COST SUMMARY WORK

Task description: New pe		New permit app	lication					
Site:	Site: 23 1/4 West Pit		Pe	Permit Action: App		Permit/Jol	o#: <u>M2020035</u>	
<u>P</u>]	ROJECT	IDENTIFIC	CATION					
	Task #:	ACY	State:	Colorado		Abbreviation:	None	
	Date:	11/2/2020	County:	Mesa		Filename:	M035-ACY	
	User:	ACY						
	Age	ency or organi	zation name:	RMS				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	<i>a</i> .
Iush	Description	Used	Size	Hours	Cost
01a	Dewater Area 1	PUMPING	1	521.47	\$28,900
02a	Grade Highwall Area 1	DOZER] 1	16.06	\$3,950
02b	Transport and place backfill in Area 2	TRUCK1] 1	197.39	\$139,267
03a	Transport & Spread Topsoil in Area 1	TRUCK1] 1	16.51	\$11,651
03b	Transport & Spread Topsoil in Area 2	TRUCK1	1	17.75	\$12,525
04a	Reveg 10ac upland	REVEGE] 1	15.00	\$22,947
10a	Initial Mobilization	MOBILIZE] 1	2.30	\$3,989
10b	Secondary Mobilization	MOBILIZE	1	2.30	\$1,357
		<u>SUBTO</u>	TALS:	788.78	\$224,586

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$4,537
Performance bond:	1.05	Total =	\$2,358
Job superintendent:	134.00	Total =	\$9,320
Profit:	10.00	Total =	\$22,459
		TOTAL O & P =	\$38,673
		CONTRACT AMOUNT (direct + $O \& P$) =	\$263,259

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$11,189
Reclamation management and/or administration:	5.00		\$13,163
CONTINGENCY:	0.00	Total =	\$0
	TO	ΓAL INDIRECT COST =	\$63,525
TOTAL BO	\$288,111		

PUMPING WORK

Task description:	Dewater Area 1			
e: 23 1/4 West Pit	Permit Action:	App	Permit/Job#:	M2020035
PROJECT IDENTIFI	CATION			
Task #: 01A Date: 11/2/2020 User: ACY	State: Colorado County: Mesa)	Abbreviation: Filename:	None M035-01a
A gency or organ	nization name: DRMS			
HOUKLY EQUIPME	<u>NI COSI</u>			
Make and Models	Description	n	Quantity	
Attachment 1	Suction hose - 6 in diam 25	ft	2	
Attachment 2:	Discharge hose - 6 in D 25	ft	3	
Labor Unit 1:	Pump operator		1	
Horsepower: Shift Basis: <u>1 p</u> Weight: (US	95 er day 0.70 5 Tons)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/H	Hour: \$12.71	NA		
Operating Cost/H	Iour: \$14.48	100		
Operator Cost/F	four: \$28.23	NA		
Total Unit Cost/F	four: \$55.42			
Total Fleet Cost/I	Hour: \$55.42			
PUMPING QUANTIT	TIES			
Initial Pond Volu	ıme: 269.10		Conversion factor	325850 5800
Final Pond Volu	ime: 87.686.391.08	gallons		
Total Pond Inflow Sur	face	0	Unit inflow rate in	
A	area: 70,000	Sq. ft.	gph/sq. ft.:	0.1758
Total Pond Inflow Vol	ume	gallons		
per n				
Source o	t estimated volume: <u>PAR-2</u>	00gpm recharge on 20.7 a	ic 13ft pond	
PUMPING TIME				
Max	imum Pump Capacity:	170,000	gph/pump	
Es	timated Suction Head:	15	feet	
Estin	nated Discharge Head:	15	feet	
	CDD During Connection	30	feet	
	CPB Pump Capacity:	105,000	gpn/pump foot	
		4,330	leet	
A diver	ad Pumping Canadity	165 600	aph	
Aujust Initial Unad	iusted Pumping Capacity:	529 51	spii hours	
Inflow	uring Initial Pumning	6.516116	gallons	
Net Unad	justed Pumping Time:	568.86	Hours	
Altitu	de Adjustment Factor:	1.0000	(3% rule)	
Ρι	imp Efficiency Factor:	0.9167	(55 min./hr.)	
Total Ad	justed Pumping Time:	521.47	hours	
JOB TIME AND COS	ST			
		Total job time	: 521.47	Hours

BULLDOZER WORK

rask description:	Grade H	ngnwan Area 1			
23 1/4 West Pit		Permit Action	n: App	Permit/Job#:	M2020035
PROJECT IDEN	TIFICATION				
Task # 02A		State: Colorad	lo	Abbreviation.	None
Date: $11/2/2$	2020	County: Mesa		Filename:	M035-02a
User: ACY					111000 024
Agency or	organization nam	ne: DRMS			
HOURLY EOUI	PMENT COST				
Basic Machine:	Cat D8T - 8SU	-			
Horsepower:	310				
Blade Type:	Semi-Universal	l			
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
	_		Utilization	<u>%</u>	
Ownershin Cost/H	our:	\$116.2	2 NA		
C whership Cost/11					
Operating Cost/H	our:	\$89.7	7 100		
Operating Cost/H Ripper own. Cost/H	lour:	\$89.7 [°] \$0.0	7 100 0 NA		
Operating Cost/H Ripper own. Cost/H Ripper op. Cost/H	lour: lour: lour:	\$89.7 \$0.0 \$0.0	7 100 0 NA 0 0		
Operating Cost/H Ripper own. Cost/H Ripper op. Cost/H Operator Cost/H Fotal unit Cost/Hou Fotal Fleet Cost/Ho VATERIAL QU	lour:	\$89.7 \$0.0 \$0.0 \$40.0	7 100 0 NA 0 0 4 NA		
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Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	nt: 1.115	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 1.095	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n:0.5472	
Adjusted unit production:	640.39 LCY/hr	
Adjusted fleet production:	640.39 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.384/LCY

Total job time:	16.06 Hours
Total job cost:	\$3,950

TRUCK/LOADER TEAM WORK

Site: 23 1/4 West Pit		Permit Action	on: <u>App</u>		Permit/Job#: <u>M</u>	2020035
DDAIEAT IDEN	ΓΙΕΙΟΛΤΙΟΝ					
Task #: 02B	IIFICATION	State: Color:	ado	٨٣	braviation: No	ne
Date: $11/2/20$	020	County: Mesa		At	Filename: MO)35-02b
User: ACY		·				
Agency or	organization nar	ne: DRMS				
HOURLY FOUR	PMENT COST	r		Shift has	sis: 1 per dav	
		-	Fauinment Descri	intion	<u>1 por day</u>	
T	ruck Loader Tea	m -Truck: Ger	eric 12-18 cy, 6x	4		
		-Loader: CA	Г 972Н			
Suppo	rt Equipment -L	Load Area: Cat	D8T - 8SU			
Road Ma	intenance –Mot	or Grader: NA	Dol - 050			
	-Wa	ter Truck: NA				
	T. 1/1	1	C		Maintenant	
<u>Cost Breakdown</u> :	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
	100	100		50		
% Utilization-machine:	£24.61	100 \$48.00	\$	\$116.22	NA	NA
Ownership cost/hour:	\$24.01	\$48.09	\$116.22	\$110.22	INA NA	
%Utilization-riper:	\$30.89 NA		54.49 NA	544.88 NA	NA	NA NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	NA
Operator cost/hour:	\$24.82	\$35.97	\$40.04	\$40.04	NA	NA
Unit Subtotals:	\$100.33	\$143.01	\$160.74	\$201.14	NA	NA
Number of Units:	2	1	1	1	0	(
Group Subtotals:	Work:	\$343.67	Support:	\$361.88	Maint:	\$0.00
Total work team cost	/hour: <u>\$705.55</u>					
MATERIAL QUA	ANTITIES					
Initial volume:	100,000	ССҮ	Swell	factor: 1.000		
Loose volume:	100,00	DO LCY				
Sou	rce of estimated	volume: PAR	Mine Plan 3.0			
Source	of estimated swe Material Purch	ell factor: <u>Cat I</u>	landbook			
	To	otal Cost: \$0.00)			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	ht) Basis:		Daniel J. C.V.			
Material w Descri	eignt: 2,100 ption: Earth -	Loam	Pounds/LCY			
Rated Pay	/load: 50,300	2.54111	Pounds			
	. 22.05	-	LOV			

Struck volume.	12.00 I	CV				
Heaned Volume:	$\frac{12.00}{18.00}$ L	CV				
Average Volume:	$\frac{10.00}{15.00}$ L	CY				
Adjusted Volume:	$\frac{13.00}{18.00}$ L	CY				
Aujusted Volume.	<u>18.00</u> L					
Final	Truck Volume E	Based on Number of L	oader Passes:	17.64	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: <u>N</u>	A	<u> </u>
Rated Capacity:	5.600	LCY (heaped)				_
Bucket Fill Factor:	1.050	Moist loam or san	dy clay (100%	- 110%) 1.050		_
Adjusted Capacity:	5.880	LCY				
Job Condition Corrections:	-	Site	Altitude (ft.):	<u>4350</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
					2	
Loading Tool Cycle Time:	Number of	of Loading Tool Pass	es Required to	Fill Truck:	<u> </u>	basses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs Selected Value v	Job Condition	Rating: NA				
Track Loaders		Rating. IVA				
$\Gamma T R K \Gamma T T R R R T S = 2$	Whaterial Decom	tion.				
Cycle Time Flements (min):	Material Descrip	otion:				
Cycle Time Elements (min.):	Material Descrip	peuver: NA		Dump: 0.100)	
Cycle Time Elements (min.): Load: <u>NA</u>	Material Descrip -	neuver: <u>NA</u>		Dump:0.100)	
Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	Material Descrip - Unadjusted Basi	neuver: <u>NA</u> neuver: <u>NA</u> ic Loader Cycle Time	e (load, dump, r	Dump: 0.100) .525 minu	ıtes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors	Material Descrip Unadjusted Basi	neuver: <u>NA</u> neuver: <u>NA</u> ic Loader Cycle Time		Dump: 0.100 maneuver): 0 Factor (min.)) .525 minu Source	utes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	Material Descrip 	neuver: <u>NA</u> ic Loader Cycle Time	: (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.020) .525 minu Source (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do	neuver: <u>NA</u> ic Loader Cycle Time 1 0.02 ozer piled 10 ft. high a	e (load, dump, r and up 0.00	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000) .525 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne	neuver: NA ic Loader Cycle Time 10.02 ozer piled 10 ft. high a ership of trucks and lo	e (load, dump, r and up 0.00 paders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera	neuver: NA ic Loader Cycle Time 10.02 ozer piled 10 ft. high a ership of trucks and lo ition -0.04	e (load, dump, r and up 0.00 paders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Time 1 0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 c 0.00	and up 0.00 baders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Time 1 0.02 ozer piled 10 ft. high a ership of trucks and lo ition -0.04 0.00 Net Cycle Time	e (load, dump, r and up 0.00 paders -0.04 Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Time 10.02 ozer piled 10 ft. high a ership of trucks and lo titon -0.04 : 0.00 Net Cycle Time Adjusted Loader	e (load, dump, r and up 0.00 paders -0.04 Adjustment: Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Time ic Loader Cycle Time 1 0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 : 0.00 Net Cycle Time Adjusted Loader Net Load Tim	and up 0.00 baders -0.04 Adjustment: Cycle Time: he per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target	neuver: NA ic Loader Cycle Time ic Loader Cycle Time 10.02 ozer piled 10 ft. high a ozer piled 1	e (load, dump, r and up 0.00 paders -0.04 Adjustment: Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030) .525 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes
Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: <u>Truck Cycle Time:</u> Truck Exchange Time:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or da Common owne Constant opera Nominal target 0.50	neuver: <u>NA</u> ic Loader Cycle Time <u>10.02</u> ozer piled 10 ft. high a ership of trucks and lo tion -0.04 : 0.00 Net Cycle Time Adjusted Loader Net Load Tim Minutes	e (load, dump, r and up 0.00 paders -0.04 Adjustment: Cycle Time: he per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030 for site altitude:) .525 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.500	ites Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target 0.50 1.030	neuver: <u>NA</u> ic Loader Cycle Time ic Loader Cycle Time <u>10.02</u> ozer piled 10 ft. high a ership of trucks and lo titon -0.04 0.00 Net Cycle Time Adjusted Loader Net Load Tim Minutes Minutes	e (load, dump, r and up 0.00 paders -0.04 Adjustment: Cycle Time: he per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030 for site altitude: for site altitude:) .525 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 1.030	utes Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: Sk Maneuver and Dump Time:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target 0.50 1.030 0.90	neuver: NA ic Loader Cycle Time ic Loader Cycle Time 1 0.02 ozer piled 10 ft. high a ership of trucks and lo titon -0.04 : 0.00 Net Cycle Time Adjusted Loader Net Load Tim Minutes Minutes	e (load, dump, r and up 0.00 paders -0.04 Adjustment: Cycle Time: he per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 -0.040 -0.060 0.465 1.030 -0.040 for site altitude: -0.030 for site altitude: -0.030) .525 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 1.030 0.900	Ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: ck Maneuver and Dump Time:	Material Descrip Ma Unadjusted Basi Mixed material Conveyor or do Common owne Constant opera Nominal target 0.50 1.030 0.90	neuver: NA ic Loader Cycle Time 10.02 ozer piled 10 ft. high a ership of trucks and lo titon -0.04 : 0.00 Net Cycle Time Adjusted Loader Net Load Tim Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 Adjustment: Cycle Time: De per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.060 0.465 1.030 1.030) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 1.030 0.900 tag 2" tig	Ites MinuteMinuteMinute

Haul Rou	te:							
Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
1	1100	00	0.00	~ 00	5.00	221 0	(min)	
1	1100.	00	0.00	5.00	5.00	2218	0.611	
					Haul Time:	0.611	minutes	
Return Ro	oute:				-			
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	1100.	00	0.00	5.00	5.00	2814	0.427	
					Return Time:	0.427	minute	es
				Total Tru	ck Cycle Time:	3.468	minute	s
Loading Too	ol unit							
Produ	uction	691.76	LCY/Hour		Adjusted for j	ob efficiency:	574.16	LCY/Hour
Truck Unit Produ	uction	305.19	LCY/Hour		Adjusted for j	ob efficiency:	253.31	LCY/Hour
Optimal No. of Tr	rucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 506	.62 LCY	/Hour
			Adjusted sing	le truck/loade	er team production	on: 506	.62 LCY	/Hour
			Adjusted multip	le truck/loade	er team production	on: 506	.62 LCY	//Hour
JOB TI	ME AN	ND COST						
Fleet	size:	1	Team(s)	-	Total job time:	197.3	9 He	ours
Unit	cost: _	\$1.393	/LCY		Total job cost:	\$139,2	67	

TRUCK/LOADER TEAM WORK

Site: 23 1/4 West Pit		Permit Acti	on: <u>App</u>		Permit/Job#: <u>M</u>	2020035
PROJECT IDEN Task #: 03A Date: 11/2/2	TIFICATION	State: <u>Color</u> County: Mesa	ado	Ab	breviation: <u>No</u> Filename: M(ne
User: ACY						
Agency or	organization nan	ne: DRMS				
μοιίρι ν εοιίη	DMENT COST	р.		Shift bog	ice 1 par day	
HOUKET EQUI		<u> </u>	Equipmont Dosori	ntion	iis. <u>I per day</u>	
Т	ruck Loader Tea	m -Truck: Gei	neric 12-18 cy, 6x	4		
	· F · · · · ·	-Loader: CA	Т 972Н			
Suppo	ort Equipment -L Dו-	load Area: Cat Imp Area: Cat	: D81 - 8SU : D8T - 8SU			
Road Ma	aintenance – Mote	or Grader: NA				
	-Wa	ter Truck: NA	<u> </u>			
Cost Breakdown:	Truck/Loa	ader Team	Support 1	Equipment	Maintenar	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	5	50	NA	NA
Ownership cost/hour:	\$24.61	\$48.09	\$116.22	\$116.22	NA	NA
Operating cost/hour:	\$50.89	\$58.95	\$4.49	\$44.88	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	NA
Operator cost/hour:	\$24.82	\$0.00	\$0.00	\$0.00	NA NA	INA NA
Unit Subtotals:	\$100.33	\$143.01	\$160.74	\$201.14	NA	NA
Number of Units:	2	1	1	1	0	(
Group Subtotals:	Work:	\$343.67	Support:	\$361.88	Maint:	\$0.00
Total work team cos	t/hour: <u>\$705.55</u>	<u>.</u>				
MATERIAL QUA	ANTITIES					
Initial volume: Loose volume:	8,066 8,99 4	CCY LCY	Swell	factor: <u>1.115</u>		
Sou	rce of estimated	volume: PAR	Exhibit L			
Source	of estimated swe	ell factor: Cat I	Handbook			
	Material Purcha	ase Cost: \$0.0	0			
	10		0			
HOURLY PRO	DUCTION					
Truck Capacity:						
Truck Payload (weig	t) Basis:					
Material w	reight: 2,100	Loam	Pounds/LCY	-		
Rated Pa	$\frac{1}{2}$	LUalli	Pounds			
Rateu I a	y10au. 50,500		Tounds			

Heaped Volume	12.00	LCY				
incuped volume.	18.00	LCY				
Average Volume:	15.00	LCY				
Adjusted Volume:	18.00	LCY				
Final	Truck Volume	Based on Number of	Loader Passes	17.64	LCY	
Loading Tool Capacity	inden voranie		Louder Fusies.	17001		
<u>Louding roor cupatity</u>			Buc	ket Size Class N	A	
Rated Canacity:	5 600	LCY (heaped)	2			-
Bucket Fill Factor:	1.050	Moist loam or sa	ndv clav (100%	- 110%) 1.050		-
Adjusted Capacity:	5.880	LCY	<u></u>			-
Job Condition Corrections:	_	Site	e Altitude (ft.):	4350 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
	X T 1		- 		2	
Loading Tool Cycle Time:	Numbe	r of Loading Tool Pass	ses Required to	Fill Truck:	<u> </u>	asses
Excavators and Front Shovel	<u>s:</u>					
Machine Cycle Time vs Selected Value v	s. Job Conditio	n Rating: <u>NA</u> ic Rating: NA				
Track Loaders –	Material Descr					
		1ntion.				
Cycle Time Elements (min.):		ription:				
Cycle Time Elements (min.): Load: NA	N	nption:		Dump: 0.100)	
Cycle Time Elements (min.): Load: <u>NA</u>	N	Inpuon:		Dump: 0.100)	
Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	N Unadjusted Ba	Aneuver: NA	e (load, dump, r	Dump:0.100) .525 minu	ıtes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors	– M – Unadjusted Ba	Inption:NA	e (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.)) .525 minu Source	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	Unadjusted Ba	Aneuver: NA asic Loader Cycle Tim	e (load, dump, r	Dump: 0.100 maneuver): 0 Factor (min.) 0.020) .525 minu Source (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Unadjusted Ba Mixed mater Conveyor or	Inption:NA Ianeuver:NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high	e (load, dump, r and up 0.00	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000) .525 minu Source (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Mixed mater Conveyor or Common ow	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Mixed mater Conveyor or Common ow Constant ope	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 pration -0.04	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Mixed mater Conveyor or Common ow Constant ope Nominal targ	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 gration -0.04 get 0.00	e (load, dump, r and up 0.00 oaders -0.04	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	Ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Mixed mater Conveyor or Common ow Constant ope Nominal targ	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 eration -0.04 get 0.00 Net Cycle Time	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites
Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Mixed mater Conveyor or Common ow Constant ope Nominal targ	Adjusted Loader Nation:NA Nation -0.04 Net Cycle Time Nation -0.04	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Mixed mater Conveyor or Common ow Constant ope Nominal targ	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 get 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	Ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	Mixed mater Conveyor or Common ow Constant ope Nominal targ	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 eration -0.04 get 0.00 Net Cycle Time Adjusted Loader Net Load Tin	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 0.000 -0.040 0.000 -0.060 0.465 1.030) .525 minu (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	ites
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	Mixed mater Conveyor or Common ow Constant ope Nominal targ 0.50	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 ration -0.04 get 0.00 Net Cycle Time Adjusted Loade Net Load Tin Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck:	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 0.000 -0.040 0.000 -0.060 0.465 1.030 for site altitude:) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.500	ites Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	Mixed mater Conveyor or Common ow Constant ope Nominal targ	Aaneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 eration -0.04 get 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.465 1.030 for site altitude: for site altitude:) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 1.030	ttes
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: % Maneuver and Dump Time:	Mixed mater Conveyor or Common ow Constant ope Nominal targ 0.50 1.030 0.90	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 eration -0.04 get 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.060 0.465 1.030 1.030 for site altitude: for site altitude: for site altitude:) .525 mim Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 1.030 0.900	Minute Minute Minute
Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time: % Maneuver and Dump Time:	Mixed mater Conveyor or Common ow Constant ope Nominal targ	Aneuver: NA asic Loader Cycle Tim ial 0.02 dozer piled 10 ft. high nership of trucks and 1 eration -0.04 get 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes Minutes Minutes	e (load, dump, r and up 0.00 oaders -0.04 e Adjustment: r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	Dump: 0.100 maneuver): 0 Factor (min.) 0.020 0.000 0.000 -0.040 0.000 -0.060 0.465 1.030 1.030) .525 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 1.030 0.900	ttes

Haul Ro	ute:						— 1	
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	(min)	
1	800.0	0	0.00	5.00	5.00	2218	0.476	
					Haul Time:	0.476	minutes	
Return F	Route:				-			
Seg #	Haul	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	800.0	0	0.00	5.00	5.00	2814	0.320	
					Return Time:	0.320	minute	es
				Total Tru	ck Cycle Time:	3.226	minute	es
Loading To	olunit							
Proc	duction	691.76	LCY/Hour		Adjusted for j	ob efficiency:	574.16	LCY/Hour
Truck Unit Proc	duction							
		328.08	LCY/Hour		Adjusted for j	ob efficiency:	272.31	LCY/Hour
Optimal No. of 7	Frucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 544	.62 LCY	Y/Hour
			Adjusted sing	le truck/loade	er team production	on: 544	.62 LCY	Y/Hour
			Adjusted multip	le truck/loade	er team production	on: 544	.62 LCY	Y/Hour
JOB T	IME AN	ND COST						
Flee	t size:	1	Team(s)	- -	Fotal job time:	16.5	1 H	ours
Uni	t cost:	\$1.295	/LCY		Total job cost:	\$11,6	51	

TRUCK/LOADER TEAM WORK

Task #: 03B Date: 11/2/2020 User: ACY Agency or orgar HOURLY EQUIPME Truck Support Eq Road Mainten Cost Breakdown: 0 %Utilization-machine: Ownership cost/hour: %Utilization-riper: Ripper own. cost/hour: %Utilization-riper: Ripper op. cost/hour: Operator cost/hour: Unit Subtotals: Number of Units: Group Subtotals:	nization nan CNT COST Loader Tea Juipment -L -Du nance –Moto -Wa Truck/Loa Truck 100 \$24.61 \$50.89	State: Color County: Mesa me: DRMS Im -Truck: Ge -Loader: CA Loader: CA or Grader: NA ader Team Loader Loader 100 \$48.09 \$58.95	Equipment Descri neric 12-18 cy, 6x T 972H t D8T - 8SU t D8T - 8SU 5 Support 1 Load Area 5 \$116.22	Abb Shift base ption 4 Equipment Dump Area 50 \$116.22	breviation: <u>No</u> Filename: <u>MC</u> is: <u>1 per day</u> is: <u>1 per day</u> Maintenan Motor Grader NA NA	ne)35-03b Dece Equipment Water Truck NA NA
Agency or organ HOURLY EQUIPME Truck Support Eq Road Mainten Cost Breakdown: Cost Breakdown: Operating cost/hour: Operating cost/hour: Number of Units: Context Support Eq Cost Breakdown: Cos	nization nan CNT COST Loader Tea puipment -L -Du nance –Moto -Wa Truck/Loa Truck/Loa Truck 100 \$24.61 \$50.89	ne: DRMS III -Truck: Ge -Loader: CA Load Area: Ca ump Area: Ca or Grader: NA ater Truck: NA ader Team Loader 100 \$48.09 \$58.95	Equipment Descri neric 12-18 cy, 6x AT 972H t D8T - 8SU t D8T - 8SU A Support 1 Load Area 5 \$116.22	Shift bas ption 4 Equipment Dump Area 50 \$116.22	is: <u>1 per day</u> Maintenan Motor Grader NA NA	nce Equipment Water Truck NA NA
HOURLY EQUIPME	ENT COST Loader Tea Juipment -L -Du ance –Mote -Wa Truck/Loa Truck 100 \$24.61 \$50.89	L Ge -Loader: CA -load Area: Ca or Grader: NA or Grader: NA ader Team Loader Loader 100 \$48.09 \$58.95	Equipment Descri neric 12-18 cy, 6x- AT 972H t D8T - 8SU t D8T - 8SU A Support 1 Load Area 5 \$116.22	Shift bas ption 4 Equipment Dump Area 50 \$116.22	is: <u>1 per day</u> Maintenar Motor Grader NA NA	nce Equipment Water Truck NA NA
Truck Support Eq Road Mainten Cost Breakdown: Quilization-machine: Ownership cost/hour: Operating cost/hour: %Utilization-riper: %Utilization-riper: Ripper own. cost/hour: Operator cost/hour: Operator cost/hour: Unit Subtotals: Number of Units: Group Subtotals:	Loader Tea Juipment -L -Du -Du -Wa Truck/Loa Truck 100 \$24.61 \$50.89	um -Truck: Ge -Loader: CA Load Area: Ca ump Area: Ca or Grader: NA ater Truck: NA ader Team Loader 100 \$48.09 \$58.95	Equipment Descri neric 12-18 cy, 6x AT 972H t D8T - 8SU t D8T - 8SU A Support 1 Load Area 5 \$116.22	ption 4 Equipment Dump Area 50 \$116.22	Maintenan Motor Grader NA NA	ice Equipment Water Truck NA NA
Support Ec Road Mainten Cost Breakdown: 0 % Utilization-machine: 0 % Utilization-riper: © perator cost/hour: Unit Subtotals: Number of Units: Group Subtotals:	Loader Tea juipment -L -Du hance –Moto -Wa Truck/Loa Truck 100 \$24.61 \$50.89	am -Truck: Ge -Loader: CA Load Area: Ca ump Area: Ca or Grader: NA ater Truck: NA ader Team Loader 100 \$48.09 \$58.95	neric 12-18 cy, 6x AT 972H t D8T - 8SU t D8T - 8SU A A Support 1 Load Area 5 \$116.22	4 Equipment Dump Area 50 \$116.22	Maintenar Motor Grader NA NA	ice Equipment Water Truck NA NA
Support Ec Road Mainten Cost Breakdown: 0 %Utilization-machine: Ownership cost/hour: %Utilization-riper: @perator cost/hour: Operator cost/hour: Unit Subtotals: Number of Units: Group Subtotals:	uipment -L -Du hance –Moto -Wa Truck/Loa Truck 100 \$24.61 \$50.89	-Loader: CA Load Area: Ca ump Area: Ca or Grader: NA ater Truck: NA ader Team Loader 100 \$48.09 \$58.95	x 1 972H t D8T - 8SU t D8T - 8SU A A Support 1 Load Area 5 \$116.22	Equipment Dump Area 50 \$116.22	Maintenan Motor Grader NA NA	Ce Equipment Water Truck NA NA
Road Mainten Road Mainten Cost Breakdown: 0 7 % Utilization-machine: 7 Øwnership cost/hour: 7 Øutilization-machine: 7 Øwnership cost/hour: 7 Øutilization-machine: 7 Øutilization-machine: 7 Øutilization-machine: 7 Øutilization-riper: 8 Ripper own. cost/hour: 7 Ripper op. cost/hour: 7 Øperator cost/hour: 7 Unit Subtotals: 7 Number of Units: 7 Group Subtotals: 7	-Du ance -Moto -Wa Truck/Loa Truck 100 \$24.61 \$50.89	ump Area: Ca or Grader: NA ater Truck: NA ader Team Loader 100 \$48.09 \$58.95	t D8T - 8SU A Support 1 Load Area 5 \$116.22	Equipment Dump Area 50 \$116.22	Maintenar Motor Grader NA NA	ice Equipment Water Truck NA NA
Road Mainten Cost Breakdown: Cost Breakdown: 7 %Utilization-machine: 7 %Utilization-machine: 7 Operating cost/hour: 7 %Utilization-riper: 7 Ripper own. cost/hour: 7 Operator cost/hour: 7 Unit Subtotals: 7 Number of Units: 7 Group Subtotals: 7	nance – Mote -Wa Truck/Loa Fruck 100 \$24.61 \$50.89	or Grader: NA ater Truck: NA ader Team Loader 100 \$48.09 \$58.95	A Support Load Area 5 \$116.22	Equipment Dump Area 50 \$116.22	Maintenan Motor Grader NA NA	Ce Equipment Water Truck NA NA
Cost Breakdown:% Utilization-machine:Øwnership cost/hour:Øperating cost/hour:% Utilization-riper:% Utilization-riper	Truck/Loa Fruck 100 \$24.61 \$50.89	ader Team Loader 100 \$48.09 \$58.95	Support Load Area 5 \$116.22	Equipment Dump Area 50 \$116.22	Maintenan Motor Grader NA NA	CCE Equipment Water Truck NA NA
Cost Breakdown:%Utilization-machine:Ownership cost/hour:Operating cost/hour:%Utilization-riper:%Utilization-riper:Ripper own. cost/hour:Ripper op. cost/hour:Operator cost/hour:Unit Subtotals:Number of Units:Group Subtotals:	Truck/Loa Fruck 100 \$24.61 \$50.89	ader Team Loader 100 \$48.09 \$58.95	Support Load Area 5 \$116.22	Equipment Dump Area 50 \$116.22	Maintenan Motor Grader NA NA	NA
%Utilization-machine: Ownership cost/hour: Operating cost/hour: %Utilization-riper: %Utilization-riper: Ripper own. cost/hour: Ripper op. cost/hour: Operator cost/hour: Unit Subtotals: Number of Units: Group Subtotals:	Truck 100 \$24.61 \$50.89	Loader 100 \$48.09 \$58.95	Load Area 5 \$116.22	Dump Area 50 \$116.22	Motor Grader NA NA	Water Truck NA NA
%Utilization-machine:Ownership cost/hour:Operating cost/hour:%Utilization-riper:Ripper own. cost/hour:Ripper op. cost/hour:Operator cost/hour:Unit Subtotals:Number of Units:Group Subtotals:	100 \$24.61 \$50.89	100 \$48.09 \$58.95	5 \$116.22	50 \$116.22	NA NA	NA NA
Ownership cost/hour:Operating cost/hour:%Utilization-riper:Ripper own. cost/hour:Ripper op. cost/hour:Operator cost/hour:Unit Subtotals:Number of Units:Group Subtotals:	\$24.61 \$50.89	\$48.09 \$58.95	\$116.22	\$116.22	NA	NA
Operating cost/hour:%Utilization-riper:Ripper own. cost/hour:Ripper op. cost/hour:Operator cost/hour:Unit Subtotals:Number of Units:Group Subtotals:	\$50.89	\$58.95				
%Utilization-riper: Ripper own. cost/hour: Ripper op. cost/hour: Operator cost/hour: Unit Subtotals: Number of Units: Group Subtotals:	NT A		\$4.49	\$44.88	NA	NA
Ripper own. cost/hour:Ripper op. cost/hour:Operator cost/hour:Unit Subtotals:Number of Units:Group Subtotals:	NA	0	NA	NA	NA	NA
Ripper op. cost/hour:Operator cost/hour:Unit Subtotals:Number of Units:Group Subtotals:	NA	\$0.00	\$0.00	\$0.00	NA	NA
Operator cost/hour: Unit Subtotals: Number of Units: Group Subtotals:	NA	\$0.00	\$0.00	\$0.00	NA	NA
Unit Subtotals: Number of Units: Group Subtotals:	\$24.82	\$35.97	\$40.04	\$40.04	NA	NA
Number of Units: Group Subtotals:	\$100.33	\$143.01	\$160.74	\$201.14	NA	NA
Group Subtotals:	2		1		0	0
	Work:	\$343.67	Support:	\$361.88	Maint:	\$0.00
Total work team cost/hour	r: <u>\$705.55</u>	5				
MATEDIAL OUANT	TTIES					
MATERIAL QUANT	<u>111E5</u>					
Initial volume: <u>8,</u>	066	$\frac{1}{1}$	Y Swell	factor: <u>1.115</u>		
	0,995		I 			
Source of est	of estimated	l volume: PAH	R Exhibit L Handbook			
Mat	erial Purcha	ase Cost: $\$0.0$	0			
	Тс	otal Cost: \$0.0	00			
<u>HOURLY PRODU(</u>	<u>JTION</u>					
Truck Capacity:						
Truck Payload (weight) B Material weight	<u>basis:</u>		Pounde/I CV			
Description	$\frac{2,100}{\text{Earth}}$	Loam				
Rated Payload	: 50,300)	Pounds			

Truck Bed (volume) Basis:						
Struck Volume:	12.00 L	.CY				
Heaped Volume:	18.00 L	.CY				
Average Volume:	15.00 L	.CY				
Adjusted Volume:	18.00 L	.CY				
Final	Truck Volume F	Based on Number of	Loader Passes:	17.64	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: N	А	
Rated Capacity:	5.600	LCY (heaped)				
Bucket Fill Factor:	1.050	Moist loam or sa	ndy clay (100%	- 110%) 1.050		-
Adjusted Capacity:	5.880	LCY				-
Job Condition Corrections:	<u>:</u>	Site	e Altitude (ft.):	<u>4350</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE	3)		
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Pass	ses Required to	Fill Truck:	<u> 3 </u>	asses
Excavators and Front Shove	<u>ls:</u>					
Machine Cycle Time y	s Job Condition	Rating: NA				
Selected Value	within this Basic	Rating: NA				
Track Loaders –	Material Descrir	otion:				
Cycle Time Elements (min.):						
Load: NA	Ma	neuver: NA		Dump: 0.100	1	
	_					
Wheel and Track Loaders -	Unadjusted Bas	ic Loader Cycle Tim	e (load, dump, 1	maneuver): 0.	525 minu	ites
Cycle Time Factors				Factor (min.)	Source	
Material:	Mixed materia	1 0.02		0.020	(Cat HB)	
Stockpile:	Conveyor or de	ozer piled 10 ft. high	and up 0.00	0.000	(Cat HB)	
Truck Ownership:	Common owne	ership of trucks and l	oaders -0.04	-0.040	(Cat HB)	
Operation:	Constant opera	ation -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal target	t 0.00		0.000	(Cat HB)	_
		Net Cycle Time	e Adjustment:	-0.060	minutes	
		riet eyele riik	-			
		Adjusted Loade	r Cycle Time:	0.465	minutes	
		Adjusted Loade Net Load Tin	r Cycle Time: me per Truck:	0.465 1.030	minutes	
Truck Cycle Time:		Adjusted Loade Net Load Tin	r Cycle Time: me per Truck:	0.465 1.030	minutes	
<u>Truck Cycle Time:</u> Truck Exchange Time	: 0.50	Adjusted Loade Net Load Tin Minutes	r Cycle Time: me per Truck: Adjusted	0.465 1.030 for site altitude:	0.500	Minute
<u>Truck Cycle Time:</u> Truck Exchange Time Truck Load Time	: <u>0.50</u> : <u>1.030</u>	Adjusted Loade Net Load Tin Minutes	r Cycle Time: me per Truck: Adjusted Adjusted	0.465 1.030 for site altitude: for site altitude:		Minute Minute
<u>Truck Cycle Time:</u> Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	: 0.50 : 1.030 : 0.90	Adjusted Loade Net Load Tin Minutes Minutes Minutes	r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	0.465 1.030 for site altitude: for site altitude: for site altitude:	minutes minutes 0.500 1.030 0.900	Minute Minute Minute
<u>Truck Cycle Time:</u> Truck Exchange Time Truck Load Time ck Maneuver and Dump Time	: 0.50 : 1.030 : 0.90	Adjusted Loade Net Load Tin Minutes Minutes Minutes	r Cycle Time: me per Truck: Adjusted Adjusted Adjusted	0.465 1.030 for site altitude: for site altitude: for site altitude:	minutes 0.500 1.030 0.900	Minute Minute Minute
<u>Truck Cycle Time:</u> Truck Exchange Time Truck Load Time ck Maneuver and Dump Time <u>Truck Travel (Haul & Returr</u>	: 0.50 : 1.030 : 0.90	Adjusted Loade Net Load Tin Minutes Minutes Minutes Road Condition: <u>R</u>	r Cycle Time: me per Truck: Adjusted Adjusted Adjusted utted dirt, little	0.465 1.030 for site altitude: for site altitude: for site altitude: maintenance, no wa		Minute Minute Minute

Truck/Loader Worksheet Cont'd

Seg #	Haul I	Distance	Grade (%)	Roll Res	Total Res	Velocity	Travel	
505 "	(Ft)	istance	Grade (70)	(%)	(%)	(fnm)	Time	
	(11)			(70)	(70)	(ipiii)	(min)	
1	1100.0	00	0.00	5.00	5.00	2218	0.611	
					Haul Time:	0.611	minutes	
Return R	loute:							
Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1100.0	00	0.00	5.00	5.00	2814	0.427	
					Return Time:	0.427	minute	s
				Total Tru	ck Cycle Time:	3.468	minute	s
L oading To	olunit							
Loading To Prod	ol unit luction	691.76	LCY/Hour		Adjusted for j	ob efficiency:	574.16	LCY/Hour
Loading To Prod uck Unit Prod	ol unit luction _ luction	691.76	LCY/Hour		Adjusted for j	ob efficiency:	574.16	LCY/Hour
Loading To Prod uck Unit Prod	ol unit luction _ luction _	691.76 305.19	LCY/Hour LCY/Hour		Adjusted for j Adjusted for j	ob efficiency: ob efficiency:	<u> </u>	LCY/Hour LCY/Hour
Loading To Prod uck Unit Prod timal No. of T	ol unit luction _ luction _ Trucks: _	691.76 305.19 2	LCY/Hour LCY/Hour Truck(s)		Adjusted for j Adjusted for j Selected Numl	ob efficiency: ob efficiency: ber of Trucks:	<u>574.16</u> <u>253.31</u> 2	LCY/Hour LCY/Hour Truck(s)
Loading To Prod uck Unit Prod timal No. of T	ol unit luction _ luction _ Trucks: _	691.76 305.19 2	LCY/Hour LCY/Hour Truck(s) Adjuste	d hourly truc	Adjusted for j Adjusted for j Selected Numl k team productio	ob efficiency: ob efficiency: ber of Trucks: on: 506	<u>574.16</u> <u>253.31</u> <u>2</u> .62 LCY	LCY/Hour LCY/Hour Truck(s) //Hour
Loading To Prod uck Unit Prod timal No. of T	ol unit luction _ luction _ 'rucks: _	691.76 305.19 2	LCY/Hour LCY/Hour Truck(s) Adjusted sing	d hourly truc le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: <u>506</u> on: <u>506</u>	<u>574.16</u> <u>253.31</u> <u>2</u> .62 LCY .62 LCY	LCY/Hour LCY/Hour Truck(s) ?/Hour ?/Hour
Loading To Prod uck Unit Prod timal No. of T	ol unit luction _ luction _ `rucks: _	691.76 305.19 2	LCY/Hour LCY/Hour Truck(s) Adjusted sing Adjusted multip	d hourly truc le truck/loade le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: 506 on: 506 on: 506	<u>574.16</u> <u>253.31</u> <u>2</u> .62 LCY .62 LCY .62 LCY	LCY/Hour LCY/Hour Truck(s) ?/Hour ?/Hour ?/Hour
Loading To Prod uck Unit Prod timal No. of T <u>JOB TI</u>	ol unit luction _ luction _ Trucks: _	691.76 305.19 2 D COST	LCY/Hour LCY/Hour Truck(s) Adjusted sing Adjusted multip	d hourly truc le truck/loade le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: 506 on: 506 on: 506	<u>574.16</u> <u>253.31</u> <u>2</u> <u>.62</u> <u>LCY</u> <u>.62</u> LCY	LCY/Hour LCY/Hour Truck(s) ?/Hour ?/Hour ?/Hour
Loading To Prod uck Unit Prod timal No. of T <u>JOB TI</u> Fleet	ol unit luction _ luction _ Trucks: _ [ME AN] t size:	691.76 305.19 2 D COST 1	<pre> LCY/Hour LCY/Hour Truck(s)</pre>	d hourly truc le truck/loade le truck/loade	Adjusted for j Adjusted for j Selected Numl k team productio er team productio er team productio	ob efficiency: ob efficiency: ber of Trucks: on: <u>506</u> on: <u>506</u> on: <u>506</u>	<u>574.16</u> <u>253.31</u> <u>2</u> <u>.62</u> <u>.62</u> <u>.62</u> <u>LCY</u> <u>.62</u> <u>LCY</u> <u>5</u> Ho	LCY/Hour LCY/Hour Truck(s) ?/Hour ?/Hour ?/Hour

REVEGETATION WORK

Task description:		Reveg 10ac upland				
te: 23 1/4 W	est Pit	Permit Action:	App	Permit/Job#: M202003		
PROJECT	IDENTIFIC	CATION				
Task #:	04A	State: Colorado		Abbreviation:	None	
Date:	11/2/2020	County: Mesa		Filename:	M035-04a	
	ACW					

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)	\$107.16
Total Tilling Cost/Acre	\$107.16

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	2.00	78.05	\$56.95
Indian Ricegrass - Paloma	0.50	1.62	\$5.56
Galleta	0.50	1.83	\$11.18
Slender Wheatgrass - Native	3.00	10.95	\$13.88
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
Saltbush, Four Wing	4.00	5.51	\$50.00
Totals Seed Mix	14.00	108.06	\$163.56

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$301.00	\$602.00
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.92	\$2.92
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.16	\$4.16
Total Mulch Materials Cost/Acre				\$609.08

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
Power mulcher (MEANS 32 91 13.16 0350)		\$101.93
Weed spray, hand, aquatic area, nox. [DMG]		\$183.16
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$417.98

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	10	Cost /Acre:	\$1,529.78	
Estimated Failure Rate:	50%	Cost /Acre*:	\$1,529.78	
*Selected Replanting Work Items:	TILLING,SEEDIN	G,MULCHING		

Initial Job Cost:	\$15,297.80
Reseeding Job Cost:	\$7,648.90
Total Job Cost:	\$22,947
Job Hours:	15.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Init	ial Mobilization					
: 23 1/4 West Pi	t	Permit	Action: <u>App</u>			Permit/Job#: <u>M</u>	2020035
PROJECT IDEN	NTIFICATI	<u>ON</u>					
Task #: 10A	L	State: Co	olorado		Abbro	eviation: None	
Date: 11/2 User: AC	2/2020 Y	County: M	esa		F	ilename: M035	-10a
Agency of	r organizatior	name: DRMS					
EQUIPMENT T	RANSPOR	<u>T RIG COST</u>					
					Shift ba	asis: 1 per da	у
					Cost Data Sou	rce: CRG Da	ta
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TR	UCK TRACT	OR, 6X4, DIESEL	POWERED.
		1		400 HF	(2ND HALF,	, 2006)	,
Truck	Trailer Desc	ription: G	ENERIC FOLD	ING GOO	DSENECK, DI	ROP DECK EQU	IPMENT
			- -	FRAILER	(25T, 50T, Al	ND 100T)	
Cost Drest down							
	•.•	0.0 / T					
Available Rig Ca	apacities	0-25 Tons	26-50 Tons	51	+ Tons		
Ownership	Cost/Hour:	\$17.20	\$29.63	\$	38.69		
Operating	Cost/Hour:	\$20.50	\$47.02	\$	$\frac{33.09}{32.62}$		
Uperator	Cost/Hour:	\$23.03	\$23.03		23.03		
Total Unit	Cost/Hour:	\$0.00	\$23.33 \$122.91	ው 	25.55		
Total Unit	Cost/Hour:	\$07.39	\$123.81	\$1	141.54		
NON ROADAB	LE EQUIPN	<u>IENT:</u>					
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
= coorrenon	(TONS)		t	2.2.0	fleet		
Cat D8T - 8SU	47.71	\$116.22	\$123.81	1	\$240.03	\$123.81	\$250.00
CAT 972H	28.00	\$48.09	\$123.81	1	\$171.90	\$123.81	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.72	\$67.39	1	\$74.11	\$67.39	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$11.19	\$67.39	1	\$78.58	\$67.39	\$250.00
Submersible pump	0.70	\$10.98	\$67.39	1	\$78.37	\$67.39	\$250.00

Subtotals: \$642.99 \$449.79 \$1,250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$100.32	2	\$200.64	\$200.64
Flatbed Truck, 4x2, 30K GVW	\$58.44	1	\$58.44	\$58.44
		Subtotals:	\$259.08	\$259.08

CIRCES Cost Estimating Software

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION	
Total one-way travel distance:	3.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$3,949.90	
Total Roadable Mob/Demob Cost **	\$38.86	_
** one round trip, no haul rig:	\$38.80	_

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.08	0.08
Return Time (Hours):	0.08	0.08
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.15	0.15

JOB TIME AND COST

Total job time: **2.30** Hours

Total job cost: \$3,989

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Sec	ondary Mobilizat	tion					
: 23 1/4 West Pi	it	Permit	Action: <u>App</u>		1	Permit/Job#	#: <u>M2</u>	020035
PROJECT IDE	NTIFICATI	ON						
Task #: 10H	3	State: Co	olorado		Abbre	viation:	None	
Date: 11/	2/2020	County: M	esa		Fi	lename:	M035-	10b
User: AC	Y							
Agency	or organization	n name: DRMS						
FOLIDMENT 7		T DIC COST						
	INANSFUR	<u>1 KIG COST</u>			01 . 6 1			
				C	Shift ba	sis: I	per day	
				C	lost Data Soul		NO Data	L
Truck	c Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	CK TRACTO	DR, 6X4, D	IESEL	POWERED,
				400 HP	(2ND HALF,	2006)	Form	
Truc	k Trailer Desc	ription: G	ENERIC FOLD	DING GOO	SENECK, DR	ROP DECK	EQUI	PMENT
				I KAILEK ((251, 501, AN	ND 1001)		
Cost Breakdown:								
Available Rig C	apacities	0-25 Tons	26-50 Tons	51+	Tons			
Ownership	Cost/Hour:	\$17.20	\$29.63	\$3	8.69			
Operating	g Cost/Hour:	\$26.56	\$47.02	\$5	5.69			
Operator	r Cost/Hour:	\$23.63	\$23.63	\$2	3.63			
Helper	Cost/Hour:	\$0.00	\$23.53	\$2	3.53			
Total Unit	t Cost/Hour:	\$67.39	\$123.81	\$14	41.54			
NON ROADAB	<u>LE EQUIPN</u>	MENT:						
Machina	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return T	rip	DOT Permit
Machine	W CIGIIU					1		
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/	fleet	Cost/ fleet
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/	fleet	Cost/ fleet
Description Drill/Broadcast Seeder with Tractor	Unit (TONS) 25.00	Cost/hr/ unit \$6.72	Cost/hr/uni t \$67.39	Size	Cost/hr/ fleet \$74.11	Cost/hr/ : \$67.39	fleet	Cost/ fleet \$250.00
Drill/Broadcast Seeder with Tractor Power Mulcher (Bowie LD-90)	Unit (TONS) 25.00 6.00	Cost/hr/ unit \$6.72 \$11.19	Cost/hr/uni t \$67.39 \$67.39	Size 1 1	Cost/hr/ fleet \$74.11 \$78.58	\$67.39 \$67.39	fleet	Cost/ fleet \$250.00 \$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$58.44	1	\$58.44	\$58.44
		Subtotals:	\$58.44	\$58.44

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION	
Total one-way travel distance:	3.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,348.50	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$8.77	

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.08	0.08
Return Time (Hours):	0.08	0.08
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.15	0.15

JOB TIME AND COST

Total job time: 2.30 Hours

Total job cost: \$1,357