COST SUMMARY WORK

: _	Bad Boys Pit	Permit Action:	AM-01		Permit/Job	#: <u>M1996081</u>
PR	OJECT IDENTIFICATION					
	Task #: 000 Sta	te: Colorado			Abbreviation:	None
	Date: 11/20/2018 Count				Filename:	96-081
	User: ERR				-	
	Agency or organization name:	DRMS				
TA	SK LIST (DIRECT COSTS)					
k			Form	Fleet	Task	
	Description		Used	Size	Hours	Cost
	Backfill Pit		DOZER	$\frac{1}{1}$	54.86	\$11,439.00
	Replace Topsoil		DOZER REVEGE	$\frac{1}{1}$	3.95 6.00	\$824.00 \$2,527.00
.	Revegetate the Site Mob/Demob of Reclamation Equipm		MOBILIZE	$-\frac{1}{1}$	5.67	\$2,527.00
						. ,
			SUBT	OTALS:	70.48	\$16,520
	DIRECT COSTS EDHEAD AND PROFIT.		SUBTO	OTALS:	70.48	\$10,520
	ERHEAD AND PROFIT:		SUBT	OTALS:		
	ERHEAD AND PROFIT: Liability insurance: 2.02		SUBT	OTALS:	Total = \$3	333.70
	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05		SUBT	OTALS:	Total = \$3 Total = \$1	333.70 73.46
	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00		SUBT	OTALS:	$Total = \begin{array}{c} 33 \\ Total = \end{array}$ $Total = \begin{array}{c} 31 \\ 51 \\ Total = \end{array}$	333.70 73.46 0.00
	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05		SUBT		$Total = \begin{array}{c} \$3\\ Total = \begin{array}{c} \$3\\ Total = \\ \$0\\ Total = \\ \$1\\ Total = \\ \$1\\ \end{array}$	333.70 73.46 0.00 ,652.00
	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00	CONT		TOTAI	$Total = \begin{array}{c} \$3 \\ Total = \begin{array}{c} \$1 \\ Total = \begin{array}{c} \$0 \\ Total = \end{array} \\ Total = \begin{array}{c} \$1 \\ \$1 \\ Total = \end{array} \\ 0 & P = \begin{array}{c} \$2 \\ \$2 \\ \end{array}$	333.70 73.46 0.00 ,652.00 2,159.16
	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00	CONTE	SUBTO	TOTAI	$Total = \begin{array}{c} \$3 \\ Total = \begin{array}{c} \$1 \\ Total = \begin{array}{c} \$0 \\ Total = \end{array} \\ Total = \begin{array}{c} \$1 \\ \$1 \\ Total = \end{array} \\ 0 & P = \begin{array}{c} \$2 \\ \$2 \\ \end{array}$	333.70 73.46 0.00 ,652.00
OV	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00		RACT AMOUNT	TOTAI	$Total = \begin{array}{c} \$3 \\ Total = \begin{array}{c} \$1 \\ Total = \begin{array}{c} \$0 \\ Total = \end{array} \\ Total = \begin{array}{c} \$1 \\ \$1 \\ Total = \end{array} \\ 0 & P = \begin{array}{c} \$2 \\ \$2 \\ \end{array}$	333.70 73.46 0.00 ,652.00 2,159.16
OV	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00 Profit: 10.00 GAL - ENGINEERING - PROJECT M Financial warranty processing (legal/	ANAGEMENT:	RACT AMOUNT	TOTAI	$Total = \begin{array}{c} \$3\\ Total = \begin{array}{c} \$1\\ Total = \end{array} \\ Total = \begin{array}{c} \$1\\ \$1\\ O \& P = \end{array} \\ O \& P) = \begin{array}{c} \$1\\ \$1\\ \end{array}$ $Total = \begin{array}{c} 0. \end{array}$	333.70 73.46 0.00 ,652.00 2,159.16 8,679.16
OV	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00 Profit: 10.00 GAL - ENGINEERING - PROJECT M Financial warranty processing (legal/Engineering work and/or contract/bi	ANAGEMENT: (related costs): d preparation:	0.00 0.00	TOTAI	$Total = \begin{array}{c} 33 \\ Total = \end{array}$ $Total = \begin{array}{c} 30 \\ Total = \end{array}$	333.70 73.46 0.00 ,652.00 2,159.16 8,679.16
OV	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00 Profit: 10.00 GAL - ENGINEERING - PROJECT M Financial warranty processing (legal/	ANAGEMENT: (related costs): d preparation:	RACT AMOUNT	TOTAI	$Total = \begin{array}{c} 33 \\ Total = \end{array}$ $Total = \begin{array}{c} 30 \\ Total = \end{array}$	333.70 73.46 0.00 ,652.00 2,159.16 8,679.16
OV	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00 Profit: 10.00 GAL - ENGINEERING - PROJECT M Financial warranty processing (legal/Engineering work and/or contract/birely Reclamation management and/or a	ANAGEMENT: (related costs): d preparation:	0.00 0.00	TOTAI	Total =	333.70 73.46 0.00 ,652.00 2,159.16 8,679.16
OV	ERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00 Profit: 10.00 GAL - ENGINEERING - PROJECT M Financial warranty processing (legal/Engineering work and/or contract/birely Reclamation management and/or a	ANAGEMENT: related costs): d preparation: dministration:	0.00 0.00 5.00 0.00	TOTAI	$Total = \begin{array}{c} & \$3 \\ Total = & \$1 \\ Total = & \$6 \\ Total = & \$1 \\ O \& P = & \$2 \\ O \& P) = & \$1 \\ \end{array}$ $Total = \begin{array}{c} & 0. \\ \$6 \\ \hline Total = & \$6 \\ \hline Total = & \$6 \\ \hline \end{array}$	333.70 73.46 0.00 ,652.00 2,159.16 8,679.16 00 0.00 0.33.96

BULLDOZER WORK

Task description:	Backfill Pit				_
: Bad Boys Pit	Pe	rmit Action:	AM-01	Permit/Jol	b#: <u>M1996081</u>
PROJECT IDENTIFIC	<u>CATION</u>				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: 11/20/2018	County:	Teller		Filename:	96-081
User: ERR					
Agency or organi	zation name: DI	RMS			
HOURLY EQUIPMEN	T COST				
-	D8T - 8SU		_		
Horsepower: 310			<u> </u>		
	i-Universal		=		
Attachment: NA			_		
	r day		_		
Data Source: (CR	G)		_		
Cost Breakdown:		1	TT:'1' 0/		
O manufacture of the control of the		¢02.62	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:		\$93.62 \$73.35	NA 100		
Ripper own.					
Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.52	NA		
MATERIAL QUANTI	<u> FIES</u>				
Initial Volume: 27,77 Swell factor: 1.000 Loose volume: 27,77		<u>_</u>			
Source of estimated volume		on, mov nit 1	00' x 150' x 50'		
Source of estimated world factor:			00 x 130 x 30		
HOURLY PRODUCTI					
Average push distance:	150 feet				
Unadjusted hourly production:	634.3 LCY	/hr			
Materials consistency des	cription: Partly	consolidated	stockpile 1.1		
Average push	-10 %				
gradient:					
Average site altitude:	9,765 feet				
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock	c - 50% Rock	, 50% Earth		
Job Condition Correction F Operator S		750	Source (AVG.)		

Material consistency:	1.100	(CAT HB)
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7982

Adjusted unit production:

Adjusted fleet production:

506.30 LCY/hr

506.3 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.412/LCY

Total job time: 54.86 Hours
Total job cost: \$11,439

BULLDOZER WORK

Task description:	Replace Topsoil			
Bad Boys Pit	Permit Action:	AM-01	Permit/Jo	b#: <u>M1996081</u>
PROJECT IDENTIFI	CATION			
Task #:002	State: Colorado		Abbreviation:	None
Date: 11/20/2018	8 County: Teller		Filename:	M081-002
User: ERR				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	NT COST			
	t D8T - 8SU			
Horsepower: 310				
	mi-Universal			
Attachment: NA		<u> </u>		
	per day	<u> </u>		
Data Source: (Cl	RG)	<u> </u>		
Cost Breakdown:	1	TT/:1: -: 0/		
Oranga malalar Const/III	ф02 <i>(</i> 2	<u>Utilization %</u>		
Ownership Cost/Hour:	\$93.62 \$73.35	NA 100		
Operating Cost/Hour: Ripper own.	\$73.35			
Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$41.52	NA		
Total Fleet Cost/Hour: MATERIAL QUANT	\$208.49 ITIES			
T '.' 137 1 0 40	20			
Initial Volume: 2,42				
Swell factor: 1.00	-			
Loose volume: 2,42	20 LCY			
Source of estimated volu		acres		
Source of estimated swe	ell Cat Handbook			
factor:	<u>-</u>			
HOURLY PRODUCT	TION			
Average push distance:	150 feet			
Unadjusted hourly	634.3 LCY/hr			
production:	UJ+.J LC I/III			
Materials consistency de	escription: Partly consolidated	l stockpile 1.1		
·		•		
Average push	-10 %			
gradient:				
Average site altitude:	9,765 feet			
Material weight:	1,600 lbs/LCY			
Weight description:	Top Soil			
Job Condition Correction	Factor_	Source		
Operator		(AVG.)		

Material consistency:	1.100	(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:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9650

Adjusted unit production:

Adjusted fleet production:

612.10 LCY/hr

612.1 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.341/LCY

Total job time: 3.95 Hours
Total job cost: \$824

REVEGETATION WORK

Bad Boys Pit	Pe	rmit Action: AM-	-01		Permit/Job#	: <u>M1996081</u>
ROJECT IDENTIFICA	<u> FION</u>					
Task #: 003	State:	Colorado		Abbr	reviation:	None
Date: 11/20/2018	County:	Teller		F	Filename:	M081-003
User: ERR	_					
Agency or organizat	ion name: DF	RMS				
ERTILIZING						
aterials						
Description		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
Ammonium nitrate, 33-0-0		121.20	pound	\$0.34		\$41.21
Triple superphosphate, 0-4	6-0	86.90	pound	\$0.44		\$38.24
				Total	l Fertilizer Materials	
					Cost/Acre	\$79.44
pplication Description						Cost /Acre
	EANS 32 01 90	.13 0120)				Cost /Acre \$34.72
Description	EANS 32 01 90		l Fertilizer A	pplication	Cost/Acre	
Description Tractor towed spreader (M	EANS 32 01 90		l Fertilizer A	pplication	Cost/Acre	\$34.72
Description Tractor towed spreader (M	EANS 32 01 90		l Fertilizer A	pplication	Cost/Acre	\$34.72
Description Tractor towed spreader (M	EANS 32 01 90		l Fertilizer A	pplication	Cost/Acre	\$34.72 \$34.72
Description Tractor towed spreader (M ILLING Description	EANS 32 01 90				Cost/Acre	\$34.72 \$34.72 Cost /Acre
Tractor towed spreader (M ILLING Description	EANS 32 01 90					\$34.72 \$34.72 Cost /Acre \$92.77
Description Tractor towed spreader (M LLING Description Chisel plowing {DMG}	EANS 32 01 90		To	tal Tilling Rate – PLS LBS /		\$34.72 \$34.72 Cost /Acre \$92.77
Description Tractor towed spreader (M LLING Description Chisel plowing {DMG}	EANS 32 01 90		To	tal Tilling Rate – PLS	Cost/Acre Seeds per SQ.	\$34.72 \$34.72 Cost /Acre \$92.77 \$92.77
Description Tractor towed spreader (M LLING Description Chisel plowing {DMG} EEDING Seed Mix			To	tal Tilling Rate – PLS LBS / Acre	Cost/Acre Seeds per SQ. FT	\$34.72 \$34.72 Cost /Acre \$92.77 \$92.77
Description Tractor towed spreader (M LLING Description Chisel plowing {DMG} EEDING Seed Mix Meadow Brome - Fleet Arizona Fescue - Redondo Russian Wildrye - Bozoisk	y		To	Rate – PLS LBS / Acre 3.30 1.60 4.00	Seeds per SQ. FT 7.62 18.37 16.07	\$34.72 \$34.72 \$34.72 Cost /Acre \$92.77 \$92.77 Cost /Acre \$42.50 \$19.39 \$25.92
Description Tractor towed spreader (M LLING Description Chisel plowing {DMG} EEDING Seed Mix Meadow Brome - Fleet Arizona Fescue - Redondo	y Sodar		To	tal Tilling Rate – PLS LBS / Acre 3.30 1.60	Seeds per SQ. FT 7.62 18.37	\$34.72 \$34.72 \$34.72 Cost /Acre \$92.77 \$92.77 Cost /Acre \$42.50 \$19.39

Totals Seed Mix

Application

\$222.68

90.94

31.60

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

MULCHING and MISCELLANEOUS

Materials

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

Application

Description	Cost /Acre
	\$
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:
 3
 Cost /Acre:
 \$696.83

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$582.67

*Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: \$2,090.49

Reseeding Job Cost: \$437.00

Total Job Cost: \$2,527

Job Hours: 6.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob of Rec	lamation Equipi	ment		
e: Bad Boys Pit	Permi	t Action: AM-0	1	Permit/Job	#: <u>M1996081</u>
PROJECT IDENTIFICATI	<u>ION</u>				
Task #: 004 Date: 11/20/2018 User: ERR		colorado celler		Abbreviation: _ Filename: _	None M081-004
Agency or organization	n name: DRMS	S			
Truck Tractor Desc		ERIC ON-HIGHV	Cost Data	Source: C	per day RG Data DIESEL POWERED,
Truck Trailer Desc	cription:		ING GOOSENECK RAILER (25T, 507	, DROP DECK	K EQUIPMENT
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33		
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07	<u></u>	
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66		
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39		
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45		

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$102.55	\$125.45	1	\$228.00	\$125.45	\$250.00

Subtotals: \$228.00 \$125.45 \$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	\$74.99	1	\$74.99	\$74.99

Subtotals: **\$74.99 \$74.99**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: COLORADO SPRINGS
Total one-way travel distance: 52.60 miles
Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
 Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$1,554.29

\$175.31

Transportation Cycle Time:

	Non-		
	Roadable	Roadable	
	Equipment	Equipment	
Haul Time (Hours):	1.17	1.17	
Return Time (Hours):	1.17	1.17	
Loading Time (Hours):	0.25	NA	
Unloading Time (Hours):	0.25	NA	
Subtotals:	2.84	2.34	

JOB TIME AND COST

Total job cost: 5.68 Hours

Total job cost: \$1,730