#### **COST SUMMARY WORK**

Task description: ite: Amazonites	Cost Summary  Permit Action:	2017 Cost Estimate	Permit/Job#	#: <u>M2014042</u>
PROJECT IDENTIFIC           Task #:         000           Date:         10/5/2017           User:         ERR	State: Colorado County: Teller		_	None M042-000
Agency or organiz				

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
001	Backfill Dig Area	DOZER	1	4.48	\$578.00
002	Replace Topsoil on Dig Area	DOZER	1	0.10	\$13.00
003	Rip Access Roads	RIPPER	1	1.41	\$183.00
004	Replace Topsoil on Access Roads	DOZER	1	1.50	\$193.00
005	Revegetate the Site	REVEGE	1	2.00	\$1,465.00
006	Two Laborers for Reveg and Demolish Tasks	MISCTRUK	1	3.00	\$226.00
007	Remove Gates and Cables	DEMOLISH	1	1.50	\$190.76
800	Mob/Demob	MOBILIZE	1	5.53	\$1,480.00
		OTALS:	19.52	\$4,329	

### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance: 2.02 Total = \$87.45 \$45.45 Performance bond: 1.05 Total = Job superintendent: 0.00 Total = \$0.00 Profit: Total = \$432.90 10.00

TOTAL O &  $P = \frac{$565.80}{}$ 

CONTRACT AMOUNT (direct + O & P) = \$4,894.80

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00 Total = 0.00 Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 0.00 Total = 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$810.54

TOTAL BOND AMOUNT (direct + indirect) = \$5,139.54

# **BULLDOZER WORK**

Task description:	Backfill Dig Area				
e: Amazonites	Perm	it Action:	2017 Cost Estimate	Permit/Jo	b#: <u>M2014042</u>
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 001 Date: 10/5/2017 User: ERR		Colorado Teller		Abbreviation: Filename:	None M042-001
Agency or organ	ization name: DRM	IS			
HOURLY EQUIPME	NT COST				
	D6T LGP		_		
Horsepower: 200			_		
	aight		_		
	hank ripper		_		
Data Source: (CF	er day RG)		_		
Cost Breakdown:		1			
One and the Control		¢42.25	<u>Utilization %</u>		
Ownership Cost/Hour:		\$43.25 \$35.17	NA 100		
Operating Cost/Hour: Ripper own.					
Cost/Hour:		\$5.33	NA		
Ripper op. Cost/Hour:	-	\$3.57	100		
Operator Cost/Hour:		\$41.85	NA		
Total Fleet Cost/Hour:  MATERIAL QUANTI  Initial Volume:709					
Swell factor: 1.33 Loose volume: 943 Source of estimated volumes Source of estimated swell factor:	LCY me: Application		x 15' plus 15' x 15' x :	<u>5'</u>	
HOURLY PRODUCT	<u>ION</u>				
Average push distance: Unadjusted hourly production:	50 feet 444.6 LCY/hr	•			
Materials consistency de	scription: Loose sto	ockpile 1.2			
Average push gradient:	0 %				
Average site altitude:	8,900 feet	<del>-</del> -			
Material weight:	2,900 lbs/LCY				
Weight description:	Decomposed rock -	50% Rock,	, 50% Earth		
Job Condition Correction Department		0	Source (AVG.)		

Material consistency:	1.200	(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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4739

Adjusted unit production:

Adjusted fleet production:

210.70 LCY/hr

210.7 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.613/LCY

Total job time: 4.48 Hours
Total job cost: \$578

# **BULLDOZER WORK**

Task description:	Replace Topsoil on Dig Ar	ea		
te: Amazonites	Permit Action	: 2017 Cost Estimate	Permit/Jol	o#: M2014042
PROJECT IDENTIFI	CATION			
Task #: 002 Date: 10/5/2017 User: ERR	State: Colorado County: Teller	)	Abbreviation: Filename:	None M042-002
Agency or organ	nization name: DRMS			
<b>HOURLY EQUIPME</b>	NT COST			
	t D6T LGP			
Horsepower: 20				
	raight			
	shank ripper per day			
<b>_</b>	RG)			
Cost Breakdown:				
Cost Broakdown.		Utilization %		
Ownership Cost/Hour:	\$43.25	NA		
Operating Cost/Hour:	\$35.17	100		
Ripper own. Cost/Hour:	\$5.33	NA		
Ripper op. Cost/Hour:	\$3.57	100		
Operator Cost/Hour:	\$41.85	NA		
Total Fleet Cost/Hour:  MATERIAL QUANT	\$129.17 ITIES			
Initial Volume: 27 Swell factor: 1.42 Loose volume: 39 I	29 LCY			
Source of estimated volumes Source of estimated swe factor:		13 sqft		
HOURLY PRODUCT	<u>TION</u>			
Average push distance:	50 feet			
Unadjusted hourly production:	444.6 LCY/hr			
Materials consistency de	escription: Loose stockpile 1.	2		
Average push gradient:	0 %			
Average site altitude:	8,900 feet			
Material weight:	1,600 lbs/LCY			
Weight description:	Top Soil			
Job Condition Correction Operator		Source (AVG.)		

Material consistency:	1.200	(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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production:

Adjusted fleet production:

382.04 LCY/hr

382.04 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.338/LCY

Total job time: **0.10** Hours

Total job cost: \$13

# **BULLDOZER RIPPING WORK**

Task description	1: <b>Rip</b> A	Access Road	ls					
Site: Amazonites		Per	mit Action:	2017 Cost E	stimate	Permit/Jol	b#: <u>M20140</u>	42
PROJECT ID	<u>ENTIFICATIO</u>	<u>N</u>						
Task #: 00	)3	State:	Colorado		Abl	oreviation:	None	
	0/5/2017	County:	Teller			Filename:	M042-003	
	RR	•			<del></del>			
Agency	or organization i	name: DR	RMS					
	UIPMENT CO							=
Basic	Machine: Cat	D6T LGP			Horsepower:		200	
Ripper At	tachment: 3-Sl	hank Ripper		<del>_</del> ;	Shift Basis:	1 p	per day	_
				_	Data Source:	((	CRG)	_
Cost Breakdown:	<u> </u>			1				
					Utilization %			
	Ownership Co			\$43.25	NA 100	_		
D.	Operating Co			\$35.17	100			
	er Ownership Co			\$5.33 \$3.57	NA 100	_		
кір	per Operating Cos Operator Cos			\$41.85	100 NA	_		
	Total Unit Co			\$129.17	IVA	_		
	Total Ollit Co.	50 110u1		\$129.17				
	Total Fleet Coa	st/Hour:	\$129	.17				
MATERIAL (	UANTITIES		Selec	ted estimating	method: Are	ea		
Alternate Method			~					
	<u></u>	D.	.1 37.1	NT A	DCV		NTA	
smic: NA			nk Volume:	NA 1.50	BCY	1,210	NA	BCY
Area: 0.50	acres	Кір	Depth (ft):	1.50	Volume:	1,210		БСТ
	Source of estim	nated quantity	y: DRMS	Approximatio	n			=
HOURLY PRO	ODUCTION							
	<del>JDCC1101\</del>							
Seismic:	c	eismic Veloc	oits	NA	feet/se	econd		
Area:	D)	eisinic veioc		IVA	1000/80	cond		
Alca.	Average	Ripping De	enth:	1.64	mph			
		Ripping Wi		6.58	degree	es		
		Ripping Len		25.00	feet			
	Avera	ge Dozer Sp	eed:	88.00	feet			
	Average l	Maneuver Ti	ime:	0.25	feet			
		on per unit a	rea:	0.424	acres/l	hour		
Job Condition Co	orrection Factors							
Un	adjusted Hourly V	Unit Product	ion:	0.424	Acres	/hr		
		Site Altit		8,900	feet			
		Altitude A		1.00	(CAT			
		Job Efficien		0.83	(1 shif	•		
		Net Correct	ion:	0.83	multip	lier		
	Adjusted F	Hourly Unit I	Production:	0.35	Acres/hr			
		lourly Fleet I		0.35	Acres/hr			
JOB TIME AN	•	j = 10001						
Fleet size:	1	Grader(s)		Total job tim	ne:	1.42	Hours	
Unit cost:	\$366.834	Per acre		Total job cos	ct·	\$183		
Omi cost.	ψ500.054	i ci acit		I otal job co		ψΙΟΟ		

# **BULLDOZER WORK**

Task description:	Replace Topsoil on Acc	ess Roads			
Amazonites	Permit Act	ion: 2017 Cost Estimate	Permit/Job#: M2014042		
PROJECT IDENTIFI	<u>CATION</u>				
Task #: 004	State: Color	ado	Abbreviation:	None	
Date: 10/5/2017	County: Teller		Filename:	M042-004	
User: ERR					
Agency or organ	nization name: DRMS				
HOURLY EQUIPME	NT COST				
Basic Machine: Cat	D6T LGP				
Horsepower: 200	)				
Blade Type: Stra	aight				
Attachment: 3-si	hank ripper				
	er day				
Data Source: (CF	RG)				
Cost Breakdown:					
		<u>Utilization %</u>			
Ownership Cost/Hour:	\$43.				
Operating Cost/Hour:	\$35.	17 100			
Ripper own. Cost/Hour:	\$5.	33 NA			
Ripper op. Cost/Hour:	\$3.	57 100			
Operator Cost/Hour:	\$41.		<del></del>		
operator cosumour.		IVA			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$129.17 <b>\$129.17</b>				
MATERIAL QUANTI	<u>ITIES</u>				
Initial Volume: 400					
Swell factor: 1.42	9				
	LCY				
		<b>5</b>			
Source of estimated volu		on .5 acres			
Source of estimated swell	II Cat Halldbook				
factor:					
HOURLY PRODUCT	ION				
Average push distance:	50 feet				
Unadjusted hourly	444.6 LCY/hr				
production:	777.0 LC 1/III				
r					
Materials consistency de	scription: Loose stockpile	e 1.2			
Average push	0 %				
gradient:	• •				
Average site altitude:	8,900 feet				
•					
Material weight:	1,600 lbs/LCY				
Weight description:	Top Soil				
		-			
Job Condition Correction	Factor	Source			

Material consistency:	1.200	(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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production:

Adjusted fleet production:

382.04 LCY/hr

382.04 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)
Unit cost: \$0.338/LCY

Total job time: 1.50 Hours

Total job cost: \$193

# **REVEGETATION WORK**

Amazon	ites	Per	mit Action:	2017	Cost Estimat	<u>e</u>	Permit/Job#:	: <u>M2014042</u>
ROJECT	TIDENTIFICAT	<u>ΓΙΟΝ</u>						
Task #:	005	State:	Colorado			Abb	previation:	None
Date:		County:	Teller				Filename:	M042-005
User:	-	_						
Aş	gency or organizati	on name: DR	MS					
ERTILIZ	<u>ZING</u>							
<b>Iaterials</b>								
Descript	tion		Un Acı	its / re	Unit	Cost	: / Unit	Cost /Acre
						\$		\$
							al Fertilizer Materials Cost/Acre	\$0.00
pplication Descript								Cost /Acre
								\$
								Ψ
				Total	Fertilizer A	pplication	n Cost/Acre	\$0.00
ILLING				Total	Fertilizer A	pplication	n Cost/Acre	
	ion			Total	Fertilizer A	pplication	1 Cost/Acre	
Descript	t <b>ion</b> ng, light {(DMG}			Total	Fertilizer A	pplication	1 Cost/Acre	\$0.00
Descript				Total			n Cost/Acre	\$0.00 Cost /Acre \$175.31
Descript	ng, light {(DMG}			Total				\$0.00 Cost /Acre \$175.31

### Application

Mountain Brome - Bromar

Sandberg Bluegrass - VNS

Bluebunch Wheatgrass - Goldar

Idaho Fescue

Prairie Junegrass

Yarrow, Western

\$16.79

\$5.96

\$14.22

\$9.10

\$20.90

\$40.81

\$107.78

LBS/ Acre

3.86

0.74

1.58

0.30

0.50

7.42

14.40

**Totals Seed Mix** 

6.20

15.71

19.95

15.95

30.40

23.85

112.06

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	<b>Total Seed Application Cost/Acre</b>	\$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
Pine, Ponderosa	16	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.22	\$0.00	\$35.52
		Totals	Nursery Stoc	ek Cost / Acre	\$35.52

### **JOB TIME AND COST**

 No. of Acres:
 2
 Cost /Acre:
 \$585.83

 ed Failure Rate:
 25%
 Cost /Acre\*:
 \$585.83

Estimated Failure Rate: 25% Constitution 
\*Selected Replanting Work Items: TILLING, SEEDING, NURSERY

Initial Job Cost: \$1,171.66

Reseeding Job Cost: \$292.92

Total Job Cost: Job Hours: 2.00

# MISCELLANEOUS TRUCK WORK

Task description:	Two	Laborers for Reveg and	d Demolish Tasks		
ite: Amazonites		Permit Action:	2017 Cost Estimate	Permit/Job	#: <u>M2014042</u>
PROJECT IDENTIF	FICATIO	<u> N</u>			
Task #: 006 Date: 10/5/201 User: ERR	7	State: Colorado County: Teller		Abbreviation: _ Filename: _	None M042-006
Agency or org					
HOURLY EQUIPM	ENT CO	<u>ST</u>			
Make and Model Attachment 1 Attachment 2 Labor Unit 1	: Gener	Duty Pickup, 4x4, 1 T. C	Crew	Horsepowe Shift Basi Weigh	is: 1 per day
Labor Unit 2  Cost Breakdown:	: Gener	al Laborer			
Cost Broakdo wiii			Utilization %		
Ownership Cost Operating Cost Operator Cost	t/Hour:	\$6.57 \$12.86 \$55.95	NA 100 NA		
Total Unit Cos	t/Hour:	\$75.38			
Total Fleet Cos	st/Hour: _	\$75.38			
JOB TIME AND C	COST				
Fleet size:	1	Truck(s)	Total job time:	3.00	Hours
Unit cost: \$	75.38	/Hour	Total job cost:	\$226	

# **DEMOLITION WORK**

rask description	i: Remove	e Gates and Cables				
Site: <b>Amazonites</b>		Permit Action: 20	17 Cost Estimate	P	ermit/Job#:	M2014042
PROJECT IDENTIF	<u>ICATION</u>					
Task #: 007	St	ate: Colorado	1	Abbreviat	ion: None	
Date: 10/5/2017	Cou	nty: Teller		Filena	me: M042	2-007
User: ERR		•			·	
Agency of the Ag	or organization name	e: DRMS		Location	n adjustmen	t: 93.10 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
2 gates and 4 cables	NA	Railing, roadside guiderail posts only	6.00	EA	\$34.15	\$204.90
Job Hours:	1.50	Subtotal (unadjusted):	\$204.90	(adju	otal Cost usted for ocation):	\$190.76

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob				
ite: Amazonite #VIII	Permit	t Action:2017	Cost Estimate	Permit/Job	o#: <u>M2014042</u>
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 008	State: C	Colorado	A	Abbreviation:	None
Date: 10/5/2017	County: T	eller		Filename:	M042-008
User: ERR					
Agency or organization	n name: DRMS	S			
rigency of organization	mame. Diana				
EQUIPMENT TRANSPOR	T RIG COST				
EQUI MENT TRANSFOR	T KIG COST				
			~		l per day
			Cost Data	Source: C	CRG Data
Truck Tractor Desc	ription: GENI	ERIC ON-HIGH	WAY TRUCK TRA	ACTOR, 6X4, 1	DIESEL POWERED,
	1		400 HP (2ND H		•
Truck Trailer Desc	ription:	GENERIC FOLD	ING GOOSENECH	K, DROP DEC	K EQUIPMENT
	•	Γ	TRAILER (25T, 50'	Γ, AND 100T)	
C + D + 1.1					
Cost Breakdown:					
<b>Available Rig Capacities</b>	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		
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66	<u></u>	
Helper Cost/Hour	\$0.00	\$25.39	\$25.39		

#### **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

\$88.67

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 D6T LGP	28.63	\$48.58	\$117.55	1	\$166.13	\$117.55	\$250.00

\$125.45

\$117.55

Subtotals: \$166.13 \$117.55 \$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	\$75.38	1	\$75.38	\$75.38

Subtotals: \$75.38 \$75.38

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: COLORADO SPRINGS
Total one-way travel distance: 51.00 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:

\$1,309.14

\$170.86

#### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.13	1.13
Return Time (Hours):	1.13	1.13
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	2.77	2.27

### **JOB TIME AND COST**

Total job cost: 5.53 Hours

Total job cost: \$1,480