COST SUMMARY WORK

Т	Cask description: Re	clamation Cost Estimate				
Site:	R.B. Pit	Permit Action:	2022-04-13 FW Estimate		Permit/Jo	b#: <u>M2022002</u>
<u>Pl</u>	ROJECT IDENTIFICAT	<u>ION</u>				
	Task #: 000 Date: 4/13/2022 User: DMC	State: Colorado County: Chaffee		A	Abbreviation: Filename:	None M002-000
	Agency or organizatio	n name: DRMS				
<u>T</u>	ASK LIST (DIRECT COS	STS)				
Task	Description		Form Used	Fleet Size	Task Hours	Cost
01a	Highwall reduction to 3H:	1V	DOZER	1	224.44	\$38,222
02a	Rip Pit Floor		RIPPER	1	30.90	\$5,581
03a	Spread topsoil		DOZER	1	82.82	\$14,105
04a	Revegetation		REVEGE	1	25.00	\$48,916
05a	Mobilize Reclamation Cre	w/Equipment	MOBILIZE	1	2.91	\$3,085
			SUBTO	TALS:	366.07	\$109,909
<u>IN</u>	DIRECT COSTS					
O'	VERHEAD AND PROFIT:					
	Liability insurance:	2.02			Total = \$	2,220
	Performance bond:	1.05				51,154
	Job superintendent:	183.04				13,184
	Profit:	10.00				10,991
	110110.	10.00		TOTAL		27,549
		CONTI	RACT AMOUNT			137,458
LE	EGAL - ENGINEERING - PR	OJECT MANAGEMENT:				
	Financial warranty process	ing (legal/related costs).	\$500		Total = \$	500
	Engineering work and/or		0.00	-		0
	Reclamation managemen		5.00	-		6,873
		CONTINGENCY:	0.00		Total = \$	0

TOTAL BOND AMOUNT (direct + indirect) = \$144,831

TOTAL INDIRECT COST = \$34,922

BULLDOZER WORK

Task description:	Highwall Reduc	tion to 3H:1	V		
ee: R.B. Pit	Per	rmit Action:	2022-04-13 FW Estimate	Permit/Jol	o#: <u>M2022002</u>
PROJECT IDENTIF	ICATION				
Task #: 01A Date: 4/13/2022 User: DMC	State:	Colorado Chaffee		Abbreviation: Filename:	None M002-01a
Agency or orga	anization name:DF	RMS			
HOURLY EQUIPMI	ENT COST				
Horsepower: 18 Blade Type: So Attachment: N Shift Basis: 1	at D6T XL 85 emi-Universal A per day CRG)		 		
Cost Breakdown:	.KG)		_		
Ownership Cost/Hour: Operating Cost/Hour:		\$64.38 \$64.62	<u>Utilization %</u> NA 100		
Ripper own.		\$0.00	NA		
Cost/Hour: Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$41.30	NA		
Swell factor: 1.0	n 167 1000 167 LCY lume: Division TION	book	on, Mining & Safety		
Materials consistency of	description: Compa	cted fill or er	mbankment 0.9		
Average push gradient:	0 %				
Average site altitude:	8,150 feet				
Material weight:	2,550 lbs/LCY				
Weight description:	Earth - Dry packe	d			
Job Condition Correction	n 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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production:

Adjusted fleet production:

165.60 LCY/hr

165.6 LCY/hr

JOB TIME AND COST

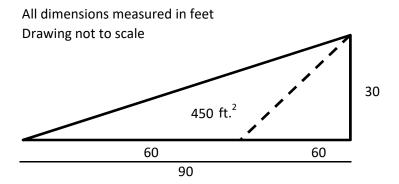
Fleet size: 1 Dozer(s)
Unit cost: \$1.028/LCY

Total job time: 224.44 Hours
Total job cost: \$38,222

Highwall reduction - backfill

Highwall Height (ft.)	30.00	
Length of Highwall (Ift.)	2230.00	
Initial Slope	2.00	H:1V
——— Desired Slope	3.00	H:1V

Volume of material to be moved (ft. 3) 1,003,500
Volume of material to be moved (yd. 3) 37,167



BULLDOZER RIPPING WORK

Task description:	Rip Pit Floor				
Site: R.B. Pit	Permit Action	2022-04-13 Estimate		ermit/Job#: <u>N</u>	12022002
PROJECT IDENTIFIC	<u>CATION</u>				
Task #: 02A	State: Colorado)	Abbrev	iation: None	<u> </u>
Date: 4/13/2022	County: Chaffee				2-02a
User: DMC					
Agency or organ	ization name: DRMS				
HOURLY EQUIPMEN	NT COST				
Basic Machine			Horsepower:	185	
Ripper Attachment	: 3-Shank Ripper		Shift Basis:	1 per day	
			Data Source:	(CRG)	
Cost Breakdown:		1			
			Utilization %		
	ship Cost/Hour:	\$64.38	NA 100		
	ating Cost/Hour:ship Cost/Hour:	\$64.62 \$5.99	100 NA		
	ting Cost/Hour:	\$4.30	100		
	rator Cost/Hour:	\$41.30	NA		
<u> </u>	Unit Cost/Hour:	\$180.59			
m . 11		20.50			
10tai i	Fleet Cost/Hour: \$18	80.59			
eismic: NA Area: 19.06 ac	Bank Volume eres Rip Depth (ft)		BCY Volume: 6	NA 51,500	BCY or C
Source	of estimated quantity: Exhib	oit L			
HOURLY PRODUCT	· · ·				
Seismic:					
Scisific.	Seismic Velocity:	NA	feet/secon	d	
		1,12			
Area:	Average Ripping Depth:	1.64	feet/pass		
	Average Ripping Deput. Average Ripping Width:	6.58	feet/pass		
	verage Ripping Length:	300.00	feet/pass		
	Average Dozer Speed:	88.00	feet/minut	e	
	verage Maneuver Time:	0.25	minutes/pa		
]	Production per unit area:	0.743	acres/hour	•	
Job Condition Correction 1	Factors				
Unadjusted	Hourly Unit Production:	0.743	Acres/hr		
	Site Altitude:	8,150	feet		
	Altitude Adj:	1.00	(CAT HB))	
	Job Efficiency:	0.83	(1 shift/da	y)	
	Net Correction:	0.83	multiplier		
Ad	justed Hourly Unit Production	: 0.62	Acres/hr		
	justed Hourly Fleet Production		Acres/hr		
JOB TIME AND COS	•				
		m . 1 . 1	20	20	
Fleet size: 1	Grader(s)	Total job tim	ne: 30.9	7 U	Hours

Unit cost: \$292.805 Per acre Total job cost: \$5,581

BULLDOZER WORK

Task description:	Spread topsoil				
e: R.B. Pit	Pe	rmit Action:	2022-04-13 FW Estimate	Permit/Jol	o#: <u>M2022002</u>
PROJECT IDENTI	FICATION				
Task #: 03A Date: 4/13/202 User: DMC	State:	Colorado Chaffee		Abbreviation: Filename:	None M002-03a
Agency or org	ganization name: DI	RMS			
HOURLY EQUIPM	ENT COST				
Horsepower:	Cat D6T XL 185 Semi-Universal		_ _ _		
Attachment: Shift Basis:	NA I per day (CRG)		_ _ _		
Cost Breakdown:	(CKU)		_		
Ownership Cost/Hou		\$64.38	Utilization % NA		
Operating Cost/Hou Ripper own	n.	\$64.62 \$0.00	100 NA		
Cost/Hou Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou		\$41.30	NA		
Swell factor: 1.	1,586 .000 1,586 LCY olume: Division Well Cat Hand	lbook	on, Mining & Safety		
•	description: Loose	stockpile 1.2			
Average push gradient:	0 %				
Average site altitude:	8,150 feet				
Material weight:	1,600 lbs/LCY				
Weight description:	Top Soil				
Job Condition Correction	on Factor		Source		

Operator Skill:	0.750	(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:

260.63 LCY/hr

260.63 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.653/LCY

Total job time: 82.82 Hours
Total job cost: \$14,105

REVEGETATION WORK

R.B. Pit		Permit A		2-04-13 FW mate	Permit/Job	#: <u>M2022002</u>
ROJECT	<u>IDENTIFICA</u>	<u>TION</u>				
Task #:	04A	State: Col	lorado		Abbreviation:	None
Date:	4/13/2022	County: Cha	affee		Filename:	M002-04a
User:	DMC	<u>—</u>				
Ago	ency or organizat	tion name: DRMS				
ERTILIZ	<u>ING</u>					
aterials						
Descripti	on		Units / Acre	Unit	Cost / Unit	Cost /Acre
					\$	\$
					Total Fertilizer	
					Materials Cost/Acre	\$0.00
pplication						\$0.00
plication Descripti	on					\$0.00 Cost /Acre
	on					Cost /Acre
	on		Tota	l Fertilizer A _I		
	on		Tota	l Fertilizer A _I	Cost/Acre	Cost /Acre
Descripti			Tota	l Fertilizer Ap	Cost/Acre	Cost /Acre
Descripti LLING Descripti Disc harro	on owing, 6" deep (I	MEANS 32 91 13.23 6	6100)	l Fertilizer A _I	Cost/Acre	Cost /Acre \$ \$0.00
Descripti LLING Descripti Disc harro	on owing, 6" deep (I	MEANS 32 91 13.23 6 EANS 31 31 16.13 31	6100)	l Fertilizer Ap	Cost/Acre	Cost /Acre \$ \$0.00

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.50	18.60	\$6.11
Rye, Perennial Tetraploid - Tetra-Plus	2.00	11.34	\$3.60
Crested Wheatgrass - Hy-Crest	1.50	6.89	\$5.96
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Pubescent Wheatgrass - Luna	1.50	3.10	\$5.10
Dahurian Wildrye	1.50	6.03	\$6.06
		52.61	\$33.49

A	pplication			
	Totals Seed Mix	10.00		
	70 4 1 C 13 M	10.00		

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

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$307.02	\$614.04
Total Mulch Materials Cost/Acre				\$614.04

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$71.57
Power mulcher (MEANS 32 91 13.16 0350)		\$106.29
	Total Mulch Application Cost/Acre	\$177.86

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:
 26.76
 Cost /Acre:
 \$1,462.35

 nated Failure Rate:
 25%
 Cost /Acre*:
 \$1,462.35

Estimated Failure Rate: 25% Cost *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$39,132.49

Reseeding Job Cost: \$9,783.12

Total Job Cost: Job Hours: \$25.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mobilize Reclamation C	rew/Equipment		
ite: R.B. Pit	Permit Acti	on: 2022-04-13 FW Estimate	/ Permit/Jo	b#: <u>M2022002</u>
PROJECT IDENTIFIC	<u>ATION</u>			
Task #: 05A	State: Colora	do	Abbreviation:	None
Date: 4/13/2022	County: Chaffe	e	Filename:	M002-05a
User: DMC				
EQUIPMENT TRANSP	PORT RIG COST		01:0.1	
		•		1 per day CRG Data
Truck Tractor	Description: GENERIC		UCK TRACTOR, 6X4, (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer	Description: GENE		OSENECK, DROP DEC (25T, 50T, AND 100T)	-
Cost Breakdown:				

26-50 Tons

\$37.94

\$50.48

\$20.54

\$23.53

\$132.49

51+ Tons

\$47.67

\$56.21

\$20.54

\$23.53

\$147.95

Helper Cost/Hour: Total Unit Cost/Hour:

Ownership Cost/Hour:

Operating Cost/Hour:

Operator Cost/Hour:

NON ROADABLE EQUIPMENT:

0-25 Tons

\$21.28

\$26.55

\$20.54

\$0.00

\$68.37

Available Rig Capacities

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D6T XL	25.01	\$70.37	\$68.37	1	\$138.74	\$68.37	\$250.00
CAT 906H	6.21	\$20.06	\$68.37	1	\$88.43	\$68.37	\$250.00
Drill/Broadcast	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$14.98	\$68.37	1	\$83.35	\$68.37	\$250.00
(Bowie LD-90)							

Subtotals: \$386.87 \$273.48 \$1,000.00

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. Crew	\$20.51	1	\$20.51	\$20.51

5u0i0iais. 520.51 520.51	Subtotals:	\$20.51	\$20.51
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EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

SALIDA
miles
35.00
mph

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

\$3,075.61

\$9.38

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.23	0.23
Return Time (Hours):	0.23	0.23
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.46	0.46

JOB TIME AND COST

Total job time:	2.91	Hours
Total job cost:	\$3.085	