COST SUMMARY WORK

Gunniso	n River Gravel Pi	ts Permit Ac	etion: 2018-03	Permit/Jol	b#: <u>M2009048</u>
OJECT	IDENTIFICAT	<u>ION</u>			
Task #: Date:	ACY 3/23/2018	State: Colo County: Mesa		Abbreviation: Filename:	None M048-acy
User:	ACY			<u> </u>	•

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
000	Substitute Water Supply Cost	NA	1	1.00	\$18,394.84
02a	Rip stockpile area of Pit 5	RIPPER	1	11.98	\$2,461.00
03a	Replace topsoil in Pit 5	DOZER	1	57.04	\$10,866.00
04a	Reveg Pit 5	REVEGE] 1	16.00	\$17,046.00
05a	Initial Mobilization	MOBILIZE	1	3.06	\$2,734.00
06a	Secondary Mobilization	MOBILIZE	1	3.06	\$1,618.00
		SUBTO	TALS:	92.14	\$53,120

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,073.02
Performance bond:	1.05	Total =	\$557.76
Job superintendent:	40.08	Total =	\$2,927.84
Profit:	10.00	Total =	\$5,312.00
			A. 0.00 10

TOTAL O & P = \$9,870.62 CONTRACT AMOUNT (direct + O & P) = \$62,990.62

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00

Engineering work and/or contract/bid preparation: 0.00 Total = \$0.00

Reclamation management and/or administration: 5.00 \$3,149.53

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$13,520.15

TOTAL BOND AMOUNT (direct + indirect) = \$66,640.15

No Increase issued. Current bond held \$88,767. Current disturbance significantly under max threshold.

BULLDOZER RIPPING WORK

	Task description:	Rip s	stockpile area of Pit 5					
Site	Gunnison Riv	er Gravel Pits	Permit Action:	2018-03	Permi	t/Job#:	M2009048	8
	PROJECT ID	ENTIFICATION ENTIF	<u>ON</u>					
	Task #: 02.	A	State: Colorado		Abbrevia	ation:	None	
		23/2018	County: Mesa		Filen	ame:	M048-02a	
	User: AC	CY						
	Agency	or organization	name: DRMS					_
	HOURLY EQ	UIPMENT CO	<u>OST</u>					
	Basic	Machine: Cat	D8T - 8SU		Horsepower:	3	10	
	Ripper Att	achment: 3-S	hank Ripper		Shift Basis:		er day	_
					Data Source:	(C)	RG)	_
	Cost Breakdown	<u>:</u>		i				
		0 1: 0	. 77.7	фо 2 01	Utilization %			
		Ownership Co		\$83.81 \$66.17	NA 100			
	Rinn	Operating Co er Ownership Co		\$7.55	100 NA			
		per Operating Co		\$7.21	100			
		Operator Co		\$40.52	NA			
		Total Unit Co		\$205.26				
		Total Fleet Co	ost/Hour: \$205	5.26				
	MATERIAL (DUANTITIES	Sele	ected estimating	g method: Area			
	Alternate Method		Sere	eted estimating	, memou. <u>rucu</u>			
Seismic:	NA		Bank Volume:	NA	BCY	N	NA	
Area:	$\frac{7.00}{7.00}$	acres	Rip Depth (ft):	2.00	Volume: 22,58			BCY or CC
		Source of estir	nated quantity: Annual	Rpt map and s				
	HOURLY PRO			- F F				<u> </u>
		<u>obcciton</u>						
	Seismic:		Seismic Velocity:	NA	feet/second			
			Jeishine velocity.	IVA				
	Area:	A	. D'a a'a . Danda	2.56	1			
			e Ripping Depth: e Ripping Width:	2.56 7.08	mph degrees			
		_	Ripping Widin	100.00	feet			
		_	age Dozer Speed:	88.00	feet			
			Maneuver Time:	0.25	feet			
		Product	ion per unit area:	0.703	acres/hour			
	Job Condition Co	orrection Factors						
	Un	adjusted Hourly	Unit Production:	0.703	Acres/hr			
			Site Altitude:	4,670	feet			
			Altitude Adj:	1.00	(CAT HB)			
			Job Efficiency:	0.83	(1 shift/day))		
			Net Correction:	0.83	multiplier			
		Adjusted	Hourly Unit Production:	0.58	Acres/hr			
			Hourly Fleet Production:	0.58	Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	1	Grader(s)	Total job tim	ne: 11.9 9)	Hour	rs.
	Unit cost:	\$351.566	Per acre	Total job co	st: \$2,46	1	-	
	- Cint COSt	ψυυ1.υ00	1 01 0010	1 otal job co	φ2,40	_		

BULLDOZER WORK

Task description:	Replace	e topsoil in Pit 5			
: Gunnison River	Gravel Pits	Permit Action:	2018-03	Permit/Job#:	M2009048
PROJECT IDEN	NTIFICATION	<u> </u>			
Task #: 03A		State: Colorado		Abbreviation:	None
Date: 3/23/2	2018	County: Mesa		Filename:	M048-03a
User: ACY				•	
Agency or	r organization na	me: DRMS			
HOURLY EQUI	IPMENT COS	<u>T</u>			
Basic Machine:	Cat D8T - 8SI	U			
Horsepower:	310	<u></u>			
Blade Type: Attachment:	Semi-Univers NA	al			
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:			Utilization %		
Ownership Cost/H	Hour:	\$83.81	NA		
Operating Cost/H		\$66.17	100	<u></u>	
Ripper own. Cost/H		\$0.00	NA	 ,	
Ripper op. Cost/F	Hour:	\$0.00	0		
Operator Cost/H	Hour:	\$40.52	NA		
Total unit Cost/Hou	ur: \$190.50				
Total Fleet Cost/Ho					
1044110010050110	γαι. ψ190.20				
MATERIAL QU	JANTITIES				
Initial Volume:	8,470				
Swell factor:	1.215				
Loose volume:	10,291 LCY				
-		1.75			
Source of estimated	_	Annual Rpt affected l	lands		
Source of estimated	swell factor:	Cat Handbook			
HOURLY PROI	OUCTION				
Average push distar		00 feet			
Unadjusted hourly	production: 29	91.4 LCY/hr			
Materials consisten	cy description:	Partly consolidated	stockpile 1.1		
Average push gradi Average site altitud		et			
Material weight:	_1,600 lb	s/LCY		<u>—</u>	
Weight description:	: Top Soil	l			
Job Condition Corr	ection Factor		Source		
	erator Skill:	0.750	(AVG.)		
Material c	onsistency:	1.100	(CAT HB)		
Dozi	ng method:	1.000	(GEN.)		
	Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6192

Adjusted unit production: 180.43 LCY/hr
Adjusted fleet production: 180.43 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.056/LCY

Total job time: 57.04 Hours \$10,866

REVEGETATION WORK

Task #: 04A	Abbreviation: _ Filename: _	Nana
Task #: 04A State: Colorado Date: 3/23/2018 County: Mesa User: ACY Agency or organization name: DRMS ERTILIZING aterials Description Total Fertilizer Appli ELLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix Alkali Sacaton Alkaligrass, Fult's ACY Mesa DRMS Units / Mesa Units / Mesa Units / Acre Unit Total Fertilizer Appli Total Fertilizer Appli ELLING Rate Alkali Sacaton Alkaligrass, Fult's	_	Mana
User: ACY Agency or organization name: DRMS ERTILIZING aterials Description Total Fertilizer Appli ELLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix Rate Alkali Sacaton Alkaligrass, Fult's DRMS Units / Acre Unit Total Fertilizer Appli Total Fertilizer Appli	Filename:	None
Agency or organization name: DRMS ERTILIZING aterials Description Units / Acre Unit Description Total Fertilizer Appli ELLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix Rate Agency or organization name: DRMS PLS LBS Acre Alkali Sacaton Alkaligrass, Fult's 0.50		M048-04a
Description Total Fertilizer Application Description Description Total Fertilizer Application Description Total Fertilizer Application Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix PLS LBS Accord Alkali Sacaton Alkaligrass, Fult's 0.50		
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix Rate PLS LBS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix Rate PLS LBS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		
Description Total Fertilizer Application Description Description Total Fertilizer Application Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix Rate Alkali Sacaton Alkaligrass, Fult's 0.50		
Description Total Fertilizer Applia LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total EEDING Seed Mix Rate PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total fertilizer Appli Rate PLS LBS Acri Alkali Sacaton Alkaligrass, Fult's 0.50	Cost / Unit	Cost /Acre
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total fertilizer Appli Rate PLS LBS Acri Alkali Sacaton Alkaligrass, Fult's 0.50	\$	\$
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total fertilizer Appli Rate PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		Ψ
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total fertilizer Appli Rate PLS LBS Acri Alkali Sacaton Alkaligrass, Fult's 0.50	Total Fertilizer Materials	
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total fertilizer Appli Rate PLS LBS Acri Alkali Sacaton Alkaligrass, Fult's 0.50	Cost/Acre	\$0.00
Description Total Fertilizer Appli LLING Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total ' EEDING Seed Mix Rate PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50	ı	<u> </u>
Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total ' EEDING Rate PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		\$
Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total ' EEDING Seed Mix Rate PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50	iestion Cost/Aero	40.00
Description Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	ication Cost/Tiere	\$0.00
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total		
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) Total		Cost /Acre
EEDING Seed Mix PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		\$106.29
Seed Mix Seed Mix PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		Ψ100.23
Seed Mix PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50	Tilling Cost/Acre	\$106.29
Seed Mix PLS LBS Acr Alkali Sacaton Alkaligrass, Fult's 0.50		
Seed Mix PLS LBS Acr Alkali Sacaton 1.00 Alkaligrass, Fult's 0.50		
Alkali Sacaton 1.00 Alkaligrass, Fult's 0.50		
Alkali Sacaton 1.00 Alkaligrass, Fult's 0.50	e –	Cost /Acre
Alkali Sacaton 1.00 Alkaligrass, Fult's 0.50	Seeds	
Alkaligrass, Fult's 0.50	Seeds per SQ.	
	S Seeds per SQ. FT	Φ20.22
	Seeds per SQ. FT 39.03	\$28.32
	Seeds per SQ. FT 39.03 13.77	\$1.70
Tall Fescue - Maxim Blend (Dwarf)3.00Saltbush, Four Wing1.00	Seeds per SQ. FT 39.03 13.77 13.77	\$1.70 \$13.26
Danousii, i oui wiiig	Seeds per SQ. FT 39.03 13.77 13.77 15.63	\$1.70

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	\$2.74	\$2.74
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Total Mulch Materials Cost/Acre				\$524.74

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$99.32
Weed spray, truck, aquatic area, nox. [DMG]		\$68.50
	Total Mulch Application Cost/Acre	\$233.84

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:
 10.5
 Cost /Acre:
 \$1,159.61

 Estimated Failure Rate:
 40%
 Cost /Acre*:
 \$1,159.61

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$12,175.91

Reseeding Job Cost: \$4,870.36

Total Job Cost: Job Hours: 16.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: In	itial Mobilization			
ite: Gunnison River Gravel Pi	ts Permit	Action: 2018-03	Permit/Jo	b#: <u>M2009048</u>
PROJECT IDENTIFICAT	<u>ION</u>			
Task #: 05A Date: 3/23/2018 User: ACY		olorado Iesa	Abbreviation: Filename:	None M048-05a
Agency or organization	on name: DRMS	S		
EQUIPMENT TRANSPOI	RT RIG COST			
			Shift basis: Cost Data Source:	1 per day CRG Data
Truck Tractor Des	cription: GENI		AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer Des	cription: C	GENERIC FOLDIN	G GOOSENECK, DROP DEC AILER (25T, 50T, AND 100T	•
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	

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

Operator Cost/Hour:

Helper Cost/Hour:

\$27.66

\$0.00

\$88.67

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 D8T - 8SU	53.08	\$91.36	\$125.45	1	\$216.81	\$125.45	\$250.00
Drill/Broadcast Seeder with	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Tractor							
Power Mulcher	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00
(Bowie LD-90)							

\$27.66

\$25.39

\$117.55

\$27.66

\$25.39

\$125.45

Subtotals: \$413.40 \$302.79 \$750.00

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	\$47.96	1	\$47.96	\$47.96

Subtotals	\$47.96	\$47.96

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION,

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig: Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$2,708.77 \$25.58

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.27	0.27
Return Time (Hours):	0.27	0.27
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.53	0.53

JOB TIME AND COST

Total job time: 3.07 Hours

Total job cost: \$2,734

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Se	condary Mobiliz	ation		
e: Gunnison River Gravel P	ts Permi	t Action: 2018-03	Permit/Jo	b#: <u>M2009048</u>
PROJECT IDENTIFICAT	<u>TION</u>			
Task #: 06A Date: 3/23/2018 User: ACY		Colorado Aesa	Abbreviation: Filename:	None M048-06a
Agency or organization	on name: DRM	S		
EQUIPMENT TRANSPO	RT RIG COST		G1. G. 1	1 1.
				1 per day CRG Data
Truck Tractor Des	scription: GEN		AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer Des	scription:	GENERIC FOLDIN	IG GOOSENECK, DROP DEC AILER (25T, 50T, AND 100T)	•
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	
Operator Cost/Hour	\$27.66	\$27.66	\$27.66	

NON ROADABLE EQUIPMENT:

Helper Cost/Hour:
Total Unit Cost/Hour:

\$0.00

\$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
Drill/Broadcast	(TONS) 25.00	\$12.22	\$88.67	1	fleet \$100.89	\$88.67	\$250.00
Seeder with Tractor							
Power Mulcher (Bowie LD-90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

\$25.39

\$117.55

\$25.39

\$125.45

Subtotals: \$196.59 \$177.34 \$500.00

ROADABLE EQUIPMENT:

nit		Cost/hr/ fleet	Cost/hr/ fleet
47.96	1	\$47.96	\$47.96
_			

Subtotals: \$47.96 \$47.96

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: GRAND JUNCTION,

Total Non-Roadable Mob/Demob Cost *

"two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$1,592.61 \$25.58

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.27	0.27
Return Time (Hours):	0.27	0.27
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.53	0.53

JOB TIME AND COST

Total job time:	3.07	Hours

Total job cost: **\$1,618**