITIES48,0001.09052,320 LCYd volume:d swell factor:DUCTIONnce:production:icy descriptionicy descriptionient: 5% 6,3502,400:Clayection Factorerator Skill:	<u>AM-1 Exi</u> <u>AM-1 Exi</u> <u>Cat Handl</u> <u>100 feet</u> 852.6 LCY/ n: <u>Partly c</u> 0 feet 0 lbs/LCY and gravel - I 0.	hr consolidated Dry 750	stockpile 1.1 Source (AVG.)		
Iotal Fleet Cost/He MATERIAL QI Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PRO Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description Job Condition Corr Op Material consistent	Sur: \$261. JANTITIES 48,000 1.090 52,320 LCY d volume: d swell factor: DUCTION nce: production: acy description ient: 5 % 6,350 2,400 : Clay rection Factor erator Skill: consistency: nonsistency:	<u>AM-1 Exl</u> <u>AM-1 Exl</u> <u>Cat Handl</u> <u>100 feet</u> 852.6 LCY/ n: <u>Partly c</u> 0 feet 0 lbs/LCY and gravel - I <u>0.1</u>	hibit L book hr consolidated			
MATERIAL QI Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROM Average push dista Unadjusted hourly Materials consisten Average push grad Average site altitud Material weight: Weight description Job Condition Corr Optimised and Material consistent	Sur: \$261. JANTITIES 48,000 1.090 52,320 LCY d volume: d swell factor: DUCTION nce: production: acy description ient: 5 % le: 6,350 2,400 : Clay rection Factor erator Skill: onsistency: ng method: Visibilition	.52 	hibit L book hr consolidated Dry 750 100 000			

Task # 04A

Job efficienc	y: 0.830	(1 SHIFT/DAY)			
Spoil pil	le: 0.700	(FND-MF)			
Push gradier	nt: 0.903	(CAT HB)			
Altitud	le: 1.000	(CAT HB)			
Material Weigh	nt: 0.958	(CAT HB)			
Blade typ	e: 1.000	(PAT)			
Net correction: 0.4147					
Adjusted unit production:	353.57 LCY/hr				
Adjusted fleet production:	353.57 LCY/hr				

Fleet size:	1 Dozer(s)
Unit cost:	\$0.740/LCY

Total job time:	147.98 Hours
Total job cost:	\$38,699

Page 1 of 2

BULLDOZER WORK

Task description:	Regrad	e sediment pond			
Berry Pit		Permit Action:	2021	Permit/Job#:	M1977132
PROJECT IDEN	TIFICATION	<u>1</u>			
Task #· 05A		State: Colorado		Abbreviation:	None
Date: $7/13/2$	021	County: Rio Bland	20	Filename:	M132-05a
User: ACY				-	
Aganavar	organization no	mat DPMS			
Agency or	organization nai	lile. DRMS			
HOURLY EQUI	PMENT COS	<u>T</u>			
Basic Machine:	Cat D8T - 8SU	J			
Horsepower:	310				
Blade Type:	Semi-Universa	al			
Attachment:	3-shank ripper	•			
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Ho	our:	\$97.46	NA		
Operating Cost/Ho	our:	\$97.63	100	_	
Ripper own. Cost/Ho	our:	\$15.19	NA		
Ripper op. Cost/Ho	our:	\$9.94	100		
		\$41.30	NA		
Operator Cost/Ho	our:	φ+1.50	1 1 1		
Operator Cost/Ho	our:	ψ-1.50	1111		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou	cour: :: \$261.52 ur: \$261.52	ψ1.50			
Operator Cost/Ho Fotal unit Cost/Hour Fotal Fleet Cost/Hou	\$261.52 ar: \$261.52	φτ1.30			
Operator Cost/Ho Fotal unit Cost/Hour Fotal Fleet Cost/Hou MATERIAL QUA	Dur:	ψ11.50			
Operator Cost/Ho Fotal unit Cost/Hour Fotal Fleet Cost/Hou MATERIAL QUA Initial Volume:	Dur:	φ			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QU</u> Initial Volume: Swell factor:	Dur: <u>\$261.52</u> r: <u>\$261.52</u> hr: <u>\$261.52</u> ANTITIES 4,000 1 135				
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume:	50ur: \$261.52 1r: \$261.52 ANTITIES 4,000 1.135 4.540 LCY				
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume:	bur: \$261.52 r: \$261.52 ANTITIES 4,000 1.135 4,540 LCY				
Operator Cost/Ho Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated	bur: \$261.52 ur: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume:	AM-1 Exhibit L			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated in Source of estimated in S	bur: \$261.52 ur: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor:	AM-1 Exhibit L Cat Handbook			
Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	Dur: \$261.52 r: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor:	AM-1 Exhibit L Cat Handbook			
Operator Cost/Hour Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	bur: \$261.52 ur: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor: UCTION	AM-1 Exhibit L Cat Handbook			
Operator Cost/Ho Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distance	bur: \$261.52 ur: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: _ swell factor: _ UCTION ce: 11	AM-1 Exhibit L Cat Handbook			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distance Unadjusted hourly pro-	bur: \$261.52 ur: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor: UCTION ce: 11 roduction: 77	AM-1 Exhibit L Cat Handbook			
Operator Cost/Ho Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distance Unadjusted hourly pu	bur: \$261.52 x: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor: UCTION ce: 11 roduction: 77 y description:	AM-1 Exhibit L Cat Handbook	embankment 0.9		
Operator Cost/Ho Fotal unit Cost/Hour Fotal Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distance Unadjusted hourly publications	bur: \$261.52 ir: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor: UCTION ce: roduction: y description: nt: 0 %	AM-1 Exhibit L Cat Handbook	embankment 0.9		
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Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distand Unadjusted hourly pub Materials consistency Average push gradie Average site altitude	bur: \$261.52 ur: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor: UCTION ce: roduction: y description: nt: 0 %	AM-1 Exhibit L Cat Handbook	embankment 0.9		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROD Average push distand Unadjusted hourly pr Materials consistence Average site altitude Material weight:	bur: \$261.52 ur: \$261.52 ANTITIES 4,000 1.135 4,540 LCY volume: swell factor: UCTION ce: 11 roduction: 77 y description: nt: 0 % : 6,350 fee	AM-1 Exhibit L Cat Handbook	embankment 0.9		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROD Average push distand Unadjusted hourly pr Materials consistency Average push gradie Average site altitude Material weight: Weight description:	bur: \$261.52 ur: \$261.52 ANTITIES \$4,000 1.135 4,540 LCY volume: swell factor: UCTION ce: roduction: y description: nt: 0 % : Sand and	AM-1 Exhibit L Cat Handbook	embankment 0.9		
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Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROD Average push distand Unadjusted hourly pr Materials consistency Average push gradie Average site altitude Material weight: Weight description: Iob Condition Correct Oper	5ur: \$261.52 $1:135$ \$261.52 $4,000$ 1.135 $4,540$ LCY \$261.52 volume: $4,540$ LCY \$261.52 volume: swell factor: UCTION \$261.52 total factor: UCTION \$261.52 total factor: UCTION \$261.52 total factor: UCTION \$261.52 total factor: $2,700$ lbs \$261.52 Sand and \$2,700 lbs Sand and \$2,700 lbs Sand and \$2,700 lbs Sand and \$2,700 lbs Sand and \$2,700 lbs	AM-1 Exhibit L Cat Handbook	embankment 0.9		
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROD Average push distand Unadjusted hourly pr Materials consistenc; Average push gradie Average site altitude Material weight: Weight description: Iob Condition Correa Oper Material co	Dur: \$261.52 ir: \$261.52 ANTITIES \$4,000 1.135 4,540 4,540 LCY volume: swell factor: UCTION	AM-1 Exhibit L Cat Handbook			
Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated = Source of estimated = HOURLY PROD Average push distand Unadjusted hourly pr Materials consistence Average push gradie Average site altitude Material weight: Weight description: Iob Condition Corree Oper Material co Dozin	bur: \$261.52 ir: \$261.52 ANTITIES \$4,000 1.135 4,540 LCY volume: swell factor: UCTION ce: ir: 0 % : Sand and ction Factor ator Skill:	AM-1 Exhibit L Cat Handbook			

Job efficience	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weig	ht: 0.852	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on: 0.3819	
Adjusted unit production:	296.66 LCY/hr	
Adjusted fleet production:	296.66 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.882/LCY

Total job time:	15.30 Hours
Total job cost:	\$4,002

Page 1 of 2

BULLDOZER WORK

Task description:	Regr	uue proteett	on berm top	5011			
: Berry Pit		Perr	mit Action:	2021		Permit/Job#:	M1977132
PROJECT IDEN	TIFICATI	<u>ON</u>					
Task #: 06A Date: 7/13/2 User: ACY	2021	State: County:	Colorado Rio Blanco)		Abbreviation: Filename:	None M132-06a
Agency or	organization	name: DR	MS				
HOURLY EQUI	PMENT CO	<u>DST</u>					
Basic Machine:	Cat D8T - 8	8SU					
Horsepower:	310 Sami Univ						
Attachmont:	3 shark rin	ersai		_			
Shift Basis:	<u>1 per dav</u>	per		_			
Data Source:	$\frac{1 \text{ per uay}}{(CRG)}$						
Data Source.	(CKU)						
Cost Breakdown:							
o 1. ~			40 5	<u>Uti</u>	lization %		
Ownership Cost/H	our:		\$97.46		NA		
Operating Cost/H	our:		\$97.63		100		
Ripper own. Cost/H	our:		\$15.19		NA 100		
	01144		\$9.94		100		
Ripper op. Cost/H	our:		¢ 41 20				
Operator Cost/H	our:		\$41.30		NA		
Operator Cost/H	our:	52	\$41.30		NA		
Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho	our: our: r: <u>\$261.</u> ur: \$261.	52 52	\$41.30		NA		
Material Volume:	our: our: r: <u>\$261.</u> ur: \$261. ANTITIES 39,200	52 52	\$41.30		NA		
Material Volume: Swell factor:	our: our: r: <u>\$261.</u> ur: \$261. ANTITIES 39,200 1.135	52 52	\$41.30		NA		
Material Volume: Swell factor: Loose volume:	our: our: r: <u>\$261.</u> ur: <u>\$261.</u> ANTITIES <u>39,200</u> 1.135 44,492 LCY	52 52	\$41.30		NA		
Apper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	our: our: r: <u>\$261.</u> ur: <u>\$261.</u> ANTITIES 39,200 1.135 44,492 LCY volume: swell factor:	52 52 	\$41.30		NA		
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Apper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	our: our: view: ar: \$261.	52 52 52 <u>AM-1 Ext</u> Cat Handl 115 feet	\$41.30		NA		
Apper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p	our: our: our: 11.135 11.135 14.492 LCY volume: swell factor: DUCTION ace: production:	52 52 <u>AM-1 Exi</u> Cat Handl <u>115 feet</u> 776.8 LCY/	\$41.30 hibit L book		NA		
Apper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p	our: our: our: x: \$261. x: \$261. x: \$261.	52 52 52 <u>AM-1 Exl</u> <u>Cat Handl</u> <u>115 feet</u> 776.8 LCY/ :: <u>Compace</u>	\$41.30 hibit L book hr cted fill or er		<u>NA</u>		
Average push gradic Average push gradic Average site altitude	our:	52 52 52 <u>52</u> <u>6</u> <u>6</u> <u>7</u> 52 <u>7</u> <u>7</u> 6 8 1 1 1 1 5 feet 7 7 7 6 8 1 1 1 5 feet 7 7 6 8 1 1 1 5 feet 7 7 6 8 1 1 1 1 1 1 1 1	\$41.30	nbankmen	NA t 0.9		
Apper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou 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:	our:	52 52 52 <u>AM-1 Exl</u> <u>Cat Handl</u> 115 feet 776.8 LCY/ ::Compac 9 feet 9 lbs/LCY	\$41.30 	nbankmen	<u>NA</u> t 0.9		
Apper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou 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:	our: our: our: x: \$261. \$2700.	52 52 52 <u>AM-1 Ext</u> Cat Handl 115 feet 776.8 LCY/ ::Compac 9 feet 9 lbs/LCY and clay - Lo	\$41.30	nbankmen	<u>NA</u> t 0.9		
Aipper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou 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	our: our: x: \$261. x: \$2700. x: \$270	52 52 52 AM-1 Exl Cat Handl 115 feet 776.8 LCY/ ::Compac 0 feet 1bs/LCY and clay - Lo	\$41.30	 nbankmen	<u>NA</u> t 0.9 <u>Source</u>		
Aipper op. Cost/H Operator Cost/H Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: <u>Job Condition Correc</u>	our: our: x: \$261. x: \$270. x:	52 52 52 <u>AM-1 Exl</u> Cat Handl <u>115 feet</u> 776.8 LCY/ :: <u>Compac</u> feet lbs/LCY and clay - Lo 0.7	\$41.30	 nbankmen	NA t 0.9 <u>Source</u> (AVG.)		
Average push distar Unadjusted hourly p Material weight: Weight description: Job Condition Corre Oper Material con	our: our: x: \$261. x: \$2700. x: \$2700.	52 52 52 AM-1 Exl Cat Handl 115 feet 776.8 LCY/ at Compace 9 feet 9 lbs/LCY and clay - Lo 0.7 0.9	\$41.30	nbankmen	NA t 0.9 <u>Source</u> (AVG.) (CAT HB))		
Average push gradic Average push gradic Average push gradic Average fush gradic Average consistence Average fush gradic Average fush grad Average fush grad	our: our: x:	52 52 52 AM-1 Exl Cat Handl 115 feet 776.8 LCY// ::Compac 9 feet 9 lbs/LCY and clay - Lo 0.7 0.9 1.0	\$41.30	nbankmen	<u>NA</u> t 0.9 <u>Source</u> (AVG.) (CAT HB)) (GEN.)		

Task # 06A

Job efficiency:		0.830	(1 SHIFT/DAY)
Spoil pi	ile:	0.800	(FND-RF)
Push gradient:		0.903	(CAT HB)
Altitud	de:	1.000	(CAT HB)
Material Weig	ht:	0.852	(CAT HB)
Blade typ	pe:	1.000	(PAT)
Net correction	on:	0.3448	
Adjusted unit production:	26	7.84 LCY/hr	
Adjusted fleet production:	26	57.84 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.976/LCY

Total job time:	166.11 Hours
Total job cost:	\$43,443

REVEGETATION WORK

e: Berry Pi	t	Permit Action: 2021	Permit/Job#: <u>M1977132</u>
PROJECT	IDENTIFIC	CATION	
Task #:	07A	State: Colorado	Abbreviation: None
Date:	7/13/2021	County: Rio Blanco	Filename: M132-07a
	ACV		

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.37	\$74.00
			Total Fertilizer Materials Cost/Acre	\$74.00

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$38.77
	Total Fertilizer Application Cost/Acre	\$38.77

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.56
Total Tilling Cost/Acre	\$114.56

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	2.50	8.09	\$22.19
Beardless Wheatgrass - Whitmar	2.40	7.82	\$28.14
Russian Wildrye - Vinal	2.00	8.03	\$12.36
Streambank Wheatgrass - Sodar	2.20	7.17	\$12.54
Western Wheatgrass - Arriba	3.20	8.08	\$20.80
Sagebrush, Mountain or Big	1.00	52.80	\$19.75
Totals Seed Mix	13.30	92.00	\$115.78

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.98	\$2.98
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$307.02	\$614.04
Total Mulch Materials Cost/Acre				\$617.02

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$71.57
Power mulcher (MEANS 32 91 13.16 0350)		\$106.29
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$240.58

NURSERY STOCK PLANTING

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

	No. of Acres:	49.45	Cost /Acre:	\$1,432.71	
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,432.71	
*Selected Replanti	ng Work Items:	FERTILIZING,TII	LING,SEEDING,MU		
		LCHING			
Initial Job Cost:	\$70,847.51				
Reseeding Job Cost:	\$17,711.88				
Total Job Cost:	\$88,559				
Job Hours:	60.00				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: <u>Mo</u>	bilization					
e: Berry Pit		Permit	Action: 2021			Permit/Job#: <u>M</u>	1977132
PROJECT IDE	NTIFICATI	ON					
Task #· 08	Δ	State: Co	Jorado		Abbr	eviation: None	
Date: $7/1$	13/2021	County: Ri	o Blanco		F	ilename: M132	2-08a
User: A(7Y	County. K	0 Blanco				2-004
Agency	or organization	n name: DRMS					
EQUIPMENT '	TRANSPOR	T RIG COST					
					Shift ba	nsis: 1 per da	v
					Cost Data Sou	rce' CRG Da	ta
					Cost Data Sou		
Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TR	UCK TRACTO	OR, 6X4, DIESEI	L POWERED,
				400 HI	P (2ND HALF,	2006)	
True	ck Trailer Desc	cription: G	ENERIC FOLD	ING GOO	DSENECK, DI	ROP DECK EQU	IPMENT
			Т	RAILER	(25T, 50T, Al	ND 100T)	
G . D 11							
Cost Breakdown:							
Available Rig (Capacities	0-25 Tons	26-50 Tons	51	+ Tons		
Ownershi	p Cost/Hour:	\$21.28	\$37.94	\$	47.67		
Operatin	g Cost/Hour:	\$26.55	\$50.48	\$	56.21		
Operato	or Cost/Hour:	\$20.54	\$20.54	\$	20.54		
Helpe	er Cost/Hour:	\$0.00	\$23.53	\$	23.53		
Total Uni	it Cost/Hour:	\$68.37	\$132.49	\$	147.95		
Total Oli	11 Cost 110ui.	<i>ф00.51</i>	φ1 <u>5</u> 2.19	Ψ			
NON ROADAH	BLE EQUIPI	MENT:					
Machine	Weight/	Owner shin	Haul Rig	Fleet	Haul Trin	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)	Cost III/ unit	t	DILC	fleet		
Cat D7R DS	38.49	\$90.34	\$132.49	2	\$445.66	\$264.98	\$500.00
Series II L GP	50.47	φ)0.54	ψ152. 1 9	2	φ115.00	¢204.90	\$500.00
Cat 637G w/push-	- 59.59	\$223.48	\$147.95	2	\$742.86	\$295.90	\$500.00
pull							
CAT 14M	23.57	\$85.80	\$68.37	1	\$154.17	\$68.37	\$250.00
Water Tanker,	29.65	\$53.88	\$132.49	1	\$186.37	\$132.49	\$250.00
7,000 Gal.							
Drill/Broadcast	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Seeder with							
Tractor			A 10 95		+00 C -		
Power Mulcher	6.00	\$14.98	\$68.37	1	\$83.35	\$68.37	\$250.00
(Bowie LD-90)							

Subtotals: **\$1,688.76 \$898.48 \$2,000.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T.	\$20.51	2	\$41.02	\$41.02
Crew				

Subtotals:	\$41.02	\$41.02
EQUIPMENT HAUL DISTANCE and Time		
Nearest Major City or Town within project area region:	RIFLE	
Total one-way travel distance:	50.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$12,552.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$82.04	

Transportation Cycle Time:

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

Total job time:	6.00	Hours
Total job cost:	\$12,634	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Sec	ondary Mobilizat	tion				
e: Berry Pit		Permit	Action: 2021]	Permit/Job#: <u>N</u>	11977132
PROJECT IDE	NTIFICATI	ON					
Task #: 081	3	State: Co	olorado		Abbre	viation: None	2
Date: 7/1	3/2021	County: Ri	o Blanco		Fi	lename: M13	2-08b
User: AC	Y	•					
Agency	or organization	n name: DRMS					
EQUIPMENT 7	TRANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per da	ay
				C	Cost Data Sour	rce: CRG Da	ata
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	ICK TRACTO	R. 6X4. DIESE	L POWERED.
11401				400 HP	(2ND HALF,	2006)	LI C W LILLD,
Truc	k Trailer Desc	ription: G	ENERIC FOLD	DING GOO	SENECK, DF	OP DECK EQU	JIPMENT
			,	TRAILER	(25T, 50T, AN	ND 100T)	
C (D 11							
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership	Cost/Hour:	\$21.28	\$37.94	\$4	7.67		
Operating	g Cost/Hour:	\$26.55	\$50.48	\$5	6.21		
Operator	r Cost/Hour:	\$20.54	\$20.54	\$2	0.54		
Helper	Cost/Hour:	\$0.00	\$23.53	\$2	3.53		
Total Unit	t Cost/Hour:	\$68.37	\$132.49	\$14	47.95		
NON ROADAB	LE EOUIPN	MENT:					
Machina	Woight/	Owner ship	Loul Dig	Floot	Haul Trip	Return Trin	DOT Permit
Description	Unit	Cost/hr/unit	Cost/br/upi	Size	Cost/br/	Cost/hr/ fleet	Cost/ fleet
Description	(TONS)	COSUIII/ unit	t	5120	fleet		
				1		1	
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Drill/Broadcast Seeder with Tractor Power Mulcher	25.00	\$7.98	\$68.37 \$68.37	1	\$76.35	\$68.37 \$68.37	\$250.00
Drill/Broadcast Seeder with Tractor Power Mulcher (Bowie LD-90)	25.00 6.00	\$7.98	\$68.37 \$68.37	1	\$76.35 \$83.35	\$68.37 \$68.37	\$250.00 \$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	\$20.51	2	\$41.02	\$41.02
		Subtotals:	\$41.02	\$41.02

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	RIFLE	
Total one-way travel distance:	50.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1.912.28	
* two round trips with haul rig: Total Roadable Mob/Demob Cost **	\$22.04	
** one round trip, no haul rig:	\$82.04	

Transportation Cycle Time:

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

JOB TIME AND COST

Total job time: **6.00** Hours

Total job cost: \$1,994

Applicant old cestle SW Group i Inc. dba United domponies of Mess Country M1977-132 Ravised Pages and Cost Estimate - Berry P.7 MM-01 Received 9/04/02 From Gregg Lewicki & Associates to Gregg Squire PMG delivered to the job sites by truck. The haul road from the processing area to the Highway 13 entrance in an existing road approximately 25 feet wide and 1600 feet long. A large portion of this road is not in the permit area and no part of the road is planned for reclamation.

Future mining will take place initially in the area east of the existing Berry Pit disturbance and will move to the southern lease (new lease area), as shown on Map C-2. Prior to any mining in the southern lease, the sediment pond will be created in the southwest corner of the disturbed area. This pond will handle the 100 year event from the entire site disturbed area. The southern lease will be mined in strips of 200 feet width, which are numbered from 1 to 9. For the first strip (Strip 1) topsoil will be stripped and placed in Soil Stockpile C to the north in the original Berry Pit area. Any permanent slope cuts will be cut at an angle of 3.0H1.0V. The temporary cuts from Strips 1 and 2 and subsequent strips may be placed at an angle of 1.0H:1.0V. Overburden will also be removed in the same manner and will be isolated from the soil. Overburden from Strip 1 will be placed in two places: 1) the original Berry pit floor to achieve final grade and 2) a permanent backfill immediately west of Strip 1. This backfill area is shown on Map C-2 and will also serve as a visual barrier to the operation. Strip 1 will be mined as shown on Map C-2. Soil and overburden from Strip 2 will be placed in Strip 1. Strip 2 will be mined and the process will be repeated until strip 9 is mined out. A berm of at least 20 feet in height will be left along the southern edge of the mining area for visual and noise protection for residents. The outside part of the berm will be the original existing slope, and the inside edge will be cut at an angle of 2H:1V. This berm area, Strips 10, 11 and 12, will be the final mining area of the site. Once Strip 9 is mined out, the visual berm will be mined from east to west. Therefore, Strip 10 will be mined, followed by Strip 11 and 12. Again, soil from Strip 10 will be placed in Strip 9, etc. The soil and any desired overburden from the initial Strip 1 that was placed in the original Berry pit area will then be placed in Strip 12 to complete the reclamation of the site. This process is similar to coal mine stripping and has the advantage of keeping the overall disturbed area to a minimum while reclaiming the site as mining progresses.

Since much of the site area will be flat, some ponding will occur. 10% ponding of the runoff is assumed, therefore, the area behind the berm needs to hold 202,880 cubic feet. Using an area of 4.66 acres along the inside edge of the berm, an average depth of 1.0 feet is needed so that the volume will be entirely stored behind the berm. Since the area behind the berm is larger than 4.66 acres and the depth is closer to 3.0 feet than 1.0 feet, the berm is more than adequate to contain the 100 year event.

4. Mine Facilities and Operation

The site will consist of a portable crushing and screening plant, portable stacker conveyors, portable asphalt plant, portable concrete plant, truck scale, potential portable office trailer and gen-set portable light fixtures in case some urgent work is needed at night. No night operations are scheduled for the operation. All structures on site are shown on Map C-2. There will be no fuel storage tanks or fuel farm on the site other than the tanks that are part of each of the three portable plants for generating power:

- 10,000 gallon diesel tank that is part of the crushing/screening plant.
- 6,000 gallon diesel tank which is part of the concrete plant
- 6,000 gallon diesel tank which is part of the asphalt plant.

All of the tanks above are attached to their respective plants and are double walled for spill protection. For this reason, they have their own secondary containment and no berms are needed on any of these tanks as normally required for the SPCC plans. To further protect hydrologic balance, tank inspections and ground inspections will occur daily on site. If any fuel or asphaltic material is encountered, the gravel material will be recycled through the asphalt plant. Also, the Division will be notified in case of any spills on site. The portable mining equipment such as loaders, dozers, trucks and excavators will be serviced on an as-needed basis from portable service truck making short visits to the site. Upon reclamation, all portable equipment will be removed from the site.

Power is available from poles at the western side of the permit area or power may also be supplied from diesel generators using the tanks described above.

There will be no fence around the operation, since it is inside private property and protected by berms and natural earth faces. No problems are expected with vandalism. It is extremely unlikely that any toxic or acid-producing materials will be encountered during the mining operation since the total depth of excavation in the River and the lake (see next section) is shallow and tests down to this depth show that the material is alluvial in nature. However, in the event that such materials are encountered, they will be covered with subsoil and topsoil from the stockpiles to the same depths outlined in the reclamation plan and no more mining will occur in this area.

The operator commits to clearly marking the permit boundary with stakes surveyed on site. The site will use all existing roads to haul the product to its final destination. It is planned that the material maybe used to re-surface existing roads, make concrete aggregate or provide new road base for any new roads within an economic distance to the site.

5. Topsoil and Overburden Handling

The Berry Pit was begun prior to initiation of reclamation of reclamation laws in 1977 and for most of the disturbance of the original lease area, 29.8 acres, topsoil and overburden were stripped together. Stockpiles were made on the north end of the permit area. These stockpiles cover an area of approximately 2.3 acres with an average thickness of 18 feet, therefore the storage volume is 1,803,000 cubic feet or 66,790 cubic yards. These piles are labeled Stockpiles A and B on Map C-2.

These stockpiles will be used to reclaim the entire disturbed area of the original lease. This will result in an average thickness of 1.0 feet.

The remainder of mining area of the original lease (east side) that requires topsoil stripping is approximately 1.56 acres. For this area, topsoil will be stripped to a depth of 20-24 inches per the recommendations of the local NRCS office. The full recommendations of the NRCS are given in Appendix D. This topsoil will be placed in a stockpile as shown on Map C-2. This volume is 1.56 acres x average depth of 20 inches = 2097 cubic yards. This stockpile is labeled Stockpile C on Map C-2. The average thickness of overburden in this area is approximately 8 feet. The overburden from this area (20,000 cubic yards) will be placed on the pit bottom immediately to the west so that final grade can be achieved in this area.

Prior to the mining of Strip 1, topsoil will be stripped from an area of approximately 1 acre immediately west of strip 1 and will be temporarily stockpiled in the old Berry pit active area. Topsoil will

RECLAMATION PLAN

EXHIBIT E

1. General Reclamation Plan

The entire disturbed area will be restored to its original uses as dry rangeland and wildlife habitat. No slopes will be greater than 2.5H:1.0V. The vast majority of the disturbed area will be restored to relatively flat grade.

The original Berry Pit disturbed area (29.8 acres) will be maintained during the mining of the new lease area to the south of the existing pit. The 29.8 acres will be used for roads, processing, stockpiles of product and soil/overburden stockpiles. In the new lease area, strips will be mined one at a time as shown on Map C-2 so that reclamation of the site will be concurrent with the mining operation. In a worst case, three strips will be exposed at any given time. The mining will occur in the middle strip while topsoil and overburden stripping will occur in the immediate strip to the east. Reclamation will be taking place on the immediate strip to the west. Once Strip 9 is mined out, the visual berm will be mined out to complete the project. This visual berm is Strips 10, 11 and 12. Therefore, the maximum disturbed acreage to reclaim at any given time is 29.8 acres (original area) + 10.5 acres (three strips) + 2.79 ac (Strip 10) + 3.21 acres (Strip 11) + 2.25 acres (Strip 11) = 48.55 acres. The final three strips are the visual berm left for the County and this would have to be reclaimed to flat area if mining was permanently stopped in any of the earlier strips.

Since the average gravel thickness is approximately 20 feet, the overall terrain will be reduced by this thickness for reclamation. Any final slopes on the terrain will be no steeper than 3.0H:1.0V. The average overburden thickness is 6-12 feet. Soil Stripping depths average 20-24 inches on the flat areas and 0 to 6 inches on the slope areas. All of these materials will be replaced for reclamation, although the overburden may not be placed to its original average thickness over the entire site. Some areas may have more overburden and some may have less. In order to provide good plant rooting depths of the entire site, United commits to placing a minimum of 12 inches of overburden (subsoil) and 12 inches of topsoil in all areas of the new lease. The actual amounts stripped will be replaced to the same thicknesses.

When the mine has extracted all material from the final strip in the new lease area (Strip 9), final reclamation will begin. Once all portable structures are removed, soil and overburden replacement will begin for the original Berry pit area as well as Strips 11 and 12 of the new lease area. For the original disturbance of the Berry Pit of 29.8 acres, reclamation will be performed by spreading the mixed topsoil/overburden from Stockpiles A and B throughout the area. As demonstrated in the mining plan, these piles contain approximately 66,790 cubic yards. This will result in an average thickness of 1.4 feet for the reclamation.

For the new lease area, Strips 1 through 11 will have been restored with the overburden and topsoil from the adjacent strip lower in number sequence. Strip 12 will be reclaimed by first placing overburden from the original lease area to a depth of 1.0 feet and then topsoiling from Stockpile C, which had stored the soil from Strip 1. The approximate replacement thickness in Strip 12 is12-18 inches.

The final reclamation task is to regrade the sediment pond. The sediment pond area is approximately 0.9 acres and contains 7500 cubic yards. This area will be reclaimed by dozer regrading within a short distance of the work areas. Topsoil will be respread on the bench area on the south perimeter which is the area where the soil was originally obtained.

Prior to any replacement of topsoil, the subsoil/overburden will be ripped to a depth of 12 inches if the material has compaction levels that could inhibit root growth. If any compaction of topsoil occurs during the placement process, it will also be ripped or harrowed to its replacement depth.

Once final topsoil placement has been achieved, the site will be seeded and mulched according to the recommendations of the local NRCS. See report in Appendix D.

RECLAMATION COSTS

The worst case reclamation costs occur when the mining is taking place in the new lease area to the south and there are 3 strips in various stages of activity and the entire existing lease area still requires reclamation. Also, the visual berm would need to be smoothed out. Final seeding area = 29.8 acres (original area) + 10.5 acres (three strips) + 2.79 ac (Strip 10) + 3.21 acres (Strip 11) + 2.25 acres (Strip 11) + 0.9 acres (sediment pond) = 49.45 acres.

Worst case reclamation costs for this scenario are given below:

(Reclamation of 1.56 acre mine area on east end of existing Berry Pit will occur prior to final reclamation)

Task #	Description	Time Needed months	Cost
1	Regrade two new lease area strips to final grade. 14500 cy @ \$0.66 per cy	1.0	\$9570
2	Replace overburden on 1 strip. 3.4 acres x 1 ft depth = 5485 cubic yards @ @1.10 per cy	0.25	\$6033
3	Replace topsoil from Stockpile C on regraded strip. Average depth = 18 inches = 8228 cubic yards @ \$1.10 per cy	0.4	\$9050
4	Regrade old lease area. Short dozer push downhill. 48000 cy @ \$0.56 per cy. (only part of the 66,790 cy needs to be moved)	0.6	\$26880
5	Regrade sediment pond. 4000 cy @\$0.46 per cy	0.2	\$1840
6	Regrade visual protection berm 2700' long x 14' high 2:1 slopes = 39200 cy @ 0.34 per cy	2.0	\$13328
7	Reseed, mulch and fertilize all top- soiled areas. Drill seeding and crimp mulching will be employed @ \$700/acre x 49.45 acres	0.3	\$34615
	Totals	4.75	\$101,316
	DMG Costs (21% x direct costs)		\$21,276
	Total Bond Amount		\$122,592