COST SUMMARY WORK

Task description: 06-		06-2023 Update					
Site:		ool Lease ental Nahcolit		rmit Action:	06-2023	Permit/Job	o#: <u>M1999051</u>
<u>PR</u>	ROJECT	IDENTIFIC	CATION				
	Task #: Date: User:	ACY 6/26/2023 ACY	State: County:	Colorado Rio Blanco		Abbreviation: Filename:	None M051-ACY

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Plug and Abandon Water Monitoring wells	BOREHOLE	1	40.00	\$44,045
01b	Excavate and backfill around well head	EXCAVATE	1	16.00	\$1,378
02a	Decompact access road	RIPPER	1	3.34	\$759
03a	Grading well pads	DOZER	1	59.63	\$13,523
04a	Spread topsoil over re-graded well pads and well pad access	DOZER	1	8.09	\$1,727
05a	Revegetate 4.22 acres disturbance	REVEGE	1	16.00	\$10,157
06a	Initial Mobilization	MOBILIZE	1	11.24	\$7,218
06b	Secondary Mobilization	MOBILIZE	1	11.24	\$3,443
		<u>SUBTO</u>	TALS:	165.54	\$82,250

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,661
Performance bond:	1.05	Total =	\$864
Job superintendent:	82.77	Total =	\$6,219
Profit:	10.00	Total =	\$8,225
		TOTAL O & P =	\$16,969
		CONTRACT AMOUNT (direct + O & P) = $($	\$99,219

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$4,217
Reclamation management and/or administration:	5.00		\$4,961
CONTINGENCY:	3.00	Total =	\$2,468
	TOTAL II	NDIRECT COST =	\$29,114
TOTAL BO	\$111,364		

BOREHOLE SEALING WORK

,	Task description:	Plug and Al	bandon Water N	Aonitoring wells		
Site:	Rock School Lease Experimental Nahcolite		Permit Action:	06-2023	Permit/.	Job#: <u>M1999051</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>[</u>				
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	6/26/2023	County:	Rio Blanco		Filename:	M051-01a
User:	ACY					
	Agency or organizati	on name:	DRMS			

UNIT COSTS

Borehole	Sealing/Item Method					T T •/	
Description		Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
MWD-1	Portland cement grout - 6 in. (labor, equip, materials)	6"	1731	1,731.00	LF	\$6.32	\$10,939.92
MWU-2	Portland cement grout - 6 in. (labor, equip, materials)	6"	687	687.00	LF	\$6.32	\$4,341.84
MWD-2	Portland cement grout - 6 in. (labor, equip, materials)	6"	1703	1,703.00	LF	\$6.32	\$10,762.96
MWA-2	Portland cement grout - 8 in. (labor, equip, materials)	8"	1200	1,200.00	LF	\$7.03	\$8,436.00
MWB-2	Portland cement grout - 6 in. (labor, equip, materials)	6"	1398	1,398.00	LF	\$6.32	\$8,835.36
AM-2	Portland cement grout - 4 in. (labor, equip, materials)	4"	88	88.00	LF	\$5.55	\$488.40
All	Borehole location/identification marker (EA, material cost only)	4-8"	N/A	6.00	EA	\$37.50	\$225.00
All	Exposed casing removal - Calculate Circumference in Linear Feet	4-6"	6 x 19"	4.75	LF	\$3.26	\$15.49

Job Hours: 40.00

Total Cost: \$44,045.00

HYDRAULIC EXCAVATOR WORK

Task description:	Excavate and ba	ackfill arou	nd well head			
Rock School Lease	Pe	rmit Action:				
e: <u>Experimental Nahco</u>	lite Mine		06-2023	Pe	ermit/Job#:	M1999051
PROJECT IDENTIF	FICATION					
Task #: 01B	State:	Colorado		4 bbr	eviation:	None
Date: $6/26/2023$		Rio Blan			Filename:	M051-01b
User: ACY	County.	Kio Dian	0	1		10001-010
Agency or orga	anization name: D	RMS				
HOURLY EQUIPM	ENT COST					
Basic Machine:	Cat 307D 7'-3" St	tick		Horsepower:		56
Attachment 1:	ROPS Cab			Weight (MT):	7	.23
				Shift Basis:	1 pe	er day
				Data Source:		RG)
Cost Breakdown:				-		
COSt DIEakuowii.			Utilization %			
Ownership Cost/	/Hour: \$29	.15	NA			
Operating Cost			100			
Operator Cost	-		NA			
Total Unit Cost						
	· · · ·					
Total Fleet Cost	t/Hour: \$86	5.13	-			
MATERIAL QUAN	TITIES					
	540	CCY	Swell fac	ctor: 1.125		
	608	LCY				
				1 - 11 1 1 0		
	of estimated volume		$10^{\circ}W \ge 6^{\circ}D$ arour	nd 6 well heads for	or cut/cap	
Source of e	stimated swell factor	:: Cat Har	Iddook			
HOURLY PRODUC	TION					
Excavator Cycle Time (1	load buokat awing la	adad dumn	hughat awing on	nt.).		
	toad bucket, swillg it	<u>aueu, uump</u>	bucket, swing en	<u>ipty).</u>		
			Condition Descrip			
	Secondary Job C	Condition wit	thin Basic Descrip		GE	
			Cycle Time V	value: 0.242		minutes
Load Bucket Capacity						
				Bucket Size C	Class: Sm	all
Rated Capacit	.y: 0.20	LCY (h	eaped)			
Bucket Fill Facto			Earth Mixture (10	0%-105%) 1.025	i	
Adjusted Capacit	y: 0.21	LCY				
Job Condition Correction	n Factors	-	Cit	te Altitude: 6600	feet	
	<u>n i uciolo</u>			. / minude. <u>0000</u>	1001	
	1	Sourc				
Altitude Adj:	0.90	(CAT H				
Job Efficiency:	0.83	(1 shift/c				
Net Correction:	0.75	multiplie	er			
Un	adjusted Hourly Uni	t Production	: 50.83	LCY/Hour		
	Adjusted Hourly Uni			LCY/Hour		
	Adjusted Hourly Flee			LCY/Hour		
JOB TIME AND CO						
Fleet size:	1 Excava	tor	Fotal job time:	16.0	J	Hours
Unit cost: ¢2	.269 /LCY		Total ich cost	• ¢1 27	' Q	
Unit cost: \$2	.207 /LUI		Total job cost	: \$1,37	0	

BULLDOZER RIPPING WORK

	Task description:	Deco	mpact access road				
Site:	Rock School L Experimental		Permit Actio	on: 06-2023	Permit	/Job#:	M1999051
	PROJECT IDE	NTIFICATI	<u>ON</u>				
	Task #: 02A		State: Colora	do	Abbrevia	tion	None
		/2023	County: Rio Bl		Filena		M051-02a
	User: AC						11001 024
	Agency	or organization	name: DRMS				
	HOURLY EQU	U					
			D7R DS Series II LC	d	Uonconomon	2	40
	Ripper Atta		hank Ripper	JP	Horsepower: Shift Basis:		40 r day
	Ripper Atta	ciiiieiit. <u>5-5</u>			Data Source:		RG)
	Cost Breakdown:					<u> </u>	
	<u>Cost Dicardown.</u>				Utilization %		
		Ownership Co	ost/Hour:	\$92.78	NA		
		Operating Co		\$79.33	100		
		r Ownership Co		\$8.37	NA		
	Rippe	er Operating Co		\$4.99	100		
		Operator Co		\$41.30	NA		
		Total Unit Co	ost/Hour:	\$226.77			
		Total Fleet Co	ost/Hour:	\$226.77			
	MATERIAL Q	UANTITIES		Selected estimating	mathod: Araa		
	Alternate Methods			Selected estimating	method: <u>Area</u>		
		<u>.</u>					
eismic:	NA		Bank Volum		BCY		IA DOV
Area:	1.52	acres	Rip Depth (ft): 2.00	Volume: 4,905		BCY or CC
		Source of estir	nated quantity: Sta	ff estimate of road	lenght 4452 LF X 15"	W	
	HOURLY PRO	DUCTION					
		20011011					
	Seismic:	(Seismic Velocity:	NA	feet/second		
		L.	Seisinie Velocity.	INA			
	Area:						
			e Ripping Depth:	2.45	feet/pass		
			e Ripping Width:	6.50	feet/pass		
			Ripping Length: age Dozer Speed:	50.00 88.00	feet/pass feet/minute		
			Maneuver Time:	0.25	ninutes/pass		
		0	ion per unit area:	0.547	acres/hour	1	
	Job Condition Con						
			Unit Production:	0.547	Acres/hr		
	Olla	ajustea mouny					
			Site Altitude:	<u>6,660</u> 1.00	feet		
			Altitude Adj: Job Efficiency:	0.83	(CAT HB) (1 shift/day)		
			Net Correction:	0.83	multiplier		
			Hourly Unit Producti	on: 0.45	Acres/hr		
		Adjusted l	Hourly Fleet Producti	on: 0.45	Acres/hr		
	JOB TIME AN	D COST					
	Fleet size:	1	Grader(s)	Total job tim	ae: <u>3.35</u>		Hours
	Unit cost:	\$499.356	Per acre	Total job cos	st: \$759		

BULLDOZER WORK

	ase Vahcolite Mine	Per	mit Action:	06-2023	Permit/Job#:	M1999051
PROJECT IDEN	NTIFICATIO	<u>N</u>				
Task #: 03A		State:	Colorado		Abbreviation:	None
Date: 6/26/		County:	Rio Blanco)	Filename:	M051-03a
User: ACY	*					
Agency of	r organization n	ame: DF	RMS			
HOURLY EQUI	IPMENT CO	<u>ST</u>				
Basic Machine:	Cat D7R DS	Series II L	GP			
Horsepower:	240			_		
Blade Type:	Straight					
Attachment:	3-shank ripp	er				
Shift Basis:	1 per day					
Data Source:	(CRG)			_		
Cost Breakdown:						
	-		ф	Utilization %		
Ownership Cost/H			\$92.78	NA		
Operating Cost/H			\$79.33	100		
Ripper own. Cost/H Ripper op. Cost/H			\$8.37 \$4.99	<u>NA</u> 100		
Operator Cost/H			\$4.99			
Operator Cost/F	-10ur:		\$41.50	NA		
Fotal unit Cost/Hou Fotal Fleet Cost/Ho						
MATERIAL QU	JANTITIES					
Initial Volume:	8,712					
Initial Volume: Swell factor: Loose volume:	8,712 1.250 10,890 LCY	2.7 ac of	 nads grade at	avg of 2 ft cut/fill to b	lend	
Initial Volume: Swell factor: Loose volume: Source of estimated	8,712 1.250 10,890 LCY d volume:			n avg of 2 ft cut/fill to b	lend	
Initial Volume: Swell factor: Loose volume:	8,712 1.250 10,890 LCY d volume:	2.7 ac of Cat Hand		n avg of 2 ft cut/fill to b	lend	
Initial Volume: Swell factor: Loose volume: Source of estimated	8,712 1.250 10,890 LCY d volume: d swell factor:			n avg of 2 ft cut/fill to b	lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION	Cat Hand		n avg of 2 ft cut/fill to b	lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nce:	Cat Hand	book	n avg of 2 ft cut/fill to b	lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nce:	Cat Hand	book	n avg of 2 ft cut/fill to b 	lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nce: production:	Cat Hand 150 feet 369.6 LCY/	book		lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nce: production:	Cat Hand 150 feet 369.6 LCY/	/book		lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly Materials consisten Average push gradi	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nce: production: ient: 0 %	Cat Hand 150 feet 369.6 LCY/ Partly o	/book		lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nce: production: ient: 0 %	Cat Hand 150 feet 369.6 LCY/ Partly o	/book		lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly Materials consisten Average push gradi	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION ince: production: icy description: ient: 0 % ie: 6,600 f	Cat Hand 150 feet 369.6 LCY/ Partly o	/book		lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nce: production: ient: 0 % le: 2,550 1	Cat Hand 150 feet 369.6 LCY Partly of Seet	/hr consolidated i		lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud Material weight:	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION ince: production: ient: 0 % de: 6,600 f	Cat Hand 150 feet 369.6 LCY/ Partly of feet bs/LCY	/hr consolidated i		lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud Material weight: Weight description Iob Condition Corr Ope	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nnce: production: ient: 0 % le: 6,600 f 2,550 l : Earth - rection Factor erator Skill:	Cat Hand 150 feet 369.6 LCY/ Partly of Teet bs/LCY Dry packed 0.	/hr /hr consolidated a d 	stockpile 1.1 <u>Source</u> (AVG.)	lend	
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROI Average push dista Unadjusted hourly Materials consisten Average push gradi Average site altitud Material weight: Weight description Iob Condition Corr Ope	8,712 1.250 10,890 LCY d volume: d swell factor: DUCTION nnce: production:	Cat Hand 150 feet 369.6 LCY/ Partly of Seet bs/LCY Dry packed 0. 1.	/hr consolidated : 	stockpile 1.1	lend	

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)

Adjusted unit production:	182.62 LCY/hr
Adjusted fleet production:	182.62 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$1.242/LCY

Total job time:	59.63 Hours
Total job cost:	\$13,523

BULLDOZER WORK

Experimental	.ease Nahcolite Mine	Perr	nit Action:	06-2023		Permit/Job#:	M1999051
		-	-			_	
PROJECT IDE		_					
Task #: $04A$ Date: $6/2$	<u>6/2023</u>	State: County:	Colorado Rio Blanco	<u> </u>		Abbreviation: Filename:	None M051-04a
User: AC		county.	Rio Dianeo	0		Thename.	W1051 0-4
Agency	or organization n	ame: DR	MS				
HOURLY EQU	JIPMENT CO	<u>ST</u>					
Basic Machine		Series II LO	ЗР				
Horsepower							
Blade Type							
Attachment							
Shift Basis Data Source							
Cost Breakdown:							
				Utili	zation %		
Ownership Cost			\$92.78		NA		
Operating Cost			\$79.33		100		
Ripper own. Cost			\$0.00 \$0.00		NA		
Ripper op. Cost					100		
Operator Cost	Hour:		\$41.30		NA		
Total unit Cost/H	our: \$213.41	1					
Total Fleet Cost/H	Hour: \$213.41	1					
MATERIAL Q							
Initial Volume:	3,404 1.215		_				
Swell factor: Loose volume:	-						
Loose volume.							
с с <i>.</i> ; ,	4,136 LCY						
Source of estimat	ed volume:	6" over 4.					
Source of estimat Source of estimat	ed volume:	6" over 4. Cat Hand					
Source of estimat	ed volume: ed swell factor:						
Source of estimat	ed volume: ed swell factor: DDUCTION	Cat Hand					
Source of estimat HOURLY PRO Average push dist	ed volume: ed swell factor: DUCTION tance: 7	Cat Hand	book				
Source of estimat	ed volume: ed swell factor: DUCTION tance: 7	Cat Hand	book				
Source of estimat HOURLY PRO Average push dist	ed volume: ed swell factor: DUCTION tance: 77 y production: 5	Cat Hand 75 feet 594.6 LCY/	book	 bile 1.0			
Source of estimat <u>HOURLY PRC</u> Average push disi Unadjusted hourly Materials consiste	ed volume: ed swell factor: DDUCTION tance: 7 y production: 5 ency description:	Cat Hand 75 feet 594.6 LCY/	book hr				
Source of estimat <u>HOURLY PRC</u> Average push dis Unadjusted hourly	ed volume: ed swell factor: DUCTION tance: 7 y production: 5 ency description: dient: 0 %	Cat Hand 75 feet 594.6 LCY/ Consoli	book hr	 Dile 1.0			
Source of estimat <u>HOURLY PRC</u> Average push dist Unadjusted hourly Materials consisted Average push gra	ed volume: ed swell factor: DUCTION tance: 7 y production: 5 ency description: dient: 0 %	Cat Hand 75 feet 594.6 LCY/ Consoli eet	book hr	 bile 1.0			
Source of estimat HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu	ed volume: ed swell factor: DUCTION tance: y production: ency description: dient:0 % ide:6,600 for 1,600 ll	Cat Hand 75 feet 594.6 LCY/ Consoli eet bs/LCY	book hr				
Source of estimat HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push gra Average site altitu Material weight: Weight descriptio	ed volume: ed swell factor: DUCTION tance: 7 y production: 5 ency description: dient: 0 % ide: 6,600 fe 1,600 ll n: Top So	Cat Hand 75 feet 594.6 LCY/ Consoli eet bs/LCY	book hr	 bile 1.0	Source		
Source of estimat HOURLY PRO Average push dist Unadjusted hourly Materials consisted Average push gra Average site altitut Material weight: Weight description Job Condition Co	ed volume: ed swell factor: DUCTION tance: 7 y production: 5 ency description: dient: 0 % ide: 6,600 fa 1,600 ll n: Top So rrection Factor	Cat Handl 75 feet 594.6 LCY/ Consoli eet bs/LCY il	book hr		Source AB.AVG.)		
Source of estimat HOURLY PRO Average push disi Unadjusted hourly Materials consisted Average push gra Average site altitu Material weight: Weight description Job Condition Co O	ed volume: ed swell factor: DUCTION tance: 7 y production: 5 ency description: dient: 0 % ide: 6,600 fe 1,600 ll n: Top So	Cat Hand 75 feet 594.6 LCY/ Consoli eet bs/LCY il	book hr dated stockp		Source AB.AVG.) (CAT HB)		

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)

Adjusted unit production:	510.94 LCY/hr
Adjusted fleet production:	510.94 LCY/hr

Fleet size:	1 Dozer(s)
Unit cost:	\$0.418/LCY

Total job time:	8.09 Hours
Total job cost:	\$1,727

Page 1 of 2

REVEGETATION WORK

	Rock Sch	ool Lease		Permit Action:			
ite:	Experim	ental Nahcoli	te Mine	06-2	2023	Permit/Jol	b#: M1999051
			<u>CATION</u>				
				a. Calarada		Abbroviation	None
	Task #: Date: User:	05A 6/26/2023 ACY	Stat			Abbreviation: Filename:	None M051-05a

FERTILIZING

Materials

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

Application

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

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bitterbrush, Antelope	1.00	0.31	\$19.50
Great Basin Wildrye - Magnar	0.50	2.03	\$5.78
Alfalfa - Ladak (inoculated)	1.50	7.23	\$3.83
Russian Wildrye - Vinal	0.50	2.01	\$3.09
Pubescent Wheatgrass - Luna	0.50	1.03	\$1.70
Milk Vetch, Cicer - Monarch	0.50	1.66	\$4.10
Streambank Wheatgrass - Sodar	0.50	1.63	\$2.85
Thickspike Wheatgrass - Critana	0.50	1.77	\$3.44
Western Wheatgrass - Arriba	1.00	2.53	\$6.50

Flax, Lewis Blue	0.20	1.33	\$3.30
Saltbush, Four Wing	1.50	2.07	\$18.75
Globemallow, Scarlet (or copper)	0.20	2.26	\$27.10
Winter Fat	0.50	1.27	\$10.25
Penstemon, Palmer	0.20	4.42	\$10.90
Totals Seed Mix	9.10	31.55	\$121.08

Application

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
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$11.21	\$11.21
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$856.97

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre	
					\$	
	\$0.00					

	No. of Acres: ed Failure Rate: ng Work Items:	 Cost /Acre: Cost /Acre*: G,MULCHING	
Initial Job Cost:	\$6.771.07		
Reseeding Job Cost:			
Total Job Cost:	\$10,157		
Job Hours:	16.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Init						
Rock School L Experimental		Permit ne	Action: 06-20	23		Permit/Job#: <u>N</u>	11999051
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 064	4	State: Co	olorado		Abbre	eviation: None	
	6/2023		o Blanco		Fi	ilename: M05	1-06a
Agency of	or organization	n name: DRMS					
EQUIPMENT 1	FRANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per da	av
				(Cost Data Sou		
T 1	T (D						
Iruck	c Tractor Desc	ription: GENE	RIC ON-HIGH			OR, 6X4, DIESE	L POWERED,
Tma	k Trailer Desc	ministiana C	ENEDIC EOLD		(2ND HALF,	2000) ROP DECK EQU	UDMENT
Truc	k Trailer Desc	ription: G			(25T, 50T, A)		IPINIENI
			-	IN HELK	(251, 501, 70	(1001)	
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51+	Tons		
	Cost/Hour:	\$15.25	\$23.06	\$3	7.58		
Operating	g Cost/Hour:	\$25.26	\$30.83	\$5	1.41		
Operator	r Cost/Hour:	\$27.71	\$27.71	\$2	7.71		
Helper	r Cost/Hour:	\$0.00	\$20.22	\$2	0.22		
Total Unit	t Cost/Hour:	\$68.22	\$101.82	\$1.	36.92		
NON ROADAB	LE EOUIPN	AENT:					
N 1'	TT7 ' 1 / /	0 1	II 1D'	F1 (II 17 '	Determ Teir	DOT Down
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	
Machine Description	Unit	Owner ship Cost/hr/ unit	Cost/hr/uni	Fleet Size	Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permi Cost/ fleet
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Description Cat D7R DS	Unit	1	Cost/hr/uni		Cost/hr/	Return Trip Cost/hr/ fleet \$101.82	
Description Cat D7R DS Series II LGP	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet \$250.00
Description Cat D7R DS	Unit (TONS) 38.49	Cost/hr/ unit \$101.15	Cost/hr/uni t \$101.82	Size	Cost/hr/ fleet \$202.97	Cost/hr/ fleet \$101.82	Cost/ fleet
Description Cat D7R DS Series II LGP Drill/Broadcast Seeder with Tractor	Unit (TONS) 38.49 25.00	Cost/hr/ unit \$101.15	Cost/hr/uni t \$101.82	Size	Cost/hr/ fleet \$202.97	Cost/hr/ fleet \$101.82	Cost/ fleet \$250.00
Description Cat D7R DS Series II LGP Drill/Broadcast Seeder with Tractor Power Mulcher	Unit (TONS) 38.49	Cost/hr/ unit \$101.15	Cost/hr/uni t \$101.82	Size	Cost/hr/ fleet \$202.97	Cost/hr/ fleet \$101.82	Cost/ fleet \$250.00
Description Cat D7R DS Series II LGP Drill/Broadcast Seeder with Tractor Power Mulcher (Bowie LD-90)	Unit (TONS) 38.49 25.00 6.00	Cost/hr/ unit \$101.15 \$6.25 \$14.79	Cost/hr/uni t \$101.82 \$68.22 \$68.22	Size 1 1 1 1 1	Cost/hr/ fleet \$202.97 \$74.47 \$83.01	Cost/hr/ fleet \$101.82 \$68.22 \$68.22	Cost/ fleet \$250.00 \$250.00 \$250.00
Description Cat D7R DS Series II LGP Drill/Broadcast Seeder with Tractor Power Mulcher (Bowie LD-90) Cat 307D 7'-3"	Unit (TONS) 38.49 25.00	Cost/hr/ unit \$101.15 \$6.25	Cost/hr/uni t \$101.82 \$68.22	Size	Cost/hr/ fleet \$202.97 \$74.47	Cost/hr/ fleet \$101.82 \$68.22	\$250.00 \$250.00
Description Cat D7R DS Series II LGP Drill/Broadcast Seeder with Tractor Power Mulcher (Bowie LD-90)	Unit (TONS) 38.49 25.00 6.00	Cost/hr/ unit \$101.15 \$6.25 \$14.79	Cost/hr/uni t \$101.82 \$68.22 \$68.22	Size 1 1 1 1 1	Cost/hr/ fleet \$202.97 \$74.47 \$83.01	Cost/hr/ fleet \$101.82 \$68.22 \$68.22	Cost/ fleet \$250.00 \$250.00 \$250.00

Subtotals: \$457.82

\$306.48

ROADABLE EQUIPMENT:

unit		Cost/hr/ fleet	Cost/hr/ fleet
Water Tanker, 2,500 Gal. \$51.72	1	\$51.72	\$51.72
Light Duty Pickup, 4x4, 3/4 T. \$114.71	1	\$114.71	\$114.71

\$166.43 \$166.43 Subtotals:

EQUIPMENT HAUL DISTANCE and Time

GRAND JUNCTION 104.00 45.00	miles mph
\$6,448.40	
\$769.28	_
	104.00 45.00 \$6,448.40

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	2.31	2.31
Return Time (Hours):	2.31	2.31
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	5.62	4.62

Total job time:	11.24	Hours
Total job cost:	\$7,218	-

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	on: Sec	ondary Mobilizat	tion				
Rock Schoo Experimen	ol Lease tal Nahcolite Mi		Action: 06-20)23		Permit/Job#: <u>M</u>	1999051
PROJECT II	DENTIFICATI	<u>ON</u>					
	06B		olorado			eviation: None	
	5/26/2023 ACY	County: <u>Ri</u>	o Blanco		Fi	ilename: M051	-06b
Ageno	cy or organization	n name: DRMS					
EQUIPMEN	TTRANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per da	V
					Cost Data Sour	i	
	uck Tractor Desc ruck Trailer Desc	-		400 H	P (2ND HALF,	OR, 6X4, DIESEI 2006) ROP DECK EQU	
		I			R (25T, 50T, AN		
Cost Breakdown	n:						
Available Rig	capacities	0-25 Tons	26-50 Tons	5	l+ Tons		
Owners	hip Cost/Hour:	\$15.25	\$23.06		\$37.58		
Operat	ing Cost/Hour:	\$25.26	\$30.83	:	\$51.41		
	ator Cost/Hour:	\$27.71	\$27.71	:	\$27.71		
Hel	per Cost/Hour:	\$0.00	\$20.22		\$20.22		
Total U	Jnit Cost/Hour:	\$68.22	\$101.82	\$	136.92		
NON ROADA	ABLE EQUIPM	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permi
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

Subtotals: **\$157.48 \$136.44 \$500.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$51.72	1	\$51.72	\$51.72
Light Duty Pickup, 4x4, 3/4 T.	\$114.71	1	\$114.71	\$114.71
		Subtotals:	\$166.43	\$166.43

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION	_
Total one-way travel distance:	104.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,673.52	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$769.28	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	2.31	2.31
Return Time (Hours):	2.31	2.31
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	5.62	4.62

JOB TIME AND COST

Total job time: 11.24 Hours

Total job cost: _____\$3,443