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Deserado MR-185 Reclamation Cost Estimate

Wein - DNR, Clayton <clayton.wein@state.co.us> To: Kurt Blunt <kblunt@deserado.com>

Thu, Jul 13, 2023 at 1:38 PM

Good afternoon Kurt,

Attached is a copy of the reclamation estimate for MR-185. There are no adequacy questions from the Division at this time. Please review the estimate and let me know if you have any questions or concerns. If you are ok with the estimate the Division will be ready to approve the revision.

Sincerely, Clayton Wein **Environmental Protection Specialist**



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Deserado MR-185 Reclamation Cost Estimate.pdf 404K

COST SUMMARY WORK

Ta	sk description: Plug and seal 2 Nitrogen V	Wells and the RS-4	R Returi	n Shaft	
ite: _	Deserado Mine Permit Action	n: <u>MR185</u>		Permit/Job	#: <u>C1981018</u>
PR	OJECT IDENTIFICATION				
		_		Abbreviation:	N
)		Filename:	None C018-000
	Date: 7/13/2023 County: Moffat User: CCW			riiename:	C018-000
	OSCI. CCW				
	Agency or organization name: <u>DRMS</u>				
ТΔ	SK LIST (DIRECT COSTS)				
	EIST (DIRECT COSTS)	Form	Fleet	Task	
sk	Description	Used	Size	Hours	Cost
	Plug and seal Nitrogen Wells	BOREHOLE	1	0.00	\$274
	Seal and Abandon RS-4R Return Shaft	BOREHOLE	1	0.00	\$1,022
,	Backfill and Regrade MR-185 Drill Pads	DOZER	1	0.96	\$441
1	Backfill and Regrade RS-4R pad	DOZER	1	0.48	\$221
	Backfill and Regrade MR-185 Access Roads	DOZER	1	3.10	\$1,427
,)	Replace Topsoil on MR-185 Drill Pads	DOZER	1	0.48	\$221
7	Replace Topsoil on RS-4R Drill Pad	DOZER	1	0.24	\$110
}	Replace Topsoil on MR-185 Access Roads	DOZER	1	1.55	\$713
)	Reseed Drill Pads	REVEGE	1	10.00	\$188
)	Reseed RS-4R Pad	REVEGE	1	10.00	\$94
	Reseed MR-185 Access Roads	REVEGE	- <u>1</u>	10.00	\$606
INI	DIRECT COSTS				
	ERHEAD AND PROFIT:				
	Liability insurance: 2.02			Total = \$1	07
	Performance bond: 1.05			$Total = \frac{\$5}{\$5}$	
	Job superintendent: 18.41				,198
	Profit: 10.00			$Total = \frac{\$5}{\$}$	
			TOTAI	$L O \& P = \frac{1}{\$1}$,893
	CON	TRACT AMOUNT	(direct +	O & P) =	,210
I D/	CAL ENGINEEDING PROJECT MANAGEMEN	т.			
LEC	GAL - ENGINEERING - PROJECT MANAGEMEN			TD + 1 *^	
	Financial warranty processing (legal/related costs):	\$0	_	$Total = \underbrace{\$0}_{\$2}$	
	Engineering work and/or contract/bid preparation:	4.00	_	Total = $\$2$	
	Reclamation management and/or administration:	3.13	_	\$2:	20
	CONTINGENCY:	0.00		Total = \$0	
	CONTINUENCI.	0.00		10ta1 - \$0	
		TOTAL I	NDIRECT	$\Gamma COST = _$2$,407
	TOTAL BA	OND AMOUNT (*	liroot ± :-	adiroot) — 67	724
	IOIAL BO	OND AMOUNT (d	meet + II	iun'ect) =	,724

BOREHOLE SEALING WORK

Site:	Deserado Mine		Permit Action: MR185	Permit	/Job#: <u>C1981018</u>
ROJEC'	Γ IDENTIFICAT	<u>'ION</u>			
Task #: Date:	001 7/13/2023	State: County:	Colorado Moffat	Abbreviation: Filename:	None C018-001
User:	CCW	County.	Williat	- Thename.	C010-001

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal and Abandon 2 Nitrogen Injection wells	Portland cement grout (Bag, material cost only94 lb. bag)	3.5	10' x 2	3.00	bag	\$19.95	\$59.85
Bottom Plug x2	PVC plug - 4 in. diameter borehole	3.5	NA	2.00	EA	\$35.35	\$70.71
Cut Casing x2	Exposed casing removal - Calculate Circumference in Linear Feet	3.5	NA	1.83	LF	\$4.55	\$8.33
Borehole Identification Marker x2	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$39.00	\$78.00
Truck and Labor	Flatbed Truck, 4x2, 15K GVW	NA	NA	2.00	EA	\$28.57	\$57.14

Job Hours: 0.00 Total Cost: \$274.00	Job Hours: 0.00	Total Cost:	\$274.00
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BOREHOLE SEALING WORK

Site: D	Deserado Mine		Permit Action: MR185	Permit	/Job#: <u>C1981018</u>
ROJEC'	Γ IDENTIFICAT	CION			
Task #:	002	State:	Colorado	Abbreviation:	None
Date:	7/13/2023 CCW	County:	Moffat	Filename:	C018-002

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Concrete Plug	Portland cement grout (Bag, material cost only94 lb. bag)	26"	10'	19.00	bag	\$19.95	\$379.05
Bottom Plug	PVC plug - 12 in. diameter borehole	26"	NA	2.00	EA	\$164.34	\$328.67
Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	26"	NA	6.75	LF	\$4.55	\$30.71
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	1.00	EA	\$39.00	\$39.00
Truck and Labor	Flatbed Truck, 6x4, 45K GVW	NA	NA	4.00	EA	\$61.15	\$244.60

Job Hours: 0.00 Total Cost: \$1,022.00	\$1,022.00
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	fill and Regrade MR-185		D 1.77	1 // 0100101
Deserado Mine	Permit Action:	MR185	Permit/Jo	b#: <u>C198101</u>
PROJECT IDENTIFICATIO	<u>N</u>			
Task #: 003 Date: 7/13/2023 User: CCW	State: Colorado County: Moffat		Abbreviation: Filename:	None C018-003
Agency or organization i	name: DRMS			
HOURLY EQUIPMENT CO	<u>ST</u>			
Basic Machine: Cat D9T - 9	SU			
Horsepower: 405				
Blade Type: Semi-Unive				
Attachment: 3-shank rip Shift Basis: 1 per day	ber			
Data Source: (CRG)				
Cost Breakdown:	1			
Orange and in Cont/III	\$220.7C	<u>Utilization %</u>		
Ownership Cost/Hour:	\$238.76 \$162.29	NA 100		
Operating Cost/Hour: Ripper own.	\$162.29			
Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
MATERIAL QUANTITIES				
Initial Volume: 629				
Swell factor: 1.250				
Loose volume: 786 LCY				
Source of estimated volume: Source of estimated swell factor:	MR-185 Application Cat Handbook			
HOURLY PRODUCTION				
Average push distance:	50 feet			
Unadjusted hourly production:	2,110.5 LCY/hr	_		
Materials consistency description	: Compacted fill or em	bankment 0.9		
Average push 0 % gradient:				
Average site altitude: 5,700	feet			
	lbs/LCY			
Weight description: Decor	nposed rock - 25% Rock,	75% Earth		
ob Condition Correction Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production: Adjusted fleet

production:

820.98 LCY/hr

820.98 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.561/LCY

Total job time: 0.96 Hours
Total job cost: \$441

Task description:	Backfill and Regrade RS-41	x pau		
: Deserado Mine	Permit Action:	MR185	Permit/Jo	b#: <u>C1981018</u>
PROJECT IDENTIFI	<u>ICATION</u>			
Task #: 004 Date: 7/13/2023 User: CCW	State: Colorado County: Moffat		Abbreviation: Filename:	None C018-004
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
	t D9T - 9SU			
Horsepower: 40		_		
Blade Type: Se	mi-Universal	<u> </u>		
Attachment: 3-s	shank ripper			
	oer day			
Data Source: (C	RG)	<u> </u>		
Cost Breakdown:				
O 1' O -/TT	ф 22.0 Д.С.	<u>Utilization %</u>		
Ownership Cost/Hour:	\$238.76	NA 100		
Operating Cost/Hour: Ripper own.	\$162.29	100		
Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
MATERIAL QUANT	<u> </u>			
Initial Volume: 315				
Swell factor: 1.25 Loose volume: 393	LCY			
Source of estimated volumes Source of estimated sweet factor:	11			
HOURLY PRODUCT	TION_			
Average push distance:	50 feet			
Unadjusted hourly	2,110.5 LCY/hr			
production:				
Materials consistency de	escription: Compacted fill or e	embankment 0.9		
Average push	0 %			
gradient:	0 /0			
Average site altitude:	5,700 feet			
Material weight:	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rocl	x, 75% Earth		
Job Condition Correction	Factor	Source	_	
200 Condition Correction	1 40101	Bource		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:
Adjusted fleet production:

820.98 LCY/hr

820.98 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.561/LCY

Total job time: 0.48 Hours
Total job cost: \$221

<u> </u>	l and Regrade MR-185		D:4/T	L#. C100101
Deserado Mine	Permit Action: _	MR185	Permit/Jo	b#: <u>C198101</u>
PROJECT IDENTIFICATION				
Task #: 005 Date: 7/13/2023 User: CCW	State: Colorado County: Moffat		Abbreviation: Filename:	None C018-005
Agency or organization nar	me: DRMS			
HOURLY EQUIPMENT COST	<u>T</u>			
Basic Machine: Cat D9T - 9SI	U			
Horsepower: 405	1			
Blade Type: Semi-Univers				
Attachment: 3-shank ripper Shift Basis: 1 per day	<u>r</u>			
Data Source: (CRG)				
Cost Breakdown:				
Ownership Cost/Hours	\$220.76	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:	\$238.76 \$162.29	NA 100		
Ripper own.				
Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA		
Total unit Cost/Hour: \$460.67				
Total Fleet Cost/Hour: \$460.67				
<u> </u>				
MATERIAL QUANTITIES				
Initial Volume: 2,035				
Swell factor: $\frac{2,035}{1.250}$				
Loose volume: 2,544 LCY				
Course of estimated values	MD 195 Application			
	MR-185 Application Cat Handbook			
factor:	Cat Halldook			
HOURLY PRODUCTION				
) fact			
) feet 110.5 LCY/hr			
production: 2,	110.3 LC 1/III			
Materials consistency description:	Compacted fill or em	bankment 0.9		
Average push 0 %				
gradient:				
Average site altitude: 5,700 fee	et			
Material weight: 2,650 lbs	s/I CV			
Weight description: Decomp	osed rock - 25% Rock,	75% Earth		
ob Condition Correction Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:
Adjusted fleet production:

820.98 LCY/hr

820.98 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s) Unit cost: \$0.561/LCY

Total job time:
Total job cost:

3.10 Hours
\$1,427

Task description:	Replace Topsoil on MR-185	Drill Pads		
te: Deserado Mine	Permit Action:	MR185	Permit/Jo	b#: <u>C1981018</u>
PROJECT IDENTIFIC	<u>CATION</u>			
Task #: 006 Date: 7/13/2023 User: CCW	State: Colorado County: Moffat		Abbreviation: Filename:	None C018-006
Agency or organi	ization name: DRMS			
HOURLY EQUIPMEN	NT COST			
	D9T - 9SU	<u></u>		
Horsepower: 405		_		
71	ni-Universal	_		
	ank ripper er day	_		
Data Source: (CR		<u> </u>		
Cost Breakdown:		<u>Utilization %</u>		
Ownership Cost/Hour:	\$238.76	NA		
Operating Cost/Hour:	\$162.29	100		
Ripper own. Cost/Hour:	\$18.32	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.30	NA	 ,	
MATERIAL QUANTI Initial Volume: 315 Swell factor: 1.250 Loose volume: 394 I)			
Source of estimated volumes Source of estimated swell factor:				
HOURLY PRODUCTI	<u>ION</u>			
Average push distance: Unadjusted hourly production:	50 feet 2,110.5 LCY/hr			
Materials consistency des	scription: Compacted fill or en	mbankment 0.9		
Average push	0 %			
gradient:	5 700 foot			
Average site altitude:	5,700 feet			
Material weight:	2,650 lbs/LCY		<u> </u>	
Weight description:	Decomposed rock - 25% Rock	, 75% Earth		
Job Condition Correction F	factor_	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:
Adjusted fleet production:

820.98 LCY/hr

820.98 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.561/LCY

Total job time: 0.48 Hours Total job cost: \$221

Task description:	Replace Topsoil on RS-4R	Vrill Pad		
e: Deserado Mine	Permit Action	n: MR185	Permit/Jo	b#: <u>C1981018</u>
PROJECT IDENTIF	<u>ICATION</u>			
Task #: 007 Date: 7/13/2023 User: CCW	State: Colorado Moffat	0	Abbreviation: Filename:	None C018-007
Agency or orga	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
	at D9T - 9SU			
Horsepower: 40				
<u> </u>	emi-Universal			
	shank ripper			
	per day CRG)			
Cost Breakdown:		TT:11		
Ournavahin C4/II-	\$ 220.76	Utilization %		
Ownership Cost/Hour: Operating Cost/Hour:				
Ripper own.				
Cost/Hour:	\$18.32			
Ripper op. Cost/Hour:	\$0.00			
Operator Cost/Hour:	\$41.30	NA		
MATERIAL QUANT	<u></u>			
Initial Volume: 157 Swell factor: 1.2				
	5 LCY			
Loose volume: 190) LC I			
Source of estimated vol Source of estimated swe factor:	11	n 		
HOURLY PRODUCT	ΓΙΟΝ			
Average push distance:	50 feet			
Unadjusted hourly	2,110.5 LCY/hr			
production:	· 			
Materials consistency d	accompanion. Companied fill or	embankment 0.9		
iviatoriais consistency d	Compacicu III of	CHIUAHKHICHI U.Y		
Average push	0 %			
gradient:				
Average site altitude:	5,700 feet			
Material weight:	2,650 lbs/LCY		<u></u>	
Weight description:	Decomposed rock - 25% Ro	ck, 75% Earth		
Job Condition Correction	Factor_	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:
Adjusted fleet production:

820.98 LCY/hr

820.98 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.561/LCY

Total job time: 0.24 Hours
Total job cost: \$110

Task description:	Replace Topsoil on MR-185	Access Roads		
ite: Deserado Mine	Permit Action:	MR185	Permit/Jo	b#: <u>C1981018</u>
PROJECT IDENTI	<u>FICATION</u>			
Task #: 008 Date: 7/13/202 User: CCW	State: Colorado County: Moffat		Abbreviation: Filename:	None C018-008
Agency or or	ganization name: DRMS			
HOURLY EQUIPM	IENT COST			
Horsepower:	Cat D9T - 9SU 405	_		
	Semi-Universal 3-shank ripper	_		
Shift Basis:	1 per day (CRG)	_ _ _		
Cost Breakdown:	©220.56	<u>Utilization %</u>		
Ownership Cost/Hou Operating Cost/Hou		NA 100		
Ripper ow	n. \$18.32	NA		
Cost/Hou Ripper op. Cost/Hou	r:	0		
Operator Cost/Hou	-	NA		
Swell factor: 1	017 .250 .271 LCY			
Source of estimated v Source of estimated s factor:	olume: MR-185 Application			
HOURLY PRODUC	e: 50 feet	_		
Unadjusted hourly production:	2,110.5 LCY/hr			
Materials consistency	description: Compacted fill or en	mbankment 0.9		
Average push gradient:	0 %			
Average site altitude:	5,700 feet			
Material weight:	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rock	, 75% Earth		
Job Condition Correction	on Factor	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:

Adjusted fleet

820.98 LCY/hr

Production: 820.98 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.561/LCY

Total job time: 1.55 Hours
Total job cost: \$713

REVEGETATION WORK

	ask description: Res					
_	Deserado Mine	Perm	it Action: MR1	85	Permit/Job	#: <u>C1981018</u>
PR	ROJECT IDENTIFICATION	ON				
	Task #: 009		Colorado		Abbreviation:	None
	Date: 7/13/2023		Rio Blanco		Filename:	C018-009
	User: CCW	<u> </u>			-	
	Agency or organization	name: DRM	IS			
FE	<u>CRTILIZING</u>					
	nterials					
	Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
					\$	\$
					Total Fertilizer	
					Materials Cost/Acre	\$0.00
	Description					Cost /Acre
-						\$
			Total	Eastilizas An		
				rerunzer Ap	plication Cost/Acre	\$0.00
ΓI	<u>LLING</u>			rerunzer Ap	plication Cost/Acre	\$0.00
Γ	LLING Description			rerunzer Ap	plication Cost/Acre	\$0.00 Cost /Acre
Γ				rerunzer Ap	plication Cost/Acre	
					nl Tilling Cost/Acre	Cost /Acre
						Cost /Acre
SE	Description EDING			Tota	al Tilling Cost/Acre	Cost /Acre \$ \$0.00
SE	Description			Tota	al Tilling Cost/Acre	Cost /Acre
SE	Description EDING			Tota	ate – LS BS / Seeds per SQ. ET	Cost /Acre \$ \$0.00
SE	Description EDING			Tota R P L A	al Tilling Cost/Acre ate – LS Seeds RS / Per SQ.	Cost /Acre \$ \$0.00

Beardless Wheatgrass - Whitmar

Bluebunch Wheatgrass - Secar

Crested Wheatgrass - Nordan

Russian Wildrye - Bozoisky

Sandberg Bluegrass - VNS

Bottlebrush Squirreltail

Canby Bluegrass - Canbar

\$5.86

\$5.44

\$2.05

\$15.60

\$12.96

\$3.25

\$1.68

0.50

0.50

0.20

4.00

2.00

0.20

0.20

1.63

1.61

4.25

8.03

0.88

4.25

18.37

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$3.65
Sheep Fescue - Covar	0.20	3.12	\$1.22
Slender Wheatgrass - Pryor	2.00	7.30	\$8.50
Milk Vetch, Cicer - Monarch	1.00	3.33	\$8.20
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Needlegrass, Green - Lodorm	0.60	2.49	\$7.07
Sagebrush, Mountain or Big	0.10	5.28	\$1.98
Prairie Junegrass	0.20	10.63	\$5.20
Flax, Lewis Blue	0.40	2.65	\$6.60
Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	19.20	99.54	\$149.52

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/A	Acre \$267.22

MULCHING and MISCELLANEOUS

Materials

T 4.	14161 1413				
	Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
	Total Mulch Materials Cost/Acre				\$0.00

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	0.3	Cost /Acre:	\$416.74
Estimated Failure Rate:	50%	Cost /Acre*:	\$416.74
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost: \$125.02		-	

Task # 009

Reseeding Job Cost:	\$62.51
Total Job Cost:	\$188
Job Hours:	10.00

Reveg Worksheet Cont'd

REVEGETATION WORK

Task description:	Reseed RS-4R Pa	ad				
Deserado Mine	Permit Action: MR185 Permit/Job#:					: C1981018
PROJECT IDENTIFICA	ATION					
						None C018-010
Agency or organiza	tion name:DR	MS				
<u>FERTILIZING</u>						
<u> </u>						
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
				\$		\$
				Tota	al Fertilizer Materials Cost/Acre	\$0.00
Application Description						Cost /Acre
						\$
		Total	Fertilizer A	application	n Cost/Acre	\$0.00
<u> TILLING</u>						
Description						Cost /Acre
						\$
			To	otal Tilling	g Cost/Acre	\$0.00
<u>SEEDING</u>						
Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton				0.10	3.90	\$2.85
Indian Ricegrass - Nespar	•			0.40	1.29	\$3.55

Beardless Wheatgrass - Whitmar

Bluebunch Wheatgrass - Secar

Crested Wheatgrass - Nordan

Russian Wildrye - Bozoisky

Sandberg Bluegrass - VNS

Bottlebrush Squirreltail

Canby Bluegrass - Canbar

\$5.86

\$5.44

\$2.05

\$15.60

\$12.96

\$3.25

\$1.68

0.50

0.50

0.20

4.00

2.00

0.20

0.20

1.63

1.61

4.25

8.03

0.88

4.25

18.37

Pubescent Wheatgrass - Greenleaf	1.00	2.07	\$3.65
Sheep Fescue - Covar	0.20	3.12	\$1.22
Slender Wheatgrass - Pryor	2.00	7.30	\$8.50
Milk Vetch, Cicer - Monarch	1.00	3.33	\$8.20
Thickspike Wheatgrass - Critana	1.00	3.54	\$6.88
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Needlegrass, Green - Lodorm	0.60	2.49	\$7.07
Sagebrush, Mountain or Big	0.10	5.28	\$1.98
Prairie Junegrass	0.20	10.63	\$5.20
Flax, Lewis Blue	0.40	2.65	\$6.60
Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	19.20	99.54	\$149.52

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/A	Acre \$267.22

MULCHING and MISCELLANEOUS

Materials

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	0.15	Cost /Acre:	\$416.74
Estimated Failure Rate:	50%	Cost /Acre*:	\$416.74
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost: \$62.51			

Reseeding Job Cost:	\$31.26
Total Job Cost:	\$94
Job Hours:	10.00

REVEGETATION WORK

: Desc	erado Mine	Permit A	۸ - 4:				
		Permit Action: MR185 Permit/Job#				: C1981018	
PROJE	ECT IDENTIFICA	ATION					
Tas	k#: 011	State: Col	lorado		Abl	breviation:	None
	eate: 7/13/2023		Blanco		_		C018-011
U	ser: CCW	<u> </u>			_	_	
	Agency or organiz	ation name: DRMS					
FERTI	LIZING						
Materia	ıls						
Desc	cription		Units / Acre	Unit	Cos	t / Unit	Cost /Acre
					\$		\$
					Tot	al Fertilizer Materials	
						Cost/Acre	\$0.00
							\$
			Total	l Fertilizer <i>A</i>	applicatio	n Cost/Acre	\$0.00
<u> </u>	<u>NG</u>						****
Desc	cription						Cost /Acre
							\$
				To	otal Tillin	g Cost/Acre	\$0.00
<u>SEEDI</u>	<u>NG</u>						
Consider	1 NA ' -				Rate –	Seeds	Cost /Acre
Seed	l Mix				PLS	per SQ.	Cost /Acre
					LBS /	FT SQ.	
					Acre		
Allea	ıli Sacaton				0.10	3.90	\$2.85
	ıli Sacaton an Ricegrass - Nespa	r			0.10 0.40	3.90 1.29	\$2.85 \$3.55

Bluebunch Wheatgrass - Secar

Crested Wheatgrass - Nordan

Russian Wildrye - Bozoisky

Sandberg Bluegrass - VNS

Bottlebrush Squirreltail

Canby Bluegrass - Canbar

\$5.44

\$2.05

\$15.60

\$12.96

\$3.25

\$1.68

0.50

0.20

4.00

2.00

0.20

0.20

1.61

4.25

8.03

0.88

4.25

18.37

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Saltbush, Four Wing	2.00	2.75	\$25.00
Saltbush, Shadscale	0.50	0.75	\$5.00
Yarrow, White	0.10	6.36	\$4.00
Totals Seed Mix	19.20	99.54	\$149.52

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/A	Acre \$267.22

MULCHING and MISCELLANEOUS

Materials

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

Application

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

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:	0.97	Cost /Acre:	\$416.74
Estimated Failure Rate:	50%	Cost /Acre*:	\$416.74
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost: \$404.24			

Reseeding Job Cost:	\$202.12
Total Job Cost:	\$606
Job Hours:	10.00