

Girardi - DNR, Chris <chris.girardi@state.co.us>

Peat Mine, M-1994-081- Updated Cost Estimate

1 message

Girardi - DNR, Chris <chris.girardi@state.co.us>

Fri, Jan 31, 2025 at 2:38 PM

Cc: Marcus Mortensen <mortensenmw@gmail.com>, Jared Ebert - DNR <jared.ebert@state.co.us>

Good afternoon,

Attached to this email is the Division's Cost Estimate to complete reclamation at the site. After our discussions regarding the reclamation liability cost cited in the September 2024 Inspection Report, I've made revisions to the estimate. Based on the 2024 inspection and distribution of peat stockpiles, the Division estimates the affected land to be approximately 20-30 acres and used 25 acres as the basis for acres needed to be revegetated.

Please provide any feedback or comments regarding the estimate within 2 weeks. After two weeks, the Division will send a Surety Increase Letter officially requesting the increase in surety.

Have a nice weekend, Chris

Chris Girardi

Environmental Protection Specialist Intern



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PeatMineCostEstimate_1.31.2025.pdf

COST SUMMARY WORK

te:	Peat Mine	Permit Actio	n: 2024 Inspection	1	Permit/Job#:	M199408	1
PR	OJECT IDENTIFICATION						
	Task #: 000	State: C	Colorado		Ab	breviation:	None
	Date: $1/31/2025$	County: A	Alamosa			Filename:	M081-000
	User: CMG						
<u>TA</u>	Agency or organization na ASK LIST (DIRECT COSTS)	me: DRMS	3				
ısk			Form	Fleet	Task		
	Description		Used	Size	Hours	Cost	
ask	Beschiption						
	Push peat stockpiles and grade site		SITEMAINT	1	8.00	\$2,753	
)1			SITEMAINT ENANCE	1	8.00	\$2,753 \$2,821	

REVEGE

MOBILIZE

INDIRECT COSTS

002

004

OVERHEAD AND PROFIT:

Revegetate disturbed areas

Mobilize reclamation equipment

Liability insurance: 2.02 Total = \$533 Performance bond: Total = \$277 1.05 Job superintendent: 22.18 Total = \$1,758 Profit: 10.00 Total = \$2,638

SUBTOTALS:

TOTAL O & P = \$5,205

\$18,443

\$2,360

\$26,377

CONTRACT AMOUNT (direct + O & P) = $\sqrt{31,582}$

25.00

2.96

44.35

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500 Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Reclamation management and/or administration: 5.00 Total = \$1,342

\$1,579

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$8,627

TOTAL BOND AMOUNT (direct + indirect) = \$35,004

SITE MAINTENANCE

Tas	k description	Push p	eat stockpiles and g	grade site			
Site: Pe	eat Mine		Permit Action:	2024 Inspection	Per	mit/Job#:	M1994081
PROJECT 1	IDENTIFIC.	<u>ATION</u>					
Task #: Date: User:	001A 1/7/2025 CMG	State: County:	Colorado Alamosa		Abbreviation Filename:		ne 081-001
Agency or	organization	name:	DRMS				
UNIT COST	ΓS						
Maintenai	nce Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost

Job Hours: 8.00 Total Cost: \$2,752.80	
--	--

8.00

EA

\$344.10

Cat D8T - 8SU

\$2,752.80

Grade out peat stockpiles

8.00

BULLDOZER WORK

Task description:		_ <u>Cı</u>	ıt down Hig	hwall in Parc	el D		
Peat M	ine		Permi	t Action:	2024 Inspection	Permit/Job#:	M1994081
PROJECT	IDENTIF	ICATIO	<u>N</u>				
Task #: Date: User:	001B 10/16/2 CMG	2024	State: County:	Colorado Alamosa		Abbreviation: Filename:	None M081-001A
Agency of	r organizat	ion name:		ORMS			
HOURLY	EQUIPM:	ENT CO	<u>ST</u>				
Basic Mac Horsepow Blade Typ Attachme Shift Basi Data Sour	ver:	Cat D8T 310 Semi-Un 3-shank 1 1 per day (CRG)	iversal ripper		- - - -		
	_	(CRG)			_		
Cost Breakdown: Ownership Cost/Hour: Operating Cost/Hour:			73.32 19.71		Utilization % NA 100		
Ripper ow Cost/Hour	vn.		.53		NA		
Ripper op	. Cost/Hou Cost/Hour:		00		0 NA		
	Cost/Hour et Cost/Hou L QUAN	ır: \$33	6.15 6.15				
Initial Volume Swell fact Loose vol	tor:	2,767 1.060 2,933 LCY	<i>Y</i>				
	estimated estimated		Divisio Cat Har		on, Mining & Safet	у	
HOURLY	PRODUC	TION					
Average p Unadjuste production		ce:	50 feet 1,400.0 L	CY/hr			
Materials descriptio	consistenc n:	у	Dry,	non-cohesive	0.8		
Average p		5 %					
	ite altitude		00 feet				
Material v	veight:	2.90	00 lbs/LCY				

Weight description:	Sand and gravel - Dry	

ob Condition Correction Fact	or Source	
Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2496	
Adjusted unit production:	349.44 LCY/hr	
Adjusted fleet production:	349.44 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.962/LCY
Total job time:	8.39 Hours
Total job cost:	\$2.821

REVEGETATION WORK

Peat M	line	Permi	t Action:	2024	Inspection	Permit/Job#:	M1994081
ROJECT	T IDENTIFICAT	<u> ION</u>					
Task #: Date: User:	002 1/8/2025 CMG	State: County:	Colorac			Abbreviation: Filename:	None M1994081
Agency o	or organization na	me:	RMS				
ERTILIZ	ZING						
aterials							
Descrip	ption			Units / Acre	Unit	Cost / Unit	Cost /Acre
						\$	\$
						Total Fertilizer Materials Cost/Acre	\$0.00
1							
oplicatio Descrip							Cost /Acre
							\$
Total F	Fertilizer Applica	tion Cost/Acre					\$0.00
LLING							
Descrip							Cost /Acre
Chisel p	plowing {DMG}						\$102.41
	Filling Cost/Acre						\$102.41

<u>SEEDING</u>

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Birdsfoot Trefoil - Empire	0.25	2.40	\$2.37
Big Bluegrass - Sherman	0.50	10.33	\$7.93
Meadow Brome - Fleet	3.00	2.75	\$15.67
Bluebunch Wheatgrass - Secar	1.00	3.21	\$10.51
Red Clover - Medium	0.50	3.10	\$3.52
White Dutch Clover - Alice	0.25	4.88	\$1.74
Sheep Fescue - Azay	0.50	7.81	\$2.42
Slender Wheatgrass - San Luis	2.00	7.30	\$12.07
Needlegrass, Green - Lodorm	2.00	8.31	\$17.29
Prairie Junegrass	0.15	7.97	\$7.31

Timothy - Climax	0.25	7.17	\$1.04
	10.40	65.04	004.05
Totals Seed Mix	10.40	65.24	\$81.87

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
Total Seed Application Cost/Acre	\$272.56

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$20.39	\$20.39
-				
Total Mulch Materials Cost/Acre				\$20.39

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$83.26
Total Mulch Application Cost/Acre	\$83.26

NURSERY STOCK PLANTING

Common Name	No/ Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock	Cost / Ac	re			\$0.00

JOB TIME AND COST

No. of Acres:	25	Cost /Acre:	\$560.49
Estimated Failure Rate:	50%	Cost /Acre*:	\$354.43
*Selected Replanting Work Items:	SEEDING	·	

Initial Job Cost: \$14,012.25

Reseeding Job Cost: \$4,430.38

Total Job Cost: \$18,443

Job Hours: 25.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Peat N	Mine	Perm	nit Action:	2024 Ins	spection	Peri	mit/Job#:	<u>M</u> 1	1994081
<u>PROJEC</u>	T IDENTIFICAT	<u>ION</u>							
Task #:	003	State:	Colorado			Abbreviat	tion:	None	
Date:	10/14/2024	County:	Alamosa		Filena		ename:	M1994	4081
User:	CMG								
Agency	or organization nar	ne:	DRMS						
EQUIPM	IENT TRANSPOR	T RIG COST	<u>Γ</u>						
Shift	basis:						1 n	er day	
							11)		
Cost I	Data Source:							G Data	
	Data Source:						CR	G Data	
			GENERIC ON			CK TRACTO	CR	G Data	POWERE
Trucl	Data Source: k Tractor Description	_	400 HP (2ND	HALF, 200	06)		CR OR, 6X4, I	G Data	
Trucl	Data Source:	_ :	400 HP (2ND GENERIC FO	HALF, 200 LDING GC	06) DOSENE		CR OR, 6X4, I	G Data	
Trucl	Data Source: k Tractor Description	_ :	400 HP (2ND	HALF, 200 LDING GC	06) DOSENE		CR OR, 6X4, I	G Data	
Trucl Truck	Data Source: k Tractor Description Trailer Description	_ :	400 HP (2ND GENERIC FO	HALF, 200 LDING GC	06) DOSENE		CR OR, 6X4, I	G Data	
Truck Truck Cost Brea	Data Source: k Tractor Description Trailer Description kdown:	: -	400 HP (2ND GENERIC FO TRAILER (25	HALF, 200 LDING GC T, 50T, AN	06) DOSENE ID 100T)	CK, DROP I	CR OR, 6X4, I	G Data	
Truck Truck Cost Brea Availab	Data Source: k Tractor Description Trailer Description kdown: le Rig Capacities	:	400 HP (2ND GENERIC FO TRAILER (25	HALF, 200 DLDING GC T, 50T, AN	06) DOSENE ID 100T) 51+ To	CK, DROP I	CR OR, 6X4, I	G Data	
Truck Truck Cost Brea Availab Ownersl	Data Source: k Tractor Description Trailer Description kdown: le Rig Capacities hip Cost/Hour:	0-25 Ton	400 HP (2ND GENERIC FO TRAILER (25 as 26-50 \$22.18	HALF, 200 DLDING GC T, 50T, AN Tons	06) DOSENE ID 100T) 51+ To \$23.94	CK, DROP I	CR OR, 6X4, I	G Data	
Truck Cost Brea Availab Ownersl Operatin	Data Source: k Tractor Description Trailer Description kdown: le Rig Capacities hip Cost/Hour: ng Cost/Hour:	0-25 Ton \$10.44 \$26.48	400 HP (2ND GENERIC FO TRAILER (25 as 26-50 \$22.18 \$54.55	HALF, 200 DLDING GC T, 50T, AN Tons	51+ To \$23.94 \$55.65	CK, DROP I	CR OR, 6X4, I	G Data	
Truck Cost Brea Availab Ownersl Operatir Operator	Data Source: k Tractor Description Trailer Description kdown: le Rig Capacities hip Cost/Hour: ng Cost/Hour: r Cost/Hour:	0-25 Ton	400 HP (2ND GENERIC FO TRAILER (25 as 26-50 \$22.18	HALF, 200 DLDING GC T, 50T, AN Tons 8 5	06) DOSENE ID 100T) 51+ To \$23.94	CK, DROP I	CR OR, 6X4, I	G Data	
Truck Truck Cost Brea Availab Ownersl Operatir Operator Helper O	Data Source: k Tractor Description Trailer Description kdown: le Rig Capacities hip Cost/Hour: ng Cost/Hour:	0-25 Ton \$10.44 \$26.48 \$22.52	400 HP (2ND GENERIC FO TRAILER (25 18 26-50 \$22.18 \$54.55 \$22.52	HALF, 200 DLDING GC T, 50T, AN Tons 8 5 2 3	06) DOSENE RD 100T) 51+ To \$23.94 \$55.65 \$22.52	ns	CR OR, 6X4, I	G Data	
Truck Cost Brea Availab Ownersl Operator Helper C Total Un	Data Source: k Tractor Description Trailer Description kdown: ble Rig Capacities hip Cost/Hour: ng Cost/Hour: r Cost/Hour: Cost/Hour: nit Cost/Hour:	0-25 Ton \$10.44 \$26.48 \$22.52 \$0.00 \$59.44	400 HP (2ND GENERIC FO TRAILER (25 18 26-50 \$22.18 \$54.55 \$22.52 \$23.53	HALF, 200 DLDING GC T, 50T, AN Tons 8 5 2 3	06) DOSENE ID 100T) 51+ To \$23.94 \$55.65 \$22.52 \$23.53	ns	CR OR, 6X4, I	G Data	
Truck Cost Brea Availab Ownersl Operator Helper C Total Un	Data Source: k Tractor Description Trailer Description kdown: le Rig Capacities hip Cost/Hour: ng Cost/Hour: r Cost/Hour: Cost/Hour:	0-25 Ton \$10.44 \$26.48 \$22.52 \$0.00 \$59.44	400 HP (2ND GENERIC FO TRAILER (25 18 26-50 \$22.18 \$54.55 \$22.52 \$23.53	HALF, 200 DLDING GC T, 50T, AN Tons 8 5 2 3	06) DOSENE ID 100T) 51+ To \$23.94 \$55.65 \$22.52 \$23.53	ns	CR OR, 6X4, I	G Data	
Truck Cost Brea Availab Ownersl Operator Helper C Total Un	Data Source: k Tractor Description Trailer Description kdown: ble Rig Capacities hip Cost/Hour: ng Cost/Hour: r Cost/Hour: Cost/Hour: hit Cost/Hour:	0-25 Ton \$10.44 \$26.48 \$22.52 \$0.00 \$59.44 MENT:	400 HP (2ND GENERIC FO TRAILER (25 \$2.18 \$54.55 \$22.52 \$23.53 \$122.7	HALF, 200 DLDING GC T, 50T, AN Tons 8 5 2 3 78	06) DOSENE ID 100T) 51+ To \$23.94 \$55.65 \$22.52 \$23.53	ns	CR OR, 6X4, I	G Data DIESEL QUIPME	

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)				fleet		
Cat D8T - 8SU	47.71	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Drill/Broadcast	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$250.00
Seeder with							
Tractor							

Subtotals: \$497.02 \$241.66 \$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T.	\$24.60	1	\$24.60	\$24.60
Crew				

Subtotals:	\$24.60	\$24.60
Buototais.	Ψ= 1.00	Ψ= 1.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	ALAMOSA	
Total one-way travel distance:	12.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,348.61	
'* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$11.81	
** one round trip, no haul rig:	ψ11.01	

Transportation Cycle Time:

	Non- Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.24	0.24
Return Time (Hours):	0.24	0.24
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.48	0.48

JOB TIME AND COST

Total job time:	2.96	Hours
Total job cost:	\$2,360	